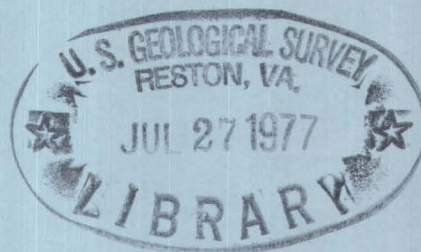


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Water Resources Data for New York Water Year 1976

Volume 1. New York excluding Long Island



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-76-1

Prepared in cooperation with the State of New York
and with other agencies

CALENDAR FOR WATER YEAR 1976

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Water Resources Data for New York Water Year 1976

Volume 1. New York excluding Long Island



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-76-1

**Prepared in cooperation with the State of New York
and with other agencies**

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

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Syosset, New York 11791

1977

PREFACE

This report was prepared by personnel of the New York district of the Water Resources Division of the U.S. Geological Survey under the supervision of R. J. Dingman, District Chief, and J. T. Callahan, Regional Hydrologist, Northeastern Region. It was done in cooperation with the State of New York and with other agencies.

This report is one of a series issued by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for New York are in two volumes as follows:

- Volume 1. New York excluding Long Island
- Volume 2. Long Island

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16. Abstracts Water resources data for the 1976 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. This report (Volume 1) contains discharge records for 210 gaging stations; stage only records for 41 gaging stations (includes 31 lake and reservoir stations, 8 tide stations, and 2 other river stations); stage and contents for 21 other lakes and reservoirs; water quality for 74 gaging stations, 15 partial-record stations, and 8 precipitation stations; and water levels for 16 observation wells. Also included are 146 crest-stage partial-record stations and 5 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. These data represent that part of the National Water Data System collected by the U.S. Geological Survey in cooperation with State, Federal, and other agencies in New York.			
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17b. Identifiers/Open-Ended Terms Tide stations, Sampling sites			
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WATER RESOURCES DATA FOR NEW YORK, 1976
Volume 1.--New York excluding Long Island

INTRODUCTION

Water resources data for the 1976 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. This report (Volume 1) contains discharge records for 210 gaging stations; stage only records for 41 gaging stations (includes 31 lake and reservoir stations, 8 tide stations, and 2 other river stations); stage and contents for 21 other lakes and reservoirs; water quality for 74 gaging stations, 15 partial-record stations, and 8 precipitation stations; and water levels for 16 observation wells. Also included are 146 crest-stage partial-record stations and 5 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. These data represent that part of the National Water Data System collected by the U.S. Geological Survey in cooperation with State, Federal, and other agencies in New York.

Records of discharge or 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 Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released in separate reports. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report 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 report (Volume 1) is identified as "U.S. Geological Survey Water-Data Report NY-76-1." (Volume 2.--Long Island, is identified as "U.S. Geological Survey Water-Data Report NY-76-2.") Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of New York and other agencies have had cooperative agreements for the systematic collection of water records since 1900. Organizations that assisted in collecting data (included in Volumes 1 and 2, water year 1976) through cooperative agreement with the Survey are:

New York State Department of Environmental Conservation, Peter A. A. Berle, commissioner.
New York State Department of Transportation, R. T. Schuler, commissioner.
New York State Education Department, Ewald B. Nyquist, commissioner.
Power Authority of the State of New York, J. A. Fitzpatrick, chairman; G. T. Berry, chief engineer.
Board of Hudson River-Black River Regulating District, Robert Forrest, chief engineer.
Central New York State Parks Commission, Samuel Perry, regional director.
Oswegatchie River-Cranberry Reservoir Commission, Maynard R. Miller, chairman.
County of Chautauqua, Planning Department, J. R. Luensman, director.
County of Cortland, Planning Department, T. Zollendeck, director.
County of Dutchess, W. H. Bartles, county executive.
County of Monroe, Water Authority, T. C. McTighe, Jr., chairman.
County of Nassau, Department of Public Works, H. J. Plock, Jr., commissioner.
County of Onondaga, Department of Public Works, J. T. Hennigan, commissioner.
County of Onondaga, Water Authority Commission, S. E. Pomeroy, chairman.
County of Orange, Department of Public Works, L. J. Cascino, commissioner.
County of Putnam, Board of Supervisors, J. Percacciolo, Jr., chairman.
County of Suffolk, Department of Environmental Control, J. M. Flynn, commissioner.
County of Suffolk, Water Authority, W. C. Hazlitt, chairman.
County of Ulster, County Legislature, P. Savage, chairman.
County of Westchester, Department of Public Works, Frank Bohander, commissioner.
City of Albany, Department of Water and Water Supply, D. F. Bruno, commissioner.
City of Auburn, B. L. Clifford, city manager.
City of New York, Board of Water Supply, Martin Hauptman, chief engineer.
City of New York, Department of Water Resources, Charles Samowitz, commissioner; Abraham Groopman, chief engineer.
City of Rochester, E. C. Freedman, city manager.
Town of Brighton, R. D. Wiles, supervisor.
Town of Clarkstown, G. S. Gerber, supervisor.
Town of Warwick, C. B. Rowe, supervisor.
Village of Nyack, Board of Water Commissioners, Leonard Cooke, chairman.
Delaware River Basin Commission, J. F. Wright, executive director.

Assistance in the form of funds for collecting records at gaging stations published in this report was also given by the U.S. Army Corps of Engineers, the Soil Conservation Service, the Environmental Protection Agency, and the St. Lawrence Seaway Development Corp.

The following organizations aided in collecting records:

Municipalities of Batavia, Canandaigua, Cortland, Harrison, Jamestown, Lancaster, Mamaroneck, Oneida, Plattsburgh, Rochester, Rome, Rye, Syracuse, Tarrytown, and Yonkers; Cornell University; Central Hudson Gas and Electric Corp.; Indian River Co.; New York State Electric and Gas Corp.; Niagara Mohawk Power Corp.; Rochester Gas and Electric Corp.; Orange and Rockland Utilities, Inc.; and Power Authority of the State of New York.

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

The 1976 water year varied mostly from very high to normal surface-water discharges and ground-water levels.

The water year began with streamflow at the index stations in the high (within the highest 25 percent of record for the month) range; floodflows from the late September Tropical Storm Eloise were receding.

Streamflow throughout the State continued normal to high until April, when at some stations, monthly mean flows decreased contraseasonally and were in the low range. By May, streamflow was again in the normal to high range; reservoirs, other than those used for flood control, were at or near capacity. Throughout most of the State streamflow then continued normal to high through the end of the water year; all four index stations were in the high range throughout this period.

Monthly mean discharge of Hudson River at Hadley was in the high range during every month except January. Index stations West Branch Oswegatchie River near Harrisville and Mohawk River at Cohoes each had monthly mean discharges in the high range during 10 months of the water year. The Susquehanna River at Conklin index station similarly had high discharges during seven months; October and February had their highest monthly mean discharges since record began in 1912.

Local thunderstorms on June 19 and 20 caused flooding in the Corning-Elmira area; flooding also occurred in the area southeast of Ithaca on July 11. Disaster relief was requested for these areas. Rapid runoff from heavy rains associated with Hurricane Belle in August resulted in flooding of Vermont streams in the Hudson River basin. Minor flooding occurred at various localities at other times during the year as the result of localized heavy rainfall, snowmelt, or ice jams.

The elevation of Lake Champlain (Richelieu River, a tributary to St. Lawrence River) at Rouses Point was above average for the entire water year and peaked on April 5 to less than half a foot lower than the maximum known (at site near present gage) since at least 1827.

Ground-water levels at the beginning of the water year were generally in the high (within the highest 25 percent of record for the month) to normal range. These high to normal levels continued until April, when low to normal levels then predominated. A contraseasonal rise in levels in May brought conditions back to the high range. Then, the expected seasonal decline in ground-water levels began again. However, throughout the remainder of the water year, levels continued in the high to normal range. The water year closed with ground-water levels generally in the high range and rising.

Most areas of the State had unusually high ground-water levels during the greater part of the year. The greatest number of record highest monthly ground-water levels were observed during February and March and again in August and September.

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 English 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 at 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.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

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 facultative 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 \pm 1.0°C on M-Endo medium (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 \pm 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 \pm 1.0°C on M-enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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

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.

Bottom material: See Bed 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.

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.

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 refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (coloidal) suspended particles. Analyses are performed on filtered samples.

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.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

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 ($\mu\text{g/g}$) 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 ($\mu\text{g/L}$, $\mu\text{g/L}$) 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.

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.

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.

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.

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/(m²·time) for periphyton and macrophytes and mg C/(m³·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 O₂/(m²·time) for periphyton and macrophytes and mg O₂/(m³·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.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

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 concentration 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 emerged 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 the 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-micrometer filter.

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.....Hexagenia
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 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.

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 1976.

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 indentation in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation 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.

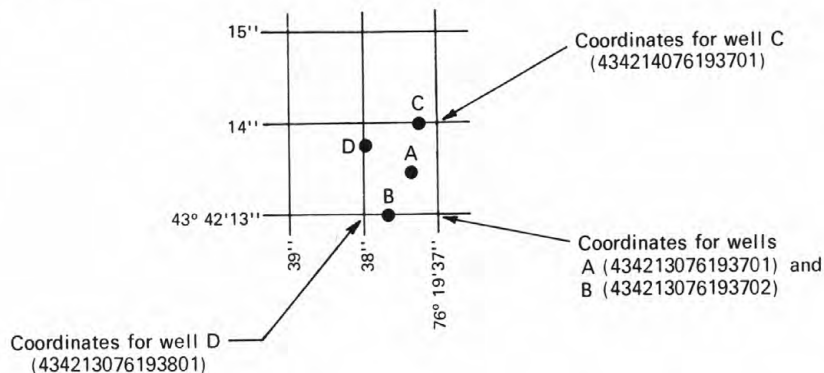


Figure 1. System for numbering wells (latitude and longitude)

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 888, 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 all 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 above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified.

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 daily 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-record 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 ft³/s; to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/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 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

Collection and Examination of Data

Where surface-water samples for analyses are collected at or near gaging stations, the quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

The descriptive heading for precipitation-quality records gives period of record, description of equipment, and general remarks.

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.

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.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other 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.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of Data

Only ground-water level data from a basic network of observation wells are published herein. This basis 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 with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well; mean sea level is the datum plane on which the national network of precise levels is based. If known, the altitude of the land-surface datum above mean sea level 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 only to a tenth of a foot.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-three 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, Branch of Distribution, 604 South Pickett Street, Alexandria, VA 22304 (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 p. \$1.60.
- 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. \$0.85.
- 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. \$1.90.
- 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. \$1.75.
- 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. \$0.25.
- 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. \$0.20.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
- 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. \$1.00.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. \$0.30.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6, 1968. 13 pages. \$0.20.
- 3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$0.45.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8, 1969. 65 pages. \$1.25.
- 3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. \$0.40.
- 3-A12. *Fluorometric procedures for dye tracing*, by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages \$0.70.
- 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. \$2.50.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$0.65.
- 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 \$0.70.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$1.15.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$0.30.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$0.20.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972, 18 pages. \$0.65.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.75.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 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. \$0.65.
- 5-A1. *Methods for collection and analysis of water samples for dissolved minerals and gases*, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages \$2.40.
- 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. \$0.80.
- 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. \$0.90.
- 5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, by K. V. Slack, R. C. Averett, P. E. Greeson, and P. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. \$1.95.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. \$0.65.
- 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. \$2.30.
- 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. \$0.70.
- 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. \$0.40.

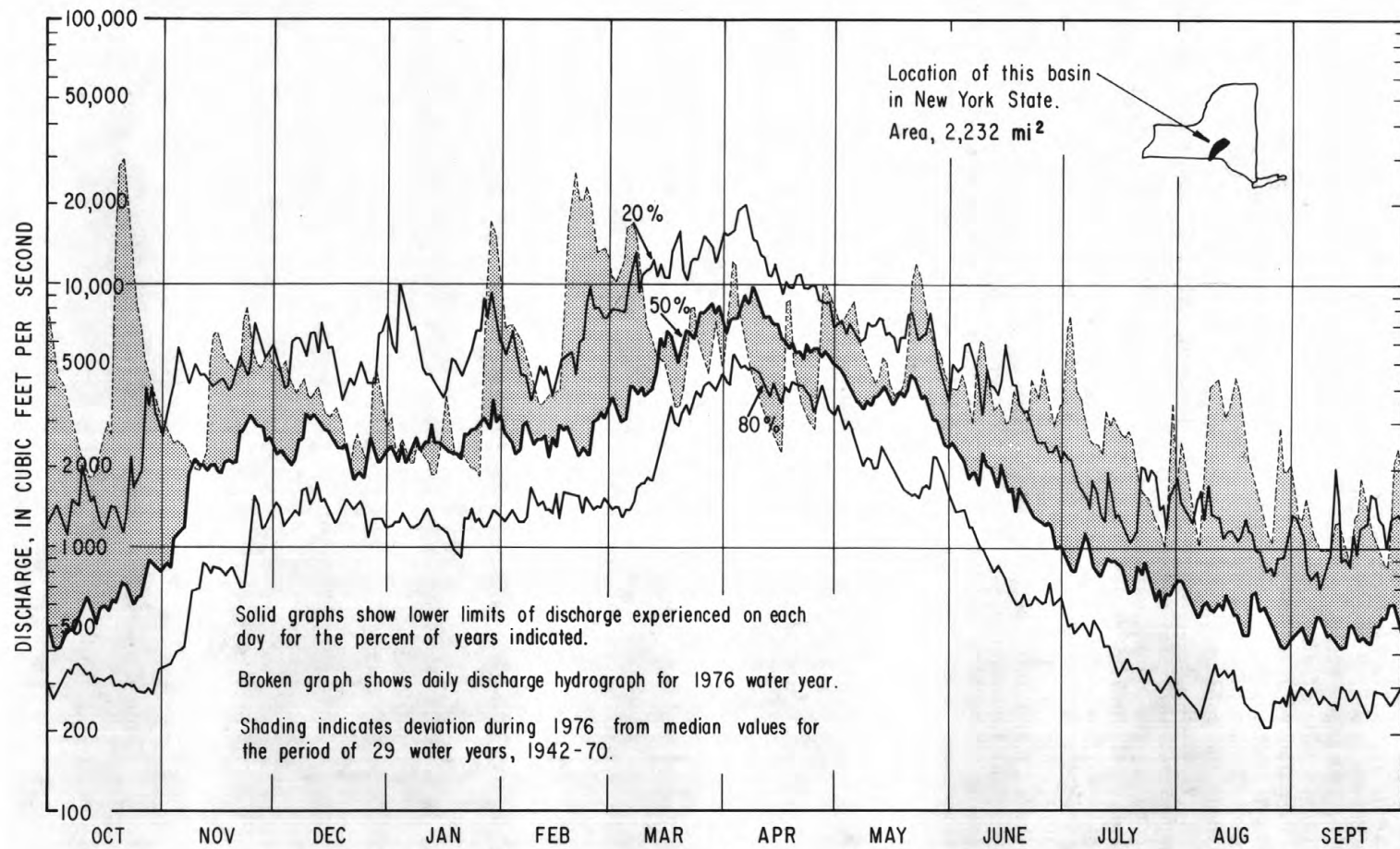


Figure 2.-- Hydrographic comparisons, Susquehanna River at Conklin, N Y

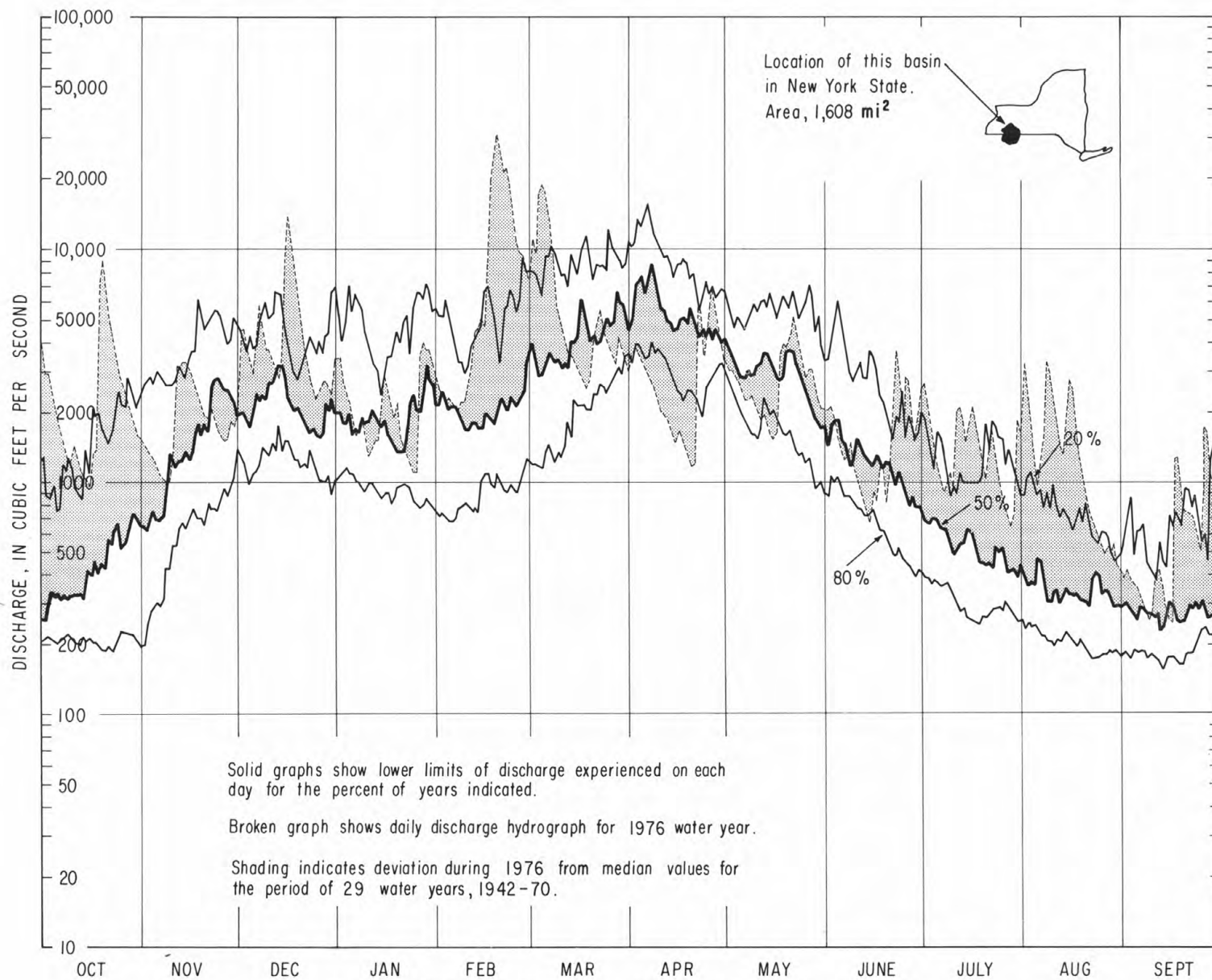


Figure 3.-- Hydrographic comparisons, Allegheny River at Salamanca, N Y

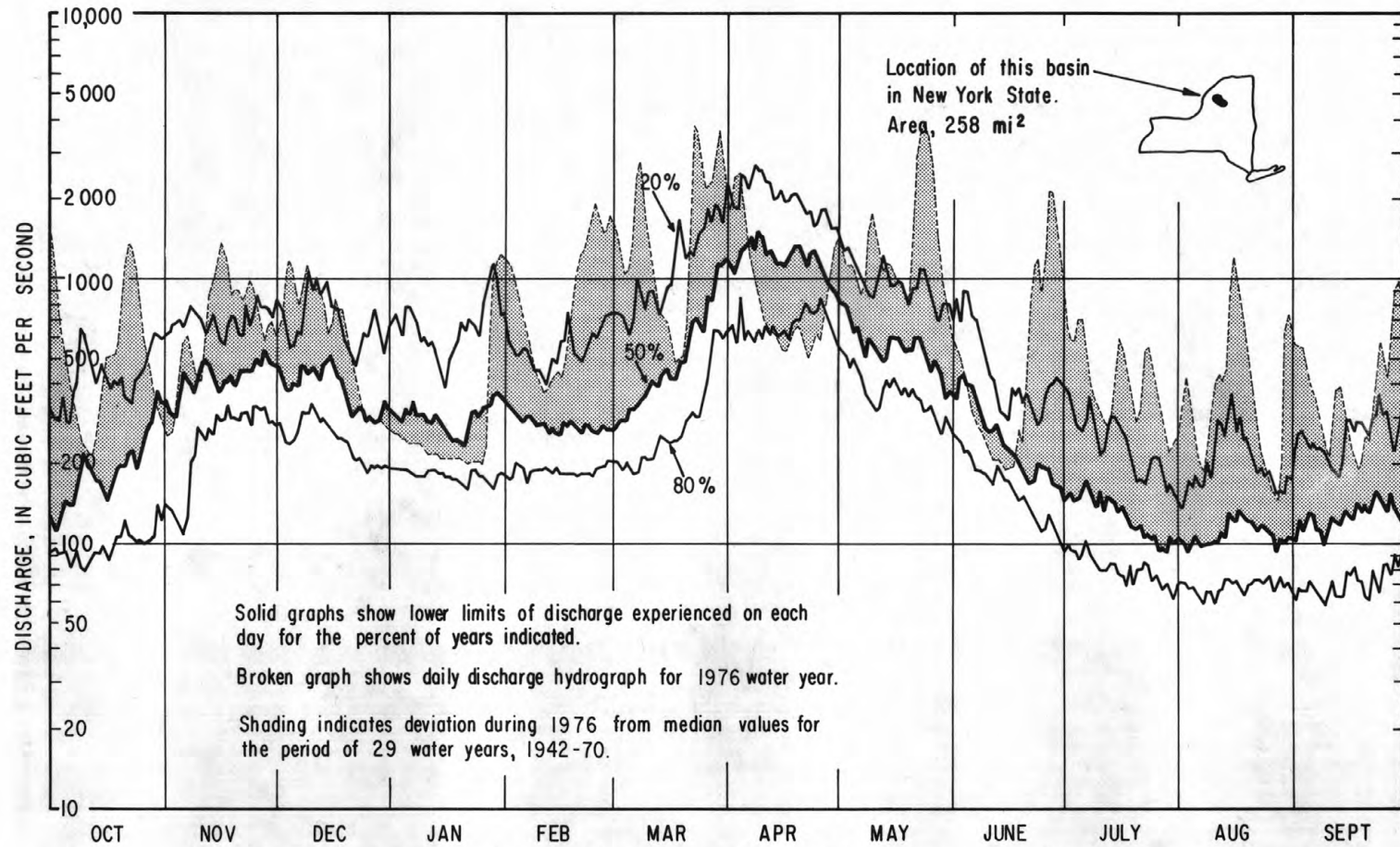


Figure 4.-- Hydrographic comparisons, West Branch Oswegatchie River near Harrisville, N Y

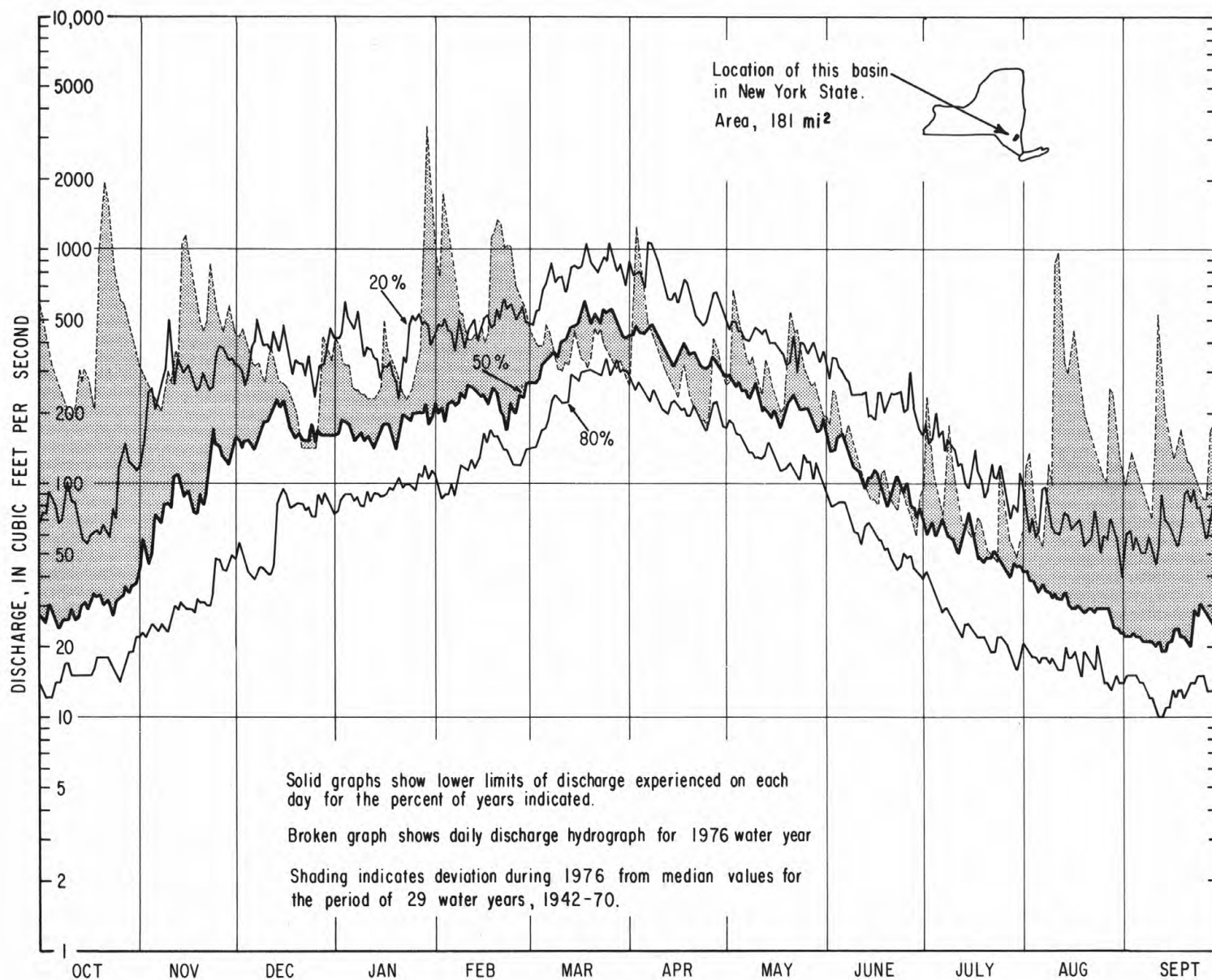
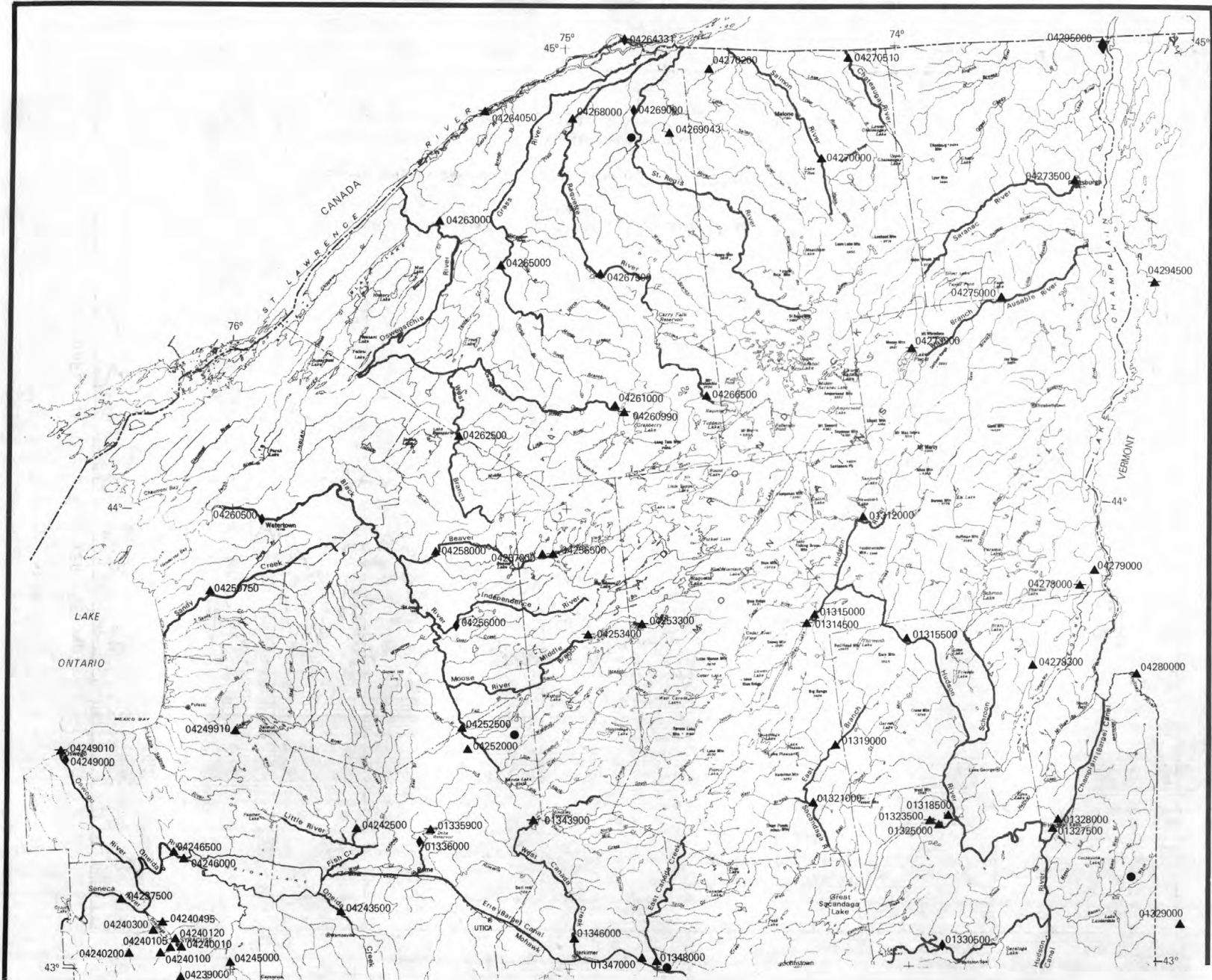


Figure 5.--Hydrographic comparisons, Wappinger Creek near Wappingers Falls, NY



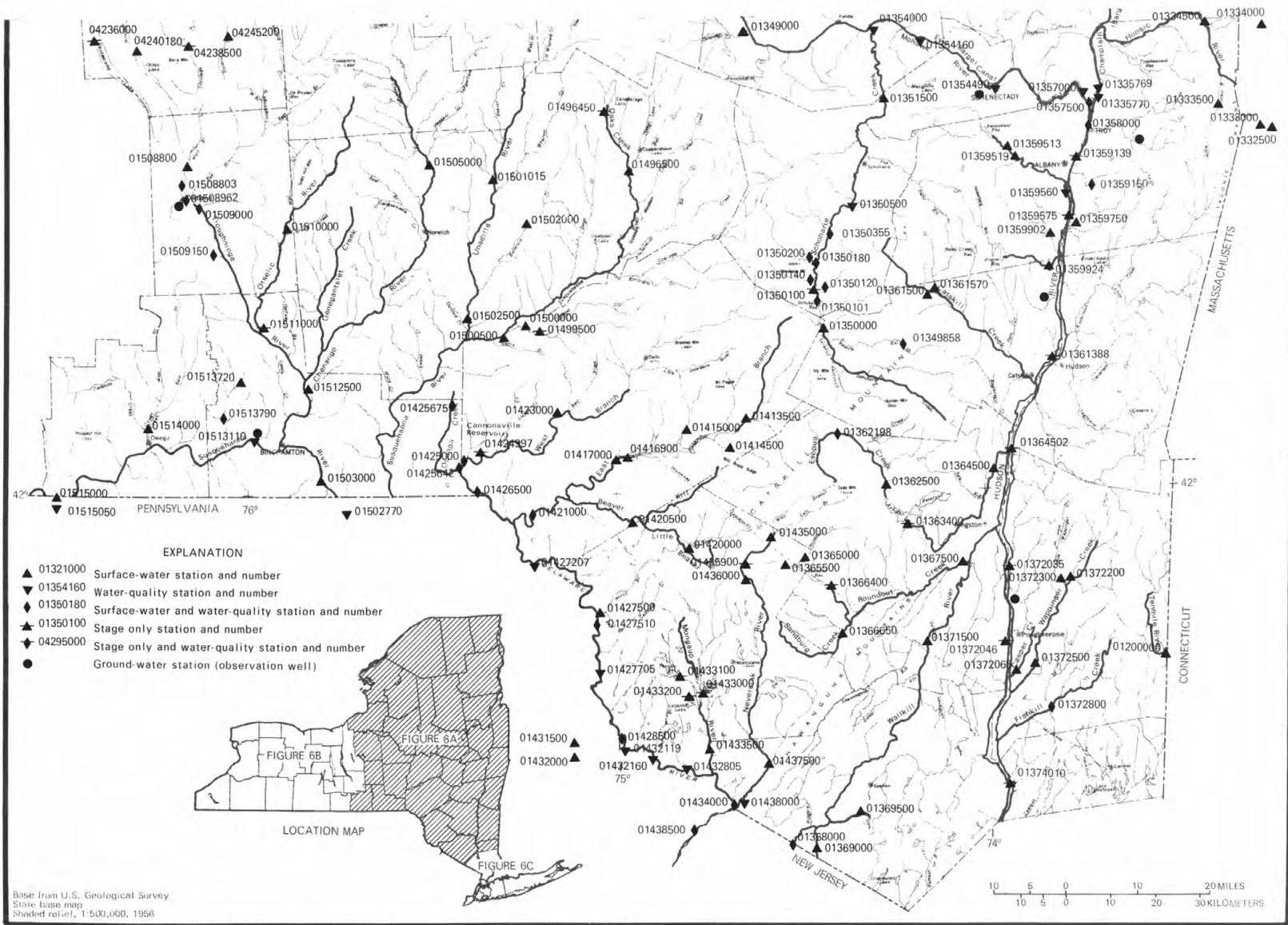


FIGURE 6A.-- LOCATION OF GAGING STATIONS AND OBSERVATION WELLS

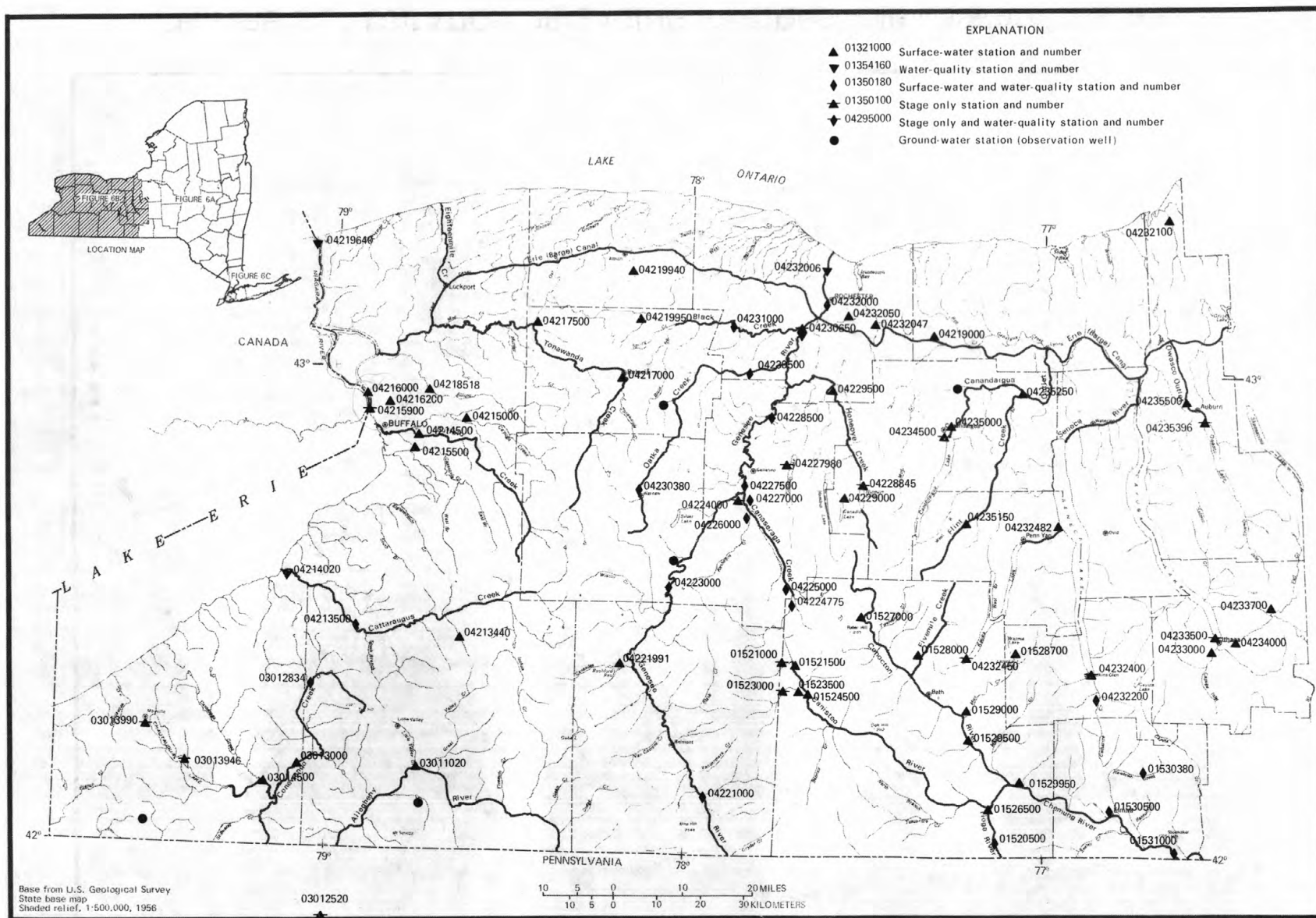


FIGURE 6B.-- LOCATION OF GAGING STATIONS AND OBSERVATION WELLS

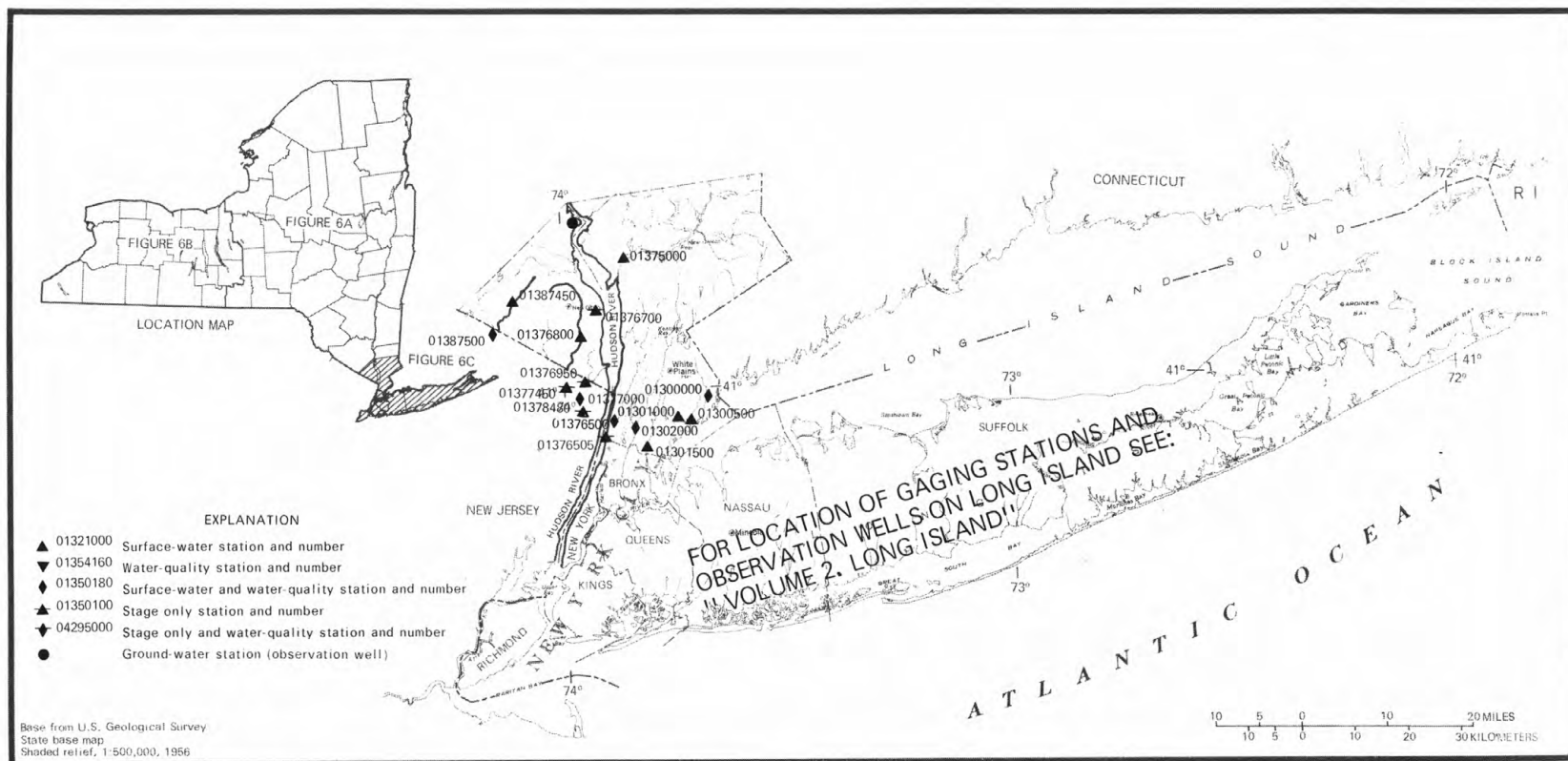


FIGURE 6C.-- LOCATION OF GAGING STATIONS AND OBSERVATION WELLS

HOUSATONIC RIVER BASIN

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CT

LOCATION.--Lat 41°39'32", long 73°31'44", Dutchess County, New York, Hydrologic Unit 01100005, on right bank 0.1 mi (0.2 km) downstream from Deuel Hollow Brook, 1.2 mi (1.9 km) upstream from New York-Connecticut State line, 1.7 mi (2.7 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Gaylordsville.

DRAINAGE AREA.--203 mi² (526 km²).

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for period October to December 1929, published in WSP 1301.

REVISED RECORDS.--WSP 1201: 1939. WSP 1701: 1955-56, 1957(M), 1958-59. WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 304.4 ft (92.78 m) above mean sea level (levels by Connecticut Light and Power Company).

REMARKS.--Records excellent. Infrequent regulation at low flow. Records of iron, specific conductance, and pH of daily samples for 1958-59 available in Connecticut district office at Hartford, Connecticut. Chemical analyses available for water years 1959 (WSP 1641), 1968 (WSP 2091), 1973-75 (WRD NY 1973, WRD NY 1974, WRD NY 1975), and water temperatures available for water year 1959 (WSP 1641).

AVERAGE DISCHARGE.--47 years, 300 ft³/s (8.496 m³/s), 20.07 in/yr (510 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s (493 m³/s) Aug. 19, 1955, gage height, 14.9 ft (4.54 m), from high-water mark, from rating curve extended above 9,800 ft³/s (278 m³/s); minimum, 5 ft³/s (0.14 m³/s) Sept. 8, 1957; minimum gage height, 0.52 ft (0.158 m) Sept. 24, 26, 1939; minimum daily discharge, 7 ft³/s (0.20 m³/s) Oct. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 20	1300	1790 50.7	4.96 1.512	Feb. 19	2000	1430 40.5	4.48 1.366
Jan. 28	Unknown	*4020 114	*7.13 2.173	Feb. 23	0015	1410 39.9	4.46 1.359
Feb. 2	Unknown	2300 65.1	5.55 1.692	Aug. 11	0100	1500 42.5	4.59 1.399

Minimum discharge, 60 ft³/s (1.70 m³/s) July 29, gage height, 1.05 ft (0.320 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	764	400	530	410	845	554	705	319	261	366	155	157
2	635	387	571	390	1920	515	1110	658	307	229	168	172
3	537	355	506	370	1660	492	819	544	289	160	104	216
4	483	332	476	350	1080	489	701	495	246	136	83	170
5	434	311	431	330	917	581	609	436	222	134	71	153
6	399	284	410	310	752	583	541	386	204	108	65	137
7	364	273	400	376	635	506	498	353	233	110	69	120
8	328	324	387	404	614	461	463	426	210	254	92	109
9	303	372	374	373	546	423	432	353	183	177	89	108
10	280	361	516	367	493	408	401	316	163	136	1010	126
11	311	556	534	351	494	426	382	288	146	112	1170	272
12	424	438	452	362	500	417	361	489	133	97	614	202
13	392	1050	415	339	485	528	339	443	126	91	450	169
14	449	1010	397	714	551	589	317	368	113	86	382	136
15	403	885	387	745	473	493	295	338	112	82	419	120
16	342	753	370	584	517	454	363	302	106	78	509	121
17	305	662	340	474	1240	432	382	283	152	84	432	125
18	721	599	324	420	1180	401	325	291	165	84	374	168
19	1250	548	270	410	1310	443	285	568	134	73	320	144
20	1720	511	255	400	1300	543	261	775	120	68	260	127
21	1350	587	250	390	1000	509	235	657	111	65	218	122
22	1040	987	250	380	1150	588	226	654	106	64	188	114
23	843	760	250	380	1240	507	230	539	106	63	165	101
24	720	671	250	375	904	473	215	478	103	131	150	92
25	663	602	308	375	813	449	241	430	96	121	135	86
26	646	558	368	374	754	433	473	397	93	82	124	86
27	573	607	580	2040	701	405	455	395	85	68	260	156
28	518	680	519	3750	655	474	406	349	78	63	289	164
29	477	573	474	2020	590	439	359	308	99	60	259	134
30	446	524	450	1370	---	393	323	289	143	72	238	119
31	410	---	430	961	---	368	---	278	---	77	191	---
TOTAL	18530	16960	12474	20894	25319	14776	12752	13205	4645	3531	9053	4226
MEAN	598	565	402	674	873	477	425	426	155	114	292	141
MAX	1720	1050	580	3750	1920	589	1110	775	307	366	1170	272
MIN	280	273	250	310	473	368	215	278	78	60	65	86
CFSM	2.95	2.78	1.98	3.32	4.30	2.35	2.09	2.10	.76	.56	1.44	.69
IN.	3.40	3.11	2.29	3.83	4.64	2.71	2.34	2.42	.85	.65	1.66	.77

CAL YR 1975 TOTAL 163703 MEAN 449 MAX 2730 MIN 67 CFSM 2.21 IN 30.00
WTR YR 1976 TOTAL 156365 MEAN 427 MAX 3750 MIN 60 CFSM 2.10 IN 28.65

BLIND BROOK BASIN

29

01300000 BLIND BROOK AT RYE, NY

LOCATION.--Lat 40°59'00", long 73°41'14", Westchester County, Hydrologic Unit 02030102, on left bank at Rye, just upstream from bridge on Theodore Fremd Avenue, 0.25 mi (0.40 km) southwest of Penn Central Transportation Co. railroad station, and 0.85 mi (1.37 km) upstream from mean high tide in Milton Harbor. Water-quality sampling site at discharge station.

DRAINAGE AREA.--9.20 mi² (23.8 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 13.05 ft (3.978 m) above mean sea level, (levels by City of Rye).

REMARKS.--Records good. Medium and high flows affected by detention reservoir 2 mi (3 km) upstream (capacity, about 26 acre-ft (32,100 m³) at spillway level or 50 acre-ft (61,700 m³) at crest of concrete dam).

AVERAGE DISCHARGE.--32 years, 15.3 ft³/s (0.433 m³/s), 22.58 in/yr (573.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft³/s (65.7 m³/s) June 19, 1972, gage height, 12.44 ft (3.792 m), from floodmark in gage house, from rating curve extended above 800 ft³/s (22.7 m³/s) on basis of indirect measurement of peak flow; minimum, 0.12 ft³/s (0.003 m³/s) July 5, 1953, gage height, 0.80 ft (0.244 m), result of temporary regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 406 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 26	1600	464 13.1	4.53 1.381	May 2	0200	436 12.3	4.39 1.338
Feb. 2	0515	412 11.7	4.26 1.298	Aug. 10	0445	*670 19.0	*5.23 1.594
Apr. 1	1330	421 11.9	4.31 1.314				

Minimum discharge, 1.4 ft³/s (0.40 m³/s) July 27, 28, gage height, 0.98 ft (0.299 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	9.3	30	42	34	14	182	39	23	32	36	3.4
2	16	9.4	19	23	191	13	42	150	25	9.9	6.4	4.5
3	13	9.2	16	27	35	17	25	23	11	6.4	4.0	5.5
4	12	8.8	15	26	27	18	21	17	7.3	4.8	3.2	4.3
5	10	8.1	14	18	23	16	18	15	5.3	4.3	2.7	3.8
6	10	7.8	14	15	21	14	16	13	5.0	3.6	2.7	3.2
7	8.9	7.7	13	36	19	12	15	12	5.9	11	2.9	2.9
8	8.2	17	12	93	18	12	14	12	5.0	7.3	23	2.6
9	7.5	10	13	24	16	11	13	10	4.3	4.3	42	2.4
10	7.5	19	52	18	16	12	12	9.0	16	3.4	340	19
11	11	17	22	16	24	18	12	9.0	9.9	3.0	25	13
12	12	33	17	17	22	18	10	30	4.5	2.9	16	4.8
13	8.5	109	16	18	21	84	9.0	12	3.6	2.4	12	3.6
14	14	43	16	108	21	30	8.6	9.9	3.4	2.4	11	3.0
15	8.9	23	15	25	17	21	9.0	9.0	4.0	2.0	9.4	2.7
16	7.1	19	16	20	21	32	9.0	8.6	4.3	2.4	10	3.4
17	11	17	13	18	38	43	8.6	11	38	12	6.8	33
18	182	17	13	14	31	21	7.7	18	9.0	4.5	4.8	9.9
19	52	16	11	12	46	19	7.3	42	5.3	2.7	4.0	5.3
20	34	15	10	11	25	18	6.8	18	5.0	2.1	3.6	4.3
21	22	52	11	12	20	18	6.8	16	4.5	2.1	3.6	4.8
22	18	42	12	14	42	17	9.9	14	4.0	2.0	3.2	4.0
23	15	21	12	13	30	14	12	9.9	3.4	2.3	3.0	3.4
24	13	19	9.4	12	19	11	7.3	8.6	2.9	3.2	2.7	3.0
25	24	17	9.0	9.4	19	11	17	7.7	2.7	2.4	2.6	2.9
26	21	16	226	24	18	10	24	6.8	3.6	1.7	2.4	3.4
27	14	55	72	314	17	11	12	6.8	3.0	1.4	52	11
28	13	30	30	155	15	14	9.0	5.9	2.4	1.5	12	13
29	12	20	23	38	14	12	7.7	5.0	32	2.1	6.8	5.3
30	11	19	24	27	---	11	6.8	6.8	43	24	4.5	4.0
31	9.9	---	54	22	---	11	---	5.9	---	5.3	3.6	---
TOTAL	624.5	706.3	829.4	1221.4	860	583	558.5	560.9	296.3	171.4	661.9	189.4
MEAN	20.1	23.5	26.8	39.4	29.7	18.8	18.6	18.1	9.88	5.53	21.4	6.31
MAX	182	109	226	314	191	84	182	150	43	32	340	33
MIN	7.1	7.7	9.0	9.4	14	10	6.8	5.0	2.4	1.4	2.4	2.4
CFSM	2.18	2.55	2.91	4.28	3.23	2.04	2.02	1.97	1.07	.60	2.33	.69
IN.	2.52	2.86	3.35	4.94	3.48	2.36	2.26	2.27	1.20	.69	2.68	.77

CAL YR 1975	TOTAL	7815.5	MEAN	21.4	MAX	730	MIN	1.4	CFSM	2.33	IN	31.60
WTR YR 1976	TOTAL	7263.0	MEAN	19.8	MAX	340	MIN	1.4	CFSM	2.15	IN	29.36

BLIND BROOK BASIN

01300000 BLIND BROOK AT RYE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1972, 1975 to August 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL KJEL. NITROGEN IN BOT. MAT. (MG/KG)	TOTAL PHOSPHORUS IN BOT. MAT. (MG/KG)	TOTAL ARSENIC IN BOT. MAT. (UG/G)	TOTAL CADMIUM IN BOT. MAT. (UG/G)	TOTAL CHROMIUM IN BOT. MAT. (UG/G)	TOTAL COPPER IN BOT. MAT. (UG/G)	TOTAL IRON IN BOT. MAT. (UG/G)
AUG 03...	1200	4.2	8.3	520	250	2	1	12	30	7300
DATE		TOTAL LEAD IN BOT. MAT. (UG/G)	TOTAL MANGANESE IN BOT. MAT. (UG/G)	TOTAL MERCURY IN BOT. MAT. (UG/G)	TOTAL ZINC IN BOT. MAT. (UG/G)	ORGANIC CARBON IN BOT. MAT. (G/KG)	PCB IN BOT. MAT. (UG/KG)	ALDRIN IN BOT. MAT. (UG/KG)	CHLORDANE IN BOT. MAT. (UG/KG)	DDD IN BOT. MAT. (UG/KG)
AUG 03...		130	130	.0	63	6.2	150	.0	14	5.4
DATE		DDE IN BOT. MAT. (UG/KG)	DDT IN BOT. MAT. (UG/KG)	DI-AZINON IN BOT. MAT. (UG/KG)	DI-ELDRIN IN BOT. MAT. (UG/KG)	ENDRIN IN BOT. MAT. (UG/KG)	ETHION IN BOT. MAT. (UG/KG)	HEPTACHLOR IN BOT. MAT. (UG/KG)	HEPTACHLOR EPOXIDE IN BOT. MAT. (UG/KG)	LINDANE IN BOT. MAT. (UG/KG)
AUG 03...		.0	15	.0	.7	.0	.0	.0	.4	.0
DATE		MALATHION IN BOT. MAT. (UG/KG)	METHYL PARATHION IN BOT. MAT. (UG/KG)	METHYL TRIETHION IN BOT. MAT. (UG/KG)	PARATHION IN BOT. MAT. (UG/KG)	TOXAPHENE IN BOT. MAT. (UG/KG)	TRIETHION IN BOT. MAT. (UG/KG)	2,4-D IN BOT. MAT. (UG/KG)	2,4,5-T IN BOT. MAT. (UG/KG)	SILVEX IN BOT. MAT. (UG/KG)
AUG 03...		.0	.0	.0	.0	0	.0	0	0	0

BEAVER SWAMP BROOK BASIN

31

01300500 BEAVER SWAMP BROOK AT MAMARONECK, NY

LOCATION.--Lat 40°57'21", long 73°43'07", Westchester County, Hydrologic Unit 02030102, on right bank just downstream from bridge on Short Street, in Mamaroneck, 0.2 mi (0.3 km) downstream from Brentwood Brook, and 0.2 mi (0.3 km) upstream from tidal barrier in Guion Creek, Mamaroneck Harbor.

DRAINAGE AREA.--4.71 mi² (12.2 km²).

PERIOD OF RECORD.--November 1943 to current year. Prior to October 1967, published as "near Harrison."

GAGE.--Water-stage recorder and concrete control. Datum of gage is 24.99 ft (7.617 m) above mean sea level. Prior to June 8, 1946, nonrecording gage at same site and datum.

REMARKS.--Records fair. Flow affected by natural storage in swampy areas above station.

AVERAGE DISCHARGE.--32 years, 6.38 ft³/s (0.181 m³/s), 18.39 in/yr (467.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 252 ft³/s (7.14 m³/s) Sept. 26, 1975, gage height, 3.84 ft (1.170 m); no flow at times during 1944, 1953, 1959, 1964, 1965, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 86 ft³/s (2.4 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 26	1445	87 2.46	1.79 0.546	Feb. 2	0515	93 2.63	1.86 0.567
Jan. 28	0045	*114 3.23	*2.12 0.646	Aug. 10	0415	107 3.03	1.99 0.607

Minimum discharge, 0.89 ft³/s (0.025 m³/s) July 28, 29, gage height, 0.39 ft (0.119 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	4.0	7.5	19	17	6.1	43	16	8.8	16	3.8	1.9
2	8.8	4.0	6.8	12	72	4.8	26	43	11	5.4	2.7	2.4
3	7.5	3.8	6.1	13	29	7.9	14	14	3.5	3.7	1.7	2.1
4	6.4	3.8	5.1	12	17	8.3	11	7.5	2.5	3.1	1.5	1.9
5	5.7	3.3	5.1	7.9	14	7.1	10	6.1	1.9	2.6	1.2	1.8
6	5.4	2.9	5.1	6.8	12	6.4	9.2	6.8	1.6	2.1	1.2	1.6
7	4.5	3.5	4.5	16	9.7	5.7	8.4	6.8	1.8	6.0	1.3	1.6
8	4.2	12	4.3	38	9.2	5.4	7.2	4.8	1.4	4.4	16	1.4
9	4.0	6.0	5.7	15	7.9	5.1	6.4	4.0	1.5	2.8	30	1.3
10	4.0	7.9	19	8.8	7.5	6.4	5.8	3.8	13	2.1	90	9.2
11	6.4	6.8	9.7	7.5	11	8.3	5.4	3.8	21	1.7	31	6.0
12	5.1	25	6.4	7.5	11	8.3	5.1	14	5.1	1.6	8.2	2.5
13	4.0	42	5.7	8.8	9.7	32	5.1	5.7	3.3	1.5	4.2	1.8
14	5.7	21	5.7	44	9.7	17	5.1	4.0	3.2	1.4	3.5	1.5
15	4.0	14	5.4	17	7.9	11	4.3	3.5	3.6	1.4	3.1	1.4
16	3.3	12	5.7	11	8.8	16	4.3	3.8	2.6	2.2	2.8	2.7
17	5.4	10	4.8	8.8	14	20	4.3	4.0	13	4.6	3.4	16
18	51	9.2	4.5	6.4	14	12	4.0	5.7	4.4	2.2	3.1	6.2
19	25	8.3	3.8	5.4	17	10	4.0	21	3.1	1.8	2.6	3.1
20	15	7.9	4.0	5.4	12	8.8	3.8	9.2	2.7	1.4	2.2	2.4
21	10	18	4.8	5.7	9.7	8.3	3.5	7.5	2.5	1.3	2.1	2.4
22	7.9	17	4.5	5.7	17	7.1	5.0	5.4	2.2	1.5	1.9	2.0
23	6.8	9.2	4.5	8.3	15	6.4	3.5	3.8	1.9	1.8	1.8	1.8
24	6.0	7.5	4.5	5.4	10	5.7	3.1	3.3	1.9	1.9	1.7	1.7
25	9.2	7.5	3.8	4.8	9.2	5.7	7.5	3.1	1.9	1.3	1.7	1.5
26	7.9	6.1	53	12	8.3	5.4	12	2.7	2.1	1.2	1.7	1.9
27	5.7	19	45	87	7.9	5.4	5.0	2.7	1.3	1.1	26	3.8
28	5.1	15	17	85	7.1	5.7	4.0	2.5	1.3	1.0	10	3.4
29	5.1	8.8	12	32	7.1	4.8	3.5	2.3	23	1.2	3.8	2.2
30	5.1	7.5	14	17	---	5.4	3.3	2.7	25	12	2.6	1.9
31	4.8	---	24	14	---	4.5	---	2.3	---	3.3	2.1	---
TOTAL	259.0	323.0	312.0	547.2	401.7	271.0	236.8	225.8	172.1	95.6	268.9	91.4
MEAN	8.35	10.8	10.1	17.7	13.9	8.74	7.89	7.28	5.74	3.08	8.67	3.05
MAX	51	42	53	87	72	32	43	43	25	16	90	16
MIN	3.3	2.9	3.8	4.8	7.1	4.5	3.1	2.3	1.3	1.0	1.2	1.3
CFSM	1.77	2.29	2.14	3.76	2.95	1.86	1.68	1.55	1.22	.65	1.84	.65
IN.	2.05	2.55	2.46	4.32	3.17	2.14	1.87	1.78	1.36	.75	2.12	.72

CAL YR 1975 TOTAL 3452.41 MEAN 9.46 MAX 186 MIN .78 CFSM 2.01 IN 27.26
WTR YR 1976 TOTAL 3204.50 MEAN 8.76 MAX 90 MIN 1.0 CFSM 1.86 IN 25.30

MAMARONECK RIVER BASIN

01301000 MAMARONECK RIVER AT MAMARONECK, NY

LOCATION.--Lat 40°57'14", long 73°44'06", Westchester County, Hydrologic Unit 02030102, on left bank in Mamaroneck, 113 ft (34 m) downstream from bridge on Halstead Avenue, 700 ft (213 m) downstream from Sheldrake River, and 0.3 mi (0.5 km) upstream from mean high tide in Mamaroneck Harbor.

DRAINAGE AREA.--23.4 mi² (60.6 km²).

PERIOD OF RECORD.--November 1943 to July 1953, September 1954 to current year.

REVISED RECORDS.--WSP 1502: 1944(M), 1951(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 11.46 ft (3.493 m) above mean sea level. Prior to Sept. 10, 1954, water-stage recorder at same site at datum 0.41 ft (0.125 m) higher.

REMARKS.--Records fair. Storage in former water-supply reservoir on Mamaroneck River, affect unknown.

AVERAGE DISCHARGE.--30 years (1944-52, 1954-76), 33.4 ft³/s (0.946 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,700 ft³/s or 105 m³/s (revised) Sept. 26, 1975, gage height, 10.15 ft (3.094 m) from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of indirect measurement of peak flow at 10.15 ft (3.094 m); minimum, 0.06 ft³/s (0.002 m³/s) Sept. 30, 1965; minimum daily, 0.10 ft³/s (0.003 m³/s) Sept. 29, 30, 1965; minimum gage height since Sept. 9, 1954, 0.10 ft (0.030 m) July 21, 22, Aug. 18, 19, 1957, Aug. 14, 1966.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 11.5 ft (3.51 m) present datum, Sept. 21, 1938 (backwater from hurricane wave), from information by officials of village of Mamaroneck.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,570 ft³/s (44.5 m³/s) Aug. 10, gage height, 5.20 ft (1.585 m); minimum, 1.4 ft³/s (0.040 m³/s) June 13, 14, gage height, 0.25 ft (0.076 m).

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supersede figures published in Water Resources Data for New York for the years 1972, 1973, 1974, 1975.

Water year	Date	Peak discharge (ft ³ /s)	Peak discharge (m ³ /s)	Gage height (ft)	Gage height (m)
1972	June 19, 1972	3,550	101	9.71	2.960
1973	Feb. 2, 1973	2,150	60.9	6.44	1.963
1974	Sept. 3, 1974	2,840	80.4	7.98	2.432
1975	Sept. 26, 1975	3,700	105	10.15	3.094

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	36	54	112	94	42	260	66	54	93	26	10
2	61	33	51	79	462	43	126	249	98	32	10	16
3	58	30	48	85	118	44	76	126	50	21	6.9	20
4	55	29	46	77	95	47	62	95	35	20	6.9	11
5	52	20	43	66	85	43	58	48	25	16	5.8	9.3
6	48	14	42	58	76	39	59	44	23	15	5.8	8.0
7	28	15	41	85	65	37	56	42	27	26	6.9	7.4
8	13	28	39	191	62	34	54	41	23	19	54	6.9
9	23	19	39	76	58	33	51	37	18	12	82	6.3
10	26	41	65	63	54	34	48	32	38	10	542	24
11	30	54	51	62	58	39	45	24	11	8.0	83	29
12	27	77	47	61	66	42	40	73	2.8	8.0	71	12
13	26	201	44	63	76	95	34	34	1.7	6.9	64	10
14	27	110	43	198	71	72	44	28	1.7	6.3	55	6.9
15	26	69	42	76	62	63	44	27	5.4	5.8	38	6.3
16	30	59	44	65	59	94	25	28	61	6.3	30	11
17	34	56	42	62	69	101	24	30	124	36	19	96
18	277	54	37	58	71	68	22	29	66	14	16	38
19	140	52	31	54	82	62	22	76	23	8.7	14	22
20	90	50	29	47	74	55	20	38	21	6.9	12	19
21	63	94	29	44	63	55	19	35	19	5.8	10	13
22	59	99	29	48	74	51	21	31	14	8.0	9.3	10
23	38	59	29	103	76	50	22	23	12	8.7	9.3	8.0
24	50	55	28	35	72	47	19	21	11	14	9.3	6.9
25	71	54	26	33	65	46	38	20	11	8.7	8.0	6.9
26	63	51	380	48	59	43	59	22	11	7.4	8.0	7.4
27	58	94	178	499	51	41	36	19	8.7	6.9	73	23
28	55	72	95	358	44	39	29	17	7.4	5.4	65	31
29	51	56	76	128	41	37	22	20	82	6.9	47	12
30	47	54	80	89	---	38	22	31	117	52	29	9.3
31	41	---	136	71	---	39	---	29	---	18	12	---
TOTAL	1730	1735	1964	3094	2402	1573	1457	1435	1001.7	512.7	1428.2	496.6
MEAN	55.8	57.8	63.4	99.8	82.8	50.7	48.6	46.3	33.4	16.5	46.1	16.6
MAX	277	201	380	499	462	101	260	249	124	93	542	96
MIN	13	14	26	33	41	33	19	17	1.7	5.4	5.8	6.3

CAL YR 1975 TOTAL 20280.6 MEAN 55.6 MAX 1990 MIN 3.1
WTR YR 1976 TOTAL 18829.2 MEAN 51.4 MAX 542 MIN 1.7

HUTCHINSON RIVER BASIN

33

01301500 HUTCHINSON RIVER AT PELHAM, NY

LOCATION.--Lat 40°54'41", long 73°48'55", Westchester County, Hydrologic Unit 02030102, on right bank in Pelham, just upstream from Penn Central Transportation Company bridge, 100 ft (30 m) downstream from Pelham Lake, and 1.5 mi (2.4 km) west of New Rochelle.

DRAINAGE AREA.--5.76 mi² (14.9 km²).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 12.92 ft (3.938 m) above mean sea level (levels by county of Westchester).

REMARKS.--Records fair. Flow controlled by Pelham Lake and three reservoirs above station.

AVERAGE DISCHARGE.--32 years (1944-76), 6.86 ft³/s (0.194 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 526 ft³/s (14.9 m³/s) Aug. 28, 1971, gage height, 5.18 ft (1.579 m) from rating curve extended above 200 ft³/s (5.66 m³/s); minimum, 0.01 ft³/s (<0.001 m³/s) July 27, 1957; minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 2-6, 1955, July 26, 27, 1957, Oct. 26-30; 1964; minimum gage height, 1.86 ft (0.567 m) Aug. 2, 5, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 229 ft³/s (6.485 m³/s) Aug. 10, gage height, 4.28 ft (1.305 m); minimum, 0.86 ft³/s (0.024 m³/s) Sept. 10, gage height, 2.20 ft (0.671 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	3.1	7.6	22	16	6.6	65	19	11	26	5.9	3.4
2	7.4	2.9	7.3	13	78	6.6	42	73	9.1	12	4.3	4.9
3	6.0	2.9	5.9	13	30	8.3	20	26	12	6.6	3.4	3.1
4	5.1	2.7	5.6	11	16	10	13	13	8.3	5.2	2.4	2.7
5	4.2	2.9	5.2	8.3	12	8.7	9.1	8.0	6.6	4.6	1.6	2.2
6	3.9	2.9	4.9	6.6	11	8.0	7.6	6.2	6.9	3.7	1.3	1.9
7	4.1	3.1	4.6	18	9.1	7.3	6.6	6.6	6.9	10	1.6	1.6
8	3.6	8.7	4.9	42	8.0	6.2	5.6	5.6	5.9	3.4	2.4	2.7
9	3.3	4.9	6.9	20	8.0	5.9	5.6	5.2	2.4	2.4	2.4	1.2
10	3.2	8.7	18	10	7.6	8.3	4.3	4.9	6.2	2.2	130	15
11	5.8	8.0	12	8.0	9.5	12	4.0	5.2	5.2	2.0	33	4.3
12	3.3	14	8.0	7.6	9.1	11	3.7	16	5.6	1.7	13	5.9
13	3.0	43	6.2	9.5	8.7	39	3.4	13	3.7	1.6	7.6	4.0
14	4.5	23	5.6	41	8.0	28	2.7	8.7	3.4	1.4	6.9	3.4
15	3.7	11	5.2	19	7.6	15	2.2	6.2	3.4	1.1	4.9	3.1
16	3.5	6.6	6.2	11	8.0	20	2.2	5.9	2.9	1.7	4.0	4.3
17	5.8	7.3	5.6	8.0	12	21	2.0	6.6	12	6.6	2.9	30
18	58	7.6	5.2	5.9	14	15	2.0	8.0	4.9	1.4	2.9	23
19	42	6.2	4.9	4.9	17	10	1.9	19	5.2	1.4	2.7	10
20	21	5.9	4.6	4.6	13	8.7	2.0	12	4.3	1.3	2.4	5.6
21	11	20	4.6	4.9	9.9	9.1	1.7	10	4.0	1.3	2.2	4.9
22	6.6	21	4.9	5.2	18	8.3	3.4	7.3	3.4	1.2	2.0	4.0
23	4.9	14	5.6	4.6	15	6.9	1.9	6.2	3.1	1.3	1.9	3.4
24	4.3	8.7	4.9	4.3	11	5.9	1.9	5.6	2.7	2.2	1.6	2.9
25	15	7.3	4.6	4.0	8.7	5.6	6.6	6.2	3.1	1.1	1.4	2.4
26	14	6.2	6.9	13	8.0	5.6	12	5.9	3.1	.96	1.2	3.1
27	8.0	15	4.9	9.4	8.0	5.6	6.9	5.2	1.6	1.1	15	5.2
28	5.6	13	18	83	7.6	5.9	3.7	4.9	1.6	1.1	15	3.7
29	4.3	9.5	11	27	7.3	5.6	2.2	4.3	18	1.3	9.1	2.7
30	4.0	7.3	13	15	---	4.6	1.7	5.2	29	7.6	4.9	2.7
31	3.1	---	23	11	---	4.0	---	4.6	---	5.6	3.7	---
TOTAL	280.9	297.4	342.0	549.4	396.1	322.7	246.9	333.5	195.5	121.06	336.8	167.3
MEAN	9.06	9.91	11.0	17.7	13.7	10.4	8.23	10.8	6.52	3.91	10.9	5.58
MAX	58	43	69	94	78	39	65	73	29	26	130	30
MIN	3.0	2.7	4.6	4.0	7.3	4.0	1.7	4.3	1.6	.96	1.2	1.2

CAL YR 1975 TOTAL 3969.40 MEAN 10.9 MAX 206 MIN 1.1
WTR YR 1976 TOTAL 3589.56 MEAN 9.81 MAX 130 MIN .96

01302000 BRONX RIVER AT BRONXVILLE, NY

LOCATION.--Lat 40°56'09", long 73°50'10", Westchester County, Hydrologic Unit 02030102, on right bank in Bronxville, just upstream from Penn Central Transportation Company bridge, and 800 ft (244 m) downstream from Grassy Sprain Brook. Water-quality sampling site at discharge station.

DRAINAGE AREA.--26.5 mi² (68.6 km²), not including 18.1 mi² (46.9 km²), from which the entire flow is diverted for municipal water supply and drainage purposes.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1382: Drainage area. WRD New York 1971: 1961-67(P), 1968(M), 1970(M). WRD NY 1972: 1969(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 73.74 ft (22.476 m) above mean sea level.

REMARKS.--Records good. Diversions from 18.1 mi² (46.9 km²) for municipal water supply and flood control use. Included in these diversions is drainage from 12.8 mi² (33.2 km²) from Kensico Reservoir for City of New York, 4.58 mi² (11.9 km²) from Grassy Sprain Reservoir for Yonkers, 0.67 mi² (1.74 km²) for White Plains, and 0.1 mi² (0.3 km²) for flood control from outflow from Grassy Sprain Reservoir.

AVERAGE DISCHARGE.--32 years (1944-76), 40.6 ft³/s (1.150 m³/s), 20.81 in/yr (528.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,500 ft³/s (70.8 m³/s) June 19, 1972, gage height, 9.63 ft (2.935 m) from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of flow through culvert computation of peak flow; minimum, 1.0 ft³/s (0.028 m³/s) Sept. 10, 1944, gage height, 0.14 ft (0.043 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 525 ft³/s (15 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0415	728 20.6	3.91 1.192	May 1	2215	986 27.9	5.31 1.618
Nov. 12	2330	598 16.9	3.39 1.033	June 17	0700	582 16.5	3.69 1.125
Dec. 26	1245	850 24.1	4.40 1.341	July 30	0030	536 15.2	3.49 1.064
Jan. 27	0100	712 20.2	3.85 1.173	Aug. 10	0230	*1,400 39.6	*6.76 2.060
Feb. 2	0430	850 24.1	4.40 1.341	Aug. 27	1100	555 15.7	3.57 1.088
Apr. 1	1100	873 24.7	4.88 1.487				

Minimum discharge, 7.4 ft³/s (0.21 m³/s) Aug. 7, gage height, 0.38 ft (0.116 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	36	52	96	119	43	391	176	103	79	29	15
2	67	36	47	61	377	41	107	251	63	27	15	20
3	56	35	44	74	96	53	74	55	27	21	13	20
4	52	34	40	64	82	49	64	44	22	19	12	15
5	48	32	39	49	71	41	57	39	21	18	12	15
6	45	31	40	44	65	37	53	37	23	16	13	13
7	41	32	38	127	59	37	52	41	26	45	12	13
8	38	48	36	206	54	37	48	38	21	40	108	13
9	36	33	41	64	52	37	44	30	19	19	72	12
10	34	55	116	52	50	44	41	29	26	18	610	82
11	49	41	48	49	60	55	41	30	23	17	64	38
12	42	96	40	51	56	48	38	95	17	17	38	16
13	32	225	37	60	54	149	37	33	16	16	31	15
14	42	81	38	249	53	59	37	29	22	15	34	15
15	31	53	38	67	49	48	37	28	18	15	26	15
16	29	46	39	57	52	81	36	28	17	18	51	21
17	35	42	33	53	68	79	35	29	220	75	25	206
18	420	41	33	44	71	50	33	36	30	23	21	36
19	154	39	30	40	85	48	32	100	22	16	19	22
20	90	37	31	41	58	48	32	37	21	15	18	20
21	72	151	31	42	51	49	30	40	20	15	18	24
22	57	87	34	42	98	44	37	32	18	15	16	18
23	51	51	33	41	64	40	33	26	17	16	16	15
24	48	46	30	38	52	39	29	25	16	24	15	15
25	106	42	28	36	50	38	55	24	22	13	15	15
26	60	48	395	96	45	38	75	25	19	12	15	22
27	47	108	137	594	43	39	36	22	15	12	189	51
28	45	60	76	294	42	44	31	21	14	12	33	38
29	42	46	62	120	42	36	29	21	147	16	21	18
30	41	44	76	96	---	35	28	26	120	139	17	18
31	37	---	129	81	---	35	---	23	---	19	15	---
TOTAL	2023	1756	1891	3028	2118	1521	1672	1470	1165	822	1593	856
MEAN	65.3	58.5	61.0	97.7	73.0	49.1	55.7	47.4	38.8	26.5	51.4	28.5
MAX	420	225	395	594	377	149	391	251	220	139	610	206
MIN	29	31	28	36	42	35	28	21	14	12	12	12
CFSM	2.46	2.21	2.30	3.69	2.75	1.85	2.10	1.79	1.46	1.00	1.94	1.08
IN.	2.84	2.46	2.65	4.25	2.97	2.14	2.35	2.06	1.64	1.15	2.24	1.20

CAL YR 1975 TOTAL 20934.0 MEAN 57.4 MAX 968 MIN 9.0 CFSM 2.17 IN 29.39
WTR YR 1976 TOTAL 19915.0 MEAN 54.4 MAX 610 MIN 12 CFSM 2.05 IN 27.96

BRONX RIVER BASIN

01302000 BRONX RIVER AT BRONXVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-72, and August 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL KJEL. NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)
AUG 03...	1615	13	11	270	190	2	1	10	25	5700

DATE	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)
AUG 03...	270	110	.0	53	2.7	76	.0	13	5.3

DATE	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)
AUG 03...	.0	4.2	.0	1.0	.0	.0	.0	.3	.0

DATE	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)
AUG 03...	.0	.0	.0	.0	0	.0	0	0	0

HUDSON RIVER BASIN

01312000 HUDSON RIVER NEAR NEWCOMB, NY

LOCATION.--Lat 43°58'00", long 74°07'55", Essex County, Hydrologic Unit 02020001, on right bank 30 ft (9 m) downstream from bridge on State Highway 28N, 0.5 mi (0.8 km) downstream from outlet of Harris Lake, 2 mi (3 km) east of Newcomb, and 4 mi (6 km) upstream from Wolf Creek.

DRAINAGE AREA.--192 mi² (497 km²).

PERIOD OF RECORD.--September 1925 to current year.

REVISED RECORDS.--WSP 696: 1928(M). WSP 711: 1930(m).

GAGE.--Water-stage recorder. Datum of gage is 1,550.38 ft (472.556 m) above mean sea level. Prior to Aug. 6, 1931, nonrecording gage at site 125 ft (38 m) downstream at same datum. Aug. 6, 1931, to Nov. 4, 1960, water-stage recorder on left bank at same site and datum.

REMARKS.--Records fair. Flow slightly regulated by small reservoirs above station.

AVERAGE DISCHARGE.--51 years, 392 ft³/s (11.10 m³/s), 27.73 in/yr (704.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,440 ft³/s (211 m³/s) Jan. 1, 1949, gage height, 11.40 ft (3.475 m); minimum, 11 ft³/s (0.31 m³/s) Sept. 3, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (71 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 2	2100	*4,330 123	*8.38 2.554	Apr. 18	2300	3,210 90.9	6.93 2.112

Minimum discharge, 122 ft³/s (3.46 m³/s) part of each day Jan. 22-26, gage height, 1.45 ft (0.442 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	620	240	361	156	559	534	2400	885	529	628	239	191
2	450	227	472	150	485	511	3970	1080	565	782	240	222
3	400	227	480	150	406	472	3770	1480	491	738	227	227
4	420	260	424	148	355	442	2570	1300	407	660	212	205
5	320	299	373	146	310	464	1780	998	343	580	197	191
6	310	296	381	142	273	724	1410	806	292	472	189	182
7	230	268	369	137	246	1080	1250	953	267	380	188	169
8	170	251	365	136	229	1040	1140	1480	249	357	203	156
9	180	254	349	132	215	820	1010	1420	222	485	267	144
10	180	268	359	128	200	643	895	1040	199	468	543	148
11	180	670	398	126	187	538	909	828	182	381	903	220
12	190	901	367	130	178	451	865	1100	179	365	797	274
13	220	833	330	127	170	407	755	1410	173	345	669	248
14	340	1030	301	132	162	366	721	1150	165	313	891	210
15	420	953	296	132	157	330	861	1070	169	294	952	180
16	440	744	378	131	161	306	1340	1090	168	301	1270	170
17	406	606	399	131	171	296	2080	908	179	404	1310	160
18	460	526	379	129	187	274	2980	822	180	439	976	200
19	819	528	313	128	206	257	3170	830	168	377	717	250
20	1330	529	263	129	222	260	2890	938	159	319	551	220
21	1670	541	251	127	230	369	2440	1140	176	294	433	190
22	1380	947	243	124	263	871	1930	1530	227	283	354	180
23	1010	1070	228	123	383	1410	1790	1770	314	260	290	190
24	755	813	205	123	633	1380	1530	1660	350	276	242	220
25	602	628	188	123	677	1170	1110	1430	556	295	213	217
26	514	516	192	135	610	1070	976	1210	1370	275	184	213
27	440	448	192	212	544	1150	949	1050	1320	251	205	472
28	383	412	189	571	550	1700	906	905	933	247	357	1010
29	340	361	179	945	562	2320	932	749	676	233	333	809
30	302	328	167	864	---	2170	934	619	563	234	271	585
31	268	---	163	682	---	1910	---	530	---	234	220	---
TOTAL	15749	15974	9554	6749	9531	25735	50263	34181	11771	11970	14643	8053
MEAN	508	532	308	218	329	830	1675	1103	392	386	472	268
MAX	1670	1070	480	945	677	2320	3970	1770	1370	782	1310	1010
MIN	170	227	163	123	157	257	721	530	159	233	184	144
CFSM	2.65	2.77	1.60	1.14	1.71	4.32	8.72	5.74	2.04	2.01	2.46	1.40
IN.	3.05	3.09	1.85	1.31	1.85	4.99	9.74	6.62	2.28	2.32	2.84	1.56

CAL YR 1975 TOTAL 155914 MEAN 427 MAX 2350 MIN 47 CFSM 2.22 IN 30.21
WTR YR 1976 TOTAL 214173 MEAN 585 MAX 3970 MIN 123 CFSM 3.05 IN 41.50

HUDSON RIVER BASIN

37

01314500 INDIAN LAKE NEAR INDIAN LAKE, NY

LOCATION.--Lat 43°45'20", long 74°16'35", Hamilton County, Hydrologic Unit 02020001, at Indian Lake Dam on Indian River, and 2.0 mi (3.2 km) south of village of Indian Lake.

DRAINAGE AREA.--131 mi² (339 km²).

PERIOD OF RECORD.--July 1900 to current year. Prior to October 1956, published as "Indian Lake Reservoir near Indian Lake."

GAGE.--Nonrecording gage read once daily. Datum of gage is at mean sea level.

REMARKS.--Reservoir is formed by masonry dam, completed in 1898. Usable capacity, about 4,500 mil ft³ (127 hm³) at elevation, 1,651.29 ft (503.313 m) (crest of spillway). Sills of double sluice gates at lowest outlet at elevation 1,615.50 ft (492.404 m). Dead storage unknown. Water is used for power development, for improvement of navigation in lower Hudson River, and to compensate for flow diverted from Hudson River at Glens Falls into Champlain (Barge) Canal.

COOPERATION.--Gage-height record furnished by Indian River Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 1,656.71 ft (504.965 m) Mar. 28, 1913, contents, 5,781 mil ft³ (164 hm³); minimum, 1,616.81 ft (492.804 m), estimated, Feb. 13, 1948, contents, 199 mil ft³ (5.64 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 1,652.81 ft (503.776 m) May 25, contents, 4,970 mil ft³ (141 hm³); minimum observed, 1,636.41 ft (498.778 m) Mar. 20, 21, contents 2,173 mil ft³ (61.5 hm³).

Capacity table, current water year
(elevation, in feet and capacity, in billions of cubic feet)

1,635.0	1.958	1,643.0	3.221
1,636.0	2.110	1,648.0	4.068
1,638.0	2.417	1,653.0	5.007

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 0630

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1651.71	1649.71	1647.81	1642.91	1638.41	1638.11	1640.61	1647.61	1652.11	1651.71	1650.51	1650.31
2	1651.51	1649.61	1647.71	1642.71	1638.41	1638.11	1642.61	1647.71	1652.01	1651.71	1650.51	1650.31
3	1651.21	1649.51	1647.61	1642.51	1638.51	1638.21	1643.61	1647.91	1651.91	1651.51	1650.51	1650.31
4	1650.81	1649.61	1647.51	1642.31	1638.51	1638.11	1643.91	1648.01	1651.71	1651.41	1650.51	1650.41
5	1650.51	1649.81	1647.31	1642.11	1638.41	1638.11	1644.01	1648.01	1651.61	1651.21	1650.41	1650.31
6	1650.21	1649.71	1647.21	1641.91	1638.31	1638.21	1644.21	1647.91	1651.51	1651.01	1650.41	1650.41
7	1650.01	1649.71	1647.01	1641.61	1638.31	1638.31	1644.21	1648.11	1651.41	1651.01	1650.31	1650.41
8	1649.91	1649.71	1646.91	1641.51	1638.41	1638.41	1644.31	1648.41	1651.41	1651.01	1650.41	1650.41
9	1649.81	1649.71	1646.71	1641.31	1638.51	1638.31	1644.31	1648.71	1651.41	1651.11	1650.41	1650.41
10	1649.71	1649.61	1646.61	1641.01	1638.41	1638.21	1644.31	1648.91	1651.21	1651.11	1650.61	1650.41
11	1649.61	1649.81	1646.51	1640.71	1638.41	1638.01	1644.31	1649.21	1651.11	1651.11	1650.81	1650.51
12	1649.51	1649.91	1646.41	1640.71	1638.41	1637.91	1644.31	1649.51	1651.01	1651.31	1650.81	1650.51
13	1649.41	1649.91	1646.31	1640.51	1638.01	1637.81	1644.31	1649.81	1650.91	1651.61	1650.71	1650.61
14	1649.31	1650.01	1646.21	1640.41	1638.01	1637.61	1644.31	1650.11	1650.71	1651.61	1650.61	1650.61
15	1649.31	1649.91	1646.11	1640.31	1637.81	1637.41	1644.31	1650.31	1650.71	1651.31	1650.51	1650.61
16	1649.21	1649.81	1646.01	1640.11	1637.71	1637.31	1644.51	1650.61	1650.81	1651.31	1650.51	1650.61
17	1649.21	1649.71	1645.91	1639.91	1637.61	1637.01	1645.11	1650.81	1650.91	1651.41	1650.41	1650.71
18	1649.21	1649.51	1645.71	1639.61	1637.51	1636.81	1645.91	1651.01	1651.01	1651.51	1650.41	1650.81
19	1649.41	1649.31	1645.51	1639.51	1637.51	1636.61	1646.41	1651.11	1651.01	1651.41	1650.41	1650.91
20	1649.71	1649.11	1645.31	1639.41	1637.51	1636.41	1646.91	1651.41	1651.01	1651.31	1650.41	1650.91
21	1650.11	1649.01	1645.11	1639.21	1637.51	1636.41	1647.21	1651.71	1651.21	1651.01	1650.31	1650.91
22	1650.21	1649.11	1644.91	1639.11	1637.41	1636.81	1647.31	1652.11	1651.51	1650.81	1650.31	1651.01
23	1650.31	1649.01	1644.71	1639.01	1637.51	1637.11	1647.41	1652.41	1651.81	1650.61	1650.31	1651.01
24	1650.31	1648.91	1644.51	1638.71	1637.71	1637.31	1647.41	1652.71	1651.91	1650.51	1650.21	1651.11
25	1650.31	1648.81	1644.31	1638.41	1637.81	1637.41	1647.31	1652.81	1652.01	1650.51	1650.21	1651.11
26	1650.21	1648.71	1644.21	1638.31	1637.81	1637.51	1647.41	1652.71	1652.11	1650.51	1650.11	1651.11
27	1650.21	1648.51	1644.01	1638.41	1637.81	1637.71	1647.51	1652.61	1652.11	1650.51	1650.11	1651.31
28	1650.11	1648.31	1643.71	1638.51	1637.91	1638.41	1647.51	1652.51	1652.11	1650.51	1650.21	1651.31
29	1650.01	1648.11	1643.51	1638.61	1638.01	1639.01	1647.61	1652.41	1651.81	1650.41	1650.11	1651.31
30	1649.91	1647.91	1643.31	1638.51	---	1639.41	1647.61	1652.31	1651.71	1650.51	1650.31	1651.21
31	1649.81	---	1643.21	1638.51	---	1639.71	---	1652.11	---	1650.51	1650.31	---
MEAN	1650.03	1649.34	1645.74	1640.21	1638.01	1637.80	1645.36	1650.37	1651.46	1651.07	1650.41	1650.73
MAX	1651.71	1650.01	1647.81	1642.91	1638.51	1639.71	1647.61	1652.81	1652.11	1651.71	1650.81	1651.31
MIN	1649.21	1647.91	1643.21	1638.31	1637.41	1636.41	1640.61	1647.61	1650.71	1650.41	1650.11	1650.31
†	4.367	4.036	3.223	2.482	2.434	2.783	4.001	4.830	4.751	4.517	4.479	4.663
‡	-150	-128	-304	-277	-19.2	+130	+470	+310	-30.5	-87.4	-14.2	+59.4
CAL YR 1975	MEAN	1646.11	MAX	1652.61	MIN	1635.11	†	+7.29				
WTR YR 1976	MEAN	1646.73	MAX	1652.81	MIN	1636.41	‡	+59.4				

† Contents, in billions of cubic feet, at 2400 on last day of month, by interpolation.

‡ Change in contents, equivalent in cubic feet per second.

HUDSON RIVER BASIN

01315000 INDIAN RIVER NEAR INDIAN LAKE, NY

LOCATION.--Lat 43°45'30", long 74°16'05", Hamilton County, Hydrologic Unit 02020001, on right bank 0.8 mi (1.3 km) downstream from Indian Lake Dam, 1.0 mi (1.6 km) upstream from Big Brook, and 2.0 mi (3.2 km) south of village of Indian Lake.

DRAINAGE AREA.--132 mi² (342 km²).

PERIOD OF RECORD.--July 1912 to June 1914, June 1915 to current year. Monthly discharge only for some periods published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 1,604.23 ft (488.969 m) above mean sea level. Prior to Aug. 30, 1916, nonrecording gage at same site and datum.

REMARKS.--Records fair. Flow regulated by Indian Lake (see station 01314500).

AVERAGE DISCHARGE.--62 years (1913, 1916-76), 292 ft³/s (8.269 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,460 ft³/s (98.0 m³/s) Mar. 28, 1913, gage height, 7.8 ft (2.38 m); minimum, less than 1 ft³/s (0.028 m³/s) frequently, when entire flow of river is being stored in Indian Lake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,030 ft³/s (29.2 m³/s) Oct. 1, gage height, 4.02 ft (1.225 m); minimum, 7.6 ft³/s (0.22 m³/s) May 14, 15, 16, 17, gage height, 0.45 ft (0.137 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	976	341	702	594	480	503	718	660	634	710	168	14
2	918	340	696	591	480	637	724	636	630	703	168	14
3	895	340	693	589	480	637	733	620	607	690	168	14
4	879	343	691	586	480	635	737	603	583	675	168	14
5	872	340	689	583	480	638	728	592	560	669	168	14
6	735	340	688	580	480	641	733	444	548	444	168	14
7	347	340	686	539	480	641	727	13	545	163	169	14
8	347	340	685	401	480	641	730	11	543	165	169	13
9	346	340	682	600	480	641	732	9.1	533	165	305	14
10	345	400	684	698	480	639	734	8.9	529	165	576	15
11	345	467	680	510	470	636	730	9.1	529	165	571	15
12	345	468	660	394	466	629	731	12	530	172	569	14
13	344	568	632	393	464	625	729	8.6	530	429	571	14
14	344	710	631	393	461	625	728	8.2	368	718	568	14
15	343	713	632	391	460	622	730	8.4	173	703	573	14
16	340	712	629	583	457	619	737	7.7	175	699	522	14
17	338	710	628	676	457	615	744	7.9	176	703	193	15
18	347	710	627	489	456	611	752	46	174	703	193	16
19	347	710	625	364	457	607	732	181	175	696	193	14
20	348	707	624	287	455	605	729	191	180	692	194	14
21	345	710	621	287	455	612	734	221	182	690	194	14
22	344	709	618	370	460	617	730	318	224	688	194	14
23	344	708	617	657	460	619	717	399	483	585	181	14
24	344	706	615	648	459	622	711	514	485	167	168	14
25	345	704	612	406	460	625	711	825	560	167	168	14
26	344	703	610	290	460	628	710	769	691	167	107	15
27	344	703	607	290	463	637	685	720	520	168	14	115
28	344	702	605	290	462	652	678	693	623	167	14	427
29	343	698	603	290	463	659	674	675	730	168	14	424
30	341	696	600	420	---	666	672	663	707	168	14	423
31	340	---	596	480	---	673	---	629	---	168	14	---
TOTAL	13879	16978	19968	14669	13545	19457	21660	10502.9	13927	13532	7456	1758
MEAN	448	566	644	473	467	628	722	339	464	437	241	58.6
MAX	976	713	702	698	480	673	752	825	730	718	576	427
MIN	338	340	596	287	455	503	672	7.7	173	163	14	13

CAL YR 1975 TOTAL 112705.2 MEAN 309 MAX 1230 MIN 9.6
WTR YR 1976 TOTAL 167331.9 MEAN 457 MAX 976 MIN 7.7

HUDSON RIVER BASIN

39

01315500 HUDSON RIVER AT NORTH CREEK, NY

LOCATION.--Lat 43°42'03", long 73°59'02", Warren County, Hydrologic Unit 02020001, on left bank 125 ft (38 m) upstream from bridge on State Highway 28N in village of North Creek, 500 ft (152 m) upstream from North Creek, and 26 mi (42 km) downstream from Indian Lake.

DRAINAGE AREA.--792 mi² (2,051 km²).

PERIOD OF RECORD.--September 1907 to current year.

REVISED RECORDS.--WSP 621: Drainage area. WSP 1432: 1908-18, 1920, 1922.

GAGE.--Water-stage recorder. Datum of gage is 987.51 ft (300.993 m) above mean sea level. Prior to Oct. 15, 1930, nonrecording gages at sites 80 ft (24 m) and 125 ft (38 m) downstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. Appreciable regulation by Indian Lake (see station 01314500) and other reservoirs above station.

AVERAGE DISCHARGE.--69 years, 1,546 ft³/s (43.78 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,900 ft³/s (818 m³/s) Dec. 31, 1948, gage height, 12.14 ft (3.700 m); minimum, 112 ft³/s (3.17 m³/s) July 26, 1934, gage height, 1.96 ft (0.597 m); minimum daily, 114 ft³/s (3.23 m³/s) July 26, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,800 ft³/s (561 m³/s) Apr. 1, gage height, 10.54 ft (3.213 m); minimum, 371 ft³/s (10.51 m³/s) Sept. 10, gage height, 2.64 ft (0.805 m); minimum daily, 397 ft³/s (11.24 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2840	1150	2530	1280	3500	2900	14400	3590	2520	3020	994	560
2	2420	1090	3100	1210	3000	2900	17400	4190	2560	3280	1030	733
3	2110	1060	2850	1230	2600	2800	12200	4670	2280	2760	889	722
4	2160	1530	2490	1230	2300	2600	8250	4370	1970	2520	762	615
5	1790	2070	2280	1190	2000	2900	6180	3710	1730	2260	673	556
6	1680	1850	2110	1160	1700	4290	5300	3160	1460	1890	625	513
7	1060	1620	2260	1180	1500	4420	4890	2760	1740	1290	630	469
8	872	1480	2290	1080	1400	3960	4580	3240	1850	1200	763	430
9	891	1490	2060	914	1300	3320	4150	3360	1670	1300	1130	397
10	898	1620	2390	1270	1200	2860	3870	2810	1550	1370	2850	409
11	883	3140	2620	1220	1200	2550	4000	2370	1350	1290	3310	708
12	924	3400	2360	921	1100	2300	3770	3460	1420	1360	2620	808
13	1010	3550	2050	951	1100	2110	3450	3880	1320	1890	2200	720
14	1250	4200	1880	955	1000	1970	3440	3320	1210	2200	2730	615
15	1450	4030	1990	948	1000	1900	3960	2960	918	1670	2760	553
16	1480	3340	2410	1000	1000	1810	5360	2820	912	1760	3070	509
17	1430	2890	2330	1430	1100	1750	7360	2500	1040	2960	2660	511
18	2120	2680	2160	1270	1100	1680	9110	2250	1260	2590	2150	702
19	3330	2610	1760	823	1100	1650	9210	2770	1110	2100	1770	794
20	5210	2520	1550	863	1300	1830	8100	3540	998	1770	1370	704
21	5000	2700	1580	797	1300	3180	6670	4850	1290	1540	1080	618
22	4060	3790	1600	765	1600	5260	5500	5840	1850	1590	950	570
23	2980	3800	1550	1300	2000	5420	5140	6240	2490	1480	839	615
24	2630	3200	1460	1300	2600	4850	4520	5870	2270	1090	728	695
25	2170	2760	1390	1000	3300	4560	3880	5320	3180	941	646	653
26	1670	2400	1460	1600	3600	4740	3870	4470	5190	877	590	636
27	1690	2240	1480	2100	3500	5500	3740	3860	3990	823	818	1260
28	1510	2200	1430	3000	3100	9360	3840	3310	3340	831	1320	2500
29	1390	2050	1360	4600	3000	8690	3990	2880	2750	816	1070	2400
30	1300	1890	1370	4600	---	7470	3860	2580	2280	939	829	1940
31	1240	---	1360	4100	---	7110	---	2270	---	1010	656	---
TOTAL	61448	74350	61510	47287	55500	118640	183990	113220	59498	52417	44512	23915
MEAN	1982	2478	1984	1525	1914	3827	6133	3652	1983	1691	1436	797
MAX	5210	4200	3100	4600	3600	9360	17400	6240	5190	3280	3310	2500
MIN	872	1060	1360	765	1000	1650	3440	2250	912	816	590	397
CAL YR 1975	TOTAL	625098	MEAN	1713	MAX	8190	MIN	163				
WTR YR 1976	TOTAL	896287	MEAN	2449	MAX	17400	MIN	397				

HUDSON RIVER BASIN

01318500 HUDSON RIVER AT HADLEY, NY

LOCATION.--Lat 43°19'08", long 73°50'41", Saratoga County, Hydrologic Unit 02020001, on right bank at Hadley, 400 ft (122 m) downstream from outlet of Lake Luzerne, and 0.3 mi (0.5 km) upstream from Sacandaga River.

DRAINAGE AREA.--1,664 mi² (4,310 km²).

PERIOD OF RECORD.--July 1921 to current year.

REVISED RECORDS.--WSP 561: 1921-22. WSP 756: drainage area. WSP 1432: 1931 (m).

GAGE.--Water-stage recorder. Datum of gage is 563.99 ft (171.904 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair. Some diurnal fluctuation caused by power-plant on Schroon River. Flow regulated by Indian Lake (see station 01314500) and other reservoirs above station.

AVERAGE DISCHARGE.--55 years, 2,884 ft³/s (81.67 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft³/s (1,210 m³/s) Jan. 1, 1949, gage height, 21.21 ft (6.465 m); minimum, 281 ft³/s (7.96 m³/s) Sept. 3, 1934, gage height, 0.94 ft (0.287 m); minimum daily, 292 ft³/s (8.27 m³/s) July 24, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge above base of 15,000 ft³/s (420 m³/s), 33,400 ft³/s (946 m³/s) Apr. 2, gage height, 17.49 ft (5.331 m); minimum, 1,060 ft³/s (30.0 m³/s) Jan. 24, Sept. 10, gage height, 2.48 ft (0.756 m) minimum daily, 1,090 ft³/s (30.9 m³/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4980	2640	4640	2380	4880	6210	23200	6480	4500	4640	2090	1570
2	4400	2500	5800	2210	5170	5820	31200	7950	4750	5070	2210	1590
3	3740	2360	5470	2140	4700	5350	25400	8280	4290	4650	2110	1730
4	3720	2510	4910	2160	4530	5520	19800	8220	3860	4190	1920	1590
5	3190	3330	4330	1930	4230	6000	15900	7300	3440	3870	1760	1460
6	2930	3290	4190	1910	3830	7850	13600	6470	3050	3480	1640	1370
7	2550	2970	4150	1970	3610	8210	12200	6010	3330	2820	1600	1280
8	1960	2780	4040	1990	3390	7540	11100	6250	3750	2450	1780	1190
9	1870	2770	3870	1880	3210	6470	10100	6460	3390	2400	1840	1130
10	1790	2810	4360	1570	3060	5900	9110	5930	3530	2400	3310	1090
11	1790	4240	4990	1830	2960	5500	8750	5210	3010	2390	4850	1250
12	1790	5230	4610	1730	2890	4890	8240	6640	2900	3450	4310	1530
13	1880	5710	4140	1680	2750	4660	7530	7350	2760	3270	3500	1500
14	2060	6740	3740	1620	2710	4420	7090	6860	2510	3410	3780	1370
15	2320	7060	3730	1830	2580	4250	7200	6400	2380	3090	4070	1250
16	2440	6310	4150	1630	2510	3920	8230	5940	2180	2690	4530	1180
17	2350	5630	4140	1660	2580	3330	10200	5570	2220	4090	4420	1170
18	3570	5230	3940	1890	2730	3600	12000	5290	2440	4160	3620	1390
19	5440	4990	3550	1740	3230	3610	12900	6150	2220	3600	3190	1560
20	8980	4800	2420	1460	3750	3750	12100	8070	2030	3050	2690	1500
21	8880	5000	2210	1510	3610	5300	10800	9130	2530	2710	2280	1370
22	7540	6750	2840	1560	4210	8990	9290	9980	2870	2620	2020	1260
23	6340	7060	2840	1420	5490	9200	8690	10400	3450	2530	1840	1200
24	5120	6320	2380	1230	5320	9130	7940	9920	3690	2510	1680	1260
25	5100	5680	2110	1780	5230	9320	7110	9220	3580	2060	1530	1270
26	4050	5120	2340	1800	5160	9530	7640	8230	6480	1880	1410	1240
27	3900	4740	2500	2530	5600	10600	7680	7340	5950	1740	1360	1760
28	3570	4640	2640	4690	6460	17300	7120	6430	5060	1740	2220	2880
29	3280	4420	2450	5450	6070	16400	7250	5590	4540	1690	2420	3330
30	3030	4110	2330	5760	---	15000	6920	5070	3850	1840	2050	2860
31	2840	---	2360	5260	---	14600	---	4600	---	1970	1770	---
TOTAL	117400	137740	112170	70200	116450	232170	346290	218740	104540	92460	79800	46130
MEAN	3787	4591	3618	2265	4016	7489	11540	7056	3485	2983	2574	1538
MAX	8980	7060	5800	5760	6460	17300	31200	10400	6480	5070	4850	3330
MIN	1790	2360	2110	1230	2510	3330	6920	4600	2030	1690	1360	1090
CAL YR 1975	TOTAL	1195669	MEAN	3276	MAX	14200	MIN	341				
WTR YR 1976	TOTAL	1674090	MEAN	4574	MAX	31200	MIN	1090				

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, NY

LOCATION.--Lat 43°28'25", long 74°13'25", Hamilton County, Hydrologic Unit 02020002, on left bank 300 ft (91 m) upstream from bridge on jeep trail, 0.3 mi (0.5 km) from State Highway 8, at Griffin, 2.0 mi (3.2 km) downstream from Georgia Creek, 3 mi (5 km) upstream from mouth, and 7 mi (11 km) upstream from Wells.

DRAINAGE AREA.--114 mi² (295 km²).

PERIOD OF RECORD.--August 1933 to current year.

REVISED RECORDS.--WSP 1111: 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 1,254.32 ft (382.317 m) above mean sea level. Prior to June 19, 1959, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--43 years, 214 ft³/s (6.060 m³/s), 25.49 in/yr (647.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s (303 m³/s) Dec. 31, 1948, gage height, 14.35 ft (4.374 m), from floodmarks, from rating curve extended above 4,400 ft³/s (125 m³/s) on basis of slope-area and contracted-opening measurements of peak flow; minimum observed, 2.4 ft³/s (0.068 m³/s) Sept. 20, 1939, gage height, 0.30 ft (0.091 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,700 ft³/s (76 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 28	0630	3,250 92.0	8.54 2.603	Apr. 1	1730	*7,300 207	*12.02 3.664

Minimum discharge, 29 ft³/s (0.821 m³/s) Sept. 10, gage height, 1.33 ft (0.405 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	112	333	94	300	585	4820	424	525	547	191	52
2	178	109	381	90	280	491	3320	855	440	363	180	82
3	165	109	349	86	250	414	1410	705	313	296	132	67
4	138	257	247	84	230	377	904	588	244	246	106	55
5	122	309	204	80	210	539	745	449	196	187	89	51
6	115	237	228	78	190	979	721	361	164	145	78	46
7	97	198	200	76	170	711	717	435	765	123	79	39
8	89	214	190	76	160	495	659	522	611	167	138	36
9	83	245	180	74	140	368	540	413	384	184	134	32
10	78	271	230	72	130	317	516	334	361	131	327	50
11	76	633	320	70	120	274	625	325	250	164	410	175
12	112	443	270	70	120	233	498	1500	242	1080	265	107
13	128	545	240	70	110	215	426	833	189	489	236	77
14	166	597	230	72	110	203	498	547	164	303	240	58
15	158	469	250	84	100	185	698	498	254	216	232	48
16	145	361	230	80	100	176	1160	386	202	272	457	45
17	128	298	190	76	110	174	1410	327	269	625	339	62
18	523	274	150	72	130	163	1250	299	222	366	224	124
19	835	257	140	68	190	147	895	368	169	248	159	138
20	1470	228	140	64	280	199	638	615	165	175	123	103
21	833	484	130	60	260	692	463	945	320	141	100	88
22	524	874	130	56	360	1410	389	1110	547	127	83	79
23	360	558	140	52	800	933	405	1090	440	110	69	72
24	274	399	150	50	637	652	332	895	303	294	59	66
25	231	307	160	46	476	692	329	618	534	215	52	57
26	215	251	140	44	401	877	591	531	513	147	45	58
27	186	232	120	450	517	1250	534	504	346	117	43	429
28	162	232	110	900	686	2840	547	386	240	119	90	341
29	147	194	110	600	536	1450	582	299	184	110	103	226
30	133	185	100	450	---	1180	516	246	184	242	73	167
31	120	---	98	350	---	1270	---	220	---	211	55	---
TOTAL	8185	9882	6090	4594	8103	20491	27138	17628	9740	8160	4911	3030
MEAN	264	329	196	148	279	661	905	569	325	263	158	101
MAX	1470	874	381	900	800	2840	4820	1500	765	1080	457	429
MIN	76	109	98	44	100	147	329	220	164	110	43	32
CFSM	2.32	2.89	1.72	1.30	2.45	5.80	7.94	4.99	2.85	2.31	1.39	.89
IN.	2.67	3.22	1.99	1.50	2.64	6.69	8.86	5.75	3.18	2.66	1.60	.99

CAL YR 1975	TOTAL	90019.9	MEAN 247	MAX 2000	MIN	7.4	CFSM 2.17	IN 29.37
WTR YR 1976	TOTAL	127952.0	MEAN 350	MAX 4820	MIN	32	CFSM 3.07	IN 41.75

HUDSON RIVER BASIN

01321000 SACANDAGA RIVER NEAR HOPE, NY

LOCATION.--Lat 43°21'10", long 74°16'15", Hamilton County, Hydrologic Unit 02020002, on left bank 1.5 mi (2.4 km) downstream from West Branch Sacandaga River, on State Highway 30, and 4.5 mi (7.2 km) upstream from Hope.

DRAINAGE AREA.--491 mi² (1,272 km²).

PERIOD OF RECORD.--September 1911 to current year.

GAGE.--Water-stage recorder. Datum of gage is 881.31 ft (268.623 m) above mean sea level. Prior to July 24, 1929, nonrecording gage at site 300 ft (91 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Some seasonal regulation at Piseco Lake Outlet and, since 1959, intermittent regulation by Lake Algonquin at Wells 4 mi (6 km) upstream. Infrequent minor fluctuations by mill upstream.

AVERAGE DISCHARGE.--65 years, 1097 ft³/s (31.07 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s (906 m³/s) Mar. 27, 1913, gage height, 11.0 ft (3.35 m), from floodmarks at site then in use; minimum, about 16 ft³/s (0.45 m³/s) Sept. 30, 1913, gage height, 1.17 ft (0.357 m); minimum daily, 18 ft³/s (0.51 m³/s) Sept. 20, 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 9,100 ft³/s (260 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 28	0600	10,500 297	6.94 2.115	Apr. 1	1400	*23,400 663	*9.45 2.880

Minimum discharge, 183 ft³/s (5.18 m³/s) Sept. 10, gage height, 1.76 ft (0.536 m); minimum daily, 195 ft³/s (5.52 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1700	673	2040	600	1300	2820	16500	2410	1900	2720	801	264
2	1530	656	2190	580	1200	2440	12300	3400	1780	1740	787	384
3	1340	639	1810	580	1200	2260	7640	3150	1290	1700	656	343
4	1100	889	1440	560	1200	2150	5600	2910	1210	1500	564	288
5	950	1160	1260	560	1200	2670	4920	2330	1040	1270	493	269
6	860	1030	1310	560	1200	3720	4420	2080	1820	1060	391	251
7	754	939	1480	560	1100	3020	4350	2190	1530	843	452	228
8	682	981	1220	560	1100	2420	4090	2430	2410	986	727	211
9	631	1200	1200	560	1000	2010	3520	2070	1870	1330	890	195
10	533	1390	1850	560	1000	1880	3330	1810	1620	1060	1800	241
11	533	2310	2070	560	929	1750	3560	1630	1400	931	1820	548
12	614	1930	1610	560	879	1590	3150	4060	1270	3770	1420	445
13	665	2280	1410	560	830	1420	2800	2940	1100	2260	1350	356
14	782	2510	1280	580	801	1180	2820	2270	899	1880	1420	299
15	782	2180	1430	700	763	1140	3310	2800	1220	1540	1300	260
16	772	1870	1870	640	782	1050	4510	2340	1160	1380	1690	238
17	726	1670	1400	600	879	1050	5100	2030	1480	2370	1440	311
18	1900	1440	1000	560	1060	1000	5080	1800	1330	1760	1150	517
19	2740	1400	820	560	1670	981	4430	2070	1090	1500	868	520
20	4430	1290	780	560	2050	1080	3810	3060	1060	1290	772	447
21	3100	2110	800	560	1780	2660	3100	3710	1570	972	674	394
22	2240	3500	800	560	2600	4700	2830	4030	2250	900	575	368
23	1880	2530	740	560	3420	3570	2800	3760	2450	836	494	344
24	1600	1850	680	560	2720	3020	2440	3360	1700	1160	438	326
25	1390	1700	680	560	2260	3330	2450	2700	2380	931	390	290
26	1260	1510	680	580	2010	3950	3880	2380	2220	787	352	286
27	1100	1410	680	5000	2500	4810	3570	2260	1780	699	331	1400
28	860	1400	680	2000	2940	9000	3240	1780	1400	675	328	1280
29	850	1220	660	1700	2500	5830	2990	1540	1150	621	367	964
30	801	1180	640	1600	---	5250	2710	1350	1160	864	319	769
31	726	---	620	1400	---	5390	---	1090	---	872	273	---
TOTAL	39831	46847	37130	26640	44873	89141	135250	77740	46539	42207	25332	13036
MEAN	1285	1562	1198	859	1547	2876	4508	2508	1551	1362	817	435
MAX	4430	3500	2190	5000	3420	9000	16500	4060	2450	3770	1820	1400
MIN	533	639	620	560	763	981	2440	1090	899	621	273	195

CAL YR 1975 TOTAL 460820 MEAN 1263 MAX 7170 MIN 64
WTR YR 1976 TOTAL 624566 MEAN 1706 MAX 16500 MIN 195

01323500 GREAT SACANDAGA LAKE AT CONKLINGVILLE, NY

LOCATION.--Lat 43°18'57", long 73°55'39", Saratoga County, Hydrologic Unit 02020002, 800 ft (244 m) upstream from right end of Conklingville Dam on Sacandaga River at Conklingville.

DRAINAGE AREA.--1,044 mi² (2,704 km²).

PERIOD OF RECORD.--January 1930 to current year. Prior to October 1969, published as "Sacandaga Reservoir at Conklingville."

GAGE.--Water-stage recorder. Datum of gage is at mean sea level, adjustment of 1912. Prior to Apr. 23, 1930, nonrecording gage at same datum in outlet channel 800 ft (244 m) downstream.

REMARKS.--Reservoir is formed by earth and concrete dam; storage began in March 1930; dam completed in 1930. Usable capacity for stream regulation, 29,670 mil ft³ (840.3 hm³) between elevations 735.0 ft (224.03 m) and 768.0 ft (234.09 m). Between elevations 768.0 ft (234.09 m) and 771.0 ft (235.00 m) (spillway crest) an additional 3,450 mil ft³ (97.7 hm³) is available exclusively for flood storage. Elevation of inverts of three Dow valves is 699.0 ft (213.06 m). Capacity of 4,600 mil ft³ (130 hm³) below elevation 735.0 ft (224.03 m) is considered dead storage, except for extraordinary emergencies or for necessary inspection of structures. Purpose of reservoir is to provide flood control and low-water stream regulation for sanitary improvement, navigation, and power, as required by the public welfare, including public health and safety. Area of water surface of reservoir filled to capacity, elevation, 771.0 ft (235.00 m), is 41.7 mi² (108 km²).

COOPERATION.--Records furnished by Board of Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 770.78 ft (234.934 m) June 26, 1972, contents, 37,470 mil ft³ (1,061 hm³); minimum since first filling, 729.55 ft (222.367 m) Mar. 30, 1940, contents, 2,100 mil ft³ (59.5 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 768.73 ft (234.309 m) May 23, contents, 35,100 mil ft³ (994.0 hm³); minimum, 746.02 ft (227.387 m) Feb. 17, 18, contents, 12,490 mil ft³ (353.7 hm³).

Capacity table, current water year
(elevation, in feet, and contents, in billions of cubic feet)

745	11.64	760	25.61
750	15.94	765	30.94
755	20.16	770	36.56

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	763.53	761.44	756.31	750.47	747.00	749.65	764.10	768.42	767.66	766.74	764.27	761.08
2	763.50	761.14	756.25	750.27	747.32	750.10	766.60	768.50	767.63	766.62	764.22	760.89
3	763.48	760.83	756.12	750.12	747.29	750.42	767.38	768.62	767.57	766.41	764.04	760.70
4	763.37	760.54	755.95	749.97	747.27	750.67	767.61	768.68	767.46	766.15	763.86	760.48
5	763.34	760.24	755.72	749.75	747.20	750.95	767.72	768.63	767.45	765.90	763.69	760.39
6	763.38	759.97	755.50	749.53	747.12	751.41	767.66	768.50	767.57	765.62	763.48	760.40
7	763.22	759.68	755.31	749.32	747.00	751.95	767.62	768.38	767.70	765.45	763.30	760.32
8	763.06	759.43	755.04	749.13	747.00	752.33	767.55	768.33	767.68	765.36	763.30	760.06
9	762.89	759.17	754.78	748.97	747.05	752.50	767.41	768.15	767.64	765.29	763.32	759.84
10	762.74	758.94	754.70	748.75	746.88	752.63	767.25	767.96	767.61	765.20	763.29	759.66
11	762.58	758.80	754.68	748.65	746.72	752.78	767.07	767.82	767.56	765.18	763.36	759.51
12	762.53	758.66	754.53	748.68	746.56	752.83	767.92	767.98	767.46	765.37	763.31	759.41
13	762.52	758.62	754.32	748.47	746.39	752.95	766.87	768.01	767.44	765.52	763.24	759.38
14	762.43	758.66	754.15	748.32	746.19	753.07	766.73	767.92	767.47	765.52	763.16	759.14
15	762.30	758.65	753.96	748.09	746.15	753.30	766.68	767.95	767.38	765.52	763.19	758.92
16	762.18	758.51	753.85	747.89	746.21	753.45	766.76	767.98	767.30	765.49	763.28	758.68
17	762.03	758.36	753.72	747.69	746.09	753.71	767.01	767.97	767.20	765.57	763.18	758.52
18	762.12	758.16	753.62	747.60	746.02	753.82	767.27	767.94	767.12	765.67	763.06	758.40
19	762.66	757.94	753.39	747.57	746.13	754.00	767.48	768.05	767.00	765.76	762.92	758.37
20	763.46	757.72	753.10	747.35	746.28	754.18	767.68	768.26	767.00	765.67	762.77	758.34
21	763.86	757.56	752.88	747.13	746.42	754.55	767.80	768.43	767.09	765.56	762.60	758.14
22	763.88	757.70	752.67	746.93	746.77	755.33	767.87	768.62	767.11	765.38	762.52	757.94
23	763.76	757.72	752.45	746.70	747.43	756.03	767.93	768.72	767.22	765.24	762.46	757.70
24	763.60	757.59	752.18	746.42	747.80	756.57	767.97	768.72	767.24	765.12	762.26	757.50
25	763.41	757.42	751.90	746.32	748.01	757.12	768.02	768.69	767.28	765.06	762.05	757.26
26	763.19	757.22	751.70	746.33	748.15	757.77	768.33	768.62	767.38	765.06	761.85	757.16
27	762.92	757.05	751.52	746.32	748.35	758.52	768.60	768.52	767.34	764.91	761.65	757.42
28	762.66	756.89	751.29	746.52	748.70	760.08	768.65	768.38	767.22	764.72	761.56	757.52
29	762.37	756.67	751.05	746.70	749.19	761.42	768.62	768.17	767.00	764.54	761.56	757.48
30	762.05	756.43	750.81	746.81	---	762.03	768.56	767.98	766.74	764.46	761.42	757.32
31	761.75	---	750.61	746.87	---	762.53	---	767.82	---	764.36	761.30	---
MEAN	762.93	758.59	753.68	748.05	747.06	754.47	767.46	768.28	767.35	765.43	762.89	758.93
MAX	763.88	761.44	756.31	750.47	749.19	762.53	768.65	768.72	767.70	766.74	764.27	761.08
MIN	761.75	756.43	750.61	746.32	746.02	749.65	764.10	767.82	766.74	764.36	761.30	757.16
†	27.27	21.96	16.39	13.18	15.47	28.56	34.82	34.00	32.75	30.12	26.81	22.80
‡	-777	-2049	-2080	-1198	+914	+4887	+2415	-306	-482	-982	-1236	-1547

CAL YR 1975 MEAN 758.09 MAX 768.90 MIN 743.08 † -124
WTR YR 1976 MEAN 759.62 MAX 768.72 MIN 746.02 ‡ -207

† Contents, in billions of cubic feet, at 2400 on last day of month.
‡ Change in contents, equivalent in cubic feet per second.

HUDSON RIVER BASIN

01325000 SACANDAGA RIVER AT STEWARTS BRIDGE, NEAR HADLEY, NY

LOCATION.--Lat 43°18'41", long 73°52'04", Saratoga County, Hydrologic Unit 02020002, on left bank 1.0 mi (1.6 km) downstream from Stewarts Bridge, 1.1 mi (1.8 km) west of Hadley, 1.4 mi (2.3 km) upstream from mouth, and 1.5 mi (2.4 km) downstream from Stewarts Bridge hydroelectric plant.

DRAINAGE AREA.--1,055 mi² (2,732 km²).

PERIOD OF RECORD.--September 1907 to current year. Published as "near Hadley" 1907-1910, "at Hadley" 1911-32 and "at Conklingville" 1932-52. Records published for both sites October 1951 to September 1952.

REVISED RECORDS.--WSP 1302: 1908. WSP 1432: 1910-12, 1916-21.

GAGE.--Water-stage recorder. Datum of gage is 582.00 ft (177.394 m) above mean sea level. Prior to Jan. 1, 1911, nonrecording gage at site about 1 mi (2 km) upstream at different datum. Jan. 1, 1911 to Sept. 30, 1932, water-stage recorder at site 0.8 mi (1.3 km) downstream at datum 8.82 ft (2.688 m) lower than present datum. Oct. 1, 1932 to Sept. 30, 1952, water-stage recorder at site 3.6 mi (5.8 km) upstream at datum 85.47 ft (26.051 m) higher than present datum.

REMARKS.--Records good above 10 ft³/s and fair below. Flow regulated by Great Sacandaga Lake since Mar. 27, 1930 (see station 01323500); no discharge over spillway during year. Extensive diurnal fluctuation caused by release of water from Great Sacandaga Lake, through Elmer J. West hydroelectric station as directed by Board of Hudson River-Black River Regulating District, and through Stewarts Bridge hydroelectric station.

COOPERATION.--Since Oct. 1, 1932, discharge computed by Board of Hudson River-Black River Regulating District from rating developed by Geological Survey.

AVERAGE DISCHARGE.--69 years, 2,132 ft³/s (60.38 m³/s), adjusted for storage since 1930.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,500 ft³/s (1,010 m³/s) Mar. 28, 1913, gage height, 12.36 ft (3.767 m) site and datum then in use; minimum, 5.3 ft³/s (0.15 m³/s) Mar. 17, 18, 1964, Apr. 29 to May 4, May 5, 6, 1965; minimum daily, 5.3 ft³/s (0.15 m³/s) Apr. 30 to May 3, 1965. Maximum discharge since construction of Conklingville Dam in 1930, 13,300 ft³/s (377 m³/s) July 1, 1968, gage height, 9.54 ft (2.908 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,300 ft³/s (348 m³/s) Apr. 1, gage height, 9.15 ft (2.789 m); minimum daily, 8.2 ft³/s (0.23 m³/s) Mar. 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3060	5240	5140	3160	162	2010	6900	5420	4070	5430	1210	2470
2	3060	5240	5140	3130	2900	2050	8140	5310	3050	5400	2950	3640
3	3090	5200	5080	3130	3070	2020	8030	5440	3060	5410	3040	3110
4	3040	5360	4980	3140	3040	2020	8000	5450	3070	5450	3030	3030
5	144	5200	5050	3100	3080	2010	8030	5230	142	5430	3060	153
6	2930	5220	5100	3110	3090	1980	8040	5230	26	4920	3070	24
7	3080	5100	5040	3100	3090	34	8030	5360	2960	2640	3120	2960
8	3130	5190	5080	3110	156	1980	8030	5440	3060	2570	157	3040
9	3140	5160	4910	3100	2920	2210	8030	5360	3090	2580	2950	3060
10	3080	5300	5010	3110	3100	2200	8020	5360	3050	2620	3060	3060
11	3040	5060	5040	134	3230	2240	8000	4100	3030	51	3120	3100
12	136	5240	5080	2970	3040	2940	6660	3810	2990	2570	3100	125
13	3030	5170	4950	3100	3080	2220	5330	5430	149	2590	3070	2970
14	3230	5300	4950	3080	3080	21	5360	5470	2900	2580	3090	3100
15	3160	5260	4980	3130	141	9.0	5470	4080	3040	2570	115	3060
16	3170	5210	4200	3080	3020	9.0	4170	4090	3060	2540	2930	3110
17	3110	5060	4120	3100	3070	8.2	4120	4080	3070	2540	3080	3080
18	3120	5240	4140	102	3050	8.2	4110	4160	3120	46	3090	3100
19	260	5060	4130	2990	3050	8.2	4080	4080	3100	2520	3070	187
20	3080	5180	4190	3090	3100	8.7	3070	4940	176	2980	3070	2910
21	4850	5200	4160	3060	3020	12	3040	5500	3000	3080	3080	3110
22	5330	5220	4130	3110	126	13	3050	5510	3060	3060	153	3090
23	5480	5110	4160	3070	3020	9.8	3060	5450	3050	3180	2900	3080
24	5330	5140	4190	3140	3080	9.0	3040	5470	3080	3050	3050	3070
25	5260	5130	4190	164	3080	58	3050	4920	3050	123	3180	3050
26	5380	5130	4180	2930	3040	72	3940	5030	1530	2930	2930	155
27	5390	5160	4150	3080	3060	28	5200	5080	4040	3070	2630	2930
28	5320	5080	4180	3080	2470	42	5400	5240	4030	3060	1740	3030
29	5330	5070	4170	3100	132	820	5460	5220	4870	3070	1190	3060
30	5300	5070	4180	3130	---	4040	5330	4160	5430	3040	1700	3100
31	5280	---	4200	3110	---	4470	---	4130	---	3100	2470	---
TOTAL	111340	155300	142200	86940	73497	35560.1	170190	153550	85353	94200	78405	76964
MEAN	3592	5177	4587	2805	2534	1147	5673	4953	2845	3039	2529	2565
MAX	5480	5360	5140	3160	3230	4470	8140	5510	5430	5450	3180	3640
MIN	136	5060	4120	102	126	8.2	3040	3810	26	46	115	24

Adjusted for change in contents in Great Sacandaga Lake and Stewarts Bridge pool

	MEAN	CFM	IN	MEAN	CFM	IN	MEAN	CFM	IN	MEAN	CFM	IN
MEAN	2814	3126	2510	1608	3448	6032	8090	4648	2350	2067	1295	1018
CFM	2.67	2.96	2.38	1.52	3.27	5.72	7.67	4.41	2.23	1.96	1.23	0.96
IN	3.07	3.31	2.74	1.76	3.53	6.59	8.55	5.08	2.48	2.26	1.42	1.08

Observed

Adjusted

CAL YR 1975	TOTAL	1023974.1	MEAN	2805	MAX	5560	MIN	7.5	MEAN	2681	CFM	2.54	IN	34.50
WTR YR 1976	TOTAL	1263499.1	MEAN	3452	MAX	8140	MIN	8.2	MEAN	3245	CFM	3.08	IN	41.87

HUDSON RIVER BASIN

45

01327500 GLENS FALLS FEEDER AT DUNHAM BASIN, NY

LOCATION.--Lat 43°18'15", long 73°32'49", Washington County, Hydrologic Unit 02020003, on left bank at Dunham Basin, 100 ft (30 m) upstream from Bond Creek, 2.0 mi (3.2 km) east of courthouse at Hudson Falls, and 8.0 mi (12.9 km) downstream from Hudson River feeder dam at Glens Falls.

PERIOD OF RECORD.--September 1945 to current year (navigation seasons only).

GAGE.--Water-stage recorder. Datum of gage is 139.88 ft (42.635 m) above mean sea level, Barge Canal datum.

REMARKS.--Records fair. Feeder flow during navigation season is net diversion from Hudson River basin to the summit level of the Champlain (Barge) Canal, 0.4 mi (0.6 km) downstream, and is diverted in accordance with requirements of the canal. Flow during remainder of year consists of leakage through headgates and inflow from area tributary to feeder above station, which may continue during period of nonoperation. During navigation season a portion of the flow is rediverted into Lake Champlain basin; the remainder returns to the Hudson River in southbound lockages.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	69	74				---	82	51	180	89	84
2	87	67	72				---	130	48	109	68	85
3	84	65	69				---	77	50	110	76	87
4	82	62	64				---	70	50	101	77	85
5	79	69	82				---	64	66	95	75	84
6	72	67	125				---	64	44	89	74	63
7	77	67	67				---	67	52	79	77	54
8	79	67	36				---	67	67	68	79	73
9	65	67	1.5				---	65	67	67	59	84
10	82	89	5.5				---	64	66	64	170	96
11	86	77	2.5				2.0	61	67	58	102	96
12	87	82	---				1.7	86	69	67	71	88
13	80	150	---				1.8	65	65	65	82	68
14	92	170	---				1.8	65	49	62	77	73
15	91	107	---				1.8	87	69	61	76	77
16	92	84	---				1.9	58	71	62	67	78
17	100	75	---				2.0	56	83	59	77	78
18	210	72	---				2.1	90	78	62	74	86
19	150	70	---				11	180	74	59	70	77
20	190	69	---				67	160	65	95	70	57
21	77	87	---				67	91	51	104	74	79
22	44	91	---				66	64	79	83	63	85
23	40	77	---				65	55	94	84	40	86
24	61	75	---				63	53	71	88	92	83
25	58	72	---				66	52	79	76	107	83
26	59	70	---				91	49	77	62	108	94
27	56	75	---				75	47	80	73	89	160
28	56	74	---				67	47	78	75	91	115
29	56	67	---				64	55	73	79	82	106
30	61	67	---				63	53	110	119	83	103
31	70	---	---				---	51	---	85	82	---
TOTAL	2632	2400	---				---	2275	2043	2540	2521	2567
MEAN	84.9	80.0	---				---	73.4	68.1	81.9	81.3	85.6
MAX	210	170	---				---	180	110	180	170	160
MIN	40	62	---				---	47	44	58	40	54

HUDSON RIVER BASIN

01328000 BOND CREEK AT DUNHAM BASIN, NY

LOCATION.--Lat 43°18'22", long 73°32'56", Washington County, Hydrologic Unit 02020003, on left bank at Dunham Basin, 800 ft (244 m) upstream from bridge on State Highway 196, 0.2 mi (0.3 km) upstream from Glens Falls feeder and abandoned Champlain Canal, 0.5 mi (0.8 km) upstream from Champlain (Barge) Canal, and 1.9 mi (3.1 km) east of courthouse at Hudson Falls.

DRAINAGE AREA.--14.7 mi² (38.1 km²).

PERIOD OF RECORD.--June 1943 to current year. Prior to October 1950, published as "Bond Brook at Dunham Basin."

GAGE.--Water-stage recorder. Datum of gage is 140.30 ft (42.763 m) above mean sea level, Barge Canal datum.

REMARKS.--Records poor. During canal navigation season, an indeterminate portion of flow is diverted at a point 0.5 mi (0.8 km) below gage into Lake Champlain basin through summit level of Champlain (Barge) Canal at Dunham Basin.

AVERAGE DISCHARGE.--29 years, 17.4 ft³/s (0.493 m³/s), 16.07 in/yr (408.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,370 ft³/s (38.8 m³/s) Dec. 31, 1948 gage height, 8.52 ft (2.597 m); maximum gage height, 8.66 ft (2.640 m) Mar. 5, 1964 (backwater from ice); minimum discharge, 0.10 ft³/s (0.003 m³/s) Aug. 1, 2, 1965, Aug. 25, Sept. 19, 20, 1968, Sept. 12, 13, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	2400	*640 18.1	*5.99 1.826	Apr. 1	1400	565 16.0	5.68 1.731

Minimum daily discharge, 2.8 ft³/s (0.079 m³/s) Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	9.2	35	8.6	45	100	294	24	12	198	23	8.0
2	14	9.4	24	8.4	60	80	107	115	12	54	25	12
3	12	10	16	8.2	45	70	64	43	8.2	36	15	9.9
4	9.1	12	12	8.0	30	90	42	35	7.6	25	9.0	7.0
5	8.0	13	8.9	7.6	24	124	26	23	7.0	18	6.4	4.7
6	7.7	11	9.7	7.2	20	175	20	18	9.4	13	7.0	4.0
7	7.3	11	13	7.2	18	76	16	21	12	8.0	9.4	3.5
8	7.2	15	8.1	7.2	16	43	13	27	9.4	6.0	22	3.5
9	7.2	20	6.9	7.4	16	34	11	19	7.8	5.2	18	6.6
10	7.8	32	30	7.6	15	24	10	16	7.0	5.0	186	11
11	9.1	40	26	8.0	15	21	9.3	15	8.0	9.0	74	19
12	20	28	17	11	15	23	8.5	52	11	36	40	9.0
13	20	91	11	15	14	19	8.1	28	8.4	19	31	6.0
14	24	118	10	20	13	21	7.7	21	7.0	14	26	4.5
15	18	56	13	15	20	20	6.9	56	8.8	13	21	2.8
16	15	32	16	12	35	20	6.9	28	10	11	18	3.0
17	13	23	11	10	60	20	6.6	23	14	18	15	7.1
18	304	18	6.9	9.0	100	17	6.6	73	10	14	12	13
19	217	15	5.9	8.0	160	16	7.3	212	7.6	9.0	9.0	12
20	269	13	5.9	8.0	100	71	7.7	158	7.0	5.4	6.8	6.2
21	78	36	6.6	8.0	130	216	8.1	66	9.4	3.8	5.6	5.8
22	54	47	6.2	8.0	180	161	9.7	41	33	3.7	4.5	5.0
23	39	21	6.2	9.0	160	107	11	26	20	3.6	4.1	4.6
24	25	17	6.6	15	130	100	11	19	13	14	4.0	4.3
25	21	14	8.1	25	110	96	13	16	16	12	3.9	3.6
26	23	12	12	40	110	94	41	16	22	7.0	7.1	15
27	16	24	16	200	130	92	45	17	11	5.0	9.4	113
28	13	31	11	150	120	154	31	15	8.6	4.5	16	40
29	12	21	9.3	100	110	66	24	12	7.6	6.0	11	21
30	11	22	8.9	60	---	50	19	11	69	56	7.0	15
31	9.4	---	9.0	35	---	37	---	11	---	30	4.8	---
TOTAL	1308.8	821.6	386.2	843.4	2001	2237	891.4	1257	393.8	662.2	651.0	380.1
MEAN	42.2	27.4	12.5	27.2	69.0	72.2	29.7	40.5	13.1	21.4	21.0	12.7
MAX	304	118	35	200	180	216	294	212	69	198	186	113
MIN	7.2	9.2	5.9	7.2	13	16	6.6	11	7.0	3.6	3.9	2.8
CFSM	2.87	1.86	.85	1.85	4.69	4.91	2.02	2.76	.89	1.46	1.43	.86
IN.	3.31	2.08	.98	2.13	5.06	5.66	2.26	3.18	1.00	1.68	1.65	.96

CAL YR 1975	TOTAL	9377.32	MEAN 25.7	MAX 505	MIN .64	CFSM 1.75	IN 23.73
WTR YR 1976	TOTAL	11833.50	MEAN 32.3	MAX 304	MIN 2.8	CFSM 2.20	IN 29.94

HUDSON RIVER BASIN

47

01329000 BATTEN KILL AT ARLINGTON, VT

LOCATION.--Lat 43°04'38", long 73°09'26", Bennington County, Hydrologic Unit 02020003, on left bank 5 ft (1.5 m) upstream from bridge on Highway 313 at Arlington and 0.9 mi (1.4 km) downstream from Warm Brook.

DRAINAGE AREA.--152 mi² (394 km²).

PERIOD OF RECORD.--Discharge: October 1928 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 851: 1936 (maximum gage height). WSP 1302: 1929-34(M).

GAUGE.--Water-stage recorder. Datum of gage is 597.68 ft (182.173 m) above mean sea level, unadjusted. Prior to Nov. 18, 1941, nonrecording gage at downstream side of bridge at same datum.

REMARKS.--Records excellent except those for periods of no gage-height record, which are fair. Prior to 1949, diurnal fluctuation at low flow caused by mill upstream. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--48 years, 339 ft³/s (9,600 m³/s), 30.29 in/yr (769 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,100 ft³/s (314 m³/s) Mar. 18, 1936, gage height, 11.3 ft (3.44 m), from floodmarks, present site, from rating curve extended above 6,100 ft³/s (173 m³/s) on basis of slope-area measurement at gage height 10.8 ft (3.29 m) and computation of peak flow over dam; minimum, 37 ft³/s (1.05 m³/s) Sept. 25, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s (62.3 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	1300	2,890 81.8	7.46 2.274	May 21	1830	2,720 77.0	7.34 2.237
Jan. 28	-	2,320 65.7	†7.02 2.140	July 12	0200	3,300 93.5	7.75 2.362
Mar. 21	2130	2,370 67.1	7.06 2.152	July 13	0130	3,490 98.8	7.87 2.399
Mar. 28	0530	3,190 90.3	7.67 2.338	Aug. 1	1430	2,820 79.9	7.41 2.259
Apr. 2	0230	3,800 108	8.08 2.463	Aug. 10	1700	*5,990 170	*9.37 2.856

† From peak-stage indicator.

Minimum discharge, 157 ft³/s (4.45 m³/s) June 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	366	319	551	290	550	1120	2380	429	416	753	1570	233
2	330	306	528	260	820	914	3130	686	384	364	2070	397
3	301	303	422	270	760	734	1660	566	330	268	999	312
4	284	498	352	260	600	685	1110	538	298	232	527	246
5	268	459	320	220	500	1170	819	440	275	201	415	230
6	247	353	355	240	450	1700	705	383	258	180	373	212
7	232	321	445	280	420	1240	640	403	306	210	606	195
8	218	467	316	240	400	784	570	519	271	203	912	186
9	211	574	310	220	360	606	512	413	238	362	552	183
10	204	485	452	230	350	562	470	359	219	227	4060	253
11	371	795	489	240	370	517	479	329	206	203	4100	456
12	1300	566	360	230	330	448	444	899	261	2200	2200	312
13	1180	1160	322	200	330	497	405	758	215	2280	1000	240
14	797	1300	319	480	315	524	389	511	192	795	1300	202
15	576	977	357	370	300	449	392	1370	199	496	850	183
16	631	692	453	290	400	392	440	903	187	364	1050	174
17	536	592	340	260	600	368	470	656	231	366	700	209
18	1640	570	310	230	500	352	450	614	210	298	520	249
19	2080	569	231	215	1100	357	396	1540	176	255	430	243
20	2050	515	230	205	670	548	351	2280	174	223	380	202
21	1630	671	300	193	506	1310	317	2390	276	253	340	192
22	1050	940	290	192	1460	1730	290	2260	247	262	310	195
23	723	630	270	190	1920	1100	323	1650	238	209	290	205
24	592	526	250	190	1190	735	285	1120	195	412	265	177
25	529	477	230	200	799	826	331	830	264	337	240	165
26	540	437	320	260	777	949	628	696	249	232	226	180
27	476	448	420	800	1010	1040	489	602	200	198	355	976
28	426	480	360	1800	1110	2440	520	521	179	198	596	569
29	393	409	310	2000	862	1670	624	458	163	197	405	360
30	369	380	280	1200	---	995	500	417	312	997	289	289
31	339	---	310	700	---	882	---	388	---	900	246	---
TOTAL	20889	17219	10802	12955	19759	27644	20519	25928	7369	14675	28176	8225
MEAN	674	574	348	418	681	892	684	836	246	473	909	274
MAX	2080	1300	551	2000	1920	2440	3130	2390	416	2280	4100	976
MIN	204	303	230	190	300	352	285	329	163	180	226	165
CFSM	4.43	3.78	2.29	2.75	4.48	5.87	4.50	5.50	1.62	3.11	5.98	1.80
IN	5.11	4.21	2.64	3.17	4.84	6.77	5.02	6.35	1.80	3.59	6.90	2.01

CAL YR 1975 TOTAL 175477 MEAN 481 MAX 2080 MIN 123 CFSM 3.16 IN 42.95
WTR YR 1976 TOTAL 214160 MEAN 585 MAX 4100 MIN 163 CFSM 3.85 IN 52.41

NOTE.--No gage-height record Dec. 20 to Jan. 20, Jan. 23 to Feb. 20.

HUDSON RIVER BASIN

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, NY

LOCATION.--Lat 43°02'18", long 73°54'35", Saratoga County, Hydrologic Unit 02020003, on left bank 600 ft (183 m) downstream from Glowegee Creek, 1.0 mi (1.6 km) east of West Milton, and 3.5 mi (5.6 km) northwest of Ballston Spa. Water-quality sampling site at discharge station.

DRAINAGE AREA.--90.1 mi² (233 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1927 to current year.

REVISED RECORDS.--WSP 741: Drainage area. WSP 1202: 1935-40.

GAGE.--Water-stage recorder. Datum of gage is 376.06 ft (114.623 m) above mean sea level.

REMARKS.--Records good except those for winter periods and period of no gage-height record, which are poor. Slight occasional diurnal fluctuation at low flow caused by mills above station.

AVERAGE DISCHARGE.--49 years, 135 ft³/s (3.823 m³/s), 20.37 in/yr (517.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,710 ft³/s (133 m³/s) Mar. 18, 1936, gage height, 10.78 ft (3.286 m), from floodmarks; minimum, 6.1 ft³/s (0.17 m³/s) Aug. 23, 1927, gage height, 0.86 ft (0.262 m); minimum daily, 12 ft³/s (0.34 m³/s) Aug. 5-9, Sept. 8, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 20	0330	1,600 45.3	5.97 1.820	Mar. 28	0900	1,590 45.0	5.96 1.817
Feb. 22	1630	1,300 36.8	5.40 1.646	Apr. 1	1830	*3,020 85.5	*8.38 2.554

Minimum discharge, 40 ft³/s (1.13 m³/s) Sept. 9, 10, gage height, 1.44 ft (0.439 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	132	237	130	400	400	1920	187	141	422	130	70
2	176	131	214	120	450	350	1450	470	141	256	120	60
3	147	134	175	110	500	300	659	368	119	161	100	52
4	135	143	142	100	400	320	491	304	113	126	90	49
5	124	132	140	98	300	500	404	233	104	102	80	52
6	115	119	147	98	250	480	354	200	103	87	64	50
7	115	115	172	98	230	400	319	213	147	79	70	46
8	106	167	130	96	210	350	290	236	115	82	100	44
9	100	179	125	96	190	300	267	191	99	79	150	42
10	97	182	304	96	180	270	251	168	160	71	250	52
11	106	321	279	98	160	250	240	158	125	66	900	93
12	114	261	188	110	150	230	222	386	106	84	450	68
13	112	545	156	130	150	250	210	251	91	82	350	55
14	154	476	162	170	140	230	203	193	87	72	300	49
15	132	345	181	180	140	210	193	364	121	69	260	46
16	122	258	181	150	200	200	193	243	111	70	220	45
17	111	222	138	120	340	210	188	223	143	148	190	61
18	780	203	128	100	450	220	171	237	115	89	160	283
19	818	185	120	90	640	185	159	609	91	71	130	228
20	1240	172	120	90	600	281	147	836	119	63	110	123
21	591	265	120	90	640	514	141	508	221	70	100	137
22	369	331	110	92	888	586	139	377	192	73	90	99
23	274	227	110	94	844	404	147	286	261	61	80	83
24	223	190	100	100	568	395	139	235	171	94	70	77
25	206	169	130	160	420	507	217	213	167	69	66	65
26	212	158	160	240	400	582	565	202	140	57	64	81
27	183	169	200	517	400	652	425	211	107	53	90	551
28	165	212	180	780	430	1350	287	180	92	50	120	372
29	158	197	160	666	430	743	234	154	80	66	100	202
30	149	179	160	586	---	527	197	143	129	350	90	144
31	137	---	150	500	---	481	---	137	---	160	80	---
TOTAL	7659	6519	5019	6105	11100	12677	10822	8716	3911	3382	5174	3379
MEAN	247	217	162	197	383	409	361	281	130	109	167	113
MAX	1240	545	304	780	888	1350	1920	836	261	422	900	551
MIN	97	115	100	90	140	185	139	137	80	50	64	42
CFSM	2.74	2.41	1.80	2.19	4.25	4.54	4.01	3.12	1.44	1.21	1.85	1.25
IN.	3.16	2.69	2.07	2.52	4.58	5.23	4.47	3.60	1.61	1.40	2.14	1.40

CAL YR 1975 TOTAL 68549 MEAN 188 MAX 1370 MIN 32 CFSM 2.09 IN 28.30
WTR YR 1976 TOTAL 84463 MEAN 231 MAX 1920 MIN 42 CFSM 2.56 IN 34.87

HUDSON RIVER BASIN

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01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1952 to June 1970, June 1971 to current year.

INSTRUMENTATION.--Temperature recorder since October 1952.

REMARKS.--Unpublished records of daily temperatures (June 1950 to September 1952) are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1953-69, 1971-76), 28.5°C July 10, 1955; minimum (water years 1953-70, 1972-76), freezing point on many days during winter periods, except 1953, 1965, and 1975.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 22.5°C Aug. 22; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.5	7.0	5.5	5.5	4.5	0.0	0.0	0.0	0.0	1.5	1.5
2	14.0	13.0	9.5	7.0	4.5	3.0	0.0	0.0	0.0	0.0	1.5	0.5
3	13.0	11.0	11.0	9.5	3.0	2.0	0.0	0.0	0.0	0.0	0.5	0.5
4	11.5	9.5	12.0	11.0	2.0	1.0	0.0	0.0	0.0	0.0	0.5	0.5
5	11.0	9.5	11.0	10.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.5
6	12.0	10.0	10.0	8.0	3.5	1.0	0.0	0.0	0.0	0.0	1.5	0.5
7	12.0	10.5	9.5	8.0	3.5	1.5	0.0	0.0	0.0	0.0	1.5	0.5
8	11.0	9.0	12.0	9.5	1.5	1.0	0.0	0.0	0.0	0.0	1.0	0.5
9	10.5	10.0	12.0	11.0	2.0	1.0	0.0	0.0	0.0	0.0	0.5	0.5
10	11.0	10.5	11.5	11.0	3.0	2.0	0.0	0.0	0.0	0.0	1.0	0.5
11	11.0	11.0	11.5	9.5	3.0	2.5	0.5	0.0	0.0	0.0	2.0	1.0
12	11.0	11.0	9.5	8.0	2.5	2.0	0.5	0.0	0.0	0.0	1.0	0.5
13	11.5	10.5	8.5	8.0	2.0	2.0	0.5	0.0	0.0	0.0	2.0	0.5
14	13.0	11.5	8.5	6.5	3.5	2.0	0.0	0.0	0.0	0.0	2.0	1.0
15	14.0	12.0	6.5	5.5	4.0	3.5	0.0	0.0	0.0	0.0	3.0	1.5
16	14.0	12.5	5.5	5.0	4.0	2.0	0.0	0.0	0.0	0.0	2.0	0.5
17	12.5	11.5	5.5	4.5	2.0	1.5	0.0	0.0	0.0	0.0	0.5	0.5
18	12.0	10.5	6.0	5.0	1.5	1.0	0.0	0.0	0.0	0.0	0.5	0.5
19	11.0	11.0	6.5	5.5	1.0	1.0	0.5	0.0	0.0	0.0	1.0	0.5
20	11.0	10.5	6.5	6.0	1.0	1.0	0.0	0.0	0.0	0.0	3.5	1.0
21	11.0	10.5	7.0	6.5	1.0	1.0	0.0	0.0	0.0	0.0	2.5	1.5
22	12.0	11.0	7.0	6.0	1.0	1.0	0.0	0.0	0.5	0.0	1.5	0.5
23	12.0	11.0	6.0	5.0	1.0	1.0	0.5	0.0	0.5	0.0	2.0	0.5
24	12.0	11.0	5.0	4.0	1.0	1.0	0.5	0.5	0.0	0.0	3.5	1.0
25	12.5	12.0	4.5	3.5	1.0	0.5	0.5	0.0	0.5	0.0	3.5	2.5
26	12.5	12.0	3.5	3.5	0.5	0.5	0.0	0.0	2.0	0.5	4.0	2.0
27	12.0	10.0	3.5	3.0	0.5	0.5	0.0	0.0	2.5	1.5	5.0	2.5
28	10.0	9.0	4.0	3.0	0.5	0.0	0.0	0.0	1.5	1.0	4.5	1.5
29	10.5	9.5	4.0	3.0	0.0	0.0	0.0	0.0	1.5	0.5	4.0	2.0
30	10.5	8.0	5.0	3.0	0.0	0.0	0.0	0.0	---	---	5.0	3.5
31	8.0	6.5	---	---	0.0	0.0	0.0	0.0	---	---	6.0	5.0
MONTH	14.0	6.5	12.0	3.0	5.5	0.0	0.5	0.0	2.5	0.0	6.0	0.5

HUDSON RIVER BASIN

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	4.0	11.0	9.0	15.0	13.0	18.0	17.0	18.5	17.0	16.5	14.0
2	4.0	3.5	11.5	10.0	14.5	11.0	18.0	17.0	18.5	15.5	16.5	16.0
3	5.0	3.5	11.5	9.0	15.5	12.0	17.5	16.0	18.0	15.0	16.0	13.5
4	6.0	4.0	9.0	7.5	16.5	12.5	18.5	15.0	19.0	15.0	16.0	14.0
5	6.5	4.0	10.5	6.5	17.0	13.0	19.5	15.5	19.0	16.5	17.0	15.0
6	6.5	5.0	12.5	9.5	16.0	13.5	21.0	17.0	18.5	17.5	16.5	14.0
7	7.5	5.0	12.0	10.0	15.5	13.0	20.5	18.5	17.5	15.5	16.0	13.5
8	6.0	5.0	11.0	8.5	19.0	14.5	19.5	18.0	16.0	15.0	16.5	13.5
9	6.5	4.0	11.5	8.0	18.5	16.0	19.5	17.0	17.0	16.0	16.5	14.0
10	7.0	4.0	14.0	9.5	19.0	16.0	19.5	16.5	17.5	17.0	16.0	14.5
11	7.0	4.5	13.5	11.5	19.0	17.5	20.0	17.0	19.5	17.0	14.5	12.5
12	5.0	2.5	12.0	10.5	19.0	17.0	19.5	18.0	20.0	17.5	14.5	12.0
13	7.0	3.0	12.0	9.0	17.0	14.0	19.5	16.5	19.5	18.5	15.5	12.5
14	9.5	6.5	12.0	10.0	16.5	13.5	17.0	16.0	20.5	18.0	16.0	13.5
15	9.5	7.5	15.0	12.0	19.0	16.0	19.0	15.5	20.0	19.0	16.0	15.0
16	12.0	9.0	14.5	13.5	20.5	17.5	18.5	16.5	19.5	17.5	16.0	15.5
17	15.5	11.0	15.0	14.0	20.0	18.5	19.0	16.0	19.5	16.5	16.0	16.0
18	16.5	13.0	14.5	12.5	20.0	17.0	18.0	15.5	19.0	16.0	16.0	16.0
19	17.5	13.5	12.5	7.0	20.5	18.0	19.5	15.5	19.0	16.0	16.5	15.5
20	16.0	14.0	8.0	6.5	21.0	18.5	20.5	17.5	19.5	16.5	16.0	15.0
21	15.0	12.0	9.5	8.0	19.0	18.0	20.0	17.5	21.0	18.5	15.5	14.5
22	14.0	12.5	9.5	9.0	19.0	18.0	19.5	16.0	22.5	20.0	14.5	12.5
23	12.5	10.0	11.5	8.5	19.0	17.5	18.0	16.5	22.0	20.0	12.5	11.0
24	10.0	8.0	11.0	10.0	20.5	18.0	19.5	16.0	21.0	18.5	11.5	10.0
25	10.0	7.5	10.5	10.0	20.0	18.5	19.0	15.5	20.5	17.5	11.0	9.5
26	7.5	6.0	11.0	10.0	21.0	18.0	18.5	14.5	19.5	17.0	10.5	9.0
27	6.5	5.5	13.0	10.0	20.0	18.0	18.5	16.0	20.0	19.0	11.0	9.5
28	8.0	6.5	15.0	11.5	20.5	16.5	19.5	16.5	19.5	19.0	11.5	11.0
29	11.0	8.0	14.5	12.5	20.5	18.0	19.0	16.0	21.0	19.0	11.0	9.5
30	12.0	8.5	14.0	12.5	20.0	17.5	16.0	16.0	19.0	16.5	11.0	9.5
31	---	---	15.5	13.0	---	---	18.5	16.0	16.5	14.0	---	---
MONTH	17.5	2.5	15.5	6.5	21.0	11.0	21.0	14.5	22.5	14.0	17.0	9.0

01332500 HOOSIC RIVER NEAR WILLIAMSTOWN, MA

LOCATION.--Lat 42°42'21", long 73°10'50", Berkshire County, Hydrologic Unit 02020003, on left bank 1.0 mi (1.6 km) upstream from Green River and 1.2 mi (1.9 km) east of Williamstown.

DRAINAGE AREA.--132 mi² (342 km²).

PERIOD OF RECORD.--Discharge: July 1940 to current year.

Chemical analyses: Water years 1953-54, 1957-58, 1967-69 (partial-record station).

Water temperatures: Water years 1957-58, 1967-68 (partial-record station).

Sediment records: Water years 1967-69 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 595 ft (181 m) from topographic map.

REMARKS.--Records fair. Slight diurnal fluctuation at low flow prior to 1966 caused by mills upstream. Some regulation by Cheshire Reservoir 17 mi (27 km) upstream. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--36 years, 274 ft³/s (7.760 m³/s), 28.19 in/yr (716 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Dec. 31, 1948, gage height, 14.85 ft (4.526 m), from rating curve extended above 4,300 ft³/s (122 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 5.8 ft³/s (0.16 m³/s) Aug. 30, 31, Oct. 26, 1940; minimum daily, 25 ft³/s (0.71 m³/s) Sept. 2, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft³/s (68.0 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 28	0245	2,520 71.4	5.70 1.737	May 19	0915	2,660 75.3	5.86 1.786
Mar. 28	0500	2,690 76.2	5.89 1.795	May 20	1945	2,440 69.1	5.61 1.710
Apr. 1	1630	3,670 104	6.96 2.121	Aug. 10	0930	*11,200 317	*13.02 3.968

† From rating curve extended above 2,200 ft³/s (62.3 m³/s) on basis of contracted-opening measurement at gage height 14.85 ft (4.526 m) and slope-area measurements at gage heights 13.02 ft (3.968 m) and 11.80 ft (3.597 m).

Minimum discharge, 65 ft³/s (1.84 m³/s) Sept. 9; minimum daily, 69 ft³/s (1.95 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	246	554	254	486	695	1980	285	238	403	667	99
2	316	238	442	238	890	584	1410	796	235	191	308	102
3	277	238	373	235	630	505	733	411	202	176	183	99
4	257	285	324	231	520	509	549	336	194	140	144	89
5	246	235	300	225	450	830	464	261	176	130	130	99
6	235	235	312	215	400	944	407	257	172	123	119	82
7	202	231	328	216	377	614	364	257	227	123	437	75
8	194	289	285	216	377	505	332	273	183	154	390	72
9	191	304	289	210	360	442	304	250	162	172	250	69
10	191	300	495	213	348	437	281	227	151	130	4740	123
11	312	352	411	195	360	420	289	216	151	109	1300	269
12	625	328	332	202	344	390	265	651	147	202	495	151
13	411	865	308	194	348	472	246	407	137	227	348	123
14	416	762	304	328	352	459	242	296	133	169	340	113
15	340	524	312	277	332	407	242	455	137	137	324	102
16	304	437	328	231	381	377	238	296	130	123	377	96
17	285	403	285	215	477	368	235	261	198	119	289	102
18	1240	398	277	195	429	364	220	360	151	109	220	113
19	836	381	225	180	662	368	213	1740	130	102	191	106
20	1110	356	215	170	495	514	202	1880	126	96	169	96
21	656	640	235	165	411	981	194	1480	123	96	158	96
22	495	717	238	160	1110	1060	194	1050	126	102	144	96
23	424	459	235	155	853	594	202	695	123	92	130	96
24	398	403	215	150	554	554	191	519	116	116	116	85
25	356	356	215	150	519	614	238	416	119	106	106	79
26	348	332	265	190	574	645	437	352	119	89	102	96
27	316	433	386	1260	830	717	316	308	109	99	130	442
28	300	442	293	1850	807	1830	340	261	106	106	191	250
29	285	352	265	853	630	790	377	265	130	99	162	183
30	269	332	242	604	---	630	265	257	273	126	133	154
31	257	---	269	481	---	584	---	246	---	109	106	---
TOTAL	12432	11873	9557	10458	15306	19203	11970	15764	4724	4275	12899	3757
MEAN	401	396	308	337	528	619	399	509	157	138	416	125
MAX	1240	865	554	1850	1110	1830	1980	1880	273	403	4740	442
MIN	191	231	215	150	332	364	191	216	106	89	102	69
CFSM	3.04	3.00	2.33	2.55	4.00	4.69	3.02	3.86	1.19	1.05	3.15	.95
IN.	3.50	3.35	2.69	2.95	4.31	5.41	3.37	4.44	1.33	1.20	3.64	1.06

CAL YR 1975	TOTAL	137862	MEAN 378	MAX 2100	MIN 136	CFSM 2.86	IN 38.85
WTR YR 1976	TOTAL	132218	MEAN 361	MAX 4740	MIN 69	CFSM 2.73	IN 37.26

HUDSON RIVER BASIN

01333000 GREEN RIVER AT WILLIAMSTOWN, MA

LOCATION.--Lat 42°42'32", long 73°11'50", Berkshire County, Hydrologic Unit 02020003, on left bank 0.1 mi (0.2 km) upstream from bridge on State Highway 2 at Williamstown and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--42.6 mi² (110.3 km²).

PERIOD OF RECORD.--Discharge: September 1949 to current year.

Chemical analyses: Water years 1967-69 (partial-record station).

Water temperatures: Water years 1967-69 (partial-record station).

Sediment records: Water years 1967-69 (partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 615 ft (187 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Slight diurnal fluctuation at times caused by mill upstream. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--27 years, 82.9 ft³/s (2.348 m³/s), 26.43 in/yr (671 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,060 ft³/s (115 m³/s) Dec. 21, 1973, gage height, 5.68 ft (1.731 m), from rating curve extended above 750 ft³/s (21.2 m³/s) on basis of slope-area measurement at gage height 4.94 ft (1.506 m); maximum gage height, 5.94 ft (1.811 m) Sept. 12, 1960; minimum discharge, 3.1 ft³/s (0.088 m³/s) Sept. 20, 22, 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 31, 1948, reached a stage of about 7.5 ft (2.3 m), from flood-marks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 850 ft³/s (24.1 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 28	-	809 22.9	†3.48 1.061	May 19	0700	1,550 43.9	4.16 1.268
Feb. 22	1300	987 22.0	3.67 1.119	June 30	1930	†3,980 113	*5.64 1.719
Apr. 1	1500	1,210 34.3	3.88 1.183	Aug. 10	1545	1,730 49.0	4.30 1.311

† From peak-stage indicator.

‡ From rating curve extended as explained above.

Minimum discharge, 12 ft³/s (0.34 m³/s) July 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	73	179	70	200	215	516	133	86	330	52	34
2	86	71	148	60	300	194	361	258	84	133	74	35
3	78	70	130	58	210	174	251	194	70	107	42	32
4	72	83	117	54	170	177	206	174	71	78	31	30
5	68	70	106	52	145	321	182	150	60	61	25	32
6	67	68	110	54	125	285	158	131	59	46	21	27
7	64	67	106	60	115	215	140	140	67	41	36	26
8	59	86	89	56	105	185	126	135	53	45	65	25
9	53	80	89	51	98	155	111	113	49	43	44	25
10	51	81	128	48	90	145	101	101	45	35	1210	68
11	88	89	104	46	85	133	101	95	44	29	676	60
12	106	95	93	46	81	115	90	281	41	39	293	36
13	84	232	88	50	78	145	83	191	37	35	206	31
14	98	295	88	100	76	124	76	163	36	31	171	29
15	81	210	89	90	76	107	71	174	37	27	163	27
16	75	185	88	80	94	93	68	140	32	25	163	26
17	72	167	76	68	105	84	65	131	53	24	117	32
18	313	153	72	59	130	86	63	179	37	21	97	29
19	308	143	59	53	293	95	60	668	32	19	84	27
20	371	130	61	50	188	147	56	691	30	18	73	25
21	246	217	76	50	166	269	53	537	30	18	65	25
22	201	207	72	48	523	269	56	407	29	17	59	25
23	170	170	68	45	326	200	53	293	27	15	53	22
24	148	153	62	43	228	182	50	231	27	18	49	21
25	135	138	60	42	212	174	74	197	30	14	44	21
26	124	124	82	50	215	166	122	171	26	13	41	32
27	110	182	120	90	269	166	105	147	22	13	43	131
28	100	151	95	400	255	301	113	128	22	19	70	60
29	93	128	83	310	218	200	117	109	33	14	49	44
30	86	119	80	260	---	177	109	99	725	18	41	40
31	78	---	82	220	---	155	---	88	---	15	37	---
TOTAL	3783	4037	2900	2763	5176	5454	3737	6649	1994	1361	4194	1077
MEAN	122	135	93.5	89.1	178	176	125	214	66.5	43.9	135	35.9
MAX	371	295	179	400	523	321	516	691	725	330	1210	131
MIN	51	67	59	42	76	84	50	88	22	13	21	21
CFSM	2.86	3.17	2.19	2.09	4.18	4.13	2.93	5.02	1.56	1.03	3.17	.84
IN.	3.30	3.53	2.53	2.41	4.52	4.76	3.26	5.81	1.74	1.19	3.66	.94

CAL YR 1975 TOTAL 47595 MEAN 130 MAX 1470 MIN 25 CFSM 3.05 IN 41.56
WTR YR 1976 TOTAL 43125 MEAN 118 MAX 1210 MIN 13 CFSM 2.77 IN 37.66

NOTE.--No gage-height record Dec. 26 to Feb. 17.

01333500 LITTLE HOOSIC RIVER AT PETERSBURG, NY

LOCATION.--Lat 42°45'50", long 73°20'16", Rensselaer County, Hydrologic Unit 02020003, on left bank 100 ft (30 m) downstream from highway bridge on dirt road, 1.0 mi (1.6 km) downstream from Petersburg, and 4.9 mi (7.9 km) upstream from mouth.

DRAINAGE AREA.--56.1 mi² (145 mi²).

PERIOD OF RECORD.--July 1951 to current year.

REVISED RECORDS.--WSP 1702: 1959.

GAGE.--Water-stage recorder. Datum of gage is 587.40 ft (179.039 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--25 years, 94.8 ft³/s (2.685 m³/s), 22.95 in/yr (582.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft³/s (142 m³/s) June 30, 1973, gage height, 9.20 ft (2.804 m); minimum, 1.9 ft³/s (0.054 m³/s) Sept. 11, 12, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 31, 1948, reached a stage of 9.4 ft (2.87 m) from floodmarks, discharge, 7,470 ft³/s (212 m³/s), on basis of contracted-opening measurements of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,250 ft³/s (35 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	2345	1,990 56.4	6.17 1.881	Aug. 10	0845	*4,000 113	*8.43 2.569

Minimum discharge, 14 ft³/s (0.40 m³/s) July 26, gage height, 1.95 ft (0.594 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	91	179	90	284	244	345	124	84	288	352	39
2	99	85	165	80	511	216	367	219	82	141	150	42
3	86	81	147	70	367	192	298	188	66	109	88	38
4	75	101	134	66	320	204	244	188	60	86	64	36
5	69	85	126	62	244	342	204	160	53	70	50	35
6	63	76	128	62	207	331	176	150	49	56	40	33
7	57	71	128	62	192	270	155	152	56	49	88	31
8	53	91	115	62	163	216	139	157	45	45	88	31
9	49	87	107	62	139	182	126	130	38	40	66	29
10	45	85	134	64	136	165	115	118	35	35	1730	105
11	72	83	124	66	132	150	115	107	40	30	652	100
12	143	83	111	70	115	134	107	302	33	53	356	62
13	126	209	105	80	118	145	97	230	29	49	257	51
14	132	316	103	110	115	134	86	180	26	37	193	46
15	115	277	103	84	105	120	79	250	28	32	184	43
16	109	244	105	70	126	105	75	180	25	28	207	41
17	101	219	92	62	241	101	69	160	42	26	134	51
18	437	201	88	60	188	107	63	170	27	23	109	46
19	481	185	79	58	392	105	59	450	23	22	88	42
20	632	168	76	58	280	160	54	1100	22	19	74	39
21	409	247	76	60	238	223	50	880	22	20	64	38
22	309	273	74	64	560	306	47	700	21	19	58	39
23	244	226	72	100	450	229	46	480	19	18	51	37
24	199	201	70	180	345	201	42	380	21	20	48	35
25	179	176	100	250	291	182	64	290	24	17	43	33
26	166	157	200	310	277	165	113	220	20	15	40	41
27	141	179	150	1330	298	152	111	170	18	18	41	156
28	128	173	120	1030	288	213	134	145	18	24	85	92
29	117	147	110	525	254	176	130	122	28	18	59	76
30	109	136	110	370	---	155	121	105	195	21	48	67
31	99	---	100	284	---	141	---	94	---	21	42	---
TOTAL	5153	4753	3531	5901	7376	5766	3831	8301	1249	1449	5549	1554
MEAN	166	158	114	190	254	186	129	268	41.6	46.7	179	51.8
MAX	632	316	200	1330	560	342	367	1100	195	288	1730	156
MIN	45	71	70	58	105	101	42	94	18	15	40	29
CFSM	2.96	2.82	2.03	3.39	4.53	3.32	2.28	4.78	.74	.83	3.19	.92
IN.	3.42	3.15	2.34	3.91	4.89	3.82	2.54	5.50	.83	.96	3.68	1.03

CAL YR 1975 TOTAL 51087 MEAN 140 MAX 1430 MIN 15 CFSM 2.50 IN 33.88
WTR YR 1976 TOTAL 54413 MEAN 149 MAX 1730 MIN 15 CFSM 2.66 IN 36.08

HUDSON RIVER BASIN

01334000 WALLOOMSAC RIVER NEAR NORTH BENNINGTON, VT

LOCATION.--Lat 42°54'47", long 73°15'25", Bennington County, Hydrologic Unit 02020003, on left bank 0.6 mi (1.0 km) downstream from Paran Creek and 1.4 mi (2.3 km) south of North Bennington.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--Discharge: June 1931 to current year.

Chemical analyses: Water years 1953-54 (partial-record station).

Water temperatures: Water year 1954 (partial-record station).

REVISED RECORDS.--WSP 781: 1933(M).

GAGE.--Water-stage recorder. Altitude of gage is 525 ft (160 m), from topographic map.

REMARKS.--Records good except those for January, which are fair. Occasional diurnal fluctuation at low flow caused by mills upstream; diurnal fluctuation greater prior to 1960. Diversion upstream for municipal supply of Bennington and North Bennington since 1961. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--45 years, 221 ft³/s (6.259 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,450 ft³/s (239 m³/s) Sept. 21, 1938, gage height, 12.04 ft (3.670 m), from rating curve extended above 2,800 ft³/s (79.3 m³/s) on basis of contracted-opening measurements at gage heights 10.13 ft (3.088 m), 10.49 ft (3.197 m), 11.50 ft (3.505 m), and 12.04 ft (3.670 m) and slope-area measurement and computation of flow over dam at gage height 12.04 ft (3.670 m); minimum, 4 ft³/s (0.11 m³/s) Sept. 27, 1932; minimum daily, 21 ft³/s (0.59 m³/s) Sept. 22, 23, 1964, July 12, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 28	0600	2,360 66.8	6.07 1.850	June 30	0130	2,580 73.1	6.36 1.939
Apr. 1	1745	2,760 78.2	6.59 2.009	June 30	2115	3,330 94.3	7.29 2.222
May 19	0945	2,510 71.1	6.27 1.911	Aug. 1	1415	2,150 60.9	5.78 1.762
May 20	2045	2,380 67.4	6.10 1.859	Aug. 10	1430	*6,510 184	*10.42 3.176
May 21	1815	2,190 62.0	5.84 1.780				

† From rating curve extended as explained above.

Minimum discharge, 14 ft³/s (0.40 m³/s) July 11; minimum daily, 105 ft³/s (2.97 m³/s) July 29, Sept. 9, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	226	445	219	344	633	1430	309	286	1310	1030	146
2	258	219	377	180	576	491	1030	564	270	463	576	209
3	233	212	308	192	504	421	655	422	236	328	292	170
4	216	281	266	186	406	432	511	408	217	255	219	144
5	199	244	240	150	332	809	434	325	204	216	180	144
6	183	212	269	170	300	927	388	285	201	170	164	130
7	173	199	328	200	288	573	358	307	272	173	356	117
8	167	230	244	170	273	441	330	373	214	164	428	112
9	161	255	237	150	247	370	300	287	179	206	262	105
10	155	237	364	160	240	352	280	254	162	152	3470	244
11	352	292	352	170	262	335	298	233	163	133	1330	428
12	986	281	273	160	230	297	276	786	179	364	591	216
13	654	681	247	140	230	336	252	516	148	826	607	161
14	552	747	251	340	223	337	240	376	137	385	753	138
15	410	514	273	262	199	291	233	728	161	273	481	122
16	428	419	356	206	262	256	233	460	137	216	622	114
17	352	377	266	180	402	241	229	387	273	206	410	135
18	1180	372	240	160	324	237	218	464	194	170	308	138
19	860	368	183	150	719	256	204	1650	144	149	258	158
20	1030	352	185	140	437	410	192	1860	131	133	226	127
21	670	528	223	135	340	857	181	1820	173	180	202	114
22	523	643	212	130	908	899	171	1460	142	173	183	125
23	437	428	202	125	703	490	172	1060	121	130	167	130
24	377	364	185	125	468	444	163	826	115	173	152	110
25	356	332	175	130	415	514	221	630	200	144	138	105
26	368	304	260	170	437	553	412	528	156	114	130	114
27	320	332	368	681	566	622	323	461	124	112	266	410
28	292	344	273	1570	561	1450	394	387	111	117	459	255
29	273	292	219	820	455	652	443	346	200	105	277	183
30	262	273	202	532	---	535	342	319	1420	233	216	155
31	240	---	240	385	---	507	---	299	---	161	167	---
TOTAL	12951	10558	8263	8488	11651	15968	10913	19130	6670	7934	14920	4959
MEAN	418	352	267	274	402	515	364	617	222	256	481	165
MAX	1180	747	445	1570	908	1450	1430	1860	1420	1310	3470	428
MIN	155	199	175	125	199	237	163	233	111	105	130	105
CAL YR 1975	TOTAL	121282	MEAN	332	MAX	2400	MIN	68				
WTR YR 1976	TOTAL	132405	MEAN	362	MAX	3470	MIN	105				

01334500 HOOSIC RIVER NEAR EAGLE BRIDGE, NY

LOCATION.--Lat 42°56'19", long 73°22'39", Rensselaer County, Hydrologic Unit 02020003, on right bank 0.5 mi (0.8 km) upstream from Case Brook, 1.2 mi (1.9 km) downstream from Walloomsac River, and 1.2 mi (1.9 km) southeast of Eagle Bridge.

DRAINAGE AREA.--510 mi² (1,321 km²).

PERIOD OF RECORD.--August 1910 to March 1922, July 1923 to current year.

REVISED RECORDS.--WSP 741: Drainage area. WSP 756: 1913(M). WSP 1302: 1922(M). WSP 1432: 1913 (minimum gage height). WSP 1502: 1911-12, 1914, 1920-21, 1928(M), 1936(M).

GAGE.--Water-stage recorder. Datum of gage is 355.41 ft (108.329 m) above mean sea level. Prior to March 1922, nonrecording gage and July 24, 1923 to July 18, 1936, water-stage recorder, at site 0.2 mi (0.3 km) upstream at different datums.

REMARKS.--Records fair prior to Jan. 25 and poor thereafter. Diurnal fluctuation at medium and low flow caused by powerplants above station.

AVERAGE DISCHARGE.--64 years (1910-21, 1923-76), 933 ft³/s (26.42 m³/s), 24.82 in/yr (630.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,400 ft³/s (1,570 m³/s) Dec. 31, 1948, gage height, 21.15 ft (6.447 m), from highwater mark in gage house, from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of peak flow over downstream dams and contracted-opening measurements at gage heights 17.8 ft (5.42 m) and 21.15 ft (6.447 m); minimum, 24 ft³/s (0.68 m³/s) Sept. 14, 1913; minimum daily, 30 ft³/s (0.85 m³/s) Sept. 14, 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,400 ft³/s (210 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	1530	8,370 237	8.87 2.704	May 20	2230	†12,000 340	--
Jan. 28	--	†22,000 620	ice jam	July 1	0145	†9,400 270	--
Apr. 1	2230	†10,000 280	--	Aug. 10	2100	*†25,000 710	--

† About.

Minimum daily discharge, 192 ft³/s (5.44 m³/s) July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	982	1760	600	2400	3120	5010	1350	1070	4440	2280	700
2	1180	863	1770	700	3000	2700	5790	2490	1070	1350	1800	600
3	1050	889	1450	700	2900	2310	3210	1920	898	972	854	500
4	935	991	1250	540	2000	2230	2420	1890	786	713	598	460
5	863	963	1130	450	1700	3860	2010	1530	721	604	489	420
6	794	836	1190	440	1600	4910	1700	1340	654	584	421	400
7	713	786	1270	450	1500	3260	1550	1370	880	495	863	380
8	654	880	1040	450	1400	2530	1410	1680	729	483	1690	360
9	625	1010	1010	450	1300	2080	1280	1330	598	675	944	350
10	591	907	1410	520	1200	1990	1170	1170	526	483	11200	520
11	935	1190	1540	620	1100	1880	1180	1090	532	396	8880	1400
12	2870	1040	1200	700	1100	1660	1140	3040	526	632	3090	780
13	2250	2790	1100	700	1000	1850	1040	2470	454	1620	2800	560
14	1970	3460	1090	700	1000	1990	963	1840	421	972	2300	490
15	1570	2620	1110	500	960	1700	926	2800	459	501	2000	450
16	1490	2130	1260	450	900	1400	889	1970	411	371	2100	420
17	1300	1890	1050	400	800	1140	845	1650	661	347	1500	480
18	5200	1780	991	400	1780	1000	811	1790	577	298	1300	500
19	4730	1710	690	380	4560	1220	737	7540	427	268	1100	520
20	6180	1600	611	370	3130	1610	690	10700	385	230	1000	430
21	3840	1960	786	370	2290	2680	639	8840	370	265	900	400
22	2790	3180	900	380	5610	4330	618	6600	350	283	800	470
23	2210	2040	1000	400	5060	2250	646	4510	370	234	700	450
24	1860	1740	1100	500	3130	1880	591	3400	400	276	640	420
25	1700	1570	1300	1300	2740	2000	729	2660	450	265	620	400
26	1660	1420	1500	2000	2730	2020	1540	2260	400	197	600	1000
27	1460	1540	1700	18000	3320	2070	1330	1900	350	192	1200	2000
28	1320	1780	1000	17000	3620	4960	1500	1590	350	258	2800	1100
29	1220	1440	840	7000	2850	2740	1650	1360	500	227	1500	900
30	1140	1300	700	3500	---	2080	1350	1220	1220	416	900	640
31	1060	---	600	2800	---	1890	---	1140	---	338	800	---
TOTAL	57480	47287	35348	63770	66680	73340	45364	86440	17545	19385	58669	18500
MEAN	1854	1576	1140	2057	2299	2366	1512	2788	585	625	1893	617
MAX	6180	3460	1770	18000	5610	4960	5790	10700	1220	4440	11200	2000
MIN	591	786	600	370	800	1000	591	1090	350	192	421	350
CFSM	3.64	3.09	2.24	4.03	4.51	4.64	2.96	5.47	1.15	1.23	3.71	1.21
IN.	4.19	3.45	2.58	4.65	4.86	5.35	3.31	6.31	1.28	1.41	4.28	1.35

CAL YR 1975 TOTAL 549225 MEAN 1505 MAX 10500 MIN 237 CFSM 2.95 IN 40.06
WTR YR 1976 TOTAL 589808 MEAN 1611 MAX 18000 MIN 192 CFSM 3.16 IN 43.02

Note.--Doubtful or no gage-height record Jan. 26 to Sept. 30.

HUDSON RIVER BASIN

01335769 HUDSON RIVER AT WATER TREATMENT PLANT AT WATERFORD, NY

LOCATION.--Lat 42°47'38", long 73°40'24", Saratoga County, Hydrologic Unit 02020003, at raw water tap for water supply intake in Waterford water treatment plant, 0.3 mi (0.5 km) upstream from bridge on U.S. Highway 4 in Waterford.

DRAINAGE AREA.--4,600 mi² (11,900 km²), approximately.

PERIOD OF RECORD.--Water years 1969 to current year.

REMARKS.--From April 1969 to March 1975, data collected at this site (New York State Water Quality Surveillance Network station 11 0002) were published as station 01335770, "Hudson River At Waterford". Water-discharge data are based on records for 01357499 diversion from Mohawk River at Crescent Dam; 01357500 Mohawk River at Cohoes, and 01358000 Hudson River at Green Island.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)
JAN 29...	1400	93	7.1	45	13	13	3.0	4.2

DATE	DIS-SOLVED PO-TASIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
JAN 29...	1.1	39	0	32	11	7.1	4.9	64

DATE	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN 06...	--	--	500	--	48	--	--	--	--	20
JAN 06...	14	--	360	--	6	--	40	--	--	--
JAN 15...	15	--	650	--	52	--	50	--	--	--
JAN 25...	40	--	490	--	28	--	40	--	--	--
JAN 26...	24	--	270	--	31	--	30	--	--	--
JAN 27...	250	--	8400	--	62	--	200	--	--	--
JAN 28...	40	--	8200	--	58	--	370	--	--	--
JAN 29...	14	0	4600	50	16	4	150	40	<.5	--
FEB 20...	7	1	1500	--	11	2	80	--	--	--
MAR 30...	28	--	1500	--	10	--	60	--	--	--
APR 28...	7	3	500	--	5	2	30	--	--	--
MAY 21...	30	--	1600	--	8	--	70	--	--	--

HUDSON RIVER BASIN

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01335769 HUDSON RIVER AT WATER TREATMENT PLANT AT WATERFORD, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)
JAN							
06...	.0	--	.00	.0	.00	.00	.00
28...	3.6	--	.00	.0	.00	.00	.00
29...	.0	--	.00	.0	.00	.00	.00
FEB							
20...	.0	--	.00	.0	.00	.00	.00
MAR							
30...	1.9	.00	.00	.0	.00	.00	.00
APR							
28...	.5	.00	.00	.0	.00	.00	.00
MAY							
21...	.2	.00	.00	.0	.00	.00	.00

DATE	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL TOX- APHENE (UG/L)
JAN						
06...	.00	.00	.00	.00	.00	0
28...	.00	.00	.00	.00	.00	0
29...	.00	.00	.00	.00	.00	0
FEB						
20...	.00	.00	.00	.00	.00	0
MAR						
30...	.00	.00	.00	.00	.00	0
APR						
28...	.00	.00	.00	.00	.00	0
MAY						
21...	.00	.00	.00	.00	.00	0

HUDSON RIVER BASIN

01335770 HUDSON RIVER AT WATERFORD, NY

LOCATION.--Lat 42°47'19", long 73°40'28", at Saratoga-Rensselaer County line, Hydrologic Unit 02020003, at bridge on U.S. Highway 4 in Waterford, and 0.4 mi (0.6 km) upstream from first branch of Mohawk River.

DRAINAGE AREA.--4,620 mi² (11,966 km²).

PERIOD OF RECORD.--Water years 1975 to current year.

REMARKS.--New York State Water Quality Surveillance Network station 11 0003. Prior to April 1975, sampling site was at station 01335769, "Hudson River at Water Treatment Plant at Waterford" at lat 42°47'38", long 73°40'24", 0.3 mi (0.5 km) upstream (New York State Water Quality Surveillance Network station 11 0002). Water-discharge data are based on records for 01357499 diversion from Mohawk River at Crescent Dam, 01357500 Mohawk River at Cohoes, and 01358000 Hudson River at Green Island.

COOPERATION.--Samples were collected by U.S. Geological Survey personnel except those that were collected by New York State Department of Environmental Conservation personnel. (Sampling location is indicated on each page.)

Samples were collected by New York State Department of Environmental Conservation personnel in vicinity of bridge on U.S. Highway 4

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TEMP- RITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)
OCT										
20...	1315	E35800	8.2	11.5	65	10.4	94	31	--	--
NOV										
18...	1310	E18600	8.7	9.0	5	11.6	100	21	17	2.5
JAN										
06...	1400	E7790	7.5	1.0	6	14.4	101	16	--	--
FEB										
10...	0930	E18670	8.2	.5	4	14.6	101	12	17	3.8
MAR										
03...	1100	E13420	7.4	.5	6	16.4	113	15	--	--
30...	0930	E26900	7.6	5.0	10	12.8	100	18	--	--
APR										
26...	1330	E24100	7.5	9.0	5	11.6	91	21	--	--
MAY										
24...	1300	E29300	7.6	12.5	4	12.0	112	20	15	2.3
JUL										
01...	1300	E25100	7.4	22.0	--	8.5	98	--	--	--
23...	1040	E4170	7.3	23.0	4	7.4	85	22	--	--

DATE	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINE- ITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
OCT									
20...	--	--	--	--	--	--	--	198	.27
NOV									
18...	3.6	1.0	38	0	31	13	10	100	.14
JAN									
06...	--	--	--	--	--	--	--	163	.22
FEB									
10...	5.8	.9	54	0	44	15	11	114	.16
MAR									
03...	--	--	--	--	--	--	--	101	.14
30...	--	--	--	--	--	--	--	100	.14
APR									
26...	--	--	--	--	--	--	--	97	.13
MAY									
24...	3.3	.6	36	0	30	10	7.2	91	.12
JUL									
01...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	127	.17

E Estimated.

HUDSON RIVER BASIN

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01335770 HUDSON RIVER AT WATERFORD, NY--Continued

Samples were collected by New York State Department of Environmental Conservation
personnel in vicinity of bridge on U.S. Highway 4

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)
OCT 20...	142	.29	.09	.74	.83	1.1	.23	1	0
NOV 18...	10	.28	.06	.35	.41	.69	.05	1	3
JAN 06...	9	.50	.29	.40	.69	1.2	.03	1	3
FEB 10...	4	.66	.17	.13	.30	.96	.04	0	1
MAR 03...	11	.53	.14	.18	.32	.85	.05	0	0
30...	15	.49	.09	.34	.43	.92	.06	0	0
APR 26...	14	.50	.20	.48	.68	1.2	.04	0	0
MAY 24...	11	.38	.11	.44	.55	.93	.09	0	0
JUL 01...	--	--	--	--	--	--	--	--	--
23...	4	.39	.26	.49	.75	1.1	.05	0	1

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT 20...	20	4300	210	.4	70	6.8	0	.000	.000
NOV 18...	20	400	300	<.5	100	5.4	0	.000	.000
JAN 06...	20	400	1600	<.5	810	6.7	1	.000	.000
FEB 10...	10	250	110	.8	20	5.6	1	.000	.000
MAR 03...	10	390	4	<.5	30	5.4	2	.000	.000
30...	0	700	4	<.5	20	5.8	0	.000	.000
APR 26...	10	710	8	<.5	20	7.3	2	.000	.000
MAY 24...	10	440	270	<.5	30	6.3	0	--	--
JUL 01...	29	3900	11	--	--	--	--	--	--
23...	10	440	7	<.5	10	9.1	1	.000	.000

HUDSON RIVER BASIN

01335770 HUDSON RIVER AT WATERFORD NY--Continued

Samples were collected by U.S. Geological Survey personnel at bridge on U.S. Highway 4

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL PCB (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLORDANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL TOX- APHENE (UG/L)
OCT												
10...	.3	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
20...	.9	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
NOV												
07...	.0	.00	.5	.00	.00	.00	.00	.00	.00	.00	.00	0
20...	.0	.00	.0	.50	.00	.00	.00	.00	.00	.00	.00	0
DEC												
05...	.0	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
18...	<.1	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
MAR												
12...	.0	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
APR												
16...	43	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
MAY												
06...	.6	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
14...	.4	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
20...	.6	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
JUN												
11...	1.2	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
25...	1.1	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
JUL												
01...	.0	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
16...	.2	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
30...	.7	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0
AUG												
10...	1.0	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	0

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT							
03...	0900	--	--	--	9	--	620
10...	0730	--	--	--	0	4	300
17...	0915	--	--	--	10	--	430
20...	1045	--	--	--	10	5	3600
31...	0745	--	--	--	10	--	430
NOV							
07...	0830	--	--	--	10	10	350
14...	0915	--	--	--	20	--	1000
20...	1230	--	--	--	12	5	290
26...	1030	--	--	--	10	--	280
DEC							
05...	1300	--	--	--	10	0	230
11...	0930	--	--	--	20	--	40
18...	0900	--	--	--	7	3	350
MAR							
12...	1100	--	--	--	6	2	240
22...	1330	--	--	--	14	3	1400
31...	1300	0	0	0	4	2	750
APR							
02...	1000	0	2	0	24	3	6700
04...	1000	0	1	0	10	3	1500
05...	1400	--	--	--	25	10	980
16...	1000	--	--	--	1	1	260
MAY							
06...	0900	--	--	--	7	3	340
14...	1330	--	--	--	10	0	430
20...	0900	--	--	--	10	3	3600
28...	0900	--	--	--	0	--	340
28...	1455	--	--	--	36	--	320
JUN							
11...	0900	--	--	--	0	1	290
25...	0730	--	--	--	0	0	430
JUL							
01...	1300	--	--	--	29	6	3900
16...	0900	--	--	--	0	0	600
22...	0800	--	--	--	1	--	350
30...	0900	--	--	--	40	0	420
AUG							
10...	2400	--	--	--	20	0	8400

HUDSON RIVER BASIN

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01335770 HUDSON RIVER AT WATERFORD NY--Continued

Samples were collected by U.S. Geological Survey personnel at bridge on U.S. Highway 4

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT							
03...	--	5	--	50	--	--	--
10...	--	23	11	40	--	--	--
17...	--	11	--	50	--	--	--
20...	--	12	2	160	--	--	--
31...	--	7	--	50	--	--	--
NOV							
07...	--	5	9	40	--	--	--
14...	--	6	--	50	--	--	--
20...	--	4	5	30	--	--	--
26...	--	4	--	30	--	--	--
DEC							
05...	--	4	4	20	--	--	--
11...	--	7	--	30	--	--	--
18...	--	2	4	30	--	--	--
MAR							
12...	--	5	2	30	--	--	--
22...	--	6	1	70	--	--	--
31...	40	9	2	50	20	20	10
APR							
02...	50	52	1	230	50	90	10
04...	60	12	2	70	20	30	0
05...	--	11	1	50	--	--	--
16...	--	4	3	30	--	--	--
MAY							
06...	--	5	2	30	--	--	--
14...	--	6	1	30	--	--	--
20...	--	8	3	170	--	--	--
28...	--	5	--	30	--	--	--
28...	--	8	--	30	--	--	--
JUN							
11...	--	5	5	30	--	--	--
25...	--	6	8	40	--	--	--
JUL							
01...	--	11	1	190	--	--	--
16...	--	5	3	50	--	--	--
22...	--	5	--	40	--	--	--
30...	--	6	9	30	--	--	--
AUG							
10...	--	21	3	400	--	--	--

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDIMENT (MG/L)	SUS-PENDED SEDIMENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	DIS-CHARGE (CFS)	SUS-PENDED SEDIMENT (MG/L)	SUS-PENDED SEDIMENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						APR					
03...	0900	E11300	13	E397	82	16...	1000	E17000	20	E918	--
10...	0730	E7490	6	E121	100	MAY					
17...	0915	E11000	13	E386	89	06...	0900	F15700	13	E551	64
20...	1045	E38100	16	E1650	0	14...	1330	F17200	13	E604	78
31...	0745	E12700	12	E411	49	20...	0900	F38400	145E15000		89
NOV						28...	0900	F19400	8	E419	98
11...	0830	E12900	9	E313	46	JUN					
14...	0915	E21600	37	E2160	73	11...	0900	E9310	23	E578	57
20...	1230	E15200	8	E328	56	18...	0900	E8870	6	E144	95
26...	1030	F16100	8	E348	40	25...	0730	E8930	10	E241	99
DEC						JUL					
05...	1300	F12700	4	E137	43	01...	1300	F25100	129	E8740	95
11...	0930	F15600	4	E168	22	09...	1400	E8520	32	E736	96
18...	0900	F13700	2	E74	39	16...	0900	F10600	18	E515	97
MAR						22...	0800	E9550	7	E180	95
12...	1100	F14200	6	E230	67	30...	0900	E8590	7	E162	90
15...	1000	E10300	5	E139	90	AUG					
22...	1330	E21900	45	F2660	88	10...	2325	F30900	257E21400		94
23...	--F19100		47	E2420	70	10...	2350	F31500	294E25000		96
31...	1300	E26700	28	E2020	62	10...	2400	F31800	289E24800		96
APR						11...	0045	F32500	373E32700		94
04...	1000	E45700	69	E8510	63						
05...	1400	E36800	45	E4470	58						

E Estimated.

HUDSON RIVER BASIN

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, NY

LOCATION.--Lat 43°15'52", long 75°26'12", Oneida County, Hydrologic Unit 02020004, on right bank at Rome Fish Hatchery, 1.0 mi (1.6 km) downstream from Delta Dam, and 4.0 mi (6.4 km) north of Rome. Water-quality sampling site at discharge station.

DRAINAGE AREA.--150 mi² (389 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1921 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WSP 851: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 474.00 ft (144.475 m) above mean sea level (Barge Canal datum). Prior to Jan. 24, 1937, nonrecording gage at site 200 ft (61 m) downstream at same datum.

REMARKS.--Records good. During canal navigation season, water is diverted from Black River through Forestport feeder and Black River Canal (flowing south) into basin above Delta Reservoir (see station 04252000). Flow regulated by Delta Reservoir (usable capacity, 2,800 mil ft³ or 79.0 hm³) except for Oct. 1-7, Mar. 28 to June 9, June 17-July 22, when reservoir spilled. Small quantity of water diverted from Delta Reservoir for fish hatchery use and later returned to river, part above and part below station.

AVERAGE DISCHARGE.--55 years, 378 ft³/s (10.70 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,560 ft³/s (242 m³/s) Oct. 2, 1945, gage height, 11.18 ft (3.408 m); minimum, 30 ft³/s (0.85 m³/s) Sept. 27, 1945, gage height, 0.65 ft (0.198 m); minimum daily, 45 ft³/s (1.27 m³/s) Jan. 17, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 6,190 ft³/s (175 m³/s) Apr. 1, gage height, 9.74 ft (2.969 m); minimum, 174 ft³/s (4.93 m³/s) Sept. 16, gage height, 1.79 ft (0.546 m); minimum daily, 213 ft³/s (6.03 m³/s) Mar. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	433	452	418	645	251	1300	4800	385	273	460	256	270
2	375	452	353	642	255	801	2990	575	256	388	229	250
3	319	447	350	640	253	488	1620	571	338	341	226	237
4	345	467	346	636	251	456	1090	524	307	320	224	234
5	334	460	452	635	295	519	823	438	259	261	224	234
6	361	457	697	633	326	487	694	361	240	248	224	234
7	311	456	684	629	326	460	627	452	287	323	299	234
8	296	459	673	626	326	454	579	623	267	278	270	234
9	296	461	671	623	384	452	497	490	245	320	290	234
10	328	462	688	620	420	451	431	388	237	275	273	240
11	345	465	677	617	423	450	456	335	237	245	270	237
12	335	467	672	536	426	398	420	482	237	335	267	237
13	327	496	669	501	424	287	501	467	234	385	275	234
14	350	477	669	406	426	289	467	392	237	358	273	234
15	398	471	675	371	423	252	417	751	264	305	267	240
16	506	471	675	369	431	214	559	619	218	273	267	267
17	713	468	665	367	457	214	497	475	368	388	259	242
18	1040	465	664	364	479	213	431	427	388	358	253	237
19	1070	463	663	364	519	298	395	587	310	290	250	242
20	1180	463	662	363	582	530	348	1970	296	248	250	245
21	1060	504	661	361	790	592	302	1550	351	234	242	245
22	709	482	661	361	885	735	424	953	305	226	242	245
23	546	471	657	293	1290	896	471	661	296	224	248	242
24	543	467	655	237	1640	773	409	501	261	226	273	242
25	543	467	652	237	1780	675	478	406	539	224	273	242
26	540	465	652	237	1880	813	978	442	583	224	270	245
27	539	468	653	246	1900	1050	973	516	493	224	270	264
28	532	471	652	256	1870	1190	755	427	388	224	270	250
29	527	467	650	256	1840	1200	587	335	284	224	273	364
30	479	470	648	253	---	1120	463	278	287	224	270	903
31	455	---	647	251	---	1200	---	245	---	224	270	---
TOTAL	16135	14011	19211	13575	21552	19257	24482	17626	9285	8877	8047	8058
MEAN	520	467	620	438	743	621	816	569	310	286	260	269
MAX	1180	504	697	645	1900	1300	4800	1970	583	460	299	903
MIN	296	447	346	237	251	213	302	245	218	224	224	234

CAL YR 1975 TOTAL 152420 MEAN 418 MAX 3300 MIN 181 MEAN † 402 CFSM † 2.68 IN † 36.37
WTR YR 1976 TOTAL 180116 MEAN 492 MAX 4800 MIN 213 MEAN † 468 CFSM † 3.12 IN † 42.49

† Adjusted for change in contents in Delta Reservoir and diversion from Black River basin.

HUDSON RIVER BASIN

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01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961, 1962, 1964-72, 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1960 to September 1962, October 1963 to December 1965, September 1966 to September 1972, April 1974 to current year.

INSTRUMENTATION.--Temperature recorder since September 1966.

REMARKS.--Prior to May 1964 water-temperature measurements were made at Delta Dam, 1 mile upstream from present site.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 24.5°C June 23, 24, 1976; minimum (water years 1961, 1962, 1965, 1967, 1969, 1971, 1972, 1975, 1976), freezing point on many days during winter periods 1961, 1962, 1967, 1971 and 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 24.5°C June 23, 24; minimum, 1.0°C on many days in February and March.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	16.0	10.5	10.5	5.5	5.0	2.0	2.0	1.5	1.5	1.0	1.0
2	16.0	15.5	10.5	10.5	5.0	4.5	2.0	2.0	1.5	1.5	1.0	1.0
3	16.0	15.5	10.5	10.0	5.0	4.5	2.0	2.0	1.5	1.5	1.0	1.0
4	16.0	15.0	10.5	10.0	4.5	3.5	2.0	2.0	1.5	1.5	1.0	1.0
5	15.5	15.0	10.5	10.5	4.0	3.5	2.0	2.0	1.5	1.5	1.5	1.0
6	15.0	14.5	10.5	10.0	3.5	3.5	2.0	2.0	1.5	1.5	1.5	1.5
7	15.5	14.5	10.0	10.0	3.5	3.5	2.0	2.0	1.5	1.5	1.5	1.5
8	15.0	14.0	10.0	10.0	3.5	3.5	2.0	1.5	1.5	1.5	1.5	1.5
9	14.5	14.0	10.5	10.0	3.5	3.5	1.5	1.5	1.5	1.5	1.5	1.5
10	14.0	14.0	10.5	10.5	3.5	3.0	1.5	1.5	1.5	1.5	1.5	1.5
11	14.5	14.0	11.0	10.5	3.0	2.5	1.5	1.5	1.5	1.0	2.0	1.5
12	14.0	14.0	11.0	11.0	2.5	2.5	1.5	1.5	1.0	1.0	2.0	2.0
13	14.0	14.0	11.0	10.5	2.5	2.5	1.5	1.5	1.0	1.0	2.0	2.0
14	14.0	14.0	10.5	10.0	2.5	2.5	1.5	1.5	1.0	1.0	2.0	2.0
15	14.0	13.5	10.0	9.5	2.5	2.5	1.5	1.5	1.0	1.0	3.0	2.0
16	14.0	14.0	9.5	9.0	2.5	2.5	1.5	1.5	1.0	1.0	2.0	2.0
17	14.0	13.5	9.0	9.0	2.5	2.5	1.5	1.5	1.0	1.0	2.0	2.0
18	13.5	13.0	9.0	8.5	2.5	2.5	1.5	1.5	1.0	1.0	2.5	2.0
19	13.0	13.0	8.5	8.0	2.5	2.5	1.5	1.5	1.0	1.0	2.5	2.0
20	13.0	13.0	8.0	8.0	2.5	2.0	1.5	1.5	1.0	1.0	3.0	2.0
21	13.0	12.0	8.0	7.5	2.0	2.0	1.5	1.5	1.0	1.0	3.0	3.0
22	12.0	11.5	8.0	7.5	2.0	2.0	1.5	1.5	1.0	1.0	3.0	3.0
23	11.5	11.0	7.5	7.0	2.0	2.0	1.5	1.5	1.0	1.0	3.0	3.0
24	11.5	11.0	7.5	7.0	2.0	2.0	1.5	1.5	1.0	1.0	3.0	3.0
25	11.5	11.5	7.0	7.0	2.0	2.0	1.5	1.5	1.0	1.0	3.0	3.0
26	12.0	11.5	7.0	6.5	2.0	2.0	1.5	1.5	1.0	1.0	3.0	3.0
27	12.0	11.5	6.5	6.5	2.0	2.0	1.5	1.5	1.0	1.0	3.0	3.0
28	12.0	11.5	6.5	5.5	2.0	2.0	1.5	1.5	1.0	1.0	3.0	3.0
29	11.5	11.5	5.5	5.5	2.0	2.0	1.5	1.5	1.0	1.0	3.0	3.0
30	11.5	11.0	5.5	5.5	2.0	2.0	1.5	1.5	---	---	3.0	3.0
31	11.0	10.5	---	---	2.0	2.0	1.5	1.5	---	---	3.0	3.0
MONTH	16.5	10.5	11.0	5.5	5.5	2.0	2.0	1.5	1.5	1.0	3.0	1.0

HUDSON RIVER BASIN

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.0	3.0	9.5	8.0	16.0	15.0	22.0	21.5	16.0	15.0	19.5	19.0
2	3.0	3.0	9.5	8.5	16.5	15.0	21.5	21.0	17.0	15.0	20.0	19.0
3	3.0	3.0	9.5	9.0	16.5	13.5	21.0	20.5	17.0	15.0	20.0	18.5
4	3.5	3.0	9.5	9.0	14.0	11.5	21.5	20.5	18.0	16.0	19.5	19.0
5	3.5	3.5	9.5	9.0	13.0	11.0	21.5	20.0	18.0	16.0	19.5	19.0
6	4.0	3.5	10.5	9.0	12.5	11.5	23.5	18.5	17.5	16.5	20.0	18.5
7	5.0	4.0	10.0	9.5	13.5	11.5	18.5	15.0	17.0	16.5	19.5	18.5
8	4.5	4.0	10.0	9.5	14.0	12.0	15.0	14.5	17.5	17.0	20.0	18.5
9	5.5	4.5	10.5	9.5	13.0	11.5	16.5	15.0	17.5	17.0	19.5	18.5
10	5.5	5.0	11.0	9.5	13.0	11.0	15.5	14.0	18.5	17.5	18.5	18.5
11	5.5	5.0	11.0	10.0	12.5	11.5	14.5	13.5	19.0	17.5	18.5	18.0
12	5.5	5.0	10.5	10.0	13.5	11.5	17.0	13.5	18.5	17.5	19.0	18.0
13	5.5	5.0	11.0	10.0	13.5	11.5	17.0	17.0	18.5	18.0	19.0	17.5
14	6.0	5.0	11.5	10.5	13.0	11.5	17.0	16.0	19.0	18.0	18.0	17.0
15	5.5	5.0	12.5	11.0	13.5	12.0	16.5	15.0	18.5	18.0	17.0	17.0
16	6.5	5.0	12.0	10.5	14.0	12.5	15.0	14.5	19.5	18.0	17.5	17.0
17	9.0	6.0	13.5	10.5	18.5	12.5	17.5	15.5	20.5	19.0	17.5	16.5
18	9.0	6.0	13.5	12.0	18.0	17.0	17.5	16.0	20.5	19.0	17.5	16.5
19	9.5	6.0	12.5	11.0	17.0	15.5	16.5	15.0	20.5	19.0	17.5	16.5
20	10.0	7.5	11.0	11.0	16.5	15.0	15.5	14.0	20.0	18.5	17.0	16.5
21	9.5	6.0	11.0	10.5	21.0	16.5	15.5	14.0	20.0	19.0	17.0	17.0
22	8.5	6.0	11.5	11.0	22.5	21.0	15.0	13.0	20.0	18.5	17.0	16.5
23	8.5	7.5	11.5	11.0	24.5	21.0	13.0	12.5	20.5	19.0	17.5	17.0
24	8.5	7.0	11.5	11.0	24.5	22.5	15.0	13.0	20.5	19.0	17.5	17.0
25	8.0	7.5	11.5	10.5	24.0	22.5	15.5	13.0	20.0	19.0	18.0	16.5
26	8.5	8.0	12.0	11.5	24.0	23.0	16.0	13.5	20.0	19.0	16.5	16.0
27	8.5	8.0	13.5	11.5	23.5	23.0	15.0	14.0	20.0	19.0	16.0	16.0
28	8.5	8.0	14.5	12.0	24.0	23.0	16.5	14.5	19.0	19.0	16.5	15.5
29	9.0	8.5	14.5	12.0	23.5	21.5	15.0	14.5	20.0	19.0	15.5	15.5
30	10.0	8.5	14.5	13.5	21.5	21.0	15.0	15.0	20.0	19.0	15.5	15.0
31	---	---	15.5	14.5	---	---	16.0	15.0	20.0	18.5	---	---
MONTH	10.0	3.0	15.5	8.0	24.5	11.0	23.5	12.5	20.5	15.0	20.0	15.0

HUDSON RIVER BASIN

65

01346000 WEST CANADA CREEK AT KAST BRIDGE, NY

LOCATION.--Lat 43°04'08", long 74°59'26", Herkimer County, Hydrologic Unit 02020004, on left bank 600 ft (183 m) downstream from bridge on old State Highway 28 at Kast Bridge, 1.2 mi (1.9 km) downstream from North Creek, 2.2 mi (3.5 km) north of Herkimer, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--556 mi² (1,440 km²).

PERIOD OF RECORD.--May 1905 to December 1906 (gage height and discharge measurements only), January 1907, April to December 1907, March 1908 to December 1909, April 1910 to December 1913, April to December 1914, April 1915 to January 1917, April to November 1917, April to June 1918, October 1920 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 438.99 ft (133.804 m) above mean sea level. Prior to Sept. 18, 1920, nonrecording gage at former highway bridge 500 ft (152 m) upstream at different datum.

REMARKS.--Records fair. Since March 1914, flow regulated by Hinckley Reservoir, 31 mi (50 km) above station (usable capacity, 3,320 mil ft³ or 94.0 hm³), except for Oct. 1-9, 21-24, Apr. 18 to July 26, when reservoir spilled. Diurnal fluctuation at low and medium flow caused by powerplants above station. Diversion at Trenton Falls, 26 mi (42 km) above station, by Ninemile feeder since 1915 during canal navigation season. Diversion from Hinckley Reservoir for Utica water supply returned to Mohawk River.

AVERAGE DISCHARGE.--56 years (1920-76), 1311 ft³/s (37.13 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,300 ft³/s (660 m³/s) Mar. 26, 1913, from reports of State Engineer and Surveyor; maximum gage height, 10.47 ft (3.191 m) probably Feb. 17, 1943, from floodmark in gage well (ice jam); minimum discharge, 20 ft³/s (0.57 m³/s) Sept. 3, 1929, gage height, 0.90 ft (0.274 m); minimum daily, 59 ft³/s (1.67 m³/s) Sept. 2, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,400 ft³/s (379 m³/s) July 11, gage height, 6.80 ft (2.073 m); minimum, 404 ft³/s (11.4 m³/s) June 5, 6, gage height, 2.07 ft (0.631 m); minimum daily, 695 ft³/s (19.7 m³/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1690	1670	1960	1160	1000	4480	7130	2120	1180	2020	1120	910
2	1970	1650	1270	1150	900	3200	4620	2360	1560	1800	999	1060
3	1290	1800	1630	1140	820	2980	3800	2740	1300	1970	887	860
4	1220	2260	1210	1130	800	2940	3430	2900	1080	1510	924	935
5	1060	1900	1230	1290	800	4650	3360	2600	1020	1220	974	923
6	1080	1610	1910	1120	840	4140	3360	2090	884	1120	1040	822
7	966	1650	1770	1150	800	3110	3290	1900	2290	1100	1470	985
8	910	1690	1340	1210	800	2910	3170	2100	2230	1050	1280	910
9	1130	1770	1380	1380	880	2740	3200	1980	2200	1190	1540	786
10	1120	1760	2130	1390	940	2630	3110	1810	1350	1080	1420	872
11	1530	2800	1650	1220	900	2460	3170	1320	1540	2100	1160	885
12	1770	2300	1470	1360	860	2080	2980	2120	1050	3080	1020	847
13	1380	2700	1440	1400	860	2160	2640	2330	820	2680	1210	847
14	2080	3200	1600	1200	900	2120	2190	2220	864	2530	1170	847
15	1730	2800	1650	1200	900	1960	1360	3110	1890	1840	1140	860
16	1920	2100	1730	1300	960	1240	2160	2770	1550	1990	1120	695
17	1740	1700	1410	1000	1300	1180	2020	2360	2200	1900	1060	810
18	3020	1600	1280	860	2200	1140	1890	1920	2570	2390	985	860
19	3560	1600	1230	920	4280	1190	3320	2470	1990	1880	887	872
20	3230	1700	1210	840	2570	2180	4290	6810	1590	1430	992	786
21	2300	2100	1310	860	2040	4440	3430	4820	2080	1240	1020	700
22	2150	3600	1120	940	4200	3430	2670	4560	1480	1080	1050	780
23	2060	2500	1210	820	2770	2930	2600	4420	1650	959	1000	760
24	1840	2000	1210	800	3090	3380	2340	3780	1480	1030	984	747
25	1820	2290	1230	780	3090	3670	2460	3300	1930	896	968	713
26	1770	2190	1380	860	3480	3500	3710	2530	3120	849	978	766
27	1850	2440	1480	1100	4710	3880	3760	2540	2540	904	968	1580
28	1560	2440	1340	1700	3880	5120	3160	2010	1930	865	1070	1010
29	1720	2250	1110	2400	3480	3530	2680	1670	1340	959	1110	802
30	1660	2290	1110	1800	---	3430	2500	1420	1780	961	1070	898
31	1700	---	1280	1300	---	3480	---	1140	---	968	972	---
TOTAL	54826	64360	44280	36780	55050	92280	93800	82220	50488	46591	33588	26128
MEAN	1769	2145	1428	1186	1898	2977	3127	2652	1683	1503	1083	871
MAX	3560	3600	2130	2400	4710	5120	7130	6810	3120	3080	1540	1580
MIN	910	1600	1110	780	800	1140	1360	1140	820	849	887	695
CAL YR 1975	TOTAL	551404	MEAN	1511	MAX	6870	MIN	257				
WTR YR 1976	TOTAL	680391	MEAN	1859	MAX	7130	MIN	695				

01347000 MOHAWK RIVER NEAR LITTLE FALLS, NY

LOCATION.--Lat 43°00'52", long 74°46'48", Herkimer County, Hydrologic Unit 02020004, on left bank 1,800 ft (549 m) downstream from Rocky Rift Dam, 2.1 mi (3.4 km) upstream from East Canada Creek, and 4.5 mi (7.2 km) southeast of city of Little Falls.

DRAINAGE AREA.--1,348 mi² (3,491 km²).

PERIOD OF RECORD.--October 1927 to current year.

REVISED RECORDS.--WSP 741: 1929(M), Drainage area. WSP 1302: 1901, 1932(M). WSP 1432: 1928-30.

GAGE.--Water-stage recorder. Datum of gage is 308.84 ft (94.134 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Record fair. Records of daily discharge do not include diversion at Rocky Rift Dam into Erie (Barge) Canal for lockages at Lock 16, near St. Johnsville. Monthly and annual figures of diversion at Rocky Rift Dam are published separately below. During canal navigation season, water is received from Black River basin through Black River Canal flowing south (see station 04252000), and from Chenango River basin through Oriskany Creek feeder. Water is diverted into (or may occasionally be received from) Oswego River basin through summit level of Erie (Barge) Canal between New London and Utica. Diurnal fluctuation caused by powerplants and locks and dams on Erie (Barge) Canal. Regulation by Delta and Hinckley Reservoirs (combined usable capacity, 6,120 mil ft³ or 173 hm³) (see Reservoirs in Hudson River Basin).

AVERAGE DISCHARGE.--49 years, 2,780 ft³/s (78.73 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (river channel only), 27,200 ft³/s (770 m³/s) Mar. 5, 1964, gage height, 18.33 ft 5.587 m, from high-water mark in gage house; minimum (river channel only), 214 ft³/s (6.06 m³/s) Aug. 18, 1949, gage height, 3.75 ft (1.43 m); minimum daily (including canal), probably not less than 463 ft³/s (13.1 m³/s) Sept. 2, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 16,000 ft³/s (450 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 22	1615	17,700 501	14.23 4.337	May 20	1045	*18,000 510	*14.36 4.377
Apr. 1	1500	16,700 473	13.79 4.203				

Minimum discharge (river channel only), 1,010 ft³/s (28.6 m³/s) July 6, Aug. 25, gage height, 5.35 ft (1.631 m); minimum daily (river channel only), 1,340 ft³/s (37.9 m³/s) Sept. 26.

CORRECTIONS.--The diversion for water year 1975 is 10.5 ft³/s; the figure published in WRD NY 75 is incorrect.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3700	2810	4970	3010	2900	12100	12600	4190	2310	5960	2260	1870
2	4310	2680	4480	2850	3150	9720	11800	4660	3170	4140	3140	2370
3	3320	2970	3370	2740	3290	8200	11400	5430	2430	3710	1990	2030
4	2740	3760	3440	2820	3150	6770	9780	5900	2220	2970	1670	1890
5	2420	3740	3370	2840	3100	9990	7980	5100	2020	2550	1650	1910
6	2100	3000	4460	2460	2780	12300	6600	3830	1860	2110	1690	1680
7	2020	2840	5400	2590	2840	10300	5770	3470	6730	2130	2810	1740
8	1860	2750	4290	2600	2640	8280	5290	4090	6450	2090	3470	1730
9	2010	3440	3490	2480	2590	6280	4610	3910	3950	4860	3400	1490
10	2000	3040	4040	2390	2910	5360	4570	3410	2700	2550	3790	1640
11	2410	3960	4360	2420	3120	5080	4660	2630	3070	2410	3000	2170
12	2800	3320	3800	2370	3370	4400	4400	4530	2850	9280	2200	1930
13	2390	5340	3400	2380	3530	4280	4030	4640	2290	7750	2080	1760
14	4060	5730	3350	2480	3740	4330	3490	3990	1990	5980	2800	1650
15	3500	5130	3680	2590	3630	4170	2170	6690	6470	4210	2410	1580
16	3510	4790	4140	2380	4700	3200	4880	6170	5310	2740	2820	1410
17	3350	4730	3540	2460	8130	2900	5490	4340	5010	1800	2220	1700
18	8150	4460	3240	2140	9510	2630	4010	3660	5400	1810	1980	2200
19	8930	3910	2850	1940	14000	2740	4410	5580	3600	2310	1720	1940
20	10200	3430	2810	2090	13200	5360	5490	16100	3150	2440	1720	1730
21	7960	5510	3000	2110	10900	10400	4790	14500	5040	2100	1760	1560
22	6500	6560	2820	2190	14900	10400	4010	12700	4010	1940	1770	1510
23	4410	4990	2740	1940	11800	8570	3950	10000	4460	1740	1690	1430
24	3730	3700	2680	1860	10600	7940	3820	6890	3570	1920	1650	1510
25	3500	3990	2560	1860	9340	7650	4210	5420	3680	1710	1630	1430
26	3340	3730	2950	1840	9460	7080	9400	4700	5640	1500	1640	1340
27	3310	4160	2750	2540	11800	7040	9280	5400	4680	1430	1680	3120
28	2930	5330	3200	4290	11100	9480	8070	4210	3430	1500	2210	3040
29	3030	4530	2810	4430	9840	7630	6470	3180	2520	1530	3200	2430
30	2970	4160	2710	3850	---	6910	5060	2780	3900	1870	2950	2520
31	2780	---	2910	3280	---	6540	---	2430	---	1840	2210	---
TOTAL	120240	122490	107610	80220	196020	218030	182490	174530	113910	92880	71210	56310
MEAN	3879	4083	3471	2588	6759	7033	6083	5630	3797	2996	2297	1877
MAX	10200	6560	5400	4430	14900	12300	12600	16100	6730	9280	3790	3120
MIN	1860	2680	2560	1840	2590	2630	2170	2430	1860	1430	1630	1340
†	19.3	9.99	.22	0	0	0	.99	18.7	18.6	25.8	22.0	19.4

CAL YR 1975 TOTAL 1231562 MEAN 3374 MAX 14200 MIN 780 † 11.0
WTR YR 1976 TOTAL 1535940 MEAN 4197 MAX 16100 MIN 1340 † 11.3

† Diversion, equivalent in cubic feet per second, at Rocky Rift Dam into Erie (Barge) Canal for lockages at Lock 16.

HUDSON RIVER BASIN

67

01348000 EAST CANADA CREEK AT EAST CREEK, NY

LOCATION.--Lat 43°01'00", long 74°44'28", Herkimer County, Hydrologic Unit 0202004, on right bank at village of East Creek, 0.2 mi (0.3 km) downstream from Niagara Mohawk Power Corp. Beardslee powerplant, 1.2 mi (1.9 km) upstream from mouth, and 3.5 mi (5.6 km) northwest of St. Johnsville.

DRAINAGE AREA.--291 mi² (754 km²).

PERIOD OF RECORD.--December 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 335.70 ft (102.321 m) above mean sea level.

REMARKS.--Records poor prior to February 1976 and good thereafter. Extensive diurnal fluctuation and slight regulation caused by powerplants above station. City of Little Falls diverts about 5 ft³ (0.14 m³/s) for municipal supply.

AVERAGE DISCHARGE.--30 years (1947-76), 674 ft³/s (19.09 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft³/s (374 m³/s) Apr. 1, 1976, gage height, 7.40 ft (2.256 m); minimum, 0.6 ft³/s (0.017 m³/s) Sept. 7, 1947; minimum gage height, 0.51 ft (0.155 m) Oct. 13, 14, 1968; minimum daily discharge, 0.7 ft³/s (0.020 m³/s) Oct. 13-16, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 9.0 ft (2.74 m) Oct. 2, 1945, from floodmarks (discharge, 24,000 ft³/s or 680 m³/s, from slope-area measurement of peak flow).

EXTREMES FOR CURRENT YEAR.--Maximum discharge above base of 7,000 ft³/s (200 m³/s), 13,200 ft³/s (374 m³/s) Apr. 1, gage height, 7.40 ft (2.256 m); minimum daily, 26 ft³/s (0.736 m³/s) Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	915	270	1170	270	586	2350	8290	829	802	1550	341	239
2	1030	26	1160	300	586	2230	6670	1220	856	1540	475	192
3	1000	422	1040	246	529	1550	3840	1280	299	1130	213	299
4	692	676	924	355	508	1310	2650	1590	252	599	319	54
5	638	840	692	487	615	1600	2160	1300	162	530	68	54
6	487	742	954	256	454	2500	2040	1020	243	357	177	54
7	403	803	867	285	454	1930	2040	802	1840	613	357	196
8	760	645	934	280	373	1400	1940	829	1980	196	921	114
9	200	434	821	223	522	1150	1640	758	1090	758	740	319
10	250	924	896	321	165	1150	1430	658	650	732	1380	50
11	560	652	1010	37	447	934	1620	357	884	482	1500	52
12	60	795	795	460	397	944	1550	1270	234	2610	990	52
13	560	1300	768	285	557	812	1250	1270	564	2010	793	208
14	1500	1630	638	447	300	717	1230	802	363	1630	758	261
15	1300	1400	600	280	441	708	1500	1920	1230	740	658	213
16	1000	1080	1100	409	700	700	2310	1970	690	874	865	177
17	1200	795	803	295	1180	428	2720	1380	820	1190	650	455
18	1600	812	692	197	1030	653	2670	1200	674	856	352	221
19	1900	751	821	275	1380	700	2150	1160	865	1040	284	158
20	1800	849	593	37	1810	1030	1710	3410	48	482	423	423
21	1900	1030	197	311	1770	1900	1250	3800	1000	442	117	142
22	1700	2310	795	391	1900	3320	1040	3280	758	448	56	114
23	1300	1630	434	87	2260	2630	980	2280	1140	368	489	234
24	940	853	391	133	1870	2050	893	1910	749	155	56	166
25	1000	759	92	181	1700	2230	1040	1370	1050	107	56	52
26	580	1010	623	305	1420	2450	2760	1200	1230	346	58	54
27	760	742	379	316	1590	3040	2410	1510	811	543	58	1110
28	295	963	154	630	2020	5880	1600	1080	592	335	239	1070
29	338	759	501	1000	1750	4010	1390	902	404	380	58	793
30	428	593	615	877	---	2980	1370	635	599	204	204	715
31	447	---	550	615	---	3020	---	265	---	221	56	---
TOTAL	27543	26495	22009	10591	29314	58306	66143	43257	22879	23468	13711	8241
MEAN	888	883	710	342	1011	1881	2205	1395	763	757	442	275
MAX	1900	2310	1170	1000	2260	5880	8290	3800	1980	2610	1500	1110
MIN	60	26	92	37	165	428	893	265	48	107	56	50

CAL YR 1975 TOTAL 310702 MEAN 851 MAX 5230 MIN 26
WTR YR 1976 TOTAL 351957 MEAN 962 MAX 8290 MIN 26

HUDSON RIVER BASIN

01349000 OTSQUAGO CREEK AT FORT PLAIN, NY

LOCATION.--Lat 42°55'46", long 74°37'35", Montgomery County, Hydrologic Unit 02020004, on left bank 25 ft (8 m) downstream from bridge on State Highway 163 in Fort Plain, and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--59.2 mi² (153 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 302.16 ft (92.098 m) above mean sea level. Prior to Oct. 1, 1973, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter periods, which are poor. Occasional diurnal fluctuation at low flow, cause unknown.

AVERAGE DISCHARGE.--27 years, 83.3 ft³/s (2.359 m³/s), 19.11 in.yr (485.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,640 ft³/s (273 m³/s) July 3, 1974, gage height, 9.67 ft (2.947 m), from rating curve extended above 6,000 ft³/s (170 m³/s) on basis of slope-area measurement at gage height of 9.24 ft (2.816 m); minimum, 0.6 ft³/s (0.017 m³/s) Nov. 30, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0730	*6,720 190	*8.45 2.576	June 22	2015	2,810 79.6	6.08 1.853
Feb. 22	1145	5,170 146	7.62 2.323	June 30	1945	6,360 180	8.28 2.524
Apr. 1	1145	3,280 92.9	6.44 1.963				

Minimum discharge, 11 ft³/s (0.312 m³/s) Sept. 10, gage height, 1.26 ft (0.384 m).

DISCHARGE, IN. CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	29	370	80	130	514	1210	61	68	380	27	16
2	56	29	132	46	140	175	238	104	81	117	21	49
3	46	31	92	45	150	118	147	137	41	97	15	25
4	36	48	60	44	130	123	109	118	31	74	13	19
5	31	40	54	36	110	1000	82	72	26	56	12	20
6	29	30	149	30	100	599	70	55	31	44	13	18
7	25	28	125	30	90	219	61	55	459	40	97	15
8	23	30	56	32	100	135	54	52	93	45	113	14
9	21	42	56	30	120	97	50	42	49	90	232	12
10	21	36	100	30	140	95	45	36	38	38	552	18
11	23	42	80	30	200	105	45	36	53	37	113	25
12	49	44	52	30	400	77	37	175	42	151	58	20
13	36	72	47	30	470	115	37	62	29	82	45	16
14	148	490	56	40	680	109	35	48	31	53	53	14
15	56	220	134	70	560	95	33	282	274	41	104	13
16	69	130	113	100	940	65	221	73	73	162	142	13
17	47	98	50	90	1120	71	89	57	103	135	50	46
18	1820	86	44	60	680	72	57	53	48	52	34	36
19	599	74	43	40	1530	70	47	382	34	36	28	35
20	328	70	60	37	495	797	41	974	34	29	25	23
21	156	468	120	38	222	812	36	263	62	27	22	20
22	106	195	120	33	2680	292	37	166	496	27	19	17
23	77	104	90	31	344	148	39	113	516	22	18	16
24	64	79	45	28	319	152	34	84	104	27	16	15
25	58	72	36	29	182	152	162	70	80	21	15	14
26	53	62	40	30	252	135	653	114	55	17	14	22
27	45	128	70	210	583	136	195	106	54	16	19	175
28	41	182	70	200	285	305	116	60	39	19	18	103
29	38	120	54	170	188	120	89	46	31	17	27	44
30	35	100	54	150	---	99	68	40	1530	34	19	32
31	31	---	58	120	---	86	---	39	---	24	15	---
TOTAL	4214	3179	2630	1969	13340	7088	4137	3975	4605	2010	1949	905
MEAN	136	106	84.8	63.5	460	229	138	128	154	64.8	62.9	30.2
MAX	1820	490	370	210	2680	1000	1210	974	1530	380	552	175
MIN	21	28	36	28	90	65	33	36	26	16	12	12
CFSM	2.30	1.79	1.43	1.07	7.77	3.87	2.33	2.16	2.60	1.09	1.06	.51
IN.	2.65	2.00	1.65	1.24	8.38	4.45	2.60	2.50	2.89	1.26	1.22	.57

CAL YR 1975	TOTAL	39596.4	MEAN 108	MAX 1820	MIN 5.3	CFSM 1.82	IN 24.88
WTR YR 1976	TOTAL	50001.0	MEAN 137	MAX 2680	MIN 12	CFSM 2.31	IN 31.42

HUDSON RIVER BASIN

69

01349858 SILVER LAKE OUTLET AT HENSONVILLE, NY

LOCATION.--Lat 42°17'43", long 74°12'49", Greene County, Hydrologic Unit 02020005, on right bank, 10 ft (3 m) downstream from bridge on County Highway 65, 0.4 mi (0.644 km) north of Hensonville, and 0.6 m (0.965 km) south of State Highway 23. Water-quality sampling site at discharge station.

DRAINAGE AREA.--6.59 mi² (17.1 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 1,600 ft (488 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period May to September 1976, 616 ft³/s (17.4 m³/s) Aug. 10, gage height, 5.91 ft (1.801 m) from rating curve extended above 110 ft³/s (3.12 m³/s) on basis of slope-conveyance study; minimum, 0.03 ft³/s (0.001 m³/s) May 11, gage height, 0.94 ft (0.287 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	6.7	20	1.6	1.0
2								---	8.4	8.4	.95	.85
3								---	6.4	6.4	.33	.85
4								---	5.5	5.1	.21	.85
5								---	4.7	4.0	.17	.72
6								.06	4.3	3.1	.17	.61
7								.05	6.4	2.6	.56	.51
8								.05	4.7	3.1	.95	.51
9								.04	3.4	2.4	.56	.51
10								.03	3.1	1.9	249	.51
11								.03	2.6	1.7	52	.61
12								5.1	2.4	1.6	27	.61
13								.33	2.0	1.4	16	.51
14								.10	1.9	1.4	12	.36
15								.07	2.6	1.1	9.1	.36
16								.05	2.2	1.1	6.4	.36
17								.06	1.9	1.2	4.8	.61
18								.14	1.6	1.1	3.5	2.2
19								2.2	1.2	.73	2.8	2.8
20								11	1.1	.56	2.4	3.8
21								6.4	1.1	.43	2.2	1.7
22								2.4	1.9	.33	1.7	1.3
23								1.1	2.2	.33	1.5	.85
24								.21	2.8	.33	1.3	.72
25								.10	2.2	.25	1.2	.51
26								6.7	1.7	.21	1.2	.61
27								14	1.4	.21	3.2	1.0
28								1	1.1	.14	2.0	1.2
29								9.4	2.2	.14	1.5	1.2
30								8.0	11	.25	1.3	1.0
31								7.5	---	.25	1.0	---
TOTAL								---	100.7	71.76	408.60	29.23
MEAN								---	3.36	2.31	13.2	.97
MAX								---	11	20	249	3.8
MIN								---	1.1	.14	.17	.36
CFSM								---	.51	.35	2.00	.15
IN.								---	.57	.41	2.31	.16

HUDSON RIVER BASIN

01349858 SILVER LAKE OUTLET AT HENSONVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to October 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT 29...	1045	11	44	6.5	9.0	11.8	106	86	89	23

DATE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
OCT 29...	12	4	3.1	1.0	2.1	.3	10	0	8

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
OCT 29...	7.4	2.7	.02	.05	.07	.01	.00	80	0

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)
OCT 29...	0	0	0	0	80	1	0	<.5	10	0

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

01350000 SCHOHARIE CREEK AT PRATTSVILLE, NY

LOCATION.--Lat 42°19'15", long 74°26'10", Greene County, Hydrologic Unit 02020005, on left bank 100 ft (30 m) upstream from bridge on State Highway 23 in Prattsville, 0.2 mi (0.3 km) upstream from Schoharie Reservoir, 0.2 mi (0.3 km) downstream from Huntersfield, and 1.6 mi (2.6 km) downstream from Batavia Kill.

DRAINAGE AREA.--236 mi² (611 km²).

PERIOD OF RECORD.--November 1902 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WSP 351: Drainage area. WSP 1432: 1937-38.

GAGE.--Water-stage recorder. Datum of gage is 1,131.57 ft (344.902 m) above mean sea level. Prior to Oct. 1, 1915, nonrecording gage, and Oct. 1, 1915 to July 17, 1936, water-stage recorder, at old highway bridge 80 ft (24 m) upstream, and July 18, 1936 to July 15, 1954, water-stage recorder at site 0.2 mi (0.3 km) downstream, all at datum 1.56 ft (0.475 m) lower than present datum.

REMARKS.--Records fair except those below 75 ft³/s (2.1 m³/s) which are fair, and those for winter periods, which are poor.

AVERAGE DISCHARGE.--73 years, 454 ft³/s (12.86 m³/s), 26.12 in/yr (663.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft³/s (1,560 m³/s) Oct. 16, 1955, gage height, 19.14 ft (5.834 m), from rating curve extended above 16,000 ft³/s (453 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 4.8 ft³/s (0.14 m³/s) Sept. 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,400 ft³/s (120 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 18	1045	6,580	186	Feb. 17	0800	5,950	169
Feb. 3	--	ice jam	*12.37	Aug. 10	1030	*20,800	589
			7.74 2.359				7.47 2.277
			3.770				12.08 3.682

† From rating curve extended above 8,100 ft³/s (229 m³/s) on basis of contracted-opening measurement at gage height 19.14 ft (5.834 m).

Minimum discharge, 33 ft³/s (0.935 m³/s) Aug. 5, 6, 7, gage height, 2.37 ft (0.722 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	353	326	651	290	869	715	1950	651	309	1640	68	70
2	309	300	623	280	1500	644	1620	2030	339	557	74	65
3	267	287	538	260	1100	577	1100	1140	292	386	52	63
4	235	279	466	240	800	820	852	914	247	322	41	59
5	206	255	431	220	700	1630	686	722	224	255	37	56
6	188	235	426	250	560	1490	590	603	209	209	33	54
7	175	220	405	300	480	999	514	557	344	185	53	50
8	158	228	349	280	430	774	454	526	271	202	143	46
9	149	220	344	250	400	600	410	431	209	171	99	43
10	140	224	1150	240	400	580	372	386	181	143	6980	39
11	168	376	852	260	400	532	358	349	165	125	2080	60
12	313	304	610	280	400	430	322	999	158	125	1010	65
13	255	737	532	350	430	489	304	644	137	120	538	56
14	532	813	495	500	500	466	283	495	131	114	442	46
15	391	637	483	430	620	396	263	454	143	107	391	41
16	344	551	466	350	1000	353	1370	391	128	94	320	38
17	309	526	396	300	4110	310	887	442	137	107	255	39
18	3590	507	367	250	1980	400	665	896	120	92	202	56
19	2690	470	300	220	2830	391	570	1370	102	78	168	165
20	2500	442	270	210	1660	679	501	1990	92	70	146	122
21	1540	774	340	220	1120	737	448	1800	109	65	128	87
22	1100	1140	370	240	2160	828	410	1480	175	63	117	78
23	828	744	320	260	1670	590	381	1120	178	57	104	65
24	679	623	280	320	1100	532	349	844	217	59	97	57
25	623	551	500	500	942	483	520	708	158	57	97	52
26	774	489	700	1500	905	448	1700	610	128	48	80	46
27	583	869	480	11600	942	426	1110	557	107	45	112	46
28	489	951	400	4840	905	914	942	460	104	43	143	235
29	437	651	300	1940	759	665	782	386	158	43	114	217
30	396	557	330	1230	---	557	658	353	405	52	102	134
31	353	---	350	828	---	501	---	322	---	52	80	---
TOTAL	21074	15286	14524	29238	31672	19956	21371	24630	5677	5686	14306	2250
MEAN	680	510	469	943	1092	644	712	795	189	183	461	75.0
MAX	3590	1140	1150	11600	4110	1630	1950	2030	405	1640	6980	235
MIN	140	220	270	210	400	310	263	322	92	43	33	38
CFSM	2.88	2.16	1.99	4.00	4.63	2.73	3.02	3.37	.80	.78	1.95	.32
IN.	3.32	2.41	2.29	4.61	4.99	3.15	3.37	3.88	.89	.90	2.26	.35
CAL YR 1975	TOTAL	191039	MEAN 523	MAX 5370	MIN 50	CFSM 2.22	IN 30.11					
WTR YR 1976	TOTAL	205670	MEAN 562	MAX 11600	MIN 33	CFSM 2.38	IN 32.42					

HUDSON RIVER BASIN

01350100 SCHOHARIE RESERVOIR NEAR GRAND GORGE, NY

LOCATION.--Lat 42°21'21", long 74°26'42", Schoharie County, Hydrologic Unit 02020005, in Shandaken Tunnel intake house on Intake Road, 1.6 mi (2.6 km) north of junction of Intake Road and State Highway 23, 2.5 mi (4.0 km) upstream from Gilboa Dam, and 2.6 mi (4.2 km) east of Grand Gorge.

DRAINAGE AREA.--314 mi² (813 km²).

PERIOD OF RECORD.--January 1973 to current year. Monthly contents only published as "at Gilboa" for September 1928 to December 1972.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

REMARKS.--Reservoir is formed by masonry and earth dam. Storage began July 24, 1926. Usable capacity 19,583 mil gal (74.12 hm³) between minimum operating level, elevation, 1,050.00 ft (320.040 m), and crest of spillway, elevation, 1,130.00 ft (344.424 m). Dead storage below elevation 1,050.00 (320.00 m), 1,968 mil gal (7.449 hm³). Figures given herein represent usable contents. Reservoir impounds water except for periods of spilling, for diversion through Shandaken Tunnel into Esopus Creek to Ashokan Reservoir, for New York City water supply.

COOPERATION.--Capacity table furnished by City of New York, Department of Water Resources.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 1,135.17 ft (346.000 m) Oct. 16, 1955, contents, 23,566 mil gal (89.20 hm³); minimum observed (after initial filling), 1,062.00 ft (323.698 m) Aug. 20, 1970, contents, 1,520 mil gal (5,753 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 1,131.23 ft (344.799 m) Apr. 1, contents, 20,061 mil gal (75.93 hm³); minimum, 1,072.08 ft (326.770 m) Jan. 26, contents, 3,269 mil gal (12.37 hm³).

Capacity table (elevation, in feet, and usable contents in million gallons).

1,070.0	2,850	1,100.0	10,080
1,080.0	4,969	1,120.0	16,100
1,090.0	7,407	1,133.0	20,750

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1098.21	1121.69	1106.78	1087.88	1130.19	1130.45	1130.83	1130.39	1130.37	1130.55	1121.80	1111.75
2	1098.25	1120.72	1106.80	1086.92	1130.60	1130.46	1130.85	1130.73	1130.40	1130.24	1121.05	1110.80
3	1098.12	1119.50	1106.46	1085.91	1130.40	1130.45	1130.72	1130.57	1130.34	1130.15	1120.14	1109.87
4	1097.87	1118.51	1105.92	1085.05	1130.38	1130.50	1130.64	1130.54	1130.12	1130.08	1119.10	1108.92
5	1097.50	1117.32	1105.23	1083.83	1130.30	1130.73	1130.57	1130.45	1129.76	1130.06	1118.00	1107.42
6	1097.09	1116.09	1104.56	1082.35	1130.27	1130.68	1130.53	1130.41	1129.42	1130.09	1116.95	1107.02
7	1096.67	1114.82	1103.79	1081.03	1130.25	1130.58	1130.53	1130.39	1129.25	1130.07	1116.00	1106.01
8	1096.20	1113.55	1102.96	1080.06	1130.24	1130.50	1130.46	1130.37	1129.67	1130.07	1115.06	1105.06
9	1095.69	1112.34	1101.98	1078.91	1130.22	1130.44	1130.42	1130.35	1130.06	1130.10	1114.24	1104.32
10	1095.26	1110.95	1101.95	1077.62	1130.19	1130.40	1130.38	1130.30	1130.21	1130.10	1113.90	1103.48
11	1095.14	1109.95	1102.82	1076.38	1130.30	1130.41	1130.42	1130.27	1130.22	1130.05	1127.06	1102.67
12	1095.38	1108.96	1102.76	1075.20	1130.26	1130.36	1130.40	1130.47	1130.08	1130.06	1128.75	1101.80
13	1095.81	1108.39	1102.34	1074.47	1130.25	1130.47	1130.37	1130.43	1130.00	1130.05	1128.55	1100.88
14	1096.63	1108.64	1101.84	1074.47	1130.27	1130.37	1130.34	1130.37	1129.96	1130.03	1127.94	1099.96
15	1097.49	1108.74	1101.26	1074.94	1130.22	1130.34	1130.26	1130.34	1129.98	1129.97	1127.15	1099.03
16	1098.03	1108.44	1100.65	1074.74	1130.34	1130.38	1130.53	1130.34	1129.99	1129.93	1126.22	1098.10
17	1098.49	1108.03	1099.90	1074.46	1130.89	1130.35	1130.37	1130.35	1130.03	1129.86	1125.12	1097.25
18	1103.16	1107.58	1099.13	1073.95	1130.63	1130.38	1130.26	1130.47	1130.04	1129.75	1124.20	1096.49
19	1112.04	1107.09	1097.96	1073.55	1130.91	1130.42	1130.25	1130.68	1129.93	1129.62	1123.40	1095.90
20	1118.36	1106.43	1096.64	1073.33	1130.65	1130.50	1130.31	1130.87	1129.82	1129.48	1122.55	1095.26
21	1121.93	1105.92	1095.39	1073.27	1130.50	1130.46	1130.32	1130.81	1129.78	1129.29	1121.27	1095.03
22	1123.99	1107.02	1094.21	1073.23	1130.76	1130.53	1130.22	1130.71	1129.80	1129.06	1120.86	1095.19
23	1125.38	1107.54	1093.06	1073.07	1130.69	1130.43	1130.22	1130.66	1129.89	1128.60	1119.90	1095.34
24	1125.83	1107.50	1091.73	1072.93	1130.55	1130.43	1130.20	1130.64	1130.06	1128.16	1119.07	1095.46
25	1125.62	1107.21	1090.31	1072.87	1130.53	1130.41	1130.30	1130.53	1130.09	1127.54	1117.85	1094.49
26	1125.53	1106.71	1089.18	1073.46	1130.52	1130.38	1130.73	1130.45	1130.09	1127.07	1117.18	1093.50
27	1125.39	1106.32	1089.92	1094.62	1130.49	1130.35	1130.57	1130.47	1129.99	1126.10	1116.30	1092.76
28	1124.92	1107.22	1090.23	1116.38	1130.48	1130.59	1130.54	1130.48	1129.89	1125.12	1115.41	1092.38
29	1124.31	1107.34	1089.75	1123.10	1130.48	1130.51	1130.47	1130.43	1129.93	1124.25	1114.60	1091.72
30	1123.56	1107.02	1088.99	1126.56	---	1130.44	1130.42	1130.38	1129.98	1123.40	1113.70	1090.96
31	1122.62	---	1088.44	1128.73	---	1130.49	---	1130.36	---	1122.00	1112.75	---
MEAN	1108.08	1110.58	1098.48	1083.98	1130.44	1130.46	1130.45	1130.48	1129.97	1128.74	1120.20	1099.96
MAX	1125.83	1121.69	1106.80	1128.73	1130.91	1130.73	1130.85	1130.87	1130.40	1130.55	1128.75	1111.75
MIN	1095.14	1105.92	1088.44	1072.87	1130.19	1130.34	1130.20	1130.27	1129.25	1122.00	1112.75	1090.96
†	17,043	12,113	7,032	19,037	19,719	19,757	19,730	19,688	19,530	17,046	13,861	7,708
‡	+376	-254	-254	+599	+36.4	-1.90	-1.39	-2.10	-8.13	-124	-159	-317

CAL YR 1975 MEAN 1117.47 MAX 1131.29 MIN 1086.67 † -53.4
WTR YR 1976 MEAN 1116.73 MAX 1130.91 MIN 1072.87 ‡ -7.65

† Contents, in millions of gallons, on last day of month.
‡ Change in contents equivalent in cubic feet per second.

73

LOCATION.--Lat 42°23'50", long 74°27'03", Schoharie County, Hydrologic Unit 02020005, on left bank, 200 ft (61 m) upstream from bridge on County Highway 322, 0.2 mi (0.3 km) west of village of Gilboa, 0.4 mi (0.6 km) downstream from dam on Schoharie Reservoir, and 0.8 mi (1.3 km) upstream from the Platter Kill. Water-quality sampling site at discharge station.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Datum of gage is 939.56 ft (286.378 m) above mean sea level.

REMARKS.--Records fair above 500 ft³/s (14 m³/s) and poor below. Entire flow, runoff from 314 mi² (813 km²), except for period of spill Feb. 1 to June 4, June 9-13, 17, 18, 24-26, June 30 to July 15, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of city of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,930 ft³/s (168 m³/s) Feb. 17, 1976, gage height, 15.56 ft (4.743 m); minimum daily, 0.04 ft³/s (0.001 m³/s) on many days, June to Sept. 76.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,930 ft³/s (168 m³/s) Feb. 17, gage height, 15.56 ft (4.743 m); minimum daily, 0.04 ft³/s (0.001 m³/s) on many days, June to Sept.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s (906 m³/s) Mar. 18, 1936, from information furnished by New York City Board of Water Supply.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	.79	1.3	1.4	900	1170	2680	1100	556	2080	.04	.04
2	.60	.76	1.1	.97	2270	1080	2650	2640	620	786	.04	.04
3	.50	.79	.91	.86	1210	1000	1810	1760	443	484	.04	.04
4	.50	.79	.79	.84	1040	1270	1450	1540	52	320	.04	.04
5	.50	.84	.59	.76	1400	2370	1210	1240	.06	332	.04	.04
6	.50	.89	.59	.48	1100	2230	1060	1050	.04	357	.04	.04
7	.40	.86	.74	.24	551	1580	949	976	.05	323	.04	.04
8	.40	.94	.31	.16	580	1270	849	932	.05	339	.04	.04
9	.40	.94	.20	.16	532	993	781	786	126	295	.04	.04
10	.50	.91	.86	.13	448	988	714	705	295	242	.06	.05
11	.50	1.0	.79	.13	926	932	688	647	242	206	.04	.05
12	.60	.91	.38	.13	752	786	616	1300	64	193	.04	.04
13	.80	2.7	.20	.38	710	810	590	1080	30	193	.04	.04
14	2.7	2.5	.16	5.0	777	839	551	839	.91	172	.05	.04
15	1.9	2.1	.48	4.0	517	714	488	754	.07	65	.04	.04
16	1.7	1.3	.79	1.0	946	647	1680	684	2.7	18	.04	.04
17	1.7	.94	.76	.80	3800	541	988	736	4.8	.07	.04	.05
18	1.9	.81	.74	.60	2580	528	556	1230	7.0	.04	.04	.05
19	.31	.81	.20	.50	4050	688	420	2050	14	.04	.04	.05
20	.31	.74	.08	.40	2690	1090	528	2900	.31	.04	.04	.04
21	.16	1.0	.08	.40	1830	895	597	2740	.06	.04	.04	.04
22	.13	1.3	.07	.40	3280	1050	475	2260	.05	.04	.04	.04
23	.16	.81	.07	.40	2710	697	409	1770	.04	.04	.04	.04
24	.16	.76	.06	.40	1760	597	354	1410	38	.04	.04	.04
25	.31	.81	.06	.40	1560	514	585	1210	51	.04	.04	.04
26	.76	.84	.06	.70	1460	443	2480	1060	3.7	.04	.04	.04
27	.76	1.0	.76	.60	1520	431	1700	982	.10	.04	.05	.06
28	.76	1.2	.74	.60	1410	1080	1610	839	.38	.04	.04	.05
29	.79	.94	.31	.50	1230	844	1380	714	.89	.04	.04	.05
30	.81	.94	.20	.50	---	714	1170	636	198	.04	.04	.04
31	.79	---	1.3	.40	---	911	---	601	---	.04	.04	---
TOTAL	22.91	31.92	15.68	24.24	44539	29702	32018	39171	2750.21	6405.63	1.28	1.29
MEAN	.74	1.06	.51	.78	1536	958	1067	1264	91.7	207	.041	.043
MAX	2.7	2.7	1.3	5.0	4050	2370	2680	2900	620	2080	.06	.06
MIN	.13	.74	.06	.13	448	431	354	601	.04	.04	.04	.04
WTR YR 1976	TOTAL	154683.16	MEAN	423	MAX	4050	MIN	.04				

HUDSON RIVER BASIN

01350101 SCHOHARIE CREEK AT GILBOA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972, 1975 to August 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA.MG) (MG/L)
FEB 19...	0930	4540	60	6.9	1.5	15.0	110	810	270	22
JUN 25...	1200	52	75	7.2	23.0	--	--	9	350	25
AUG 18...	0915	.04	295	8.7	17.0	9.2	97	81	83	110

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
FEB 19...	9	7.0	1.2	2.2	.5	16	0	13	8.5	3.8
JUN 25...	7	7.5	1.4	2.5	.9	21	0	17	10	3.7
AUG 18...	0	34	6.9	19	1.2	141	0	116	17	12

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHOPHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
FEB 19...	.2	3.0	34	.61	.21	.82	.05	.03	650	50
JUN 25...	.1	.7	37	.16	.25	.41	.02	.00	310	20
AUG 18...	.1	3.4	163	.01	.20	.21	.03	.02	100	40

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

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
FEB 19...	0930	4540	9	110

HUDSON RIVER BASIN

75

01350120 PLATTER KILL AT GILBOA, NY

LOCATION.--Lat 42°24'18", long 74°26'36", Schoharie County, Hydrologic Unit 02020005, on right bank, 190 ft (58 m) upstream from culvert on County Highway 17, 0.5 mi (0.8 km) upstream from mouth, and 0.6 mi (1.0 km) northeast of Gilboa. Water-quality sampling site at discharge station.

DRAINAGE AREA.--11.1 mi² (28.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional measurements, water years 1969-73, January 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,110 ft (338 m), from topographic map.

REMARKS.--Records good prior to June 15 and fair thereafter except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 230 ft³/s (6.51 m³/s) Jan. 27, 1976; maximum gage height, 3.25 ft (0.991 m) Jan. 27, 1976, ice jam; minimum discharge, 1.9 ft³/s (0.053 m³/s) Sept. 8, 11, 1975, gage height, 0.12 ft (0.037 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0800	133 3.77	2.19 0.668	Jan. 27	0500	*†230 6.51	*‡3.25 0.991

† About.
‡ Ice jam.

Minimum daily discharge, 2.4 ft³/s (0.07 m³/s) Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	12	21	9.8	33	29	70	31	17	17	5.6	2.8
2	8.6	11	19	9.2	50	26	54	36	18	11	5.0	8.4
3	8.1	10	16	8.8	40	23	44	36	15	9.8	4.2	6.9
4	7.3	10	14	8.2	30	35	36	33	13	9.6	3.4	6.9
5	6.8	9.2	16	8.0	25	52	29	26	13	8.7	4.5	6.9
6	6.3	8.3	16	7.8	22	39	26	23	13	7.2	3.9	6.9
7	6.1	8.0	14	11	20	32	23	23	21	7.2	4.9	20
8	5.6	8.6	15	10	19	29	22	22	16	7.9	5.8	19
9	5.4	8.0	12	9.6	18	26	20	20	13	6.9	5.0	7.2
10	5.1	8.3	20	9.0	16	25	19	18	12	6.3	21	5.8
11	6.1	8.0	17	8.8	15	23	18	17	11	6.7	13	5.6
12	9.5	9.2	13	8.0	15	21	16	23	10	6.1	8.7	5.0
13	11	20	13	7.2	16	22	16	18	9.6	6.1	6.3	4.0
14	17	20	13	13	16	20	16	16	9.4	6.1	6.2	3.2
15	10	16	14	11	17	19	14	15	19	6.1	5.9	2.9
16	8.4	15	14	10	32	16	42	14	15	5.8	5.2	2.8
17	7.8	16	12	9.4	149	16	26	18	18	5.8	4.6	5.0
18	95	16	11	9.0	88	21	21	25	13	5.8	4.1	5.8
19	61	15	10	8.8	145	20	19	40	11	5.8	3.8	5.2
20	54	14	9.2	8.0	77	26	18	59	12	5.8	3.6	4.7
21	43	22	9.0	7.0	58	27	17	57	15	5.6	3.3	4.5
22	34	25	9.4	6.8	133	26	17	47	13	5.4	3.2	4.4
23	28	19	11	6.6	67	20	16	37	12	5.2	3.0	4.1
24	25	17	12	6.1	52	20	16	32	11	5.0	2.8	3.7
25	24	16	14	5.6	47	20	25	27	9.9	4.8	2.6	3.2
26	24	15	17	35	43	19	79	25	9.2	4.5	2.4	4.8
27	19	20	19	200	41	19	52	23	8.4	4.3	6.2	5.8
28	16	22	12	100	34	32	45	20	7.9	4.2	5.4	5.2
29	15	17	9.8	64	29	23	38	18	8.4	4.8	4.7	4.0
30	14	15	11	39	---	21	32	17	17	5.8	4.0	3.2
31	12	---	11	37	---	20	---	16	---	5.0	3.5	---
TOTAL	602.9	430.6	424.4	691.7	1347	766	886	832	390.8	206.3	165.8	177.9
MEAN	19.4	14.4	13.7	22.3	46.4	24.7	29.5	26.8	13.0	6.65	5.35	5.93
MAX	95	25	21	200	149	52	79	59	21	17	21	20
MIN	5.1	8.0	9.0	5.6	15	15	14	14	7.9	4.2	2.4	2.8
CFSM	1.75	1.30	1.23	2.01	4.18	2.23	2.66	2.41	1.17	.60	.48	.53
IN.	2.02	1.44	1.42	2.32	4.51	2.57	2.97	2.79	1.31	.69	.56	.60

WTR YR 1976 TOTAL 6921.4 MEAN 18.9 MAX 200 MIN 2.4 CFSM 1.70 IN 23.19

HUDSON RIVER BASIN

01350120 PLATTER KILL AT GILBOA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972, 1975 to August 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
FEB 19...	0900	70	7.2	2.0	14.1	107	8450	8500	24	4
JUN 25...	1000	120	8.1	18.0	--	--	84	110	49	6
AUG 18...	0845	142	7.8	12.0	10.2	97	57	59	63	11

DATE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CAC03 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)
FEB 19...	7.5	1.2	2.0	.7	24	0	20	9.1	3.2	.0
JUN 25...	16	2.2	2.8	.7	52	0	43	9.2	3.3	.1
AUG 18...	21	2.6	3.4	.7	64	0	53	9.3	.3	.1

DATE	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
FEB 19...	3.9	39	.41	.51	.92	.13	.05	4200	160
JUN 25...	5.5	65	.34	.20	.54	.05	.01	850	40
AUG 18...	5.9	75	.35	.05	.40	.02	.01	170	10

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

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JAN 27...	1500	181	256	125	--	AUG 10...	1140	521	56	53.2	96
FEB 19...	0900	153	118	49	--						

E Estimated.

HUDSON RIVER BASIN

77

01350140 MINE KILL NEAR NORTH BLENHEIM, NY

LOCATION.--Lat 42°25'44", long 74°28'24", Schoharie County, Hydrologic Unit 02020005, on left bank 200 ft (61 m) upstream from bridge on State Highway 30, 0.6 mi (1.0 km) upstream from mouth, and 3.0 mi (4.8 km) southwest of North Blenheim. Water-quality sampling site at discharge station.

DRAINAGE AREA.--16.3 mi² (42.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water years 1969-74, December 1974 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 23, 1975. Altitude of gage is 1,060 ft (323 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,080 ft³/s (30.6 m³/s) Apr. 3, 1975, gage height, 2.84 ft (0.866 m), from rating curve extended above 350 ft³/s (9.91 m³/s); maximum gage height, 3.02 ft (0.920 m) Jan. 27, 1976 (ice jam); minimum daily discharge, 0.50 ft³/s (0.014 m³/s) Sept. 11, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge above base of 670 ft³/s (19 m³/s), 804 ft³/s (22.8 m³/s) Oct. 18, gage height, 3.01 ft (0.917 m); maximum gage height, 3.02 ft (0.920 m) Jan. 27 (ice jam); minimum discharge, 1.6 ft³/s (0.05 m³/s) Sept. 9, 10, gage height, 0.74 ft (0.226 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	13	33	24	68	41	197	57	26	71	7.5	2.2
2	10	13	28	19	80	37	100	63	29	34	6.2	2.8
3	8.8	13	25	18	56	34	72	80	20	30	4.2	3.1
4	8.2	13	22	16	50	72	59	55	16	28	3.1	2.8
5	7.0	12	23	14	45	84	48	44	13	22	5.1	2.8
6	5.9	10	29	16	35	58	43	40	16	18	3.8	2.5
7	5.4	9.5	25	18	30	48	37	38	30	18	13	2.0
8	5.0	13	23	17	28	41	33	36	18	18	20	2.0
9	5.0	12	21	16	26	40	30	30	13	16	12	1.6
10	4.6	14	33	15	25	38	27	27	10	12	38	2.2
11	5.0	15	25	15	25	36	28	28	8.8	11	20	6.2
12	8.2	16	22	14	25	33	24	46	8.8	13	13	4.6
13	7.0	36	20	15	26	36	23	30	7.5	15	9.5	3.1
14	28	34	21	25	28	32	22	24	6.2	15	14	2.5
15	13	28	23	19	32	28	20	23	22	13	12	2.2
16	12	26	23	15	170	23	128	21	12	10	8.8	2.2
17	10	27	19	12	100	24	58	24	40	14	6.8	3.8
18	220	26	16	11	180	28	44	30	16	9.5	5.6	5.1
19	64	23	17	10	195	33	40	61	11	7.5	4.6	5.1
20	50	23	15	9.2	92	45	34	138	14	6.2	3.8	3.8
21	40	38	14	8.8	66	63	31	98	22	6.2	3.8	3.8
22	32	36	13	8.6	209	54	29	71	16	8.8	3.4	3.8
23	26	29	13	8.4	90	40	27	58	16	6.2	3.1	3.4
24	23	25	15	8.2	69	37	24	47	16	6.2	2.8	3.1
25	25	25	25	8.0	59	35	50	42	13	5.1	2.2	2.5
26	24	24	38	25	55	32	161	37	10	4.2	2.5	2.8
27	20	41	30	240	54	34	84	34	6.8	3.8	5.6	18
28	19	36	26	90	47	92	74	29	6.2	5.1	4.6	11
29	17	29	25	66	41	50	61	25	6.8	4.2	4.2	6.8
30	16	27	27	64	---	42	47	22	47	8.2	3.8	5.1
31	15	---	28	62	---	36	---	21	---	6.2	2.8	---
TOTAL	742.3	686.5	717	907.2	2006	1326	1655	1379	497.1	445.4	249.8	122.9
MEAN	23.9	22.9	23.1	29.3	69.2	42.8	55.2	44.5	16.6	14.4	8.06	4.10
MAX	220	41	38	240	209	92	197	138	47	71	38	18
MIN	4.6	9.5	13	8.0	25	23	20	21	6.2	3.8	2.2	1.6

CAL YR 1975 TOTAL 9298.30 MEAN 25.5 MAX 399 MIN .50
WTR YR 1976 TOTAL 10734.20 MEAN 29.3 MAX 240 MIN 1.6

Note.--Doubtful gage-height record Oct. 18.

HUDSON RIVER BASIN

01350140 MINE KILL NEAR NORTH BLENHEIM, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972, 1975 to August 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG)
FEB 18...	1430	E50	69	7.1	1.0	14.5	107	240	81100	29
JUN 25...	1600	14	98	7.8	21.0	--	--	160	200	51
AUG 18...	1230	5.6	129	8.1	18.0	9.8	104	31	26	51

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
FEB 18...	14	9.0	1.5	2.3	.5	18	0	15	9.9	3.8
JUN 25...	15	17	2.0	3.0	.8	44	0	36	7.9	3.4
AUG 18...	9	16	2.8	4.4	.9	52	0	43	10	3.6

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
FEB 18...	.1	3.9	40	.23	.25	.48	.07	.02	1600	50
JUN 25...	.1	4.6	61	.14	.25	.39	.04	.01	460	20
AUG 18...	.1	3.4	67	.05	.15	.20	.02	.01	260	10

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

E Estimated.

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JAN 27...	1430	337	238	217	--	AUG 10...	1255	50	38	5.1	98
FEB 19...	1045	164	75	33	--						

HUDSON RIVER BASIN

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01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY

LOCATION.--Lat 42°27'57", long 74°27'45", Schoharie County, Hydrologic Unit 02020005, on left bank 2300 ft (701 m) upstream from West Kill, and 1.2 mi (1.9 km) upstream from bridge on State Highway 30 in North Blenheim. Water-quality sampling site at discharge station.

DRAINAGE AREA.--359 mi² (930 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional measurements, water years 1969-70. October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 800 ft (244 m), from topographic map. Prior to Oct. 1, 1971, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair. Frequent regulation of flow by Blenheim-Gilboa Pumped Storage Project immediately upstream from gage. Entire flow, runoff from 314 mi² (813 km²), except for period of spill, Feb. 1 to June 4, June 9-13, 17, 18, 24-26, June 30 to July 15, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York.

AVERAGE DISCHARGE.--6 years, 529 ft³/s (14.98 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,400 ft³/s (1,170 m³/s) June 23, 1972, gage height, 12.29 ft (3.746 m) from rating curve extended above 14,000 ft³/s (396 m³/s); no flow Oct. 21-28, 1972, Sept. 12-14, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,730 ft³/s (191 m³/s) Feb. 17, gage height, 9.00 ft (2.743 m); minimum, 1.5 ft³/s (0.042 m³/s) Sept. 13-16, 20, 21, gage height, 1.08 ft (0.329 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	23	57	66	610	1130	2550	903	530	1730	3.5	5.4
2	13	19	69	56	2220	841	2830	2410	476	806	2.4	4.9
3	21	21	78	52	1010	928	1570	1630	353	330	2.7	4.7
4	29	21	52	29	1180	1130	1260	1360	28	243	3.0	4.7
5	27	23	31	21	909	2240	1140	1010	6.4	227	2.6	4.5
6	21	24	24	18	669	2050	872	934	27	396	2.9	3.9
7	25	25	33	13	674	1390	884	818	94	215	4.9	3.0
8	23	22	31	20	562	1280	594	866	13	189	6.2	1.7
9	14	6.4	21	43	605	772	664	624	73	320	2.2	1.6
10	9.6	10	57	30	476	853	578	491	221	200	120	1.8
11	10	26	73	28	859	824	505	619	203	75	13	3.5
12	9.6	35	66	28	794	573	556	1180	73	224	5.4	3.0
13	9.3	97	42	31	644	706	467	941	61	145	5.9	1.5
14	75	95	18	110	818	800	320	600	9.3	168	5.4	1.5
15	71	84	38	61	573	515	435	639	89	63	4.9	1.5
16	28	73	63	14	947	583	1630	467	37	28	4.2	1.6
17	19	46	58	14	4210	384	954	685	44	15	4.2	2.0
18	835	38	45	18	2340	486	472	1070	65	6.7	4.5	1.9
19	198	61	18	33	4130	510	323	1940	17	6.2	4.5	1.8
20	114	46	13	37	2550	1090	418	2650	21	6.2	4.7	1.5
21	112	75	12	24	1600	794	578	2630	104	6.4	4.7	1.6
22	106	99	12	84	3490	1000	384	2020	54	6.4	4.2	1.6
23	72	79	45	61	2550	556	302	1600	33	6.4	4.0	1.7
24	56	57	36	24	1650	486	306	1230	32	6.4	4.2	1.7
25	65	40	11	10	1570	556	594	1040	84	6.2	4.2	1.9
26	81	43	23	166	1140	221	2520	954	52	4.5	4.7	2.0
27	44	68	110	993	1370	349	1700	853	40	3.2	5.1	2.3
28	50	112	61	453	1360	1090	1500	701	7.6	3.0	4.9	3.5
29	47	56	8.9	163	1060	853	1320	639	6.7	3.5	4.5	2.7
30	35	41	10	122	---	583	1070	458	92	3.7	3.9	1.8
31	32	---	43	106	---	695	---	431	---	3.5	4.0	---
TOTAL	2261.5	1465.4	1258.9	2928	42570	26268	29296	34393	2946.0	5446.3	255.5	76.8
MEAN	73.0	48.8	40.6	94.5	1468	947	977	1109	98.2	176	8.24	2.56
MAX	835	112	110	993	4210	2240	2830	2650	530	1730	120	5.4
MIN	9.3	6.4	8.9	10	476	221	302	431	6.4	3.0	2.2	1.5
CAL YR 1975	TOTAL	183107.1	MEAN	502	MAX	8200	MIN	1.6				
WTR YR 1976	TOTAL	149165.4	MEAN	408	MAX	4210	MIN	1.5				

HUDSON RIVER BASIN

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1971 to current year.

INSTRUMENTATION.--Temperature recorder since October 1971.

REMARKS.--Temperature probe may be influenced by solar radiation during periods of low flow. No temperature record Oct. 18-29, due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 33.5°C Aug. 7, 1973; minimum, freezing point on many days during all winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.5°C Aug. 22; minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG)
OCT 22...	1045	101	106	6.8	12.0	11.6	108	81500	8850	42
NOV 25...	1030	37	112	8.2	7.0	11.8	100	36	38	48
DEC 30...	0930	8.6	134	7.6	2.0	14.2	104	65	140	49
JAN 20...	1000	E37	122	7.3	.5	13.9	99	81	83	42
FEB 18...	1330	4180	75	7.2	1.5	16.6	121	120	1200	26
MAR 25...	1100	589	65	6.8	7.0	14.8	125	81	200	20
APR 21...	1000	572	65	7.2	9.0	14.2	126	810	820	23
MAY 27...	1000	960	62	6.8	11.0	12.4	115	85	20	21
JUN 25...	1515	61	84	7.9	19.5	8.9	107	8	19	28
JUL 29...	1020	4.6	114	7.6	20.0	7.5	84	32	35	42
AUG 18...	1330	6.0	122	8.5	25.0	9.3	111	84	87	44
SEP 09...	1530	2.2	136	8.5	24.5	8.8	105	85	819	50

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT 22...	7	14	1.8	3.0	1.2	43	0	35	11	4.0
NOV 25...	12	16	1.9	3.4	.8	44	0	36	14	4.1
DEC 30...	6	15	2.8	4.2	.7	52	0	43	12	4.0
JAN 20...	3	13	2.3	3.7	.8	48	0	39	13	5.8
FEB 18...	10	8.0	1.5	2.4	.6	20	0	16	9.6	3.7
MAR 25...	7	6.5	.9	2.5	.7	16	0	13	8.5	3.6
APR 21...	9	6.7	1.4	2.3	.6	16	0	13	9.8	2.8
MAY 27...	5	6.1	1.5	2.0	.4	20	0	16	.4	.7
JUN 25...	10	8.9	1.4	2.3	.7	22	0	18	10	3.2
JUL 29...	6	13	2.4	4.0	.8	44	0	36	15	3.8
AUG 18...	5	14	2.1	4.6	.8	47	0	39	11	1.7
SEP 09...	11	16	2.4	4.3	.8	47	0	39	16	4.8

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

E Estimated.

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
OCT 22...	.1	2.3	59	.13	.40	.53	.09	.04	1500	60
NOV 25...	.1	1.4	63	.14	.17	.31	.02	.01	250	10
DEC 30...	.1	1.7	66	.16	.14	.30	.01	.01	120	10
JAN 20...	.2	1.7	64	.18	.11	.29	.02	.01	380	20
FEB 18...	.1	3.0	39	.50	.24	.74	.07	.03	1400	60
MAR 25...	.0	3.2	34	.49	.00	.49	.04	.02	810	40
APR 21...	.0	3.0	34	.42	.10	.52	.02	.01	860	20
MAY 27...	.0	2.8	24	.27	.20	.47	.02	.00	200	20
JUN 25...	.1	2.6	40	.25	.15	.40	.02	.01	260	30
JUL 29...	.1	2.0	63	.19	.15	.34	.00	.00	250	20
AUG 18...	.1	1.5	59	.13	.20	.33	.01	.01	120	40
SEP 09...	.1	1.5	69	.16	.30	.46	.02	.01	150	40

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED-SEDIMENT DISCHARGE (T/DAY)
FEB 19...	1130	4700	21	266

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	14.5	16.5	11.0	9.0	10.0	9.0	6.5	8.0	2.0	1.0	2.0
2	17.0	14.0	15.5	12.5	10.5	11.5	7.5	6.0	7.0	2.0	1.0	1.5
3	16.5	12.0	14.0	13.5	12.0	12.5	7.0	6.0	6.5	2.0	1.5	2.0
4	17.5	13.5	15.5	14.0	10.5	12.5	6.0	4.5	5.5	2.0	0.5	1.0
5	17.0	13.5	15.0	12.5	10.0	11.0	6.0	4.0	5.0	1.0	0.0	0.5
6	18.0	14.5	16.0	13.0	9.5	11.0	8.0	5.0	6.5	1.0	0.0	0.5
7	17.0	13.0	14.0	13.5	10.5	12.0	5.5	4.0	4.5	1.5	0.0	1.0
8	16.5	12.0	14.5	14.5	12.5	13.5	5.5	4.0	4.5	1.0	0.0	0.5
9	16.0	13.5	14.5	15.5	11.5	13.0	5.0	4.0	4.5	0.5	0.0	0.5
10	16.0	13.5	14.5	13.5	11.5	12.5	5.5	5.0	5.5	1.0	0.0	0.5
11	15.5	14.0	14.5	12.5	10.0	11.0	5.5	4.5	5.0	0.0	0.0	0.0
12	14.5	13.5	14.0	11.0	9.0	10.0	5.0	4.5	4.5	0.5	0.0	0.5
13	15.0	12.5	13.5	11.5	11.0	11.5	4.5	4.5	4.5	1.0	0.5	0.5
14	15.5	14.0	14.5	11.0	9.5	10.5	6.5	4.5	5.5	1.0	1.0	1.0
15	17.0	14.5	15.5	11.0	9.5	10.0	7.5	5.5	6.5	1.5	0.0	0.5
16	16.0	14.0	15.0	10.0	9.5	9.5	5.5	4.0	5.0	1.0	0.0	0.5
17	15.0	13.0	14.0	10.5	8.5	9.5	5.0	4.0	4.5	1.0	0.0	0.0
18	---	---	---	11.0	8.5	9.5	4.5	2.0	3.5	0.0	0.0	0.0
19	---	---	---	10.5	9.5	10.0	2.0	1.0	1.5	0.0	0.0	0.0
20	---	---	---	11.0	9.0	10.0	1.0	0.0	0.5	0.0	0.0	0.0
21	---	---	---	10.5	9.0	10.0	1.0	0.0	1.0	0.5	0.0	0.0
22	---	---	---	10.0	9.0	9.5	2.0	1.0	1.5	0.5	0.0	0.0
23	---	---	---	9.5	8.0	9.0	1.5	1.0	1.5	0.0	0.0	0.0
24	---	---	---	8.5	7.5	8.0	1.5	0.5	1.0	0.0	0.0	0.0
25	---	---	---	8.0	7.5	7.5	0.5	0.0	0.5	0.0	0.0	0.0
26	---	---	---	8.0	7.0	7.5	1.5	0.0	1.0	1.0	0.0	0.5
27	---	---	---	8.0	6.5	7.5	2.5	1.5	2.0	1.5	1.0	1.5
28	---	---	---	8.0	7.0	8.0	2.5	1.0	2.0	1.5	1.0	1.0
29	---	---	---	7.5	6.5	7.0	2.5	1.0	1.5	1.5	1.0	1.0
30	12.0	9.0	10.5	8.5	6.5	7.5	1.5	1.0	1.0	1.5	1.0	1.0
31	12.0	8.5	10.0	---	---	---	2.5	1.5	1.5	1.5	0.5	1.0
MONTH	---	---	---	15.5	6.5	10.0	9.0	0.0	3.5	2.0	0.0	0.5

HUDSON RIVER BASIN

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.5	1.0	2.5	2.0	2.5	5.0	5.0	5.0	9.0	8.5	9.0
2	1.5	1.0	1.0	2.5	2.0	2.0	5.0	4.5	5.0	10.0	9.0	9.5
3	1.0	1.0	1.0	2.0	1.5	1.5	5.0	4.5	4.5	9.5	9.5	9.5
4	1.0	1.0	1.0	2.0	1.5	1.5	5.0	4.5	4.5	9.5	8.5	9.0
5	1.0	1.0	1.0	2.5	2.0	2.0	5.0	4.5	5.0	9.5	8.5	9.0
6	1.0	0.5	1.0	2.5	2.5	2.5	5.0	4.5	5.0	10.0	9.0	9.5
7	1.0	0.5	0.5	2.5	2.5	2.5	5.5	5.0	5.0	10.0	9.5	9.5
8	1.0	0.5	0.5	2.5	2.0	2.5	5.5	5.0	5.0	10.0	9.5	9.5
9	1.5	0.5	1.0	2.0	1.5	2.0	5.5	5.0	5.0	10.5	9.5	10.0
10	1.0	0.5	1.0	2.0	1.5	2.0	6.0	5.0	5.5	11.5	10.0	10.5
11	1.0	1.0	1.0	2.0	1.5	2.0	5.5	5.0	5.5	11.5	10.0	10.5
12	1.0	0.5	1.0	2.5	1.5	2.0	5.5	5.0	5.0	10.5	10.0	10.5
13	1.0	1.0	1.0	2.5	2.0	2.0	5.5	4.5	5.0	11.0	10.0	10.5
14	1.0	1.0	1.0	2.5	2.0	2.0	7.0	5.0	5.5	11.5	10.5	11.0
15	1.0	1.0	1.0	2.5	2.0	2.0	6.5	5.0	6.0	12.0	11.5	11.5
16	1.0	1.0	1.0	2.0	1.5	2.0	7.0	6.0	6.5	14.0	12.0	13.0
17	1.0	0.5	1.0	2.5	1.5	2.0	8.5	7.0	7.5	13.5	12.5	13.0
18	1.0	1.0	1.0	2.0	1.0	1.5	10.0	8.0	9.0	13.0	12.5	12.5
19	1.0	1.0	1.0	2.5	1.5	2.0	11.0	7.0	9.0	12.5	11.5	12.0
20	1.0	1.0	1.0	2.5	1.5	2.0	8.0	7.0	7.5	11.5	11.0	11.5
21	1.0	1.0	1.0	3.5	2.5	3.0	9.0	7.5	8.0	11.5	11.0	11.0
22	1.5	1.0	1.5	3.5	3.0	3.0	9.5	8.5	9.0	11.5	11.0	11.0
23	1.5	1.0	1.5	4.0	3.0	3.0	10.0	8.5	9.0	11.0	10.5	11.0
24	1.0	1.0	1.0	4.0	3.0	3.0	10.0	9.0	9.5	11.5	10.5	11.0
25	1.5	1.0	1.5	4.0	3.5	3.5	10.0	9.0	9.5	11.5	11.0	11.0
26	2.0	1.5	1.5	6.0	3.5	4.5	10.0	9.5	10.0	11.5	11.0	11.5
27	2.0	2.0	2.0	5.5	3.5	4.5	10.0	9.0	9.5	12.0	11.0	11.5
28	2.0	2.0	2.0	4.5	4.5	4.5	9.0	8.5	9.0	13.0	11.5	12.5
29	2.5	2.0	2.0	5.0	4.5	4.5	9.0	8.5	8.5	13.5	12.0	13.0
30	---	---	---	5.0	4.0	4.5	9.0	8.5	8.5	13.5	13.0	13.0
31	---	---	---	5.0	4.5	5.0	---	---	---	14.5	13.0	14.0
MONTH	2.5	0.5	1.0	6.0	1.0	2.5	11.0	4.5	7.0	14.5	8.5	11.0
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	13.5	13.5	22.5	20.5	22.0	25.5	20.0	22.5	24.0	17.0	20.5
2	14.0	13.5	13.5	22.5	22.0	22.0	25.5	18.0	20.5	20.5	17.5	19.5
3	14.0	11.5	13.0	22.5	21.5	22.0	26.5	18.0	21.5	23.0	16.5	19.5
4	16.5	11.0	14.0	21.5	19.5	20.5	27.5	18.5	22.0	21.0	17.0	19.0
5	21.0	13.0	17.0	22.0	19.5	20.5	27.0	19.5	22.5	22.0	18.0	19.5
6	17.5	12.0	15.0	22.0	20.5	21.5	22.5	20.0	21.5	21.5	16.0	18.0
7	16.5	12.0	14.0	22.0	21.0	21.5	20.0	18.0	19.0	21.0	15.5	18.0
8	21.0	13.0	17.0	22.0	21.0	21.5	22.0	18.0	20.0	25.0	16.5	19.5
9	17.0	13.0	15.0	22.5	21.5	22.0	23.0	19.5	21.0	26.0	17.0	20.5
10	15.5	13.0	14.0	23.0	21.0	22.0	21.5	19.5	20.5	19.5	17.0	18.5
11	16.0	14.0	15.0	26.0	21.0	23.0	26.5	19.5	22.5	19.5	15.5	17.0
12	19.0	14.5	16.5	22.0	21.0	21.5	24.5	20.5	22.5	22.0	15.0	17.5
13	17.0	13.5	15.5	21.5	20.5	21.0	26.5	21.0	23.5	24.0	15.5	19.0
14	22.5	14.0	18.0	22.5	21.0	21.5	26.5	21.0	23.5	25.0	16.0	20.0
15	19.5	16.5	17.5	26.0	20.5	23.0	26.0	22.0	23.5	23.5	17.5	20.0
16	20.0	16.5	18.0	22.5	20.0	21.5	22.5	20.0	21.0	21.5	18.5	20.0
17	19.5	15.5	18.0	24.0	20.0	22.0	24.5	18.5	21.5	22.0	19.0	20.0
18	21.5	15.5	18.5	23.5	18.5	21.0	25.0	19.0	21.5	20.0	18.5	19.0
19	24.5	18.5	21.0	26.5	19.0	23.0	26.0	19.0	22.0	25.0	17.5	20.0
20	24.0	17.0	20.0	27.5	20.5	24.0	26.5	19.0	22.5	20.5	16.5	18.0
21	18.5	16.5	17.0	23.5	21.0	22.5	27.0	21.0	24.0	21.5	15.0	18.0
22	19.0	17.0	18.0	26.5	19.5	23.0	28.5	22.0	25.0	19.5	13.0	15.5
23	23.5	17.0	19.5	22.0	20.0	21.0	26.5	21.5	24.0	16.5	11.5	14.0
24	22.0	18.0	20.0	26.0	20.0	22.5	27.0	21.0	23.5	20.0	11.0	14.5
25	20.5	17.5	18.5	24.0	19.0	21.5	26.5	20.0	23.0	20.0	10.5	14.0
26	23.5	17.5	20.5	26.5	18.0	22.0	26.0	20.5	23.0	13.5	10.5	12.5
27	23.0	17.5	20.0	26.0	20.0	22.5	25.5	21.5	23.0	15.0	13.5	14.5
28	25.5	18.5	22.0	27.5	20.0	23.5	26.0	21.5	23.5	16.5	11.5	14.0
29	27.0	20.0	23.0	23.0	20.0	21.5	26.0	20.5	23.0	19.0	11.0	13.5
30	21.5	18.0	20.0	21.5	20.0	20.5	23.5	17.0	19.5	17.0	11.0	13.5
31	---	---	---	27.0	20.0	23.0	22.5	16.0	19.0	---	---	---
MONTH	27.0	11.0	17.5	27.5	18.0	22.0	28.5	16.0	22.0	26.0	10.5	17.5

HUDSON RIVER BASIN

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01350200 WEST KILL AT NORTH BLENHEIM, NY

LOCATION.--Lat 42°28'07", long 74°27'34", Schoharie County, Hydrologic Unit 02020005, on left bank 75 ft (23 m) upstream from highway bridge on State Highway 30, in North Blenheim, 100 ft (30 m) downstream from Mill Creek and 0.2 mi (0.3 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--44.6 mi² (115.5 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 810 ft (247 m), from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

EXTREMES FOR CURRENT PERIOD.--July to September 1975: Maximum discharge during period, 635 ft³/s (18.0 m³/s) Sept. 25, gage height 3.37 ft (1.027 m); minimum 1.4 ft³/s (0.040 m³/s) Aug. 24, gage height 1.06 ft (0.323 m).

Water year 1976: Peak discharges above base of 2,000 ft³/s (57 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	1000	*12,100 343	*5.91 1.801	Apr. 26	0215	2,560 72.5	4.47 1.362
Feb. 22	0915	3,930 111	4.85 1.478				

† From rating curve extended above 2,700 ft³/s (76 m³/s).

Minimum discharge, 3.4 ft³/s (0.096 m³/s) Sept. 10, 1976, gage height, 1.20 ft (0.366 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										15	2.6	11
2										9.0	2.3	8.4
3										7.2	2.0	8.0
4										6.0	2.5	6.0
5										5.0	4.1	4.8
6										4.5	3.0	4.8
7										3.8	3.0	4.8
8										3.6	2.0	4.1
9										3.5	1.3	6.3
10										6.3	7.3	4.5
11										4.8	5.7	3.6
12										3.6	4.8	6.6
13										4.3	4.3	8.8
14										4.8	3.6	6.0
15										4.5	2.8	4.5
16										3.8	3.4	4.1
17										3.2	4.3	4.3
18										2.6	3.8	4.3
19										2.3	2.6	6.6
20										12	2.1	10
21										42	1.8	39
22										15	1.7	21
23										8.4	1.6	29
24										6.6	2.3	37
25										29	3.4	216
26										12	2.3	141
27										7.3	3.0	198
28										6.0	2.0	92
29										4.8	2.5	65
30										3.6	3.9	53
31										3.4	2.0	---
TOTAL										247.9	203.8	1012.5
MEAN										8.00	6.57	33.8
MAX										42	3.9	216
MIN										2.3	1.6	3.6
CFSM										.18	.15	.76
IN.										.21	.17	.84

HUDSON RIVER BASIN

01350200 WEST KILL AT NORTH BLENHEIM, NY--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	50	149	45	187	160	715	167	90	153	17	7.0
2	45	49	132	38	193	132	327	199	99	73	13	8.9
3	39	50	121	35	132	124	220	236	61	61	8.6	8.2
4	32	57	124	33	132	272	170	185	50	65	6.9	6.7
5	29	48	108	36	104	433	136	145	42	48	5.9	6.0
6	25	41	126	45	90	271	117	124	44	56	5.2	5.0
7	22	38	122	50	84	184	102	125	96	70	32	4.4
8	21	46	105	40	78	150	89	109	56	52	35	4.0
9	19	41	101	38	74	119	79	90	41	43	20	3.8
10	18	43	139	36	72	122	70	79	35	34	124	5.1
11	20	48	120	35	70	109	71	74	30	29	52	9.9
12	29	53	104	33	70	89	58	119	33	39	30	7.3
13	25	160	98	32	70	112	53	79	26	41	25	5.4
14	81	148	101	123	72	92	50	68	29	35	33	4.4
15	43	120	106	130	75	77	45	65	381	30	26	3.9
16	49	110	105	57	138	63	375	55	104	26	25	3.8
17	41	120	96	45	672	61	147	63	207	38	19	7.2
18	2600	110	80	37	571	61	117	70	112	25	15	8.6
19	482	94	62	36	1090	81	100	148	86	21	13	8.2
20	312	124	58	34	411	143	87	404	93	17	12	6.1
21	222	220	54	32	291	198	77	439	139	18	10	6.9
22	169	180	52	31	1650	162	71	301	90	18	9.3	5.9
23	136	130	50	30	418	120	65	207	99	14	8.9	5.0
24	110	110	54	30	272	118	58	163	88	16	7.6	4.3
25	98	100	76	30	239	107	162	137	85	12	6.6	3.7
26	82	110	150	60	230	94	946	123	62	9.9	6.5	5.0
27	74	180	120	800	239	95	373	109	48	9.3	13	27
28	66	155	100	459	189	230	306	86	40	9.0	9.2	22
29	60	128	90	289	160	128	229	72	37	8.8	19	14
30	54	110	78	188	---	113	175	64	178	15	13	10
31	50	---	52	143	---	102	---	59	---	12	8.4	---
TOTAL	5093	2973	3033	3050	8073	4322	5590	4364	2581	1098.0	629.1	227.7
MEAN	164	99.1	97.8	98.4	278	139	186	141	86.0	35.4	20.3	7.59
MAX	2600	220	150	800	1650	433	946	439	381	153	124	27
MIN	18	38	50	30	70	61	45	55	26	8.8	5.2	3.7
CFSM	3.68	2.22	2.19	2.21	6.23	3.12	4.17	3.16	1.93	.79	.46	.17
IN.	4.25	2.48	2.53	2.54	6.73	3.60	4.65	3.64	2.15	.92	.52	.19

WTR YR 1976 TOTAL 41033.8 MEAN 112 MAX 2600 MIN 3.7 CFSM 2.51 IN 34.22

HUDSON RIVER BASIN

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01350200 WEST KILL AT NORTH BLENHEIM, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to August 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG/L)
FEB 18...	1230	--	68	6.9	1.5	13.9	101	60	210	20
JUN 25...	1445	--	74	7.8	19.5	--	--	68	110	28
AUG 18...	1300	37	98	8.2	19.0	9.6	104	83	85	37

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
FEB 18...	5	5.5	1.5	2.5	.4	18	0	15	9.1	3.9
JUN 25...	9	8.5	1.7	2.6	.8	24	0	20	8.4	3.7
AUG 18...	1	11	2.3	4.0	.9	44	0	36	6.2	1.1

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SILICATES (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
FEB 18...	.0	4.4	36	.29	.26	.55	.09	.04	4000	100
JUN 25...	.1	4.9	43	.06	.23	.29	.02	.01	320	10
AUG 18...	.1	4.6	52	.04	.28	.32	.01	.01	90	0

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT CHARGE (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT CHARGE (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB 19...	1115	E1090	122	E359	--	AUG 10...	1405	E124	27	E9.0	100

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

E Estimated.

HUDSON RIVER BASIN

01350355 SCHOHARIE CREEK AT BREAKABEEN, NY

LOCATION.--Lat 42°32'10", long 74°24'40", Schoharie County, Hydrologic Unit 02020005, on left bank 100 ft (30 m) downstream from bridge on State Highway 30, 0.9 mi (1.4 km) north of Breakabeen, and 1.1 mi (1.8 km) downstream from Keyser Kill. Water-quality sampling site at discharge station.

DRAINAGE AREA.--471 mi² (1,220 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 700 ft (213.4 m), from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor. Frequent regulation of flow by Blenheim-Gilboa Pumped Storage Project. Entire flow, runoff from 314 mi² (813 km²), except for period of spill, Feb. 1 to June 4, June 9-13, 17, 18, 24-26, June 30 to July 15, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York.

EXTREMES FOR CURRENT PERIOD.--July to September 1975: Maximum discharge during period, 892 ft³/s (25.3 m³/s) Sept. 25, gage height, 2.96 ft (0.902 m); minimum, 10 ft³/s (0.28 m³/s) Sept. 18, 19, gage height, 0.63 ft (0.192 m).

Water year 1976: Maximum discharge, 8,080 ft³/s (229 m³/s) Feb. 17, gage height, 7.50 ft (2.286 m); minimum, 11 ft³/s (0.31 m³/s) Sept. 9, 10, 15-17, gage height, 0.64 ft (0.195 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	15	20
2										---	15	19
3										---	14	17
4										---	12	16
5										---	14	16
6										---	14	16
7										---	79	16
8										---	74	15
9										---	48	15
10										---	26	15
11										---	21	13
12										---	46	15
13										---	52	26
14										---	59	23
15										---	68	19
16										---	19	17
17										---	19	13
18										---	17	10
19										---	15	11
20										---	14	15
21										---	13	42
22										---	13	40
23										---	12	35
24										---	14	60
25										---	15	480
26										---	14	372
27										---	13	627
28										---	12	280
29										19	13	152
30										17	57	125
31										16	26	---
TOTAL										---	843	2540
MEAN										---	27.2	84.7
MAX										---	79	627
MIN										---	12	10

HUDSON RIVER BASIN

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01350355 SCHOHARIE CREEK AT BREAKABEEN, NY--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	120	248	150	1000	1430	3210	1090	670	1870	45	20
2	92	103	244	170	4000	1190	3340	2630	644	962	38	20
3	88	110	232	150	594	1170	2000	1980	524	497	25	20
4	92	110	207	125	625	1370	1640	1710	161	344	22	20
5	84	105	164	122	443	2860	1460	1300	99	304	19	20
6	80	96	183	127	430	2540	1130	1200	96	481	17	18
7	68	94	164	122	420	1780	1110	1050	288	344	30	16
8	67	101	164	115	400	1580	784	1080	143	264	72	14
9	55	80	158	143	380	1040	819	805	144	396	42	11
10	45	74	248	149	350	1110	703	657	296	268	336	12
11	46	99	214	141	540	1100	644	757	292	152	122	17
12	65	103	189	140	500	764	664	1280	189	256	72	21
13	57	276	158	130	400	923	570	1120	113	221	58	17
14	183	296	141	210	500	1000	464	784	82	232	63	12
15	170	260	173	370	370	697	524	777	554	141	58	11
16	117	244	179	150	1120	736	1880	582	260	76	49	11
17	92	228	161	70	5070	571	1310	812	344	76	46	11
18	2380	221	130	80	3130	595	690	1140	292	52	37	17
19	923	228	96	92	5420	697	524	2000	173	41	33	19
20	607	214	110	100	3400	1330	553	3130	180	35	29	17
21	475	288	120	80	2080	1080	703	3300	326	33	27	15
22	396	367	138	244	4440	1340	559	2600	221	35	25	15
23	304	268	186	335	3340	825	411	2100	206	30	21	14
24	252	244	164	146	2160	710	454	1540	180	37	21	13
25	244	203	135	135	1920	743	757	1300	221	48	21	12
26	264	196	189	321	1620	459	3490	1190	173	37	19	12
27	203	244	386	2320	1500	497	2320	1050	130	37	26	28
28	176	326	228	1370	1690	1450	1930	863	86	29	27	43
29	179	240	122	683	1410	1180	1830	777	74	29	26	35
30	146	193	117	481	---	777	1420	582	193	27	33	25
31	133	---	130	450	---	878	---	553	---	35	23	---
TOTAL	8186	5731	5478	9461	49252	34453	37893	41739	7354	7389	1482	536
MEAN	264	191	177	305	1698	1112	1263	1346	245	238	47.8	17.9
MAX	2380	367	386	2320	5420	2460	3490	3300	670	1870	336	43
MIN	45	74	96	70	350	459	411	553	74	27	17	11
WTR YR 1976	TOTAL	208964	MEAN	571	MAX	5420	MIN	11				

HUDSON RIVER BASIN

01350355 SCHOHARIE CREEK AT BREAKABEEN, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1972, 1975 to September 1976 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1975 to September 1976.

INSTRUMENTATION.--Temperature recorder since October 1975.

REMARKS.--Interruptions in the temperature record were due to malfunctions of the instrument.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA+MG) (MG/L)
OCT 22...	0900	632	90	6.1	11.0	11.4	105	760	700	34
NOV 25...	1000	536	89	7.7	4.0	12.5	99	50	813	36
DEC 30...	1030	1117	106	7.5	.0	14.2	101	65	95	37
JAN 19...	1200	192	114	7.3	.5	14.5	102	81	84	40
FEB 18...	1130	2830	75	7.0	1.0	15.9	113	140	81200	24
MAR 25...	0930	486	77	7.0	5.0	14.6	115	84	120	23
APR 21...	0930	406	59	7.1	9.0	13.4	118	811	22	24
MAY 27...	0930	497	67	6.8	10.0	11.9	107	810	815	23
JUN 28...	1100	276	99	7.4	21.0	9.3	102	100	28	37
JUL 29...	1110	129	133	7.5	20.0	8.6	97	24	36	53
AUG 18...	1530	137	132	8.2	23.0	10.0	118	87	88	49
SEP 09...	1200	190	148	7.9	19.5	9.9	108	814	84	59

DATE	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT 22...	7	11	1.5	2.5	.9	33	0	27	11	3.3
NOV 25...	9	12	1.5	2.7	.6	33	0	27	14	3.0
DEC 30...	10	11	2.3	3.5	.6	33	0	27	11	4.0
JAN 19...	9	12	2.5	3.6	.7	38	0	31	13	5.8
FEB 18...	7	7.0	1.5	2.5	.6	20	0	16	11	3.8
MAR 25...	8	7.6	1.0	2.5	.6	18	0	15	10	3.6
APR 21...	10	7.0	1.7	2.2	.7	18	0	15	10	3.0
MAY 27...	6	6.5	1.7	2.0	.5	21	0	17	.6	.4
JUN 28...	2	11	2.3	2.9	.9	42	0	34	10	3.5
JUL 29...	8	16	3.2	3.7	1.0	55	0	45	17	4.3
AUG 18...	8	15	2.7	4.2	2.9	50	0	41	12	6.1
SEP 09...	11	18	3.3	4.2	1.0	58	0	48	17	5.2

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

E Estimated.

HUDSON RIVER BASIN

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01350355 SCHOHARIE CREEK AT BREAKABEEN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRIF- PLUS NITRATE (N) (MG/L)	TOTAL KJFL+ DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
OCT 22...	.0	4.3	51	.15	.45	.60	.05	.02	1400	50
NOV 25...	.1	3.7	54	.15	.15	.30	.02	.01	260	10
DEC 30...	.1	4.1	53	.37	.08	.45	.01	.01	160	0
JAN 19...	.2	4.1	61	.42	.12	.54	.01	.01	140	10
FEB 18...	.1	3.3	40	.49	.26	.75	.07	.03	1500	50
MAR 25...	.1	3.3	38	.40	.15	.56	.03	.01	600	20
APR 21...	.0	3.1	37	.36	.08	.44	.01	.01	360	20
MAY 27...	.0	2.9	25	.24	.18	.42	.02	.00	190	20
JUN 28...	.1	3.8	55	.28	.28	.56	.02	.01	220	30
JUL 29...	.1	4.1	77	.36	.13	.49	.00	.01	210	10
AUG 14...	.1	4.0	72	.13	.15	.28	.01	.01	100	10
SEP 09...	.1	3.4	81	.21	.20	.41	.02	.01	150	10

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB 19...	1230	4880	56	738	--	AUG 10...	1700	E26	65	E4.5	96

E Estimated.

HUDSON RIVER BASIN

01350355 SCHOHARIE CREEK AT BREAKABEEN, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	12.5	14.0	7.0	5.0	6.0	7.5	4.0	6.5	0.0	0.0	0.0
2	15.0	12.5	14.0	10.0	7.5	8.5	4.0	2.5	3.0	0.0	0.0	0.0
3	13.5	10.0	12.0	11.5	9.5	10.5	3.0	2.0	2.5	0.0	0.0	0.0
4	14.5	10.5	12.0	13.0	11.0	12.0	2.0	0.5	1.5	0.0	0.0	0.0
5	13.5	10.5	12.0	12.0	9.0	10.5	2.0	0.0	1.0	0.0	0.0	0.0
6	15.0	12.0	13.5	11.0	8.5	9.5	4.5	2.0	3.0	0.0	0.0	0.0
7	14.5	11.5	13.0	11.5	8.5	10.0	4.0	0.0	2.0	0.0	0.0	0.0
8	13.5	10.0	12.0	14.0	11.5	12.5	1.5	0.0	0.5	0.0	0.0	0.0
9	13.0	11.0	12.0	13.5	11.5	12.5	2.0	1.0	1.5	0.0	0.0	0.0
10	13.0	11.5	12.5	12.5	11.0	12.0	3.0	2.0	2.5	0.0	0.0	0.0
11	13.5	12.5	13.0	11.5	8.5	10.5	3.5	2.0	3.0	0.0	0.0	0.0
12	12.5	11.5	12.5	8.5	7.0	7.5	2.5	1.5	2.0	0.0	0.0	0.0
13	13.0	10.5	12.0	9.0	7.5	8.5	2.5	1.5	2.0	0.0	0.0	0.0
14	13.5	12.0	12.5	8.5	5.5	6.5	5.0	2.5	3.5	0.0	0.0	0.0
15	16.0	12.5	14.0	6.5	5.0	6.0	6.0	4.0	5.0	0.0	0.0	0.0
16	15.5	13.5	15.0	6.0	5.0	5.5	6.0	2.0	4.0	0.0	0.0	0.0
17	13.5	12.0	13.0	7.0	5.0	6.0	2.0	0.5	1.5	0.0	0.0	0.0
18	12.0	10.0	11.0	7.5	5.5	6.5	1.5	0.0	1.0	0.0	0.0	0.0
19	11.0	10.0	10.5	8.5	7.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0
20	11.5	10.0	10.5	8.5	6.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0
21	12.0	9.0	10.5	8.0	7.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0
22	13.0	10.5	11.5	7.5	5.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
23	13.0	10.0	11.5	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
24	13.0	10.0	11.5	5.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
25	12.5	11.0	12.0	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
26	12.5	10.5	11.5	4.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
27	11.5	8.5	10.0	4.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
28	12.0	8.5	10.0	5.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
29	11.0	10.5	10.5	4.5	3.5	4.0	0.0	0.0	0.0	0.5	0.0	0.0
30	10.5	6.0	8.5	7.0	3.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
31	7.0	4.5	6.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	16.0	4.5	12.0	14.0	3.0	7.5	7.5	0.0	1.5	0.5	0.0	0.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.0	---	---	---	---	---	---	10.0	7.5	9.0
2	0.5	0.0	0.0	---	---	---	---	---	---	10.5	9.0	9.5
3	0.5	0.0	0.0	---	---	---	---	---	---	10.0	8.5	9.0
4	0.5	0.0	0.0	---	---	---	---	---	---	9.0	7.5	8.5
5	---	---	---	---	---	---	---	---	---	11.5	7.0	9.0
6	---	---	---	---	---	---	---	---	---	12.0	9.0	10.0
7	---	---	---	---	---	---	---	---	---	10.5	9.0	10.0
8	---	---	---	---	---	---	---	---	---	11.5	8.5	9.5
9	---	---	---	---	---	---	---	---	---	12.0	8.0	10.0
10	---	---	---	---	---	---	---	---	---	14.5	8.5	11.5
11	---	---	---	---	---	---	---	---	---	12.0	10.0	11.0
12	---	---	---	---	---	---	---	---	---	10.5	9.5	10.0
13	---	---	---	---	---	---	---	---	---	12.5	8.5	10.5
14	---	---	---	---	---	---	---	---	---	14.0	9.5	11.5
15	---	---	---	---	---	---	---	---	---	14.5	11.5	12.5
16	---	---	---	---	---	---	---	---	---	15.0	11.5	13.0
17	---	---	---	---	---	---	---	---	---	14.5	12.5	13.5
18	---	---	---	---	---	---	---	---	---	13.0	11.5	12.0
19	---	---	---	---	---	---	---	---	---	11.5	10.0	10.5
20	---	---	---	---	---	---	11.5	8.5	10.0	10.5	9.5	10.0
21	---	---	---	---	---	---	12.0	7.5	9.5	11.5	10.0	10.5
22	---	---	---	---	---	---	11.5	8.5	10.0	11.0	10.0	10.5
23	---	---	---	---	---	---	12.5	8.5	10.0	12.0	9.5	10.5
24	---	---	---	---	---	---	10.0	7.5	9.0	12.5	10.0	11.0
25	---	---	---	---	---	---	9.0	8.0	8.0	11.5	10.5	11.0
26	---	---	---	---	---	---	8.5	7.5	8.0	11.0	10.5	11.0
27	---	---	---	---	---	---	9.0	7.5	8.0	14.0	10.0	12.0
28	---	---	---	---	---	---	9.0	7.5	8.0	16.0	11.0	13.0
29	---	---	---	---	---	---	10.0	7.5	8.5	16.0	12.0	14.0
30	---	---	---	---	---	---	10.5	7.5	8.5	14.5	13.0	13.5
31	---	---	---	---	---	---	---	---	---	16.5	13.0	14.5
MONTH	---	---	---	---	---	---	---	---	---	16.5	7.0	11.0

HUDSON RIVER BASIN

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01350355 SCHOHARIE CREEK AT BREAKABEEN, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	13.0	14.0				---	---	---	---	---	---
2	17.0	12.5	14.5				---	---	---	22.0	19.0	21.0
3	18.0	12.5	15.0				---	---	---	24.0	17.5	20.0
4	17.0	12.0	15.0				---	---	---	22.5	18.0	20.0
5	20.5	14.0	17.0				---	---	---	22.5	19.5	20.5
6	18.0	15.0	16.0				---	---	---	22.0	17.0	19.5
7	17.0	13.0	15.0				---	---	---	21.0	16.5	18.5
8	21.0	15.0	18.0				---	---	---	24.5	17.5	20.5
9	21.0	16.5	19.0				---	---	---	24.5	18.0	21.0
10	20.5	15.0	18.0				---	---	---	20.5	17.5	19.0
11	19.5	15.5	17.5				---	---	---	18.5	15.5	17.0
12	20.0	16.0	18.0				---	---	---	21.5	15.0	18.0
13	20.5	15.0	18.0				---	---	---	22.5	16.5	19.5
14	20.5	16.0	18.0				---	---	---	23.5	17.5	20.0
15	20.5	17.0	19.0				---	---	---	22.0	18.5	20.0
16	22.0	17.5	19.5				---	---	---	21.0	19.0	20.0
17	20.5	18.0	19.0				22.0	17.0	19.5	20.5	19.5	20.0
18	21.0	16.5	19.0				23.0	17.5	20.0	20.0	19.0	19.5
19	23.5	18.5	21.0				23.0	1.0	19.0	23.0	18.0	20.0
20	23.5	20.5	21.5				24.0	18.0	21.0	19.5	18.0	19.0
21	21.0	19.0	20.0				25.5	20.0	22.5	20.5	17.0	18.5
22	22.0	19.0	20.5				---	---	---	18.5	15.0	16.5
23	22.5	19.5	21.0				---	---	---	16.0	13.0	14.5
24	23.5	19.5	21.5				---	---	---	18.0	12.5	15.0
25	23.0	21.0	22.0				---	---	---	18.0	12.0	14.5
26	24.0	20.5	22.0				---	---	---	13.5	12.0	13.0
27	23.5	20.5	22.0				---	---	---	14.0	13.5	14.0
28	25.5	19.5	22.5				---	---	---	15.0	12.5	13.5
29	---	---	---				---	---	---	16.0	11.0	13.5
30	---	---	---				---	---	---	15.5	12.0	13.5
31	---	---	---				---	---	---	---	---	---
MONTH	25.5	12.0	18.5				---	---	---	24.5	11.0	18.0

HUDSON RIVER BASIN

01350500 SCHOHARIE CREEK AT MIDDLEBURG, NY

LOCATION.--Lat 42°35'58", long 74°20'12", Schoharie County, Hydrologic Unit 02020005, at bridge on State Highway 30 in Middleburg, and 20 mi (32 km) downstream from Gilboa Dam.

DRAINAGE AREA.--532 mi² (1,377 km²).

PERIOD OF RECORD.--Water years 1975 to September 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
OCT 22...	0830	100	6.1	11.0	11.5	106	8440	400	39	7
NOV 25...	0900	102	7.5	4.5	11.9	93	85	830	43	12
DEC 30...	1100	130	7.5	1.0	14.8	105	85	120	45	8
JAN 19...	1100	136	7.3	.5	14.4	101	50	20	50	9
FEB 18...	1000	75	6.9	1.0	15.2	108	100	1300	25	6
MAR 25...	0900	79	6.8	4.5	14.5	113	815	45	27	9
APR 21...	0830	80	6.9	9.0	13.0	113	35	40	31	13
JUN 24...	1415	116	7.6	23.0	--	--	420	140	45	7
JUL 29...	1400	165	7.6	20.5	7.8	88	100	130	67	14
AUG 18...	1645	160	7.9	22.0	10.5	121	85	58	65	8
SEP 09...	1030	198	7.4	17.0	8.4	88	550	250	78	16

DATE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CAC03 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)
OCT 22...	13	1.5	2.4	1.0	38	0	31	11	2.8	.1
NOV 25...	14	1.9	2.6	.6	38	0	31	14	2.2	.0
DEC 30...	14	2.5	3.4	.7	46	0	38	12	4.1	.2
JAN 19...	15	3.0	3.7	.8	50	0	41	15	5.8	.0
FEB 18...	7.5	1.4	2.3	.6	22	0	18	10	3.5	.1
MAR 25...	9.0	1.2	2.4	.7	22	0	18	10	3.0	.1
APR 21...	9.2	2.0	2.3	.7	22	0	18	11	2.9	.0
JUN 24...	14	2.4	2.8	1.2	46	0	38	11	3.6	.1
JUL 29...	22	3.0	3.5	1.1	65	0	53	18	4.7	.1
AUG 18...	21	3.0	4.4	1.1	69	0	57	12	1.4	.1
SEP 09...	25	3.8	4.4	1.2	76	0	62	19	6.5	.1

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

HUDSON RIVER BASIN

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01350500 SCHOHARIE CREEK AT MIDDLEBURG, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
OCT 22...	5.1	56	.22	.51	.73	.05	.02	1300	40
NOV 25...	4.1	58	.24	.13	.37	.01	.02	290	20
DEC 30...	4.1	64	.63	.10	.73	.01	.01	140	10
JAN 19...	4.3	72	.79	.07	.86	.02	.01	140	10
FEB 18...	3.6	40	.47	.24	.71	.08	.02	1900	60
MAR 25...	3.6	41	.47	.12	.59	.02	.01	550	20
APR 21...	3.1	42	.41	.10	.51	.02	.01	310	20
JUN 24...	4.0	62	.35	.28	.63	.03	.01	390	30
JUL 29...	4.3	89	1.0	.30	1.3	.00	.01	290	10
AUG 18...	4.4	81	.52	.20	.72	.01	.01	110	20
SEP 09...	4.4	102	.99	.20	1.2	.02	.01	240	40

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB 19...	1330	133	--	AUG 10...	1430	83	97

HUDSON RIVER BASIN

01351500 SCHOHARIE CREEK AT BURTONSVILLE, NY

LOCATION.--Lat 42°48'00", long 74°15'48", Schenectady County, Hydrologic Unit 02020005, on right bank 0.4 mi (0.6 km) south of Burtonsville, 2.7 mi (4.3 km) north of Esperance, and 13.5 mi (21.7 km) upstream from mouth.

DRAINAGE AREA.--883 mi² (2,287 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 507.98 ft (154.832 m) above sea level, unadjusted.

REMARKS.--Records good except those for winter periods, which are poor. Frequent regulation of flow by Blenheim-Gilboa Pumped Storage Project. Entire flow, runoff from 314 mi² (813 km²), except for period of spill, Feb. 1 to June 4, June 9-13, 17, 18, 24-26, June 30 to July 15, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York.

AVERAGE DISCHARGE.--37 years, 968 ft³/s (27.41 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,500 ft³/s (2,170 m³/s) Oct. 16, 1955, gage height, 12.39 ft (3.776 m); minimum, 2.4 ft³/s (0.068 m³/s) Sept. 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of March 1936 and September 1938 reached stages of 10.5 (3.20 m) and 10.2 ft (3.11 m), respectively, from information furnished by local resident. However, flood of October 1903 is known to have reached a higher stage than the 1936 or 1938 flood.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,000 ft³/s (566 m³/s) Oct. 18, gage height, 5.91 ft (1.801 m); minimum, 52 ft³/s (1.47 m³/s) Sept. 10, 16, gage height, 0.82 ft (0.250 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	799	488	1200	900	1420	2890	5820	2280	1190	2270	157	90
2	630	449	1340	740	3940	2570	7990	3650	1820	1720	156	150
3	542	413	1030	800	3450	2180	4680	3730	1300	1020	115	90
4	462	425	863	700	2900	1980	3460	3710	769	598	88	81
5	402	425	702	560	2450	6650	2690	2630	492	484	72	77
6	368	368	765	450	1990	7430	2240	2150	400	461	65	69
7	327	337	873	420	1640	4260	1970	1900	755	710	75	62
8	298	337	603	420	1480	3170	1710	1940	886	452	182	59
9	271	357	579	440	1390	2310	1470	1710	482	419	188	56
10	248	327	911	480	1230	2090	1370	1300	447	483	2080	59
11	234	347	1190	540	1450	2090	1200	1190	531	340	1760	66
12	263	379	831	600	2330	1660	1110	1950	520	249	576	77
13	298	1310	684	700	1870	1560	1030	2090	369	379	340	75
14	542	1880	617	760	2630	1780	980	1580	301	316	282	69
15	599	1620	676	820	1870	1520	793	1540	585	310	283	61
16	501	1490	721	700	3020	1280	2270	1250	804	229	246	54
17	437	1630	587	600	9660	1150	3030	1140	633	203	204	66
18	11800	1620	523	450	8320	926	1590	1520	664	217	171	87
19	7490	1430	384	460	12100	1210	1150	4860	445	161	147	104
20	6010	1170	370	500	8200	2830	963	8300	334	132	128	104
21	3120	1520	420	620	4750	3840	1060	7370	530	118	116	93
22	2140	2740	480	600	9210	3860	1090	5680	567	108	105	80
23	1600	1550	460	600	8710	2450	832	4000	495	104	94	72
24	1260	1240	450	700	4230	1840	827	3100	482	103	89	69
25	1060	1050	580	620	3820	1640	1110	2610	391	94	80	61
26	1160	918	700	580	3570	1570	8270	2420	399	87	80	59
27	947	994	800	7000	3770	1120	6090	2320	307	81	107	83
28	780	1600	1000	7930	3680	3960	4490	1850	263	78	130	164
29	694	1160	800	3860	2920	2850	3690	1520	213	70	110	175
30	630	939	700	2490	---	2010	2880	1170	246	82	90	139
31	542	---	780	1550	---	1830	---	1110	---	93	76	---
TOTAL	46454	30513	22619	38590	118000	78506	77855	83570	17620	12171	8392	2551
MEAN	1499	1017	730	1245	4069	2532	2595	2696	587	393	271	85.0
MAX	11800	2740	1340	7930	12100	7430	8270	8300	1820	2270	2080	175
MIN	234	327	370	420	1230	926	793	1110	213	70	65	54

CAL YR 1975 TOTAL 463626 MEAN 1270 MAX 15900 MIN 44
WTR YR 1976 TOTAL 536841 MEAN 1467 MAX 12100 MIN 54

01354000 MOHAWK RIVER AT TRIBES HILL, NY

LOCATION.--Lat 42°56'42", long 74°17'21", Montgomery County, Hydrologic Unit 02020004, at bridge on highway between Tribes Hill and Fort Hunter, 0.3 mi (0.5 km) downstream from Schoharie Creek.

DRAINAGE AREA.--3,096 mi² (8,019 km²).

PERIOD OF RECORD.--Water years 1973 to current year.

REMARKS.--New York State Water Quality Surveillance Network station 12 0320. Water-discharge data are based on records for 01357499 diversion from Mohawk River at Crescent Dam, and 01357500 Mohawk River at Cohoes.

COOPERATION.--Samples collected by New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Some of the 1975 data for this station were missing in "Water Resources Data for New York, Water Year 1975." Therefore, the complete 1975 records are included here.

DATE	TIME	DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- IDY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)
OCT											
07...	1200	E3080	278	7.5	12.0	7	6	10.0	--	13	42
22...	1500	E2830	250	7.5	9.0	20	5	11.4	--	13	31
NOV											
04...	1315	E2620	241	7.8	9.0	20	7	10.8	--	12	30
18...	1445	E6380	220	7.9	6.0	30	20	12.6	--	15	25
DEC											
09...	1445	E24900	221	7.5	2.0	100	30	12.6	--	40	37
JAN											
06...	1230	E4680	304	7.5	.5	20	5	13.8	--	11	37
20...	1515	E6420	332	7.5	.0	20	9	14.6	--	11	43
FEH											
03...	1400	E6950	250	7.5	1.0	30	10	14.0	--	12	31
18...	1255	E5000	296	7.5	1.5	9	4	13.4	--	10	30
MAR											
03...	1515	E8700	231	7.5	1.5	30	9	13.4	--	10	31
17...	1220	E4530	318	7.5	5.0	10	7	13.6	--	11	41
31...	1500	E8630	220	7.5	2.5	15	10	13.2	--	14	29
APR											
14...	1355	E6810	263	7.9	4.5	8	6	8.4	--	10	34
29...	0925	E9100	162	7.5	6.0	13	5	12.8	--	10	37
MAY											
12...	1315	E6020	187	--	15.0	7	4	10.4	--	12	27
28...	1040	E2580	240	7.9	21.5	9	3	7.6	--	14	33
JUL											
01...	1255	E2020	--	8.6	26.5	--	--	8.6	--	--	--
30...	1215	E1680	233	9.1	26.0	--	2	11.0	--	17	--
AUG											
28...	1015	E2490	314	9.1	23.0	--	5	8.8	101	18	--
DATE	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT											
07...	7.2	12	1.4	107	26	11	--	15	186	10	2.4
22...	5.9	6.0	1.8	95	23	8.8	--	8	162	6	.44
NOV											
04...	5.6	8.4	1.4	90	25	11	--	11	153	8	.42
18...	4.3	5.0	1.4	92	20	6.9	--	16	149	14	.41
DEC											
09...	7.5	4.5	1.8	100	17	7.8	--	305	436	278	.60
JAN											
06...	6.8	8.0	.8	115	27	11	--	7	170	2	.56
20...	8.4	10	1.2	130	29	13	--	10	201	10	.93
FEH											
03...	6.2	7.6	1.2	100	23	11	--	20	163	14	.75
18...	5.1	15	1.0	98	24	23	--	8	167	6	1.1
MAR											
03...	5.8	5.7	1.2	94	21	9.4	--	22	143	14	.80
17...	7.7	8.3	1.1	126	29	17	--	9	218	7	.87
31...	5.3	4.9	1.0	88	18	8.2	--	21	160	8	.87
APR											
14...	7.1	6.1	1.0	117	21	9.8	--	10	178	6	.90
29...	1.8	4.9	.7	58	15	7.1	--	6	102	5	.84
MAY											
12...	4.5	4.1	.9	73	17	7.5	--	12	126	11	.71
28...	5.7	6.3	.9	97	28	10	--	2	143	2	.59
JUL											
01...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	178	8	--	--	--
AUG											
28...	--	--	--	--	--	--	178	17	--	--	--

E Estimated.

HUDSON RIVER BASIN

01354000 MOHAWK RIVER AT TRIBES HILL, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Some of the 1975 data for this station were missing in "Water Resources Data for New York, Water Year 1975." Therefore, the complete 1975 records are included here.

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJFL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)
OCT										
07...	.01	.24	.72	--	.70	3.1	.06	.02	<1	4
22...	.01	.45	.43	.12	.55	1.0	.06	.03	<1	1
NOV										
04...	.01	.43	.55	.14	.69	1.1	.08	.02	1	15
18...	.01	.42	.30	.21	.51	.93	.06	.04	0	4
DEC										
09...	.00	.60	.42	.68	1.1	1.7	.43	.09	5	4
JAN										
06...	.02	.58	.39	.26	.65	1.2	.05	.03	0	2
20...	.01	.94	.30	.18	.48	1.4	.08	.03	0	3
FEB										
03...	.02	.77	.27	.08	.35	1.1	.05	.05	0	17
18...	.01	1.1	.53	.15	.68	1.8	.05	.03	1	1
MAR										
03...	.02	.82	.36	.08	.44	1.3	.06	.02	1	1
17...	.03	.90	.39	.26	.65	1.6	.06	.03	3	2
31...	.02	.89	.16	.37	.53	1.4	.07	.02	0	2
APR										
14...	.01	.91	.20	.09	.29	1.2	.05	.02	1	1
29...	.01	.95	.22	.23	.45	1.3	.04	.02	2	2
MAY										
12...	.01	.72	.05	.31	.36	1.1	.04	.02	1	1
28...	.04	.63	.14	.36	.50	1.1	.05	.01	1	0
JUL										
01...	--	--	--	--	--	--	--	--	1	0
30...	--	.61	.10	.75	.85	1.5	.04	--	1	0
AUG										
28...	--	.35	.31	.79	1.1	1.5	.05	--	0	0

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT										
07...	20	230	6	50	<.5	40	7.3	--	--	--
22...	10	400	3	130	<.5	30	6.1	0	--	--
NOV										
04...	10	390	3	80	<.5	100	4.6	--	--	--
18...	10	560	2	100	<.5	20	6.1	--	--	--
DEC										
09...	30	9000	17	330	<.5	60	9.9	--	--	--
JAN										
06...	10	470	5	80	<.5	30	3.8	--	--	--
20...	30	470	3	60	<.5	10	3.6	--	--	--
FEB										
03...	0	620	11	50	<.5	20	3.1	--	--	--
18...	10	330	5	40	<.5	10	3.3	--	--	--
MAR										
03...	10	590	2	60	<.5	20	12	--	--	--
17...	20	450	2	40	<.5	30	3.9	--	--	--
31...	0	500	3	50	<.5	20	3.6	0	.000	.000
APR										
14...	10	370	2	50	<.5	60	9.1	--	--	--
29...	20	330	3	50	<.5	30	3.0	--	--	--
MAY										
12...	0	340	3	80	<.5	40	4.2	--	--	--
28...	20	240	11	50	<.5	30	4.3	--	--	--
JUL										
01...	10	--	1	--	<.5	10	3.0	--	--	--
30...	0	200	4	--	<.5	30	3.8	0	13.0	.000
AUG										
28...	10	220	160	--	<.5	20	6.4	0	17.0	.000

HUDSON RIVER BASIN

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01354000 MOHAWK RIVER AT TRIBES HILL, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)
OCT										
02...	1010	E6650	7.8	15.0	8	9.4	94	17	33	5.7
22...	1030	E14100	7.8	12.0	15	11.0	103	17	--	--
NOV										
20...	0945	E7430	8.1	6.5	5	12.2	101	1	18	2.5
JAN										
20...	1200	E4130	7.9	.0	4	14.4	100	14	--	--
FEB										
17...	1230	E15600	8.7	1.0	25	14.2	100	23	36	5.8
MAR										
04...	1050	E16200	7.2	.5	10	15.2	107	14	--	--
31...	1010	E14600	7.4	5.0	10	12.6	100	17	--	--
APR										
28...	1000	E18700	7.5	7.5	10	12.4	105	14	--	--
MAY										
26...	0900	E7670	7.6	11.5	10	11.4	96	14	26	4.3
JUL										
22...	1140	E3230	7.9	22.0	20	8.2	94	19	--	--

DATE	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS PER AC-FT
OCT									
02...	10	1.8	101	0	83	21	13	158	.21
22...	--	--	--	--	--	--	--	194	.26
NOV									
20...	10	1.4	121	0	99	21	14	170	.23
JAN									
20...	--	--	--	--	--	--	--	179	.24
FEB									
17...	9.9	2.1	105	0	86	22	16	173	.24
MAR									
04...	--	--	--	--	--	--	--	151	.21
31...	--	--	--	--	--	--	--	131	.18
APR									
28...	--	--	--	--	--	--	--	171	.23
MAY									
26...	8.0	.9	78	0	64	17	13	117	.16
JUL									
22...	--	--	--	--	--	--	--	152	.21

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)
OCT									
02...	17	.38	.30	.51	.81	1.2	.08	1	2
22...	27	.40	.15	.53	.68	1.1	.08	0	0
NOV									
20...	14	.46	.22	.33	.55	1.0	.07	0	1
JAN									
20...	6	.93	.81	.89	1.7	2.6	.07	0	10
FEB									
17...	78	.85	.29	.58	.87	1.7	.14	2	1
MAR									
04...	19	.93	.19	.46	.65	1.6	.08	0	1
31...	20	.90	.15	.42	.57	1.5	.09	0	0
APR									
28...	19	.76	.18	.52	.70	1.5	.06	0	0
MAY									
26...	12	.58	.28	.42	.70	1.3	.06	0	1
JUL									
22...	34	.47	.33	.42	.75	1.2	.06	1	1

E Estimated.

HUDSON RIVER BASIN

01354000 MOHAWK RIVER AT TRIBES HILL, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT									
02...	10	570	10	<.5	20	6.0	0	.000	.000
22...	0	820	6	<.5	30	6.2	0	.000	.000
NOV									
20...	10	440	72	<.5	50	4.5	1	.000	.000
JAN									
20...	10	270	61	<.5	40	4.1	0	.000	.000
FEB									
17...	0	1800	59	<.5	20	5.9	1	.000	.000
MAR									
04...	10	630	9	<.5	30	--	1	.000	.000
31...	10	1000	4	<.5	20	5.9	1	.000	.000
APR									
28...	10	640	6	<.5	90	6.6	1	3.80	.000
MAY									
26...	10	510	7	<.5	20	4.7	0	--	--
JUL									
22...	0	590	6	<.5	20	7.9	0	3.04	.000

HUDSON RIVER BASIN

99

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, NY

LOCATION.--Lat 42°55'03", long 74°08'31", Montgomery County, Hydrologic Unit 02020004, at Erie (Barge) Canal Lock 10, 0.2 mi (0.3 km) upstream from Evas Kill, 0.3 mi (0.5 km) west of Cranesville, and 0.8 mi (1.3 km) downstream from Terwilleger Creek.

DRAINAGE AREA.--3,220 mi² (8,340 km²).

PERIOD OF RECORD.--Water years 1969 to current year.

REMARKS.--New York State Water Quality Surveillance Network station 12 0300. Water-discharge data are based on records for 01357499 diversion from Mohawk River at Crescent Dam, and 01357500 Mohawk River at Cohoes.

COOPERATION.--Samples collected by New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)
OCT										
02... E6650		7.1	14.5	9	9.8	97	17	31	5.6	5.7
22... E14100		7.8	11.5	20	10.8	108	20	--	--	--
NOV										
19... E8510		8.2	6.5	6	14.0	116	13	35	5.7	6.0
JAN										
20... E4130		7.9	.0	3	13.6	94	11	--	--	--
MAR										
04... E15000		7.3	.5	10	14.0	102	12	26	4.4	5.8
30... E17000		7.6	6.5	10	12.0	98	14	--	--	--
APR										
27... E24900		7.4	7.5	25	12.0	102	14	--	--	--
MAY										
26... E8320		7.6	12.0	5	10.8	101	13	25	4.3	4.9
JUL										
22... E3190		8.0	23.0	15	8.8	104	17	--	--	--

DATE	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT									
02...	1.9	100	0	82	17	7.6	158	.21	18
22...	--	--	--	--	--	--	206	.28	38
NOV									
19...	1.5	109	0	89	19	9.4	157	.21	10
JAN									
20...	--	--	--	--	--	--	185	.25	4
MAR									
04...	1.1	74	0	61	17	10	125	.17	19
30...	--	--	--	--	--	--	134	.18	11
APR									
27...	--	--	--	--	--	--	140	.19	42
MAY									
26...	1.1	78	0	64	16	8.5	110	.15	11
JUL									
22...	--	--	--	--	--	--	168	.23	21

E Estimated.

HUDSON RIVER BASIN

01354160 MOHAWK RIVER AT LOCK 10 AT CRANESVILLE, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
OCT									
02...	.93	.50	.13	.63	1.6	.09	0	2	<10
22...	.36	.06	.53	.59	.95	.16	1	1	10
NOV									
19...	.44	.07	.43	.50	.94	.05	0	0	0
JAN									
20...	.83	.29	.27	.56	1.4	.06	0	1	10
MAR									
04...	2.5	.09	.63	.72	3.2	.07	0	0	<10
30...	.77	.06	.14	.20	.97	.05	0	0	<10
APR									
27...	.51	.08	.37	.45	.96	.07	0	0	<10
MAY									
26...	.45	.12	.41	.53	.98	.10	0	1	<10
JUL									
22...	.52	.15	.38	.53	1.1	.06	0	2	10

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT									
02...	10	680	21	<.5	30	6.0	1	.000	.000
22...	0	1200	100	<.5	120	5.8	1	.000	.000
NOV									
19...	20	380	4	<.5	50	4.1	0	.000	.000
JAN									
20...	20	200	88	<.5	50	3.3	3	.000	.000
MAR									
04...	10	530	10	<.5	40	4.8	1	.000	.000
30...	0	630	6	<.5	40	4.0	0	.000	.000
APR									
27...	10	1300	3	<.5	10	5.2	1	.000	.000
MAY									
26...	10	440	9	<.5	20	5.2	0	--	--
JUL									
22...	0	690	13	<.5	20	--	0	--	--

HUDSON RIVER BASIN

101

01354490 MOHAWK RIVER AT SCHENECTADY, NY

LOCATION.--Lat 42°49'07", long 73°56'59", Schenectady County, Hydrologic Unit 02020004, at abutment of former bridge at end of Washington Avenue in Schenectady, 0.3 mi (0.5 km) downstream from Western Gateway Bridge, and 1.0 mi (1.6 km) upstream from Collins Creek.

DRAINAGE AREA.--3,302 mi² (8,552 km²).

PERIOD OF RECORD.--Water years 1969 to current year.

REMARKS.--New York State Water Quality Surveillance Network station 12 0005. Water-discharge data are based on records for 01357499 diversion from Mohawk River at Crescent Dam, and 01357500 Mohawk River at Cohoes.

COOPERATION.--Samples collected by New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)
OCT										
01...	1325	E8860	7.7	16.0	35	10.0	102	23	34	5.4
21...	1125	E17700	7.4	11.0	40	10.8	99	22	--	--
NOV										
19...	1115	E8510	8.3	7.0	4	12.8	106	10	28	4.5
FEB										
10...	1200	E6380	8.0	.5	4	14.2	100	8	34	5.8
MAR										
03...	1330	E16700	7.3	.0	15	14.5	101	15	--	--
30...	1315	E17000	7.8	6.5	15	13.4	106	15	--	--
APR										
27...	1130	E25100	7.4	7.5	30	12.0	102	18	--	--
MAY										
25...	1300	E8980	7.3	12.5	25	11.4	108	14	28	4.2
JUL										
23...	0845	E3320	8.0	23.0	15	8.2	96	16	--	--

DATE	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
OCT									
01...	4.8	1.9	96	0	79	15	6.6	184	.25
21...	--	--	--	--	--	--	--	193	.26
NOV									
19...	7.0	1.6	114	0	94	18	10	155	.21
FEB									
10...	8.1	1.2	106	0	87	23	12	159	.22
MAR									
03...	--	--	--	--	--	--	--	131	.18
30...	--	--	--	--	--	--	--	119	.16
APR									
27...	--	--	--	--	--	--	--	148	.20
MAY									
25...	5.4	1.3	79	0	65	15	6.5	98	.13
JUL									
23...	--	--	--	--	--	--	--	154	.21

E Estimated.

HUDSON RIVER BASIN

01354490 MOHAWK RIVER AT SCHENECTADY, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)
OCT									
01...	192	.38	.04	.81	.85	1.2	.17	1	0
21...	60	.31	.06	.58	.64	.95	.19	1	0
NOV									
19...	14	.39	.12	.29	.41	.80	.08	0	8
FER									
10...	6	.86	.25	.26	.51	1.4	.06	0	2
MAR									
03...	32	.83	.11	.37	.48	1.3	.07	0	1
30...	16	.76	.09	.26	.35	1.1	.06	0	0
APR									
27...	59	.60	.11	.57	.68	1.3	.12	0	1
MAY									
25...	18	.57	.13	.45	.58	1.2	.08	0	7
JUL									
23...	15	.55	.11	.64	.75	1.3	.06	0	1

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT									
01...	20	2100	170	<.5	50	5.2	0	.000	.000
21...	20	2200	13	<.5	30	4.8	0	.000	.000
NOV									
19...	10	410	7	<.5	40	5.8	2	.000	.000
FER									
10...	10	280	470	<.5	30	3.7	0	.000	.000
MAR									
03...	10	880	6	<.5	50	6.0	0	--	--
30...	10	850	3	<.5	10	4.9	0	.000	.000
APR									
27...	10	2600	10	<.5	90	6.4	1	4.20	.000
MAY									
25...	10	1000	120	<.5	20	11	0	--	--
JUL									
23...	0	650	5	<.5	10	6.1	1	.000	.000

HUDSON RIVER BASIN

103

01357000 MOHAWK RIVER AT CRESCENT DAM, NY

LOCATION.--Lat 42°48'22", long 73°43'24", Albany County, Hydrologic Unit 02020004, at hydroelectric station at Crescent Dam, and 1.7 mi (2.7 km) upstream from discharge station (01357500) at Cohoes.

DRAINAGE AREA.--3,453 mi² (8,943 km²).

PERIOD OF RECORD.--Water years 1969 to current year.

REMARKS.--New York State Water Quality Surveillance Network station 12 0002. Water-discharge data are based on records for 01357499 diversion from Mohawk River at Crescent Dam, and 01357500 Mohawk River at Cohoes.

COOPERATION.--Samples collected by New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)
OCT										
01...	1150	E8860	7.5	16.0	25	9.2	94	23	31	5.2
21...	1245	E17700	7.4	11.5	35	10.8	100	21	--	--
NOV										
19...	1315	E8510	8.2	7.0	7	12.4	103	12	35	6.0
JAN										
07...	1310	E4350	8.3	.0	3	14.8	102	12	--	--
FEB										
10...	1015	E6380	8.1	.0	2	14.4	100	9	33	5.7
MAR										
03...	1000	E17200	7.5	.5	15	15.2	107	9	--	--
30...	1010	E15900	7.3	6.0	25	12.8	104	15	--	--
APR										
26...	1400	E18100	7.5	10.5	15	9.4	85	14	--	--
MAY										
25...	1030	E9740	7.5	12.5	20	10.8	102	26	28	4.1
JUL										
23...	1000	E3250	7.7	22.5	20	7.4	84	25	--	--

DATE	TOTAL SOLIDS (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
OCT									
01...	4.3	2.1	83	0	68	13	5.8	306	.42
21...	--	--	--	--	--	--	--	215	.29
NOV									
19...	6.5	1.7	117	0	96	20	8.3	170	.23
JAN									
07...	--	--	--	--	--	--	--	172	.23
FEB									
10...	9.9	1.3	107	0	88	22	15	162	.22
MAR									
03...	--	--	--	--	--	--	--	159	.22
30...	--	--	--	--	--	--	--	147	.20
APR									
26...	--	--	--	--	--	--	--	110	.15
MAY									
25...	4.4	1.2	78	0	64	14	6.4	115	.16
JUL									
23...	--	--	--	--	--	--	--	161	.22

E Estimated.

HUDSON RIVER BASIN

01357000 MOHAWK RIVER AT CRESCENT DAM, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)
OCT									
01...	30	.37	.08	.66	.74	1.1	.11	2	1
21...	64	.32	.08	.92	1.0	1.3	.13	22	0
NOV									
19...	15	.37	.13	.36	.49	.86	.07	0	0
JAN									
07...	6	.78	.25	.24	.49	1.3	.06	1	1
FEB									
10...	4	.80	.27	.24	.51	1.3	.06	0	2
MAR									
03...	38	.76	.14	.32	.46	1.2	.09	1	0
30...	31	.66	.09	.38	.47	1.1	.08	0	0
APR									
26...	24	.75	.25	.53	.78	1.5	.08	0	0
MAY									
25...	29	.50	.16	.59	.75	1.3	.17	0	1
JUL									
23...	26	.56	.15	.78	.93	1.5	.12	1	1

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT									
01...	10	1200	140	<.5	30	4.8	0	.000	.000
21...	30	2100	17	<.5	40	4.8	0	.000	.000
NOV									
19...	10	590	7	<.5	50	4.5	0	.000	.000
JAN									
07...	10	340	270	<.5	10	3.1	3	.000	.000
FEB									
10...	10	330	91	<.5	30	4.4	1	.000	.000
MAR									
03...	0	1200	5	<.5	40	4.2	2	.000	.000
30...	10	1600	5	<.5	20	4.9	0	.000	.000
APR									
26...	10	1100	11	<.5	30	5.4	1	.000	.000
MAY									
25...	10	1200	130	<.5	20	6.6	0	--	--
JUL									
23...	10	1200	6	<.5	20	7.0	1	.000	.000

01357500 MOHAWK RIVER AT COHOES, NY

LOCATION.--Lat 42°47'07", long 73°42'29", Albany County, Hydrologic Unit 02020004, on right bank at Niagara Mohawk Power Corp. School Street powerplant in Cohoes, and 2.0 mi (3.2 km) upstream from mouth. Water-quality sampling site at bridge on State Highway 32, 0.7 mi (1.1 km) downstream from discharge station.

DRAINAGE AREA.--3,456 mi² (8,951 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1917 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to July 17, 1925, published as "at Crescent Dam".

REVISED RECORDS.--WSP 741: Drainage area. WSP 1302: 1919-23 (M). WRD NY 1974: 1970.

GAGE.--Water-stage recorder. Datum of gage is 49.13 ft (14.975 m) above mean sea level. Dec. 1, 1917, to July 16, 1925, water-stage recorder at site 1.7 mi (2.74 km) upstream at Crescent Dam at datum 130.87 ft (39.889 m) higher. July 17 to Oct. 19, 1925, powerplant gage at present site.

REMARKS.--Records fair. Total flow of Mohawk River equals flow published at Cohoes which includes small diversion for Cohoes water supply plus flow diverted at Crescent Dam to Barge Canal through Lock 6. Prior to 1925 records published as total flow. See Diversions in Hudson River Basin for regulation and diversions upstream from this station.

COOPERATION.--Diversions through Barge Canal at Lock 6 furnished by New York State Department of Transportation.

AVERAGE DISCHARGE.--7 years (1919-25), 5,820 ft³/s (164.8 m³/s), includes diversion at Lock 6; 51 years (1926-76), 5,681 ft³/s (160.9 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 143,000 ft³/s (4,050 m³/s) Mar. 6, 1964, result of release from ice jam, gage height, 23.15 ft (7.056 m), from rating curve extended above 100,000 ft³/s (2,830 m³/s); minimum, 6 ft³/s (0.17 m³/s) Sept. 18, 1941, gage height, 3.40 ft (1.036 m); minimum daily, 23 ft³/s (0.65 m³/s) Aug. 24, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 41,000 ft³/s (1,160 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	2015	55,300 1,570	18.26 5.566	Feb. 23	0900	46,700 1,320	17.56 5.352
Feb. 20	0200	*62,700 1,780	*18.80 5.730	Apr. 2	0415	52,100 1,480	18.01 5.489

Minimum discharge, 147 ft³/s (4.16 m³/s) Aug. 29, gage height, 4.74 ft (1.445 m); minimum daily, 1,620 ft³/s (45.88 m³/s) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8030	4210	9620	4820	7920	21300	23500	8770	3740	16000	2950	2220
2	6020	4170	14100	4520	7740	20900	43700	8470	5110	9360	3300	2330
3	6780	4020	11100	4340	9170	16000	26800	11900	5040	7710	3960	2530
4	4630	5310	9860	4090	8870	13700	21000	13800	3780	5820	3120	2680
5	4430	6230	7880	4110	8280	15100	16800	10500	3470	4700	2950	2590
6	4280	4540	5910	3920	7470	33900	14000	8470	2670	3980	2280	1810
7	3820	4590	7950	3980	6650	24900	12000	7170	5940	3210	2600	1620
8	3050	4590	7810	3860	6170	18300	9590	7030	10800	3820	4750	1880
9	3230	4520	6560	3880	5990	14200	7990	7360	7130	4800	5240	2050
10	2840	4750	6530	3840	5710	11000	8240	6470	4430	5740	12300	2480
11	3210	5090	8100	3820	5440	10600	8620	4990	3700	3080	11400	2450
12	4230	6470	7570	3380	6620	9470	8650	8060	4990	11500	5770	2420
13	3300	10000	6440	3450	7670	8730	8060	8840	3300	10500	4450	2470
14	5570	13400	5850	3820	7990	8910	7330	7070	3010	9860	4230	2450
15	6870	12100	5910	3860	8690	8730	6440	11700	7330	6970	4750	1910
16	5740	9590	6650	4280	8650	7880	6080	9740	8210	4990	4450	2420
17	5630	9510	6810	4430	16700	6840	12700	8240	7400	8650	4800	2380
18	31200	8730	5990	4170	28500	5550	11300	7330	7640	5850	3880	2250
19	31900	7710	4990	3900	29200	5770	8100	12400	6680	4630	3430	3880
20	31100	6720	3880	3840	39600	7360	8170	31500	4700	4610	2730	2710
21	16900	7470	3820	2830	27200	19200	8540	27400	5260	4110	2250	2510
22	13200	17200	3760	3380	27100	25600	7780	22300	6650	3260	1990	2540
23	9660	10700	3820	3610	40600	18800	7300	16000	9660	2830	2390	2310
24	6560	7710	4210	3660	24500	15700	6230	12300	6350	3030	2350	1960
25	6530	6290	3760	2590	19800	14800	6110	9430	4990	2670	2500	2160
26	6680	6530	3700	2910	19400	14400	16800	7530	7530	2470	2270	2320
27	5990	6620	3800	4360	21300	13800	25100	9620	6840	2360	2220	3700
28	5600	9550	4500	11900	24600	22000	16900	8280	5420	2360	2190	6720
29	4590	8500	4770	15000	20900	21800	10800	5440	4630	2360	2470	4540
30	4360	7300	4920	14900	---	16200	9660	5090	3530	3230	4020	4410
31	4680	---	4360	9900	---	13800	---	4570	---	3280	3340	---
TOTAL	260610	224120	194930	155350	458430	465240	384290	327770	169930	167740	121330	80700
MEAN	8407	7471	6288	5011	15810	15010	12810	10570	5664	5411	3914	2690
MAX	31900	17200	14100	15000	40600	33900	43700	31500	10800	16000	12300	6720
MIN	2840	4020	3700	2590	5440	5550	6080	4570	2670	2360	1990	1620

CAL YR 1975	TOTAL	2579438	MEAN	7067	MAX	49600	MIN	237
WTR YR 1976	TOTAL	3010440	MEAN	8225	MAX	43700	MIN	1620

HUDSON RIVER BASIN

01357500 MOHAWK RIVER AT COHOES NY--Continued

(01357499) Diversion, in cubic feet per second, from Mohawk River at Crescent Dam, NY, through Barge Canal at lock 6, water year October 1975 to September 1976

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	102	90	3.0	3.0	3.0	3.0	77	95	83	113	125
2	102	78	72	3.0	3.0	3.0	3.0	77	89	107	119	137
3	126	96	102	3.0	3.0	3.0	3.0	83	89	89	101	125
4	144	108	78	3.0	3.0	3.0	3.0	95	107	107	125	137
5	132	108	84	3.0	3.0	3.0	3.0	89	89	125	131	119
6	138	84	58	3.0	3.0	3.0	3.0	95	83	101	107	131
7	114	96	58	3.0	3.0	3.0	3.0	95	71	125	107	137
8	132	90	58	3.0	3.0	3.0	3.0	77	89	107	131	125
9	126	84	58	3.0	3.0	3.0	3.0	89	83	107	107	107
10	114	102	58	3.0	3.0	3.0	3.0	107	83	89	107	119
11	102	84	40	3.0	3.0	3.0	3.0	113	83	107	197	125
12	108	90	20	3.0	3.0	3.0	3.0	95	101	113	143	125
13	138	102	3.0	3.0	3.0	3.0	3.0	95	107	107	149	101
14	120	90	3.0	3.0	3.0	3.0	3.0	101	95	107	131	89
15	108	90	3.0	3.0	3.0	3.0	3.0	101	77	107	119	125
16	120	78	3.0	3.0	3.0	3.0	3.0	89	83	101	125	131
17	126	96	3.0	3.0	3.0	3.0	3.0	89	95	107	143	143
18	72	102	3.0	3.0	3.0	3.0	3.0	83	107	113	137	119
19	72	84	3.0	3.0	3.0	3.0	3.0	77	119	95	119	125
20	72	78	3.0	3.0	3.0	3.0	3.0	53	77	125	137	119
21	90	108	3.0	3.0	3.0	3.0	3.0	59	83	101	125	149
22	114	72	3.0	3.0	3.0	3.0	3.0	77	101	101	125	107
23	114	102	3.0	3.0	3.0	3.0	3.0	83	95	107	125	119
24	90	120	3.0	3.0	3.0	3.0	3.0	89	95	89	155	113
25	120	102	3.0	3.0	3.0	3.0	3.0	137	101	95	113	95
26	108	108	3.0	3.0	3.0	3.0	621	143	107	125	113	113
27	108	102	3.0	3.0	3.0	3.0	59	101	101	101	137	155
28	126	84	3.0	3.0	3.0	3.0	53	107	95	119	119	137
29	114	90	3.0	3.0	3.0	3.0	77	101	125	95	113	113
30	84	72	3.0	3.0	---	3.0	83	95	83	135	125	143
31	102	---	3.0	3.0	---	3.0	---	89	---	123	113	---
TOTAL	3438	2802	833.0	93.0	87.0	93.0	968.0	2861	2808	3313	3911	3708
MEAN	111	93.4	26.9	3.00	3.00	3.00	32.3	92.3	93.6	107	126	124
MAX	144	120	102	3.0	3.0	3.0	621	143	125	135	197	155
MIN	72	72	3.0	3.0	3.0	3.0	3.0	53	71	83	101	89

CAL YR 1975 TOTAL 26536.0 MEAN 72.7 MAX 500 MIN 3.0
 WTR YR 1976 TOTAL 24915.0 MEAN 68.1 MAX 621 MIN 3.0

01357500 MOHAWK RIVER AT COHOES, NY

REGULATION

(see Reservoirs in Hudson River Basin)

Delta Dam.
 Hinckley Reservoir.
 Schoharie Reservoir.

DIVERSIONS

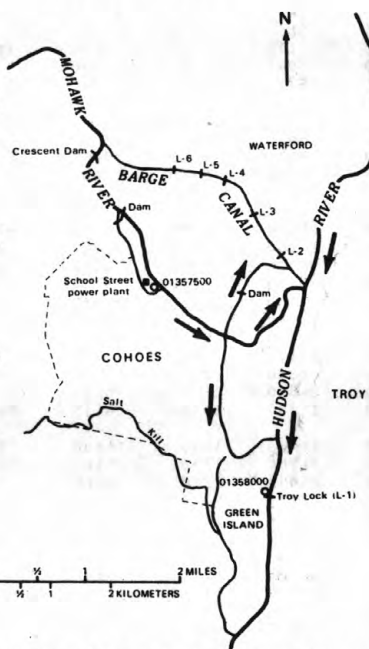
(see Reservoirs in Hudson River Basin)

From Chenango River basin through
 Oriskany Creek Feeder.

From (and occasionally into) Oswego
 River basin through summit level of
 Erie (Barge) Canal between New London
 and Utica.

From Black River basin through Black
 River Canal during navigation period.

Into Esopus Creek from Schoharie
 Reservoir through Shandaken Tunnel
 for New York City water supply.



01358000 HUDSON RIVER AT GREEN ISLAND, NY

REGULATION

Great Sacandaga Lake at Conklingville
 (see station 01323500).
 Indian Lake near Indian Lake (see
 station 01314500).
 Mohawk River regulation listed
 under Mohawk River at Cohoes.

DIVERSIONS

Mohawk River diversions listed
 under Mohawk River at Cohoes.

Into St. Lawrence River basin through:
 Glens Falls feeder at Dunham Basin
 (see station 01327500).
 Bond Creek at Dunham Basin (see
 station 01328000).
 Champlain (Barge) Canal (see station
 01327500).

From St. Lawrence River basin through
 summit level of Champlain (Barge)
 Canal at Dunham Basin.

Figure 7.--Gaging stations and diversions near mouth of Mohawk River.

HUDSON RIVER BASIN

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01357500 MOHAWK RIVER AT COHOES, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-59, 1970, and current year.

REMARKS.--Unpublished records of once-daily specific-conductance measurements for January 1952 to June 1959 are available in files of district office. Also available are once-daily measurements of pH for January 1952 to April 1956.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	COD IN BOTTOM MA- TERIAL (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL KJEL. NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)
MAY 17...	1330	9090	110000	16	2300	390	6	1

DATE	TIME	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)
MAY 17...	26	28	11000	120	310	.8	99	42	

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL COPPER (UG/L)	TOTAL IRON (UG/L)	TOTAL LEAD (UG/L)	TOTAL MAN- GANESE (UG/L)	TOTAL PCB (UG/L)	POLY- CHLO- RINATED NAPH- THA- LENES (UG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)
AUG 10...	13400	10	1100	8	80	.0	.00	.00	.0	.00	.00	.00

DATE	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION (UG/L)
AUG 10...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0	.00

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT (MG/L)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT (MG/L)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAR 15...	1500	9090	10	245	78	AUG 10...	1315	13400	36	1300	99
AUG 10...	1130	13400	36	1300	95	AUG 10...	1320	13400	39	1410	93
AUG 10...	1230	13500	41	1490	90	AUG 10...	1400	13300	39	1400	92

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, NY
(National stream-quality accounting network station)

LOCATION.--Lat 42°45'08", long 73°41'22", Albany County, Hydrologic Unit 02020003, on right bank at Green Island, just upstream from Troy lock and dam, and 0.5 mi (0.8 km) downstream from 5th branch Mohawk River, Water-quality sampling site at bridge on State Highway 7, 1.7 mi (2.7 km) downstream from discharge station.

DRAINAGE AREA.--8,090 mi² (20,953 km²), approximately (including that above site of former auxiliary gage).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 0.31 ft (0.094 m) below mean sea level (Corps of Engineers bench mark). From July 1, 1946 to Mar. 12, 1962 auxiliary water-stage recorder on bypass channel at datum 10.59 ft (3.228 m) higher.

REMARKS.--Records fair. Records include flow over spillway, estimates of flow through lock, and flow through powerplant. Powerplant, located on right bank just downstream from gage, was inoperative from Nov. 20, 1960 to Feb. 23, 1971. See Diversions in Hudson River Basin for regulation and diversions upstream from this station.

AVERAGE DISCHARGE.--30 years, 13,580 ft³/s (384.6 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181,000 ft³/s (5,130 m³/s) Dec. 31, 1948, gage height, 27.05 ft (8.245 m), from high-water mark in gage well; maximum daily, 141,000 ft³/s (3,990 m³/s) Dec. 31, 1948, Jan. 1, 1949; minimum daily, 882 ft³/s (25.0 m³/s) Sept. 2, 1968; minimum gage height 13.92 ft (4.243 m) Sept. 2, 1946.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1936, reached a stage of 29.48 ft (8.986 m) at gage on opposite bank, from information by Corps of Engineers (discharge, 215,000 ft³/s or 6,090 m³/s). Flood of Mar. 28, 1913, prior to construction of Sacandaga Reservoir and Troy lock and dam, reached a stage about 0.2 ft (0.06 m) higher upstream from former dam near same site. Downstream from dams, flood in 1913 was about 3.3 ft (1.01 m) higher than flood in 1936, from information by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 106,000 ft³/s (3,002 m³/s) Apr. 2, gage height, 22.82 ft (6.956 m); minimum daily, 6,320 ft³/s (179 m³/s) Sept. 7; minimum gage height, 15.38 ft (4.688 m) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21900	16500	22900	14900	22800	37400	55500	26300	17300	36900	13000	8670
2	18300	15600	30700	13500	24000	38300	99900	28400	18500	26000	16800	9600
3	18400	15700	26800	13200	30500	30600	80600	32100	15800	22500	14900	9310
4	14600	15100	24700	12500	26600	29700	66000	34100	14400	19500	12000	9540
5	15100	16600	21500	12800	23600	31300	53900	27600	13100	17800	11000	8820
6	12300	15000	19200	12100	20300	56800	46000	24000	9400	15300	10300	8210
7	13700	14300	21100	11200	18600	47100	40800	23600	12200	13200	10400	6320
8	12600	14000	21800	11900	17500	35600	36400	23400	20700	12500	14600	6650
9	11400	14300	20000	11600	15100	29800	33100	23800	17600	13800	13500	8000
10	10200	16500	20100	11100	15900	26600	31500	22500	13100	14100	27900	9040
11	10400	18100	23800	10500	16200	25100	31200	19700	12900	10400	44500	10800
12	14000	20900	24400	7850	17300	23000	30000	23200	13700	17400	27500	10100
13	13700	27000	20600	12800	17900	21800	27400	28000	12400	23000	20400	8100
14	16900	35500	19400	12100	18300	21600	24400	25400	10100	21700	18900	8420
15	17900	35000	19300	11600	18900	19600	23400	31700	15200	17400	18600	9570
16	17200	29500	19900	12000	16800	17300	22800	28000	17300	14900	17500	8770
17	16100	28300	20900	11200	28500	15300	30000	24900	15200	17100	18500	9300
18	49100	26300	19800	11000	44000	12700	30800	23600	16200	15300	14400	9140
19	61900	24200	14800	8040	47700	14000	29000	38400	15300	12200	12000	11600
20	67500	22600	11800	10300	59500	17100	27200	72000	12300	12900	10400	8810
21	48500	23300	10900	10600	43700	32900	27100	68900	11400	12900	9320	7990
22	39100	37200	13400	10000	47800	45600	24400	59400	15300	11800	8420	9790
23	32300	30400	14900	10800	65700	37900	21800	48000	18800	11000	8720	9070
24	26100	26000	14100	9450	48200	32400	20700	41800	16200	11400	8000	8830
25	23900	23000	13600	9680	38600	32000	20400	34500	15000	10800	9700	8220
26	24000	22300	14000	8900	37000	32400	31600	30700	17900	8270	9840	8220
27	22100	21900	15300	18000	39600	31700	44200	30600	19300	9030	9260	12300
28	20600	25000	16400	45600	47000	48600	35800	28000	17700	9720	10400	17000
29	19400	23600	15800	40200	38800	53900	28500	23100	15900	8760	10900	14700
30	18500	21200	15400	32200	---	43500	28300	21000	16500	12400	11800	12300
31	17700	---	15000	29300	---	40700	---	19100	---	13600	10100	---
TOTAL	725400	674900	582300	456920	906400	982300	1102700	985800	456700	473580	453560	287190
MEAN	23400	22500	18780	14740	31260	31690	36760	31800	15220	15280	14630	9573
MAX	67500	37200	30700	45600	65700	56800	99900	72000	20700	36900	44500	17000
MIN	10200	14000	10900	7850	15100	12700	20400	19100	9400	8270	8000	6320

CAL YR 1975 TOTAL 6647090 MEAN 18210 MAX 71600 MIN 4500
WTR YR 1976 TOTAL 8087750 MEAN 22100 MAX 99900 MIN 6320

01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1954 to current year.

REMARKS.--Daily water-temperature measurements (at 0800 hours) made at Troy lock and dam, lat 42°45'08", long 73°41'22". Prior to October 1968 sampling site at old bridge on State Highway 7 about 100 ft (33 m) upstream, and between April 1971 and September 1973 sampling site at bridge on road between Green Island and Troy at Starbuck Island. Stream frozen or no water-temperature record Dec. 15 to Apr. 16.

COOPERATION.--Water-temperature record furnished by the Corps of Engineers.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 28.5°C July 27-30, 1963; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 25.0°C on several days during June and July; minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT 23...	1200	29600	162	7.5	12.0	15	--	--	110000	400
NOV 05...	1200	12400	182	7.2	11.5	7	11.8	109	85000	8360
DEC 18...	1230	13000	175	--	2.0	2	12.5	90	360	--
MAR 04...	1200	23000	175	6.6	1.0	10	14.8	101	81200	8450
APR 05...	1200	48500	104	7.0	5.0	15	13.8	108	3300	340
30...	1100	21600	148	6.9	10.0	10	--	--	--	81400
MAY 24...	1200	36800	136	7.0	12.5	15	11.5	106	81000	8500
JUN 29...	1130	9930	162	7.9	25.0	7	8.0	94	470	8170
JUL 15...	1100	13700	175	7.9	21.5	15	8.0	94	5900	8400
AUG 26...	1330	5520	174	8.1	23.0	1	8.3	99	14000	E50
SEP 24...	1130	4450	172	7.9	15.5	6	9.4	96	85600	8250

DATE	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT 23...	67	15	20	4.2	3.8	1.1	64	0	53	13
NOV 05...	80	24	25	4.2	5.9	1.0	68	0	56	16
DEC 18...	71	15	21	4.5	5.0	.8	68	--	56	18
MAR 04...	69	16	21	3.9	5.5	.8	64	0	53	14
APR 05...	42	13	13	2.3	2.8	.6	35	0	29	12
30...	54	13	16	3.3	4.5	.6	50	0	41	12
MAY 24...	54	11	16	3.5	3.2	.7	53	0	43	11
JUN 29...	63	16	20	3.2	4.6	.9	58	0	48	13
JUL 15...	68	11	20	4.4	3.0	1.3	70	0	57	17
AUG 26...	66	18	20	3.9	5.5	.8	59	0	48	15
SEP 24...	66	17	20	3.9	6.2	.9	60	0	49	15

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

E Estimated.

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 23...	5.8	.1	5.5	127	85	.32	.52	.84	.08
NOV 05...	8.4	.2	4.7	114	99	.35	.54	.89	.06
DEC 18...	7.0	.3	4.9	102	95	.47	.40	.87	.04
MAR 04...	9.6	.2	5.2	98	92	.67	.47	1.1	.06
APR 05...	4.0	.1	5.0	81	57	.53	.68	1.2	.07
30...	6.4	.1	3.3	72	71	.51	.55	1.1	.05
MAY 24...	3.6	.1	4.4	79	69	.41	.45	.86	.06
JUN 29...	6.7	.1	4.9	97	82	--	--	--	--
JUL 15...	6.9	.2	4.6	111	92	.47	.65	1.1	.10
AUG 26...	8.6	.1	4.3	108	87	.45	.73	1.2	.05
SEP 24...	9.1	.1	4.0	101	89	.42	.75	1.2	.05

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDED CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
NOV 05...	0	0	0	1	0	1	0	0	0	0	0
MAR 04...	1	1	0	1	1	0	<10	0	10	2	2
APR 05...	0	0	0	0	0	0	10	0	10	0	0
MAY 24...	0	0	0	0	0	0	<10	0	<10	0	0
AUG 26...	0	0	0	1	1	0	<10	0	<10	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDED MANGANESE (MN) (UG/L)
NOV 05...	0	10	0	10	670	70	8	7	1	60	20
MAR 04...	0	10	10	0	630	40	9	5	4	40	20
APR 05...	0	10	10	0	1200	310	12	8	4	50	10
MAY 24...	0	10	10	0	860	50	9	8	1	50	40
AUG 26...	0	10	0	10	390	100	12	10	2	40	30

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUS-PENDED SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)
NOV 05...	40	<.5	.0	<.5	30	20	10	0	0	0
MAR 04...	20	<.5	.0	<.5	20	20	0	0	0	0
APR 05...	40	<.5	.0	<.5	20	10	10	0	0	0
MAY 24...	10	<.5	.0	<.5	10	10	0	0	0	0
AUG 26...	10	<.5	.0	<.5	70	60	10	2	1	1

01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)
NOV 05...	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR 04...	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APR 05...	5.9	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	8.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 26...	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METH-OXY-CHLOR (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV 05...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR 04...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APR 05...	--	--	--	--	--	--	--	--	--	--	--
MAY 24...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 26...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SP90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT 23...	<.8	1.9	2.3	1.8	1.2	.03	1.2
NOV 05...	<1.1	.8	2.9	2.3	.6	.04	.20
DEC 18...	8.3	<.4	4.9	3.9	<.4	<.01	.20
MAR 04...	<1.1	1.5	2.6	2.1	1.5	.03	.09
APR 05...	<.8	2.0	4.7	3.7	1.5	<.01	.60
APR 30...	<1.1	.6	2.6	2.1	.7	.02	.06
MAY 24...	<.6	.8	1.9	1.5	1.3	.03	.30
JUN 29...	<1.3	.9	2.6	2.1	1.0	.04	.06
JUL 15...	<1.4	.8	2.2	1.8	1.0	.04	.30
AUG 26...	2.0	<.4	2.5	2.1	<.4	.10	.10
SEP 24...	<1.1	.5	2.1	1.8	.5	.02	.03

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Nov. 24	28	0.20	0.20	0.400	0.100	190	Polyethylene strip
Dec. 19	26	.80	.50	.400	.200	750	Polyethylene strip
Apr. 26	26	5.84	5.53	.540	.020	570	Polyethylene strip
May 24	29	.769	.615	2.60	1.02	59	Polyethylene strip
Sept. 20	40	.462	.231	.000	.000	0	Polyethylene strip

ND Material specifically analyzed for, but not detected.

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Oct. 23	1200	CHLOROPHYTA			Nov. 5	1200	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					OCCYSTACEAE		
		ANKISTRODESMUS	L	0			DICTYOSPHAERIUM	320	11
		DICTYOSPHAERIUM	L	0			TETRAEDRON	40	1
		SELENASTRUM	L	0			SCENEDESMACEAE		
		SCENEDESMACEAE					SCENEDESMUS	80	3
		CRUCIGENIA	L	0			CHRYSOPHYTA		
		SCENEDESMUS	47	1			BACILLARIOPHYCEAE		
		CHRYSOPHYTA					CENTRALES		
		BACILLARIOPHYCEAE					COSCINODISCACEAE		
		CENTRALES					CYCLOTELLA	440	15
		COSCINODISCACEAE					MELOSIRA	80	3
		CYCLOTELLA	95	3			STEPHANODISCUS	L	0
		MELOSIRA	170	5			PENNALES		
		PENNALES					ACHNANTHACEAE		
		ACHNANTHACEAE					ACHNANTHES	80	3
		ACHNANTHES	L	0			COCCONEIS	L	0
		COCCONEIS	24	1			CYMBELLACEAE		
		CYMBELLACEAE					CYMBELLA	120	4
		CYMBELLA	24	1			DIATOMACEAE	120	4
		DIATOMACEAE					DIATOMA		
		DIATOMA	24	1			FRAGILARIACEAE		
		FRAGILARIACEAE					ASTERIONELLA	1,200	42
		ASTERIONELLA	120	4			FRAGILARIA	L	0
		FRAGILARIA	140	4			SYNEDRA	80	3
		HANNAEA	L	0			GOMPHONEMACEAE		
		SYNEDRA	47	1			GOMPHONEMA	120	4
		GOMPHONEMACEAE					NAVICULACEAE		
		GOMPHONEMA	71	2			NAVICULA	80	3
		NAVICULACEAE					NITZSCHACEAE		
		CALONEIS	L	0			NITZSCHIA	80	3
		GYROSIGMA	L	0			TABELLARIACEAE		
		NAVICULA	210	7			TABELLARIA	L	0
		NITZSCHACEAE					ACHNANTHACEAE		
		NITZSCHIA	140	4			RHOICOSPHENIA	40	1
		SURIARELLACEAE					TOTAL	2,900	
		SURIARELLA	24	1					
		CHRYSOPHYCEAE							
		CHRYSONOMADALES							
		OCHROMONADACEAE							
		DINOBRYON	L	0					
		CYANOPHYTA							
		MYXOPHYCEAE							
		OSCILLATORIALES							
		NOSTOCACEAE							
		ANABAENA	L	0					
		APHANIZOMENON	210	7					
		OSCILLATORIA	1,900	58					
		TOTAL	3,200						

L - less than 1%, may not have been actually counted.

01358000 HUDSON RIVER AT GREEN ISLAND, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Dec. 8	1230	CHLOROPHYTA			Mar. 4	1200	CHRYSOPHYTA		
		CHLOROPHYCEAE					BACILLARIOPHYCEAE		
		CHLOROCOCCALES					CENTRALES		
		COELASTRACEAE					COSCONODISCACEAE		
		COELASTRUM	120	16			CYCLOTELLA	36	6
		SCENEDESMACEAE					PENNALES		
		CRUCIGENIA	60	8			EUNOTIACEAE		
		CHRYSOPHYTA					EUNOTIA	L	0
		BACILLARIOPHYCEAE					FRAGILARIACEAE		
		CENTRALES					FRAGILARIA	36	6
		COSCONODISCACEAE					GOMPHONEMATACEAE		
		CYCLOTELLA	15	2			GOMPHONEMA	L	0
		MELOSIRA	180	24			NAVICULACEAE		
		PENNALES					NAVICULA	73	11
		ACHNANTHACEAE					NITZSCHACEAE		
		ACHNANTHES	15	2			NITZSCHIA	36	6
		CYMBELLACEAE					CYANOPHYTA		
		CYMBELLA	30	4			MYXOPHYCEAE		
		DIATOMACEAE					OSCILLATORIALES		
		DIATOMA	L	0			OSCILLATORIA	470	72
		FRAGILARIACEAE					TOTAL	660	
		ASTERIONELLA	75	10					
		FRAGILARIA	15	2					
		HANNAEA	L	0					
		GOMPHONEMATACEAE							
		GOMPHONEMA	15	2					
		NAVICULACEAE							
		NAVICULA	60	8					
		NITZSCHACEAE							
		NITZSCHIA	30	4					
		CYANOPHYTA							
		MYXOPHYCEAE							
		OSCILLATORIALES							
		OSCILLATORIA	130	18					
		TOTAL	750						
Apr. 5	1200	CHLOROPHYTA			Apr. 30	1100	CHRYSOPHYTA		
		CHLOROPHYCEAE					BACILLARIOPHYCEAE		
		CHLOROCOCCALES					CENTRALES		
		OCCYSTACEAE					COSCONODISCACEAE		
		ANKISTRODESMUS	9	2			CYCLOTELLA	270	21
		SCENEDESMACEAE					MELOSIRA	67	5
		SCENEDESMUS	36	6			PENNALES		
		TETRASPORALES					ACHNANTHACEAE		
		PALMELLACEAE					ACHNANTHES	67	5
		GLOECYSTIS	36	6			CYMBELLACEAE		
		CHRYSOPHYTA					CYMBELLA	130	10
		BACILLARIOPHYCEAE					FRAGILARIACEAE		
		CENTRALES					FRAGILARIA	400	31
		COSCONODISCACEAE					GOMPHONEMATACEAE		
		CYCLOTELLA	53	9			GOMPHONEMA	34	3
		PENNALES					MERIDIONACEAE		
		ACHNANTHACEAE					MERIDION	L	0
		ACHNANTHES	18	3			NAVICULACEAE		
		COCCONEIS	18	3			GYROSTIGMA	L	0
		CYMBELLACEAE					NAVICULA	100	8
		CYMBELLA	27	5			NITZSCHACEAE		
		FRAGILARIACEAE					NITZSCHIA	130	10
		FRAGILARIA	160	28			CYANOPHYTA		
		HANNAEA					MYXOPHYCEAE		
		HANNAEA ARCUS	18	3			CHROOCOCCALES		
		GOMPHONEMATACEAE					CHROOCOCCACEAE		
		GOMPHONEMA	36	6			ANACYSTIS	67	5
		MERIDIONACEAE					EUGLENOPHYTA		
		MERIDION	18	3			EUGLENOPHYCEAE		
		NAVICULACEAE					EUGLENALES		
		NAVICULA	71	12			EUGLENAEAE		
		NITZSCHACEAE					TRACHELOMONAS	34	3
		NITZSCHIA	53	9			TOTAL	1,300	
		TABELLARIACEAE							
		TABELLARIA	18	3					
		TOTAL	570						

L - less than 1%, may not have been actually counted.

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
May 24	1200	CHLOROPHYTA			June 29	1130	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		CHARACIACEAE					MICRACTINIACEAE		
		SCHROEDERIA	12	1			MICRACTINIUM	120	2
		OCCYSTACEAE					OCCYSTACEAE		
		CLOSTERIOPSIS	12	1			ANKISTRODESMUS	310	6
		SCENEDESMACEAE					KIRCHNERIELLA	120	2
		SCENEDESMUS	48	4			TETRAEDRON	39	1
		VOLVOCALES					SCENEDESMACEAE		
		CHLAMYDOMONADACEAE					SCENEDESMUS	470	10
		CHLAMYDOMONAS	12	1			CHRYSOPHYTA		
		VOLVOCAEAE					BACILLARIOPHYCEAE		
		PANDORINA	230	18			CENTRALES		
		CHRYSOPHYTA					COSCINODISCEAE		
		BACILLARIOPHYCEAE					CYCLOTELLA	820	17
		CENTRALES					MELOSIRA	740	15
		COSCINODISCEAE					PENNALES		
		CYCLOTELLA	160	12			ACHNANTHACEAE		
		MELOSIRA	84	6			ACHNANTHES	96	7
		PENNALES					COCCONEIS	24	2
		ACHNANTHACEAE					CYMBELLACEAE		
		ACHNANTHES	96	7			CYMBELLA	120	9
		COCCONEIS	24	2			DIATOMACEAE		
		CYMBELLACEAE					DIATOMA	12	1
		CYMBELLA	120	9			FRAGILARIACEAE		
		DIATOMACEAE					ASTERIONELLA	12	1
		DIATOMA	12	1			HANNAEA	24	2
		FRAGILARIACEAE					SYNEDRA	24	2
		ASTERIONELLA	12	1			GOMPHONEMATACEAE		
		HANNAEA	24	2			GOMPHONEMA	24	2
		SYNEDRA	24	2			MERIDIOMACEAE		
		GOMPHONEMATACEAE					MERIDION	L	0
		GOMPHONEMA	24	2			NAVICULACEAE		
		MERIDIOMACEAE					NAVICULA	190	15
		MERIDION	L	0			PINNULARIA	12	1
		NAVICULACEAE					NITZSCHACEAE		
		NAVICULA	190	15			NITZSCHIA	110	8
		PINNULARIA	12	1			TABELLARIACEAE		
		NITZSCHACEAE					TABELLARIA	L	0
		NITZSCHIA	110	8			CHRYSOPHYCEAE		
		TABELLARIACEAE					CHRYSONOMADALES		
		TABELLARIA	L	0			OCHROMONADACEAE		
		CHRYSOPHYCEAE					DINOBYRON	72	6
		CHRYSONOMADALES					BACILLARIOPHYCEAE		
		OCHROMONADACEAE					PENNALES		
		DINOBYRON	72	6			ACHNANTHACEAE		
		BACILLARIOPHYCEAE					RHOICOSPHEA	24	2
		PENNALES							
		ACHNANTHACEAE							
		RHOICOSPHEA	24	2					
		TOTAL	1,300						

L - less than 1%, may not have been actually counted.

HUDSON RIVER BASIN

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01358000 HUDSON RIVER AT GREEN ISLAND, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
July 15	1100	CHLOROPHYTA			Aug. 26	1330	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		MICRACTINIACEAE					OCCYSTACEAE		
		MICRACTINIUM	1,600	27			ANKISTRODESMUS	2,400	2
		CHRYSOPHYTA					SCENEDESMACEAE		
		BACILLARIOPHYCEAE					SCENEDESMUS	9,000	6
		CENTRALES					ZYGNEMATALES		
		COSCIINODISCACEAE					DESMIDIACEAE		
		CYCLOTELLA	1,200	21			COSMARIUM	L	0
		MELOSTIRA	1,000	18			CHRYSOPHYTA		
		PENNALES					BACILLARIOPHYCEAE		
		ACHNANTHACEAE					PENNALES		
		ACHNANTHES	200	4			ACHNANTHACEAE		
		CYMBELLACEAE					ACHNANTHES	L	0
		CYMBELLA	120	2			CYMBELLACEAE		
		DIATOMACEAE					CYMBELLA	L	0
		DIATOMA	40	1			NAVICULACEAE		
		FRAGILARIACEAE					PINNULARIA	L	0
		ASTERIONELLA	40	1			NITZSCHIA		
		FRAGILARIA	80	1			NITZSCHIA	2,100	1
		SYNEDRA	40	1			CYANOPHYTA		
		GOMPHONEMACEAE					MYXOPHYCEAE		
		GOMPHONEMA	40	1			CHROOCOCCALES		
		NAVICULACEAE					CHROOCOCCACEAE		
		NAVICULA	320	6			ANACYSTIS	130,000	82
		NITZSCHIA					OSCILLATORIALES		
		NITZSCHIA	280	5			OSCILLATORIA	14,000	9
		CYANOPHYTA					OSCILLATORIA		
		MYXOPHYCEAE					EUGLENOPHYTA		
		OSCILLATORIALES					CRYPTOPHYCEAE		
		OSCILLATORIA	720	13			CRYPTOMONIDALES		
							CRYPTOMONODACEAE		
							CRYPTOMONAS	L	0
		TOTAL	5,700				TOTAL	160,000	

L - less than 1%, may not have been actually counted.

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total
Sept. 24	1113	CHLOROPHYTA		
		CHLOROPHYCEAE		
		CHLOROCOCCALES		
		MICRACTINIACEAE		
		MICRACTINIUM	16	1
		OCCYSTACEAE		
		KIRCHNERIELLA	8	1
		SCENEDESMACEAE		
		SCENEDESMUS	63	6
		VOLVOCALES		
		CHLAMYDOMONADACEAE		
		CHLAMYDOMONAS	8	1
		CHRYSOPHYTA		
		BACILLARIOPHYCEAE		
		CENTRALES		
		COSCINODISCACEAE		
		CYCLOTELLA	230	20
		MELOSIRA	240	21
		STEPHANODISCUS	8	1
		PENNALES		
		CYMBELLACEAE		
		CYMBELLA	8	1
		FRAGILARIACEAE		
		SYNEDRA	8	1
		GOMPHONEMACEAE		
		GOMPHONEMA	55	5
		MERIDIONACEAE		
		MERIDION	8	1
		NAVICULACEAE		
		NAVICULA	63	6
		NITZSCHACEAE		
		NITZSCHIA	16	1
		SURIPELLACEAE		
		SURIPELLA	L	0
		CHRYSOPHYCEAE		
		CHRYSOMONADALES		
		OCHROMONADACEAE		
		DINOBRYON	47	4
		BACILLARIOPHYCEAE		
		PENNALES		
		ACHNANTHACEAE		
		RHOICOSPHEA	L	0
		CYANOPHYTA		
		MYXOPHYCEAE		
		CHROOCOCCALES		
		CHROOCOCCACEAE		
		ANACYSTIS	16	1
		GOMPHOSPHERIA	L	0
		OSCILLATORIALES		
		NOSTOCACEAE		
		ANABAENA	L	0
		APHANTZOMENON	310	28
		OSCILLATORACEAE		
		OSCILLATORIA	L	0
		EUGLENOPHYTA		
		CRYPTOPHYCEAE		
		CRYPTOMONIDALES		
		CRYPTOMONODACEAE		
		CRYPTOMONAS	16	1
		PYRRHOPHYTA		
		DINOPHYCEAE		
		PERIDINIALES		
		PERIDINIACEAE		
		PERIDINIUM	8	1
		TOTAL	1,100	

L - less than 1%, may not have been actually counted.

HUDSON RIVER BASIN

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01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

(ONCE-DAILY MEASUREMENT AT 0800)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	10.0	5.0				---	11.0	15.0	24.0	22.0	22.0
2	15.0	10.0	5.0				---	11.0	16.0	24.0	22.0	22.0
3	15.0	10.0	4.0				---	12.0	17.0	24.0	21.0	20.0
4	15.0	10.0	3.0				---	12.0	19.0	24.0	21.0	20.0
5	15.0	10.0	3.0				---	10.0	19.0	24.0	21.0	20.0
6	15.0	10.0	4.0				---	11.0	19.0	24.0	22.0	20.0
7	15.0	13.0	4.0				---	11.0	19.0	25.0	22.0	20.0
8	14.0	13.0	4.0				---	12.0	19.0	25.0	22.0	20.0
9	14.0	13.0	4.0				---	12.0	20.0	25.0	22.0	20.0
10	14.0	13.0	4.0				---	12.0	20.0	25.0	22.0	20.0
11	14.0	12.0	4.0				---	12.0	21.0	25.0	23.0	19.0
12	14.0	12.0	4.0				---	12.0	21.0	25.0	23.0	19.0
13	14.0	12.0	4.0				---	12.0	21.0	24.0	23.0	19.0
14	14.0	11.0	4.0				---	12.0	21.0	24.0	23.0	19.0
15	14.0	7.0	4.0				---	14.0	21.0	24.0	23.0	19.0
16	14.0	8.0	---				---	15.0	23.0	24.0	23.0	19.0
17	14.0	8.0	---				10.0	16.0	23.0	24.0	22.0	19.0
18	12.0	7.0	---				11.0	16.0	23.0	24.0	22.0	19.0
19	12.0	7.0	---				11.0	14.0	23.0	25.0	22.0	19.0
20	12.0	7.0	---				12.0	10.0	23.0	25.0	22.0	19.0
21	12.0	7.0	---				12.0	10.0	23.0	25.0	22.0	18.0
22	12.0	7.0	---				12.0	10.0	23.0	24.0	23.0	19.0
23	12.0	6.0	---				12.0	10.0	23.0	24.0	23.0	18.0
24	13.0	6.0	---				12.0	10.0	25.0	24.0	23.0	18.0
25	13.0	6.0	---				12.0	11.0	25.0	23.0	23.0	17.0
26	14.0	5.0	---				12.0	11.0	25.0	23.0	23.0	17.0
27	13.0	5.0	---				12.0	11.0	25.0	24.0	23.0	17.0
28	12.0	5.0	---				10.0	12.0	25.0	24.0	23.0	17.0
29	12.0	5.0	---				11.0	12.0	25.0	24.0	23.0	17.0
30	12.0	5.0	---				11.0	12.0	25.0	24.0	22.0	17.0
31	10.0	---	---				---	15.0	---	22.0	22.0	---
AVERAGE	13.5	8.5	---				---	12.0	21.5	24.0	22.5	19.0

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						MAY					
23...	1200	29600	36	2880	89	24...	1200	36800	29	2880	91
NOV						JUN					
05...	1200	12400	16	536	81	29...	1130	9930	17	456	89
DEC						JUL					
18...	1230	13000	5	175	76	15...	1100	13700	28	1040	99
MAR						AUG					
04...	1200	23000	12	745	81	26...	1330	5520	12	179	90
APR						SEP					
05...	1200	48500	36	4710	E81	24...	1130	4450	10	120	96
30...	1100	21600	14	816	91						

E Estimated.

HUDSON RIVER BASIN

01359139 HUDSON RIVER AT ALBANY, NY

LOCATION.--Lat 42°38'57", long 73°44'50", Albany County, Hydrologic Unit 02020006, on right bank 0.5 mi (0.8 km) upstream from bridge on U.S. Highways 9 and 20 in Albany, and 0.5 mi (0.8 km) downstream from the Penn Central Transportation Company bridge.

DRAINAGE AREA.--8,290 mi² (21,466 km²).

PERIOD OF RECORD.--October 1972 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level (levels by Corps of Engineers). Gage-height record converted to elevation above or below (-) mean sea level for publication.

Summaries of tide elevations during year are as follows:

		TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	7.70	5.96	5.62	5.10	6.96	6.21	8.71	6.28	5.29(a)	6.31	6.20	5.24
high tide	Date	20	01	02	03	19	31	02	21	13(a)	01	11	23
Minimum	Elevation	-2.18	-1.61	-3.00	-2.38	-0.56	-3.30	-1.96	-1.66	-2.22(a)	-1.88	-2.24	-2.42
low tide	Date	07	05	19	05	12	18	12	08	13(a)	26	30	24
Mean high tide		4.72	4.64	4.07	2.88	4.33	4.70	4.79	4.82	--	4.35	4.31	4.18
Mean water level		2.32	2.25	1.72	1.28	2.76	2.48	2.65	2.59	--	1.78	1.73	1.49
Mean low tide		-0.36	-0.46	-0.93	-0.40	1.06	0.09	0.31	0.15	--	-1.13	-1.17	-1.49

a Recorded.

NOTE: No elevations recorded Jan. 26 to Feb. 4, June 15-28.

HUDSON RIVER BASIN

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01359150 MILL CREEK NEAR EAST GREENBUSH, NY

LOCATION.--Lat 42°36'45", long 73°41'45", Rensselaer County, Hydrologic Unit 02020006, on left bank, 15 ft (4.6 m) downstream from bridge on Michael Road, 0.5 mi (0.8 km) south of State Highway 151, and 1.6 mi (2.6 km) north of East Greenbush. Water-quality sampling site at discharge station.

DRAINAGE AREA.--9.74 mi² (25.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76.2 m), from topographic map (nearest 10 ft).

REMARKS.--Records good except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 507 ft³/s (14.4 m³/s) Jan. 27, 1976, gage height, 5.60 ft (1.707 m); minimum, 0.72 ft³/s (0.020 m³/s) July 6, 1975, gage height, 2.36 ft (0.719 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	1915	376 10.6	4.91 1.497	May 20	0615	160 4.53	3.93 1.198
Jan. 27	2200	*507 14.4	*5.60 1.707	June 30	2130	166 4.70	3.96 1.207

Minimum discharge, 1.6 ft³/s (0.45 m³/s) July 26, 27, gage height, 2.51 ft (0.765 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	11	31	9.0	70	18	70	14	12	48	22	2.1
2	6.7	10	23	8.0	160	15	44	28	10	13	9.9	3.1
3	6.4	10	18	9.0	300	14	28	32	8.2	8.2	3.7	2.4
4	5.7	10	12	8.4	150	20	22	28	6.5	8.8	2.4	2.1
5	5.1	9.1	11	7.0	70	57	18	17	5.5	8.2	2.0	2.1
6	5.1	8.3	14	6.0	35	33	16	13	5.5	4.3	1.8	2.0
7	4.5	7.9	12	7.0	25	22	14	16	8.2	4.0	17	1.7
8	4.2	7.9	10	6.4	23	17	13	16	5.5	6.5	15	1.7
9	4.0	7.9	10	5.0	22	18	12	11	4.3	6.5	7.8	1.7
10	4.0	7.9	28	5.4	21	14	10	9.5	3.6	3.6	5.8	5.1
11	16	7.6	21	5.6	19	14	10	9.5	8.2	2.8	6.2	6.6
12	26	11	13	6.2	17	12	9.0	48	6.0	2.8	5.0	3.1
13	22	37	13	6.2	15	13	8.2	19	3.3	2.8	4.3	2.4
14	32	46	13	30	14	11	7.8	14	3.1	5.4	3.8	2.1
15	16	32	13	20	14	9.5	7.4	13	4.7	4.7	3.5	2.1
16	13	27	12	17	22	8.2	12	9.9	4.0	2.7	3.2	2.1
17	11	21	9.0	15	86	15	9.0	12	22	2.6	2.9	3.6
18	163	18	7.4	10	58	22	7.4	17	7.0	2.3	2.6	3.3
19	184	16	7.0	10	114	12	6.5	67	4.0	2.0	2.2	2.4
20	168	15	7.0	11	61	30	5.5	110	3.1	1.8	2.0	2.1
21	70	43	8.0	7.0	41	26	5.1	48	3.3	2.4	1.9	2.3
22	45	42	9.0	6.0	102	20	4.7	31	4.0	2.3	1.8	2.0
23	33	24	8.0	6.0	44	13	4.7	25	2.6	2.0	1.7	1.8
24	27	20	7.0	6.0	33	13	4.0	20	2.4	2.4	1.7	1.7
25	34	18	7.0	6.4	28	12	16	17	2.6	1.8	1.7	1.7
26	34	16	11	11	29	12	40	17	2.3	1.7	2.1	2.4
27	23	25	12	338	28	11	27	18	2.1	2.0	3.9	9.9
28	19	22	10	379	22	41	17	13	2.1	2.3	2.6	5.1
29	17	16	9.0	176	18	19	13	10	3.1	2.3	5.6	3.1
30	15	15	9.0	40	---	16	10	9.5	55	3.1	3.3	2.4
31	13	---	11	35	---	14	---	9.0	---	2.4	2.3	---
TOTAL	1035.4	561.6	385.4	1212.6	1641	571.7	471.3	721.4	214.2	165.7	151.7	86.2
MEAN	33.4	18.7	12.4	39.1	56.6	18.4	15.7	23.3	7.14	5.35	4.89	2.87
MAX	184	46	31	379	300	57	70	110	55	48	22	9.9
MIN	4.0	7.6	7.0	5.0	14	8.2	4.0	9.0	2.1	1.7	1.7	1.7
CFSM	3.43	1.92	1.27	4.01	5.81	1.89	1.61	2.39	.73	.55	.50	.29
IN.	3.95	2.14	1.47	4.63	6.27	2.18	1.80	2.75	.82	.63	.58	.33

CAL YR 1975 TOTAL 5952.7 MEAN 16.3 MAX 184 MIN 1.2 CFSM 1.67 IN 22.73
WTR YR 1976 TOTAL 7218.2 MEAN 19.7 MAX 379 MIN 1.7 CFSM 2.02 IN 27.57

HUDSON RIVER BASIN

01359150 MILL CREEK NEAR EAST GREENBUSH, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to May 1976 (discontinued).

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: March 1975 to May 1976.

REMARKS.--Dashes (---) in mean suspended-sediment concentration column infer a concentration of less than or equal to 0.5 mg/L.

EXTREMES FOR PERIOD OF RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,330 mg/L Apr. 3, 1975; minimum daily mean, less than or equal to 0.5 mg/L on many days.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 1,080 tons (980 tonnes) Apr. 3, 1975; minimum daily, 0 ton (0 tonne) on many days.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 309 mg/L Oct. 18; minimum daily mean, less than or equal to 0.5 mg/L on many days.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 160 tons (145 tonnes) Oct. 18, minimum daily, 0 ton (0 tonne) Nov. 11.

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.7	8	.19	11	1	.03	31	21	1.8
2	6.7	6	.11	10	1	.03	23	4	.25
3	6.4	2	.03	10	1	.03	18	---	.02
4	5.7	3	.05	10	---	.01	12	---	.01
5	5.1	4	.06	9.1	---	.01	11	1	.03
6	5.1	3	.04	8.3	---	.01	14	2	.08
7	4.5	5	.06	7.9	1	.02	12	5	.16
8	4.2	1	.01	7.9	1	.02	10	1	.03
9	4.0	2	.02	7.9	1	.02	10	6	.16
10	4.0	11	.12	7.9	---	.01	28	28	2.1
11	16	12	.52	7.6	---	0	21	10	.57
12	26	12	.84	11	5	.15	13	5	.18
13	22	3	.18	37	19	1.8	13	4	.14
14	32	9	.78	46	30	3.7	13	4	.14
15	16	1	.04	32	3	.26	13	2	.07
16	13	1	.04	27	1	.07	12	1	.03
17	11	1	.03	21	1	.06	9.0	1	.02
18	163	309	160	18	---	.01	7.4	2	.04
19	184	285	142	16	---	.01	7.0	2	.04
20	168	231	134	15	1	.04	7.0	1	.02
21	70	35	6.6	43	15	1.7	8.0	1	.02
22	45	13	1.6	42	12	1.4	9.0	2	.05
23	33	2	.18	24	2	.13	8.0	16	.35
24	27	1	.07	20	1	.05	7.0	5	.09
25	34	9	.83	18	---	.02	7.0	2	.04
26	34	9	.83	16	---	.01	11	6	.18
27	23	6	.37	25	13	.88	12	5	.16
28	19	10	.51	22	5	.30	10	2	.05
29	17	9	.41	16	7	.30	9.0	1	.02
30	15	7	.28	15	2	.08	9.0	1	.02
31	13	7	.25	---	---	---	11	1	.03
TOTAL	1035.4	---	451.05	561.6	---	11.16	385.4	---	6.90

01359150 MILL CREEK NEAR EAST GREENBUSH, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	9.0		.05	70	12	2.3	18	10	.49
2	8.0	2	.04	160	28	12	15	5	.20
3	9.0	1	.02	300	64	52	14	3	.11
4	8.4	1	.02	150	35	14	20	14	.76
5	7.0	2	.04	70	14	2.6	57	105	16
6	6.0	2	.03	35	5	.47	33	28	2.5
7	7.0	2	.04	25	16	1.1	22	7	.42
8	6.4	1	.02	23	39	2.4	17	10	.46
9	5.0	5	.07	22	42	2.5	18	15	.73
10	5.4	4	.06	21	56	3.2	14	13	.49
11	5.6	3	.05	19	43	2.2	14	11	.42
12	6.2	4	.07	17	39	1.8	12	8	.26
13	6.2	7	.12	15	35	1.4	13	11	.39
14	30	31	2.5	14	17	.64	11	8	.24
15	20	12	.65	14	33	1.2	9.5	18	.46
16	17	9	.41	22	105	6.2	8.2	6	.13
17	15	13	.53	86	175	41	15	18	.73
18	10	13	.35	58	65	10	22	17	1.0
19	10	5	.14	114	70	22	12	33	1.1
20	11	5	.15	61	39	6.4	30	98	7.9
21	7.0	5	.09	41	28	3.1	26	53	3.7
22	6.0	4	.06	102	174	53	20	11	.59
23	6.0	2	.03	44	26	3.1	13	10	.35
24	6.0	1	.02	33	20	1.8	13	9	.32
25	6.4	1	.02	28	12	.91	12	9	.29
26	11	4	.12	29	14	1.1	12	5	.16
27	338	55	50	28	23	1.7	11	3	.09
28	379	43	44	22	16	.95	41	34	3.8
29	176	25	12	18	15	.73	19	8	.41
30	40	13	1.4	---	---	---	16	5	.22
31	35	17	1.6	---	---	---	14	4	.15
TOTAL	1212.6	---	114.70	1641	---	251.80	571.7	---	44.87
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	70	188	55	14	8	.30	12		
2	44	60	7.1	28	12	.91	10		
3	28	8	.60	32	12	1.0	8.2		
4	22	7	.42	28	8	.60	6.5		
5	18	6	.29	17	4	.18	5.5		
6	16	4	.17	13	2	.07	5.5		
7	14	4	.15	16	4	.17	8.2		
8	13	4	.14	16	4	.17	5.5		
9	12	3	.10	11	3	.09	4.3		
10	10	1	.03	9.5	3	.08	3.6		
11	10	1	.03	9.5	4	.10	8.2		
12	9.0	1	.02	48	29	3.8	6.0		
13	8.2	3	.07	19	25	1.3	3.3		
14	7.8	3	.06	14	30	1.1	3.1		
15	7.4	5	.10	13	24	.84	4.7		
16	12	9	.29	9.9	24	.64	4.0		
17	9.1	6	.15	12	23	.75	22		
18	7.4	3	.06	17	8	.37	7.0		
19	6.5	3	.05	67	41	8.5	4.0		
20	5.5	3	.04	110	63	19	3.1		
21	5.1	4	.06	48	31	4.0	3.3		
22	4.7	5	.06	31	6	.50	4.0		
23	4.7	5	.06	25	2	.14	2.6		
24	4.0	4	.04	20	3	.16	2.4		
25	16	22	.95	17	2	.09	2.6		
26	40	29	3.1	17	4	.18	2.3		
27	27	9	.66	18	6	.29	2.1		
28	17	4	.18	13	5	.18	2.1		
29	13	5	.18	10	3	.08	3.1		
30	10	4	.11	9.5	2	.05	55		
31	---	---	---	9.0	5	.12	---		
TOTAL	471.3	---	70.27	721.4	---	45.76	214.2		

HUDSON RIVER BASIN

01359150 MILL CREEK NEAR EAST GREENBUSH, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
FEB							
16...	1330	29	124	9.7	--	--	--
17...	1500	107	158	46	--	--	--
22...	1035	125	338	114	--	--	--
22...	1135	135	290	106	--	--	--
23...	1445	46	55	6.8	--	--	--
APR							
01...	1400	146	470	185	18	23	32

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
FEB						
16...	--	--	79	--	--	--
17...	--	--	81	--	--	--
22...	--	--	60	--	--	--
22...	--	--	56	--	--	--
23...	--	--	71	--	--	--
APR						
01...	41	53	69	79	87	100

HUDSON RIVER BASIN

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01359513 HUNGER KILL AT GUILDERLAND, NY

LOCATION.--Lat 42°41'22", long 73°54'26", Albany County, Hydrologic Unit 02020006, on left bank, 100 ft (30 m) downstream from bridge on Nott Road, and 1.0 mi (1.6 km) south of Guilderland.

DRAINAGE AREA.--8.16 mi² (21.1 km²).

PERIOD OF RECORD.--September 1967 to current year. Occasional low-flow measurements, water years 1962-65.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m), from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--9 years, 12.3 ft³/s (0.348 m³/s), 20.47 in/yr (519.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 135 ft³/s (3.82 m³/s) Oct. 19, 1975, gage height, 6.39 ft (1.948 m); minimum, 4.1 ft³/s (0.12 m³/s) Aug. 6, 1975; minimum gage height, 1.42 ft (0.433 m) Sept. 6, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft³/s (1.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	2030	*135 3.82	*6.39 1.948	Apr. 1	1500	66 1.87	4.85 1.478
Jan. 27	--	ice jam	6.27 1.911	Aug. 10	0930	75 2.12	5.08 1.548

Minimum discharge, 6.2 ft³/s (0.18 m³/s) Oct. 14, gage height, 2.41 ft (0.735 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	14	14	11	25	17	40	18	15	18	12	9.4
2	11	14	15	12	30	16	24	20	15	11	9.8	9.7
3	11	14	14	11	26	17	19	18	14	11	9.1	9.4
4	11	14	13	11	23	17	18	17	13	11	9.1	9.4
5	10	14	13	11	21	28	16	16	13	11	9.0	9.4
6	10	14	13	10	19	22	16	16	14	11	8.7	9.3
7	11	14	13	10	18	17	16	17	14	11	11	9.3
8	11	15	13	10	17	16	16	16	13	11	10	9.1
9	11	14	21	10	17	15	16	15	12	10	9.5	8.9
10	11	15	15	10	17	15	16	15	12	10	38	13
11	14	14	14	10	16	15	16	15	14	10	12	11
12	13	17	13	11	16	15	16	28	14	11	11	9.7
13	13	23	13	12	16	16	16	16	12	11	11	9.4
14	13	21	13	17	16	15	16	15	13	11	14	9.4
15	10	16	13	14	16	15	16	17	14	11	13	9.4
16	12	15	12	12	17	15	18	15	12	11	11	8.9
17	12	15	12	12	32	18	16	15	14	11	11	10
18	57	14	11	12	28	16	16	21	12	10	10	11
19	58	14	11	11	36	16	15	39	12	9.5	10	10
20	37	14	11	11	24	21	15	23	13	9.1	9.8	10
21	19	17	10	11	17	21	15	19	14	9.7	9.3	10
22	17	17	10	12	29	17	15	17	13	9.8	9.4	10
23	16	14	10	15	19	15	15	15	12	9.1	9.5	10
24	16	14	10	20	16	15	15	15	12	11	9.3	10
25	18	14	11	25	16	15	21	14	12	9.4	9.0	9.8
26	17	13	14	33	17	15	36	16	11	9.1	9.3	11
27	15	14	13	40	17	15	20	17	11	9.0	10	12
28	17	17	11	33	17	27	18	15	11	9.3	11	11
29	15	14	12	26	17	17	17	14	11	9.5	11	10
30	14	14	13	23	---	16	16	14	18	11	9.5	10
31	14	---	12	22	---	15	---	14	---	9.7	9.4	---
TOTAL	525	453	393	488	595	530	545	542	390	326.2	345.7	299.5
MEAN	16.9	15.1	12.7	15.7	20.5	17.1	18.2	17.5	13.0	10.5	11.2	9.98
MAX	58	23	21	40	36	28	40	39	18	18	38	13
MIN	10	13	10	10	16	15	15	14	11	9.0	8.7	8.9
CFSM	2.07	1.85	1.56	1.92	2.51	2.10	2.23	2.14	1.59	1.29	1.37	1.22
IN.	2.39	2.06	1.79	2.22	2.71	2.42	2.48	2.47	1.78	1.49	1.58	1.37

CAL YR 1975	TOTAL	4933.4	MEAN 13.5	MAX 58	MIN 7.0	CFSM 1.65	IN 22.49
WTR YR 1976	TOTAL	5432.4	MEAN 14.8	MAX 58	MIN 8.7	CFSM 1.81	IN 24.76

HUDSON RIVER BASIN

01359519 NORMANS KILL NEAR WESTMERE, NY

LOCATION.--Lat 42°40'43", long 73°54'25", Albany County, Hydrologic Unit 02020006, on right bank, 100 ft (30 m) upstream from bridge on State Highway 155 (State Farm Road), 1.6 mi (2.6 km) southwest of Westmere, and 1.8 mi (2.9 km) southeast of Guilderland.

DRAINAGE AREA.--131 mi² (339 km²).

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

REVISED RECORDS.--WRD, NY 1972: 1968(P), 1969(M), 1970(P).

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m), from topographic map.

REMARKS.--Records good except those above 1,000 ft³/s (28 m³/s), and those for winter periods, which are poor. Diversion above station for municipal supply by city of Watervliet and town of Guilderland.

AVERAGE DISCHARGE.--9 years, 172 ft³/s (4.871 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,580 ft³/s (158 m³/s) Oct. 18, 1975, gage height, 11.86 ft (3.615 m); minimum, 5.0 ft³/s (0.14 m³/s) July 29, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s (62 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	1730	*5,580 158	*11.86 3.615	Apr. 26	1030	2,310 65.4	7.21 2.198
Feb. 22	2200	2,430 68.8	7.40 2.256	May 20	0930	2,690 76.2	7.83 2.387
Apr. 1	2030	3,020 85.5	8.35 2.545				

Minimum discharge, 28 ft³/s (0.79 m³/s) May 11, July 23, 27, gage height, 1.43 ft (0.436 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	91	199	64	235	343	1240	214	104	404	51	36
2	162	85	224	74	331	263	1010	218	176	187	37	38
3	133	84	170	60	313	170	502	280	140	106	34	36
4	33	83	123	61	281	167	328	327	102	81	32	35
5	33	83	101	60	189	543	227	360	84	68	31	35
6	106	70	101	56	145	1290	172	376	76	61	31	33
7	227	66	123	56	127	579	145	223	96	91	43	33
8	143	67	94	58	113	352	121	203	84	68	36	36
9	33	70	87	70	94	209	108	187	70	40	32	43
10	33	78	303	120	85	180	101	136	61	38	926	61
11	43	77	361	170	95	172	98	33	71	39	557	50
12	39	85	201	150	133	135	87	104	150	42	232	42
13	38	491	157	130	147	133	77	55	96	40	144	39
14	46	707	133	120	204	155	73	51	70	43	138	34
15	36	484	150	110	194	141	70	57	86	40	119	34
16	34	370	140	100	331	123	78	49	93	34	79	35
17	35	326	120	96	1360	105	98	49	93	33	58	50
18	3080	272	97	94	1060	92	91	225	84	31	46	40
19	2340	224	77	92	1670	98	81	1460	65	33	38	35
20	2800	187	80	90	1130	418	74	2030	70	38	37	35
21	806	199	84	90	505	940	69	899	79	39	35	35
22	509	352	74	90	1110	859	65	606	84	35	33	35
23	331	227	70	90	922	346	64	360	280	30	32	36
24	235	180	110	94	367	269	61	254	138	37	31	35
25	196	162	96	100	281	249	88	203	106	30	32	36
26	229	133	80	165	343	227	1540	198	96	30	38	42
27	187	91	70	711	487	204	821	237	65	30	43	45
28	151	238	58	1610	487	973	462	178	54	32	45	39
29	131	201	66	715	323	459	320	134	49	36	49	38
30	115	160	62	476	---	297	244	112	94	41	39	39
31	100	---	60	300	---	222	---	98	---	36	36	---
TOTAL	12554	5943	3871	6272	13062	10713	8515	9916	2916	1893	3114	1160
MEAN	405	198	125	202	450	346	284	320	97.2	61.1	100	38.7
MAX	3080	707	361	1610	1670	1290	1540	2030	280	404	926	61
MIN	33	66	58	56	85	92	61	33	49	30	31	33
†	6.07	6.22	6.39	6.49	6.77	6.36	6.63	6.44	7.08	6.35	6.82	6.48

CAL YR 1975 TOTAL 69603 MEAN 191 MAX 3080 MIN 14 † 7.04
WTR YR 1976 TOTAL 79929 MEAN 218 MAX 3080 MIN 30 † 6.50

† Diversion, equivalent in cubic feet per second, by city of Watervliet and town of Guilderland for water supply (figures furnished by city of Watervliet and town of Guilderland Water Departments).

HUDSON RIVER BASIN

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01359560 HUDSON RIVER AT GLENMONT, NY

LOCATION.--Lat 42°35'43", long 73°45'43", Albany County, Hydrologic Unit 02020006, at Niagara Mohawk Glenmont Power Station (intake), 0.2 mi (0.3 km) downstream from lower mouth of Normans Kill, and 0.9 mi (1.4 km) southeast of Glenmont.

DRAINAGE AREA.--8,476 mi² (21,953 km²).

PERIOD OF RECORD.--Water years 1970 to current year.

REMARKS.--New York State Water Quality Surveillance Network station 13 0200. Water-discharge data are based on records for 01358000 Hudson River at Green Island.

COOPERATION.--Samples collected by New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS-CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)
OCT 20...	1150	E67400	7.9	11.0	130	10.8	97	29	--	--
NOV 18...	1115	E28200	8.7	8.0	5	11.4	96	12	25	4.3
JAN 06...	1230	E12100	8.1	.0	3	14.6	100	16	--	--
FEB 09...	1230	E17800	8.1	.0	4	14.6	100	11	20	4.5
MAR 01...	1210	E37400	8.8	3.5	20	15.4	115	9	--	--
29...	1230	E47200	7.8	6.0	40	12.4	99	18	--	--
APR 26...	1130	E23200	7.5	10.5	20	10.2	93	18	--	--
MAY 24...	1100	E43500	7.6	12.0	20	11.4	106	33	21	3.3
JUL 23...	1230	E4170	7.3	25.0	6	7.2	86	23	--	--

DATE	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)
OCT 20...	--	--	--	--	--	--	--	177	.24
NOV 18...	5.8	1.3	75	0	62	17	7.5	123	.17
JAN 06...	--	--	--	--	--	--	--	149	.20
FEB 09...	7.0	.9	67	0	55	19	11	116	.16
MAR 01...	--	--	--	--	--	--	--	116	.16
29...	--	--	--	--	--	--	--	351	.48
APR 26...	--	--	--	--	--	--	--	101	.14
MAY 24...	6.4	1.0	64	0	53	15	4.8	112	.15
JUL 23...	--	--	--	--	--	--	--	116	.16

E Estimated.

HUDSON RIVER BASIN

01359560 HUDSON RIVER AT GLENMONT, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)
OCT 20...	208	.41	.11	.77	.88	1.3	.36	2	0
NOV 18...	12	.36	.10	.36	.46	.82	.05	0	0
JAN 06...	7	.61	.29	.35	.64	1.3	.05	1	1
FEB 09...	4	.69	.25	.18	.43	1.1	.05	1	1
MAR 01...	38	.68	.09	.33	.42	1.1	.10	1	0
29...	74	.63	.11	.45	.56	1.2	.11	0	0
APR 26...	30	.66	.20	.63	.83	1.5	.08	0	1
MAY 24...	34	.43	.21	.57	.78	1.2	.08	--	0
JUL 23...	2	.51	.22	.51	.73	1.2	.07	0	1

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT 20...	10	7700	13	.7	70	6.4	1	.000	.000
NOV 18...	10	500	7	<.5	60	5.7	0	.000	.000
JAN 06...	0	300	14	<.5	20	5.3	0	.000	.000
FEB 09...	10	270	3	<.5	10	15	0	.000	.000
MAR 01...	10	1300	18	<.5	20	4.9	1	.000	.000
29...	10	2400	8	<.5	30	11	0	.000	.000
APR 26...	0	1100	13	<.5	20	6.6	0	.000	.000
MAY 24...	10	1000	140	<.5	20	7.1	0	.000	.000
JUL 23...	0	490	5	<.5	10	7.2	0	.000	.000

HUDSON RIVER BASIN

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01359575 HUDSON RIVER AT CEDAR HILL, NY

LOCATION.--Lat 42°32'33", long 73°45'35", Albany County, Hydrologic Unit 02020006, on right bank at mouth of Vloman Kill, and 0.1 mi (0.2 km) east of Cedar Hill.

DRAINAGE AREA.--8,525 mi² (22,080 km²), Vloman Kill drainage not included.

PERIOD OF RECORD.--October 1973 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level (levels by Corps of Engineers). Gage-height record converted to elevation above or below (-) mean sea level for publication.

Summaries of tide elevations during year are as follows:

		TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	5.43(a)	5.92	5.42(a)	--	--	6.00(a)	7.32	6.12	5.23	6.10	5.84	5.10
high tide	Date	25(a)	01	02(a)	--	--	31(a)	02	02	13	01	11	27
Minimum	Elevation	-1.93(a)	-1.47	-2.27(a)	--	--	-0.79(a)	-2.23	-1.68	-2.01	-1.64	-2.01	-2.17
low tide	Date	07(a)	05	20(a)	--	--	31(a)	12	08	12	19	30	24
Mean high tide		--	4.64	--	--	--	--	4.52	4.61	4.25	4.30	4.24	4.10
Mean water level		--	2.29	--	--	--	--	2.37	2.39	1.75	1.78	1.73	1.53
Mean low tide		--	0.30	--	--	--	--	0.02	-0.04	-1.06	-0.99	-1.02	-1.28

a Recorded.

NOTE: No elevations recorded Oct. 8-24, Dec. 21 to Mar. 26.

HUDSON RIVER BASIN

01359750 MOORDENER KILL AT CASTLETON-ON-HUDSON, NY

LOCATION.--Lat 42°32'02", long 73°44'15", Rensselaer County, Hydrologic Unit 02020006, on left bank 800 ft (244 m) downstream from bridge on State Highway 150, 0.2 mi (0.3 km) east of village of Castleton-on-Hudson, 0.5 mi (0.8 km) downstream from unnamed tributary, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--32.6 mi² (84.4 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 98.72 ft (30.090 m) above mean sea level. Prior to Nov. 25, 1957, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Slight diurnal fluctuation of low flow by mills upstream and occasional regulation at dam 800 ft (244 m) upstream.

AVERAGE DISCHARGE.--19 years, 36.7 ft³/s (1.039 m³/s), 15.29 in/yr (388.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft³/s (38.2 m³/s) Jan. 22, 1959, gage height, 3.63 ft (1.106 m); maximum gage height, 4.02 ft (1.225 m) Jan. 27, 1976 (ice jam); minimum, 0.30 ft³/s (0.008 m³/s) Aug. 9, 10, 1964, gage height, 0.25 ft (0.076 m); minimum daily, 1.0 ft³/s (0.028 m³/s) Sept. 6, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 20	0300	*784	22.2	Aug. 10	1800	497	14.1
Jan. 27	2230	ice jam	*4.02				2.52
			1.225				0.768

Minimum discharge, 8.6 ft³/s (0.24 m³/s) July 27, gage height, 0.66 ft (0.201 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	42	76	34	110	69	161	46	36	125	125	13
2	34	40	76	30	150	59	192	107	43	41	67	14
3	30	38	60	27	120	51	107	92	30	27	31	13
4	27	38	50	26	100	59	83	100	25	22	22	13
5	25	35	43	25	82	142	67	67	22	19	18	13
6	24	33	46	25	72	132	57	54	21	17	16	12
7	22	32	49	25	64	86	50	50	26	16	69	11
8	20	32	37	25	58	69	47	49	22	21	88	11
9	19	34	36	27	54	50	43	41	19	21	49	11
10	18	32	62	30	50	53	40	36	17	16	362	15
11	37	32	62	35	46	53	39	33	17	14	233	24
12	69	33	46	40	44	45	35	113	26	14	100	19
13	59	94	41	45	42	47	34	72	18	13	62	15
14	88	120	40	60	44	46	32	50	16	13	50	13
15	64	102	41	54	46	41	30	47	17	15	57	12
16	49	85	40	45	52	39	42	40	16	13	86	11
17	41	72	34	41	210	36	39	45	20	12	52	15
18	327	64	30	38	190	37	32	51	19	11	35	16
19	445	57	29	35	270	41	29	179	15	11	29	15
20	558	50	27	33	236	76	26	315	13	10	26	13
21	256	98	24	32	153	90	25	195	13	11	23	13
22	156	156	22	32	283	90	24	115	14	11	20	12
23	107	90	21	33	199	60	24	85	13	10	19	11
24	86	72	23	34	122	54	22	67	12	12	18	11
25	88	64	28	39	102	50	35	57	12	10	16	11
26	104	56	40	50	102	45	98	51	11	9.6	16	13
27	76	70	46	450	100	42	92	51	10	10	17	30
28	65	74	38	300	86	85	67	43	10	11	16	22
29	59	57	35	170	70	64	51	36	11	11	16	17
30	53	51	37	140	---	51	43	32	51	13	15	15
31	47	---	39	120	---	46	---	30	---	32	14	---
TOTAL	3093	1853	1278	2100	3257	1908	1666	2349	595	591.6	1767	434
MEAN	99.8	61.8	41.2	67.7	112	61.5	55.5	75.8	19.8	19.1	57.0	14.5
MAX	558	156	76	450	283	142	192	315	51	125	362	30
MIN	18	32	21	25	42	36	22	30	10	9.6	14	11
CFSM	3.06	1.90	1.26	2.08	3.44	1.89	1.70	2.33	.61	.59	1.75	.44
IN.	3.53	2.11	1.46	2.40	3.72	2.18	1.90	2.68	.68	.68	2.02	.50

CAL YR 1975 TOTAL 20334.2 MEAN 55.7 MAX 655 MIN 6.4 CFSM 1.71 IN 23.20
WTR YR 1976 TOTAL 20891.6 MEAN 57.1 MAX 558 MIN 9.6 CFSM 1.75 IN 23.84

HUDSON RIVER BASIN

129

01359902 COEYMANS CREEK NEAR SELKIRK, NY

LOCATION.--Lat 42°31'38", long 73°49'14", Albany County, Hydrologic Unit 02020006, on right bank, 40 ft (12 m) downstream from bridge on Pictuay Road, and 1.2 mi (1.9 km) southwest of Selkirk.

DRAINAGE AREA.--35.1 mi² (90.9 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 80 ft (24 m), from topographic map. Prior to Sept. 17, 1974, water-stage recorder at site on left bank at same datum.

REMARKS.--Records poor. Diversion from Onesquethaw Creek, a tributary above station, for municipal supply of town of Bethlehem. Water discharged to Onesquethaw Creek from city of Albany filtration plant at point 4 mi (6.4 km) upstream from station.

AVERAGE DISCHARGE.--9 years, 54.1 ft³/s (1.532 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft³/s (91.8 m³/s) June 30, 1973, gage height, 9.89 ft (3.014 m), from rating curve extended above 820 ft³/s (23.2 m³/s) on basis of contracted-opening measurement at gage height 7.60 ft (2.316 m); minimum, 0.49 ft³/s (0.014 m³/s) Aug. 6, 7, 1976; minimum gage height, 1.71 ft (0.521 m), Aug. 28, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	2030	*2,110 59.8	*8.52 2.597	Apr. 1	1700	893 25.3	6.34 1.932
Jan. 27	--	ice jam	7.01 2.137	Aug. 10	1230	957 27.1	6.49 1.978
Jan. 28	0030	1,180 33.4	6.96 2.121				

Minimum discharge, 0.49 ft³/s (0.014 m³/s) Aug. 6, 7, gage height, 1.98 ft (0.604 m); minimum daily, 0.58 ft³/s (0.016 m³/s) July 27, 29, Aug. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	27	101	17	66	79	325	49	14	108	1.5	5.4
2	25	23	99	19	252	63	299	88	26	17	1.6	5.0
3	20	22	73	17	189	49	167	86	14	8.5	1.0	4.3
4	17	20	52	14	99	52	118	79	11	7.8	.65	3.4
5	13	18	39	11	61	287	86	52	8.5	5.0	.65	3.3
6	12	15	38	10	45	295	64	40	7.1	3.3	.58	2.8
7	10	14	38	9.6	45	159	54	37	14	3.3	3.4	2.6
8	9.6	13	31	9.4	37	113	51	38	8.8	5.7	4.7	2.3
9	9.2	14	27	9.2	26	77	45	31	5.9	8.1	2.2	2.2
10	8.2	13	207	9.2	21	68	35	26	5.0	3.4	314	3.3
11	12	19	171	10	29	63	32	22	4.1	2.8	108	6.2
12	22	20	104	13	53	45	28	127	6.2	2.4	40	3.8
13	17	133	76	18	40	45	26	57	3.8	2.2	29	2.3
14	49	156	62	29	67	43	22	38	3.0	2.0	20	2.2
15	29	125	54	61	39	38	19	32	5.0	2.0	18	2.2
16	20	98	49	44	64	32	33	26	5.0	1.4	15	2.0
17	16	85	37	26	454	28	31	23	3.6	1.1	10	4.5
18	717	71	31	17	271	32	19	41	3.1	.82	7.8	6.8
19	908	59	29	16	463	33	16	326	2.3	.87	6.8	6.8
20	657	50	22	15	277	147	14	378	2.0	.69	6.2	3.0
21	254	108	20	15	154	196	14	244	5.9	.82	5.4	3.1
22	149	154	19	15	295	149	12	143	5.0	.73	4.1	1.8
23	102	88	18	16	226	89	13	95	3.6	.73	3.9	1.9
24	73	64	18	17	118	74	13	64	3.0	.87	3.4	1.6
25	63	51	19	20	104	64	32	46	2.6	.77	3.4	2.1
26	98	42	22	22	112	56	323	38	2.1	.61	3.8	2.7
27	58	63	18	380	127	47	202	37	1.6	.58	3.9	5.4
28	44	101	22	701	110	181	124	27	1.4	.61	4.3	3.9
29	37	71	31	252	83	108	79	20	1.2	.58	31	2.8
30	34	56	38	135	--	80	61	16	25	.77	14	2.4
31	30	---	25	82	---	63	---	15	---	.77	8.1	---
TOTAL	3543.0	1793	1590	2029.4	3927	2855	2357	2341	203.8	194.22	676.38	102.2
MEAN	114	59.8	51.3	65.5	135	92.1	78.6	75.5	6.79	6.27	21.8	3.41
MAX	908	156	207	701	463	295	325	378	26	108	314	6.8
MIN	8.2	13	18	9.2	21	28	12	15	1.2	.58	.58	1.6

CAL YR 1975 TOTAL 25384.30 MEAN 69.5 MAX 911 MIN 3.7
WTR YR 1976 TOTAL 21612.00 MEAN 59.0 MAX 908 MIN .58

HUDSON RIVER BASIN

01359924 HANNACROIS CREEK NEAR NEW BALTIMORE, NY

LOCATION.--Lat 42°26'22", long 73°48'41", Greene County, Hydrologic Unit 02020006, on left bank, 1,200 ft (366 m) downstream from bridge on U.S. Route 9W, 1.2 mi (1.9 km) southwest of New Baltimore, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--61.6 mi² (160 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (43 m), from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor. Diversion above station for Albany municipal water supply from Alcove Reservoir which includes diversion from Catskill Creek basin through Basic Reservoir.

AVERAGE DISCHARGE.--9 years, 55.2 ft³/s (1.563 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,780 ft³/s (50.4 m³/s) July 1, 1973, gage height, 5.43 ft (1.655 m); maximum gage height, 5.91 ft (1.801 m) Jan. 27, 1976 (ice jam); minimum, 0.02 ft³/s (0.001 m³/s) Aug. 19-21, 1970, gage height, 0.52 ft (0.158 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft³/s (10 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	2000	*1,350 38.2	4.96 1.512	Feb. 19	2215	576 16.3	3.67 1.119
Jan. 27	1630	†1,000 28	*‡5.91 1.801	May 19	1445	357 10.1	3.06 .933
Feb. 2	0530	384 10.9	3.17 .966	Aug. 10	1045	375 10.6	3.12 .951

† About.

‡ Ice jam.

Minimum discharge 3.1 ft³/s (0.088 m³/s) July 27, 28, gage height, 0.66 ft (0.201 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	43	63	23	146	99	164	39	28	130	7.0	6.7
2	28	38	64	22	282	85	294	79	43	50	7.0	6.1
3	24	36	57	22	321	78	247	97	28	32	4.9	6.4
4	21	33	48	21	178	75	185	113	22	26	4.2	5.8
5	18	31	40	21	125	133	165	72	20	20	3.6	5.8
6	17	29	40	20	99	232	80	62	18	16	3.6	5.3
7	15	28	39	20	79	198	76	57	27	14	11	4.2
8	13	27	31	20	70	154	56	83	21	16	17	4.9
9	12	26	31	20	52	106	65	44	16	18	10	4.4
10	12	23	93	20	41	88	65	34	14	13	210	7.6
11	18	24	96	20	43	79	76	30	12	11	121	14
12	29	23	74	21	43	61	90	95	14	10	65	8.7
13	24	54	65	23	41	57	46	58	10	8.7	46	5.6
14	41	63	59	32	45	54	31	43	9.0	8.0	39	4.9
15	36	59	56	30	36	44	25	43	9.0	7.3	45	4.6
16	31	50	53	26	44	35	37	35	9.0	7.0	64	4.4
17	26	44	41	24	342	34	31	31	9.0	7.0	37	7.3
18	283	39	38	23	391	33	26	55	8.7	6.1	27	11
19	610	36	33	22	529	32	23	265	7.3	5.3	21	9.4
20	601	33	30	21	469	55	21	340	6.7	4.9	18	8.7
21	268	49	28	20	350	104	20	294	6.7	4.2	16	7.0
22	178	73	28	20	400	133	18	215	8.3	4.4	13	5.8
23	125	59	28	20	350	107	20	161	7.6	3.8	11	5.8
24	94	52	29	21	230	89	20	109	9.4	4.0	9.8	4.6
25	92	48	31	23	170	75	22	79	7.3	4.2	8.3	4.2
26	109	42	37	28	156	67	66	65	6.7	3.6	7.6	4.6
27	81	55	45	740	152	57	101	63	5.3	3.3	9.8	11
28	68	68	40	580	140	140	87	47	5.1	3.3	9.8	8.0
29	61	57	35	260	114	89	68	33	5.6	3.8	8.7	6.7
30	53	53	28	211	---	62	43	27	30	4.6	7.6	5.6
31	48	---	26	176	---	54	---	24	---	4.0	6.7	---
TOTAL	3070	1295	1406	2550	5438	2709	2268	2792	423.7	453.5	869.6	199.1
MEAN	99.0	43.2	45.4	82.3	188	87.4	75.6	90.1	14.1	14.6	28.1	6.64
MAX	610	73	96	740	529	232	294	340	43	130	210	14
MIN	12	23	26	20	36	32	18	24	5.1	3.3	3.6	4.2

CAL YR 1975 TOTAL 20628.1 MEAN 56.5 MAX 938 MIN 3.8
WTR YR 1976 TOTAL 23473.9 MEAN 64.1 MAX 740 MIN 3.3

HUDSON RIVER BASIN

131

01361388 HUDSON RIVER AT ATHENS, NY

LOCATION.--Lat 42°16'16", long 73°48'07", Greene County, Hydrologic Unit 02020006, on right bank in Athens, 200 ft (60 m) downstream from mouth of Murderers Creek.

DRAINAGE AREA.--9,315 mi² (24,126 km²).

PERIOD OF RECORD.--May 1974 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 12.00 ft (3.658 m) below mean sea level (levels by Corps of Engineers). Gage-height record converted to elevation above or below (-) mean sea level for publication.

Summaries of tide elevations during year are as follows:

		TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	6.05	5.16	4.72(a)	--	--	--	4.37(a)	5.27	4.37	4.98	4.61	4.30
high tide	Date	20	21	01(a)	--	--	--	11(a)	02	13	01	11	21
Minimum	Elevation	-1.86	-1.25	-1.98(a)	--	--	--	-2.64(a)	-1.84	-1.97	-1.48	-1.65	-1.82
low tide	Date	07	29	07(a)	--	--	--	12(a)	08	12	09	30	24
Mean high tide		3.74	3.64	--	--	--	--	--	3.55	3.34	3.42	3.40	3.32
Mean water level		1.76	1.68	--	--	--	--	--	1.64	1.25	1.50	1.39	1.25
Mean low tide		-0.45	-0.53	--	--	--	--	--	-0.52	-1.02	-0.92	-0.95	-1.05

a Recorded.

NOTE: No elevations recorded Dec. 19 to Apr. 5.

HUDSON RIVER BASIN

01361500 CATSKILL CREEK AT OAK HILL, NY

LOCATION.--Lat 42°24'16", long 74°09'07", Greene County, Hydrologic Unit 02020006, on right bank 550 ft (168 m) downstream from bridge on County Highway 22 in southernmost part of Oak Hill, 650 ft (198 m) downstream from unnamed tributary, and 1.1 mi (1.8 km) upstream from Tenmile Creek.

DRAINAGE AREA.--98 mi² (254 km²), approximately.

PERIOD OF RECORD.--May 1910 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WSP 756: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.65 ft (186.126 m) above mean sea level. Prior to Aug. 4, 1930, nonrecording gage and Aug. 4, 1930 to Sept. 30, 1968 water-stage recorder at site 530 ft (162 m) upstream at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--66 years, 125 ft³/s (3.540 m³/s), 17.32 in/yr (439.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s (354 m³/s) Nov. 25, 1950, gage height, 14.08 ft (4.292 m) at site and datum then in use, from floodmarks in gage house, from rating curve extended above 61,100 ft³/s (173 m³/s) on basis of slope-area measurement of peak flow; minimum, no flow part or all of each day Sept. 7-10, 25, 26, 1964, Aug. 29 to Sept. 3, 1966; minimum gage height, 0.59 ft (0.180 m) Sept. 26, 27, 1939, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,300 ft³/s (65 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0930	*6,060 172	*8.75 2.667	Feb. 22	1200	2,380 67.4	5.67 1.728
Jan. 27	2100	3,260 92.3	6.47 1.972	Aug. 10	0900	2,780 78.7	6.10 1.859
Feb. 17	0530	3,130 88.6	6.35 1.935				

Minimum discharge, 6.0 ft³/s (0.17 m³/s) Aug. 6, gage height, 1.75 ft (0.533 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	83	260	80	395	160	760	290	110	137	9.8	8.1
2	72	78	216	82	600	126	600	260	130	36	12	7.9
3	60	74	189	84	345	103	400	220	150	21	8.1	7.9
4	51	72	150	80	292	121	310	210	110	14	7.1	7.9
5	47	66	137	90	242	577	250	190	90	10	6.6	7.6
6	43	59	150	120	210	384	200	180	74	7.9	6.2	7.6
7	39	54	150	140	170	213	170	170	80	7.4	7.4	7.1
8	36	52	116	110	130	155	150	150	66	8.1	8.4	6.9
9	33	51	129	100	120	105	140	140	56	7.4	8.4	6.4
10	31	49	444	98	130	109	130	120	48	5.8	1040	6.6
11	31	56	260	99	140	98	130	100	42	4.8	300	9.0
12	50	52	195	96	150	68	120	210	37	4.8	158	8.7
13	43	188	171	96	150	87	120	170	32	6.2	107	8.1
14	93	256	160	110	160	74	120	140	23	5.2	85	7.4
15	70	222	163	160	160	59	140	120	26	30	68	7.1
16	65	204	152	150	300	42	180	120	33	28	54	6.9
17	58	198	126	130	1370	39	200	110	29	27	40	7.9
18	2180	201	114	120	522	37	180	280	25	28	29	27
19	1300	189	74	120	1100	57	160	600	22	21	24	14
20	870	166	64	120	505	198	140	1490	20	18	19	11
21	505	336	76	120	272	232	130	600	27	15	16	9.8
22	335	331	88	120	1120	183	130	540	47	12	13	8.7
23	242	236	94	130	439	109	130	360	13	9.0	12	8.1
24	187	204	120	140	242	98	140	230	17	9.4	11	7.6
25	187	186	140	150	229	90	300	190	11	8.0	10	7.1
26	181	166	130	160	256	78	1300	190	8.4	6.6	9.4	7.1
27	140	204	140	2040	288	70	800	180	6.6	6.4	11	11
28	115	253	110	1330	219	284	470	150	8.7	6.2	11	12
29	101	213	94	630	163	142	390	120	16	6.2	10	10
30	90	198	88	427	---	114	340	100	103	6.4	9.4	9.4
31	70	---	84	354	---	98	---	84	---	6.6	8.4	---
TOTAL	7415	4697	4584	7786	10419	4310	8730	8014	1460.7	519.4	2119.2	271.9
MEAN	239	157	148	251	359	139	291	259	48.7	16.8	68.4	9.06
MAX	2180	336	444	2040	1370	577	1300	1490	150	137	1040	27
MIN	31	49	64	80	120	37	120	84	6.6	4.8	6.2	6.4
CFSM	2.44	1.60	1.51	2.56	3.66	1.42	2.97	2.64	.50	.17	.70	.09
IN.	2.81	1.78	1.74	2.96	3.95	1.64	3.31	3.04	.55	.20	.80	.10

CAL YR 1975 TOTAL 51016.2 MEAN 140 MAX 2180 MIN 6.8 CFSM 1.43 IN 19.37
WTR YR 1976 TOTAL 60326.2 MEAN 165 MAX 2180 MIN 4.8 CFSM 1.68 IN 22.90

HUDSON RIVER BASIN

133

01361570 TENMILE CREEK AT OAK HILL, NY

LOCATION.--Lat 42°24'26", long 74°08'06", Greene County, Hydrologic Unit 02020006, on left bank 425 ft (130 m) upstream from bridge on State Highway 81, about 1,500 ft (457 m) upstream from mouth, 0.9 mi (1.4 km) east of Oak Hill, and 2.3 mi (3.7 km) downstream from Eightmile Creek.

DRAINAGE AREA.--35.3 mi² (91.4 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 588.19 ft (179.280 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--8 years, 55.3 ft³/s (1.566 m³/s), 21.27 in/yr (540.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft³/s (74.2 m³/s) July 3, 1974, gage height, 6.48 ft (1.975 m), from rating curve extended above 700 ft³/s (19.8 m³/s); minimum daily, 0.5 ft³/s (0.014 m³/s) Oct. 1-4, 1968; minimum gage height, 2.18 ft (0.664 m) July 13, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 650 ft³/s (18 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 16	0400	*1,380 39.1	*5.53 1.686	Jan. 27	1100	1,320 37.4	5.47 1.667

Minimum discharge, 2.2 ft³/s (0.062 m³/s) Sept. 9, 10, gage height, 2.42 ft (0.738 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	26	78	28	148	98	269	59	36	127	12	10
2	22	25	76	30	132	83	265	68	58	52	11	11
3	18	26	63	29	106	67	145	65	44	31	8.0	10
4	16	25	47	28	86	69	98	65	33	24	7.0	4.5
5	14	23	39	40	72	255	76	55	27	18	6.2	4.0
6	14	22	39	90	60	287	61	52	25	14	6.2	3.2
7	12	21	41	70	47	135	53	45	29	12	11	3.0
8	12	21	33	56	44	94	47	46	25	12	13	2.6
9	12	20	36	45	43	73	44	39	22	11	11	2.4
10	16	20	205	48	90	69	39	34	20	9.0	274	3.2
11	19	22	135	50	68	61	35	31	18	8.0	142	4.5
12	22	23	80	52	60	53	30	82	16	9.0	63	3.7
13	32	69	63	52	52	53	28	60	15	8.4	40	3.0
14	24	106	55	54	63	53	27	47	15	7.4	30	2.8
15	47	87	55	80	75	45	26	42	16	6.2	24	2.6
16	722	71	55	70	89	40	69	36	13	5.8	21	2.6
17	688	65	43	60	485	40	71	34	14	6.6	18	4.8
18	348	63	34	52	327	63	50	74	11	5.1	16	11
19	175	57	35	49	469	41	40	359	11	4.5	15	9.8
20	109	47	43	46	302	111	34	434	9.0	4.0	14	7.4
21	78	85	50	49	158	175	28	295	10	4.3	13	6.6
22	61	129	45	50	371	148	26	162	15	4.3	12	5.5
23	74	80	42	56	269	87	25	98	22	3.7	11	4.5
24	67	61	34	64	142	73	23	72	24	4.0	11	3.7
25	54	53	70	80	109	63	47	63	18	3.2	11	3.5
26	45	45	151	110	129	55	364	61	14	2.6	11	4.0
27	41	57	78	500	164	50	192	59	11	2.6	15	6.6
28	36	80	37	230	148	158	123	49	11	3.7	14	6.2
29	30	73	38	170	103	103	86	40	14	8.0	13	5.1
30	28	63	33	150	---	76	68	36	75	8.7	12	4.8
31	26	---	29	142	---	63	---	32	---	8.0	11	---
TOTAL	2889	1565	1862	2630	4401	2841	2489	2694	671.0	428.1	876.4	156.6
MEAN	93.2	52.2	60.1	84.8	152	91.6	83.0	86.9	22.4	13.8	28.3	5.22
MAX	722	129	205	500	485	287	364	434	75	127	274	11
MIN	12	20	29	28	43	40	23	31	9.0	2.6	6.2	2.4
CFSM	2.64	1.48	1.70	2.40	4.31	2.59	2.35	2.46	.63	.39	.80	.15
IN.	3.04	1.65	1.96	2.77	4.64	2.99	2.62	2.84	.71	.45	.92	.17

CAL YR 1975	TOTAL	19881.97	MEAN 54.5	MAX 822	MIN .75	CFSM 1.54	IN 20.95
WTR YR 1976	TOTAL	23503.10	MEAN 64.2	MAX 722	MIN 2.4	CFSM 1.82	IN 24.77

HUDSON RIVER BASIN

01362198 ESOPUS CREEK AT SHANDAKEN, NY
(Hydrologic bench-mark station)

LOCATION.--Lat 42°06'59", long 74°23'20", Ulster County, Hydrologic Unit 02020006, on left bank 2,400 ft (732 m) downstream from bridge on State Highway 28, at Shandaken, 0.5 mi (0.8 km) downstream from Bushnellsville Creek, 0.5 mi (0.8 km) upstream from Fox Hollow Creek, and 5.2 mi (8.4 km) northwest of Phoenicia. Water-quality sampling site at discharge station.

DRAINAGE AREA.--59.5 mi² (154 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,017.27 ft (310.064 m) above mean sea level.

REMARKS.--Records poor. Occasional slight regulation when filling or draining swimming pools or small ponds above station.

AVERAGE DISCHARGE.--13 years, 135 ft³/s (3.823 m³/s), 30.81 in/yr (782.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,870 ft³/s (223 m³/s) July 28, 1969, gage height, 10.88 ft (3.316 m), from rating extended above 2,200 ft³/s (62.3 m³/s) on basis of slope-area measurement of peak flow; minimum, 2.8 ft³/s (0.079 m³/s) Nov. 22, 23, 1964, result of freezeup, gage height, 4.15 ft (1.265 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge above base of 1,100 ft³/s (31 m³/s), about 4,100 ft³/s (116 m³/s) Jan. 27; minimum daily, 11 ft³/s (0.31 m³/s) Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	117	183	100	280	240	250	200	103	119	26	22
2	122	112	173	90	500	230	460	400	95	88	27	19
3	112	107	170	88	400	210	390	350	84	76	21	19
4	95	103	161	72	330	240	280	300	76	66	24	18
5	91	93	152	70	280	280	250	250	68	68	20	18
6	84	88	146	60	200	260	200	220	68	62	19	17
7	78	84	135	54	170	240	170	200	80	62	22	17
8	72	86	124	45	150	200	150	170	70	62	31	15
9	70	82	122	45	140	180	140	160	66	55	26	15
10	66	95	170	45	130	170	130	140	80	47	42	21
11	82	112	155	50	130	150	120	130	76	44	74	22
12	95	114	152	60	130	140	110	140	76	44	57	20
13	88	187	149	80	130	130	100	138	66	43	54	19
14	114	206	149	100	130	170	94	130	66	47	59	15
15	112	206	132	150	170	150	90	122	62	44	52	13
16	110	196	127	130	200	140	110	114	57	42	46	13
17	110	183	119	120	280	130	140	130	64	54	47	19
18	396	173	117	110	350	130	130	143	55	42	43	20
19	453	164	90	100	520	130	110	177	51	36	37	17
20	422	149	80	90	450	140	100	227	47	32	35	16
21	353	203	70	86	400	170	90	308	61	32	32	14
22	300	223	60	80	520	220	80	344	76	32	30	14
23	252	213	60	90	800	210	74	304	62	29	28	13
24	220	203	60	130	700	200	70	267	59	31	26	12
25	206	190	60	500	500	190	120	220	59	30	24	11
26	190	173	90	1500	450	170	190	190	54	26	24	13
27	173	200	100	3100	400	170	160	164	49	24	31	40
28	155	196	130	800	380	180	140	146	47	24	44	34
29	146	177	110	450	350	200	120	132	49	23	31	28
30	132	167	120	310	---	190	100	122	80	31	27	25
31	124	---	110	280	---	200	---	110	---	29	23	---
TOTAL	5161	4602	3776	8985	9570	5760	4668	6148	2006	1444	1082	559
MEAN	166	153	122	290	330	186	156	198	66.9	46.6	34.9	18.6
MAX	453	223	183	3100	800	280	460	400	103	119	74	40
MIN	66	82	60	45	130	130	70	110	47	23	19	11
CFSM	2.79	2.57	2.05	4.87	5.55	3.13	2.62	3.33	1.12	.78	.59	.31
IN.	3.23	2.88	2.36	5.62	5.98	3.60	2.92	3.84	1.25	.90	.68	.35

CAL YR 1975 TOTAL 57431 MEAN 157 MAX 1160 MIN 25 CFSM 2.64 IN 35.91
WTR YR 1976 TOTAL 53761 MEAN 147 MAX 3100 MIN 11 CFSM 2.47 IN 33.61

Note.--No gage-height record Jan. 16-27.

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1963 to July 1968, January 1970 to current year.

INSTRUMENTATION.--Temperature recorder since July 1963.

REMARKS.--No record Dec. 8 to Jan. 13, due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 28.5°C Aug. 16, 1965; minimum, freezing point on many days during winter periods except 1967 and 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 25.0°C July 22; minimum, 0.5°C Jan. 14-17.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT									
20...	1700	362	47	7.3	10.5	11.3	103	79	24
NOV									
21...	1300	173	51	7.1	9.5	11.7	101	250	E260
DEC									
16...	1530	127	46	7.1	4.0	13.0	100	812	82
JAN									
13...	1200	80	50	6.4	.5	14.8	103	810	81
FEB									
18...	1300	350	54	6.6	3.0	13.8	105	88	14
MAR									
23...	1630	210	49	6.4	6.5	12.6	103	86	82
APR									
12...	1530	110	48	7.3	7.0	12.2	101	<1	<1
MAY									
25...	1800	220	44	6.6	10.0	11.4	101	61	89
JUN									
15...	1000	132	55	6.4	17.0	10.4	105	130	24
JUL									
09...	1130	122	54	7.4	18.0	10.0	105	48	17
AUG									
11...	1330	132	62	6.5	19.5	9.5	105	940	24
SEP									
22...	1330	14	65	7.5	14.0	11.0	111	820	84

DATE	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
OCT									
20...	26	17	6	5.9	.5	.3	14	0	11
NOV									
21...	E150	13	7	3.2	1.3	.4	8	0	7
DEC									
16...	82	19	6	5.0	1.5	.2	16	0	13
JAN									
13...	82	23	10	7.5	1.0	.3	16	0	13
FEB									
18...	13	15	8	4.0	1.1	.1	8	0	7
MAR									
23...	82	15	1	4.5	.9	.3	17	0	14
APR									
12...	<1	16	4	4.5	1.1	.2	14	0	11
MAY									
25...	87	15	6	4.5	1.0	.3	12	0	10
JUN									
15...	20	17	4	5.0	1.2	.2	16	0	13
JUL									
09...	68	17	1	5.2	1.0	.4	20	0	16
AUG									
11...	59	19	4	5.4	1.4	.5	19	0	16
SEP									
22...	86	25	9	6.9	1.9	.4	20	0	16

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

E Estimated

HUDSON RIVER BASIN

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 20...	8.2	2.0	.1	2.6	37	28	.25	.02
NOV 21...	7.0	3.7	.1	2.6	46	24	.26	.02
DEC 16...	8.2	2.8	.1	2.9	31	30	.29	.02
JAN 13...	7.8	3.3	.1	3.0	36	33	.38	.02
FEB 18...	7.9	5.5	.1	2.8	33	28	.50	.03
MAR 23...	7.4	4.3	.0	2.0	25	29	.46	.01
APR 12...	8.4	3.3	.1	2.6	22	29	.30	.02
MAY 25...	6.6	3.3	.0	2.7	31	26	.27	.01
JUN 15...	8.1	2.4	.1	2.9	31	30	.18	.01
JUL 09...	5.8	3.7	.1	3.1	32	31	.20	.03
AUG 11...	7.5	3.6	.1	3.3	32	34	.39	.03
SEP 22...	9.8	5.7	.1	2.4	40	40	.11	.02

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT 20...	0	0	0	0	10	170	1	20	<.5	0	1	10
JUL 09...	0	0	0	<10	0	30	1	10	<.5	0	0	10

DATE	PCB IN BOTTOM MATERIAL (UG/KG)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	CHLORDANE IN BOTTOM MATERIAL (UG/KG)	DDD IN BOTTOM MATERIAL (UG/KG)	DDE IN BOTTOM MATERIAL (UG/KG)	DDT IN BOTTOM MATERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MATERIAL (UG/KG)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MATERIAL (UG/KG)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)
OCT 20...	0	.0	0	1.0	2.3	3.2	.0	.0	.0	.0	.0	0

DATE	DIS-SOLVED GROSS ALPHA AS U-VAT. (UG/L)	SUSPENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SP90 /Y90 (PC/L)	SUSPENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT 20...	<.4	<.4	.9	.8	<.4	.01	<.01

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.5	7.0	7.0	7.0	7.0	---	---	2.5	2.0	4.0	4.0
2	14.0	13.0	8.5	7.0	7.0	7.0	---	---	2.5	2.0	4.0	3.0
3	13.0	11.5	9.5	8.5	7.0	7.0	---	---	2.0	2.0	3.5	3.0
4	12.5	11.5	10.0	9.5	7.0	7.0	---	---	2.0	2.0	3.5	3.0
5	12.5	11.5	10.0	9.5	7.0	7.0	---	---	2.0	2.0	6.0	3.5
6	12.5	11.5	9.5	8.5	7.0	7.0	---	---	2.0	2.0	6.0	3.5
7	12.5	12.5	9.0	8.5	7.0	6.5	---	---	2.0	2.0	3.5	3.5
8	12.5	11.5	11.0	9.0	---	---	---	---	2.0	1.5	3.5	3.5
9	11.5	11.0	11.0	11.0	---	---	---	---	2.0	1.5	3.5	3.5
10	11.0	11.0	11.0	11.0	---	---	---	---	2.0	2.0	3.5	3.5
11	11.0	11.0	11.0	10.0	---	---	---	---	3.0	2.0	3.5	3.5
12	11.0	11.0	10.0	8.0	---	---	---	---	2.5	2.0	3.5	3.5
13	11.0	10.5	8.0	8.0	---	---	---	---	3.5	2.5	4.0	3.5
14	11.0	10.5	8.0	7.5	---	---	0.5	0.5	3.5	2.5	4.0	3.5
15	12.0	11.0	7.5	7.0	---	---	0.5	0.5	2.5	2.0	4.0	3.5
16	12.0	12.0	7.0	7.0	---	---	0.5	0.5	3.5	2.0	3.5	3.5
17	12.0	10.5	7.0	7.0	---	---	1.0	0.5	4.0	3.5	3.0	3.0
18	10.5	10.0	7.5	7.0	---	---	1.5	1.0	3.5	3.0	3.0	3.0
19	10.0	10.0	8.0	7.5	---	---	2.0	1.5	3.5	3.0	4.0	3.0
20	10.0	10.0	8.0	8.0	---	---	2.0	1.5	3.0	2.5	6.5	3.5
21	10.0	10.0	8.0	8.0	---	---	1.5	1.5	2.5	2.5	6.5	5.5
22	10.5	10.0	8.0	7.5	---	---	1.5	1.5	3.5	2.5	6.0	3.5
23	10.5	10.0	7.5	7.0	---	---	2.0	1.5	3.0	1.5	4.0	3.5
24	10.5	10.0	7.0	7.0	---	---	2.0	1.5	2.5	1.0	5.5	3.5
25	10.5	10.5	7.0	7.0	---	---	1.5	1.5	4.0	2.5	5.5	4.5
26	11.0	10.5	7.0	7.0	---	---	1.5	1.5	4.5	3.5	7.0	4.5
27	10.5	9.0	7.0	7.0	---	---	3.0	1.5	4.5	4.5	7.5	4.5
28	10.0	9.0	7.0	7.0	---	---	3.0	2.5	4.5	4.0	7.5	5.0
29	10.0	10.0	7.0	7.0	---	---	3.0	2.5	4.0	3.5	5.5	4.0
30	10.0	8.5	7.0	7.0	---	---	3.0	3.0	---	---	6.5	4.5
31	8.5	7.0	---	---	---	---	3.0	2.0	---	---	6.0	5.0
MONTH	14.5	7.0	11.0	7.0	---	---	---	---	4.5	1.0	7.5	3.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	5.5	8.0	6.0	11.5	10.5	20.5	16.0	20.5	18.0	20.0	16.0
2	6.0	5.5	8.0	6.0	15.0	10.0	19.5	15.0	20.0	14.5	20.0	17.5
3	6.5	6.0	8.0	6.0	14.0	9.0	19.5	14.0	22.0	14.5	20.0	15.5
4	6.5	6.5	7.5	6.0	16.5	10.5	20.0	15.0	22.0	15.0	19.0	16.0
5	7.5	7.0	10.5	7.5	17.0	9.5	22.0	14.5	21.5	16.0	19.5	18.0
6	7.5	7.0	12.0	10.5	12.5	10.5	21.5	15.0	19.5	18.0	19.5	15.5
7	8.0	7.5	12.5	11.5	16.5	11.0	18.0	16.0	18.5	16.5	19.5	15.5
8	8.0	7.5	12.5	11.0	18.5	11.5	18.0	15.0	17.5	16.5	21.5	17.5
9	7.5	7.0	13.5	12.0	20.0	12.5	22.5	15.5	18.0	17.0	22.0	18.0
10	8.0	7.5	14.0	11.5	20.5	13.5	22.5	15.0	18.0	17.0	20.5	18.0
11	8.0	7.0	11.5	10.0	19.0	14.5	23.5	16.5	22.0	16.0	18.0	15.5
12	7.0	7.0	10.0	8.0	20.5	14.5	20.5	17.5	19.5	16.5	19.5	15.5
13	7.5	7.0	11.0	6.5	17.0	12.0	17.5	15.5	21.0	17.5	20.5	16.5
14	9.5	7.0	12.0	9.0	19.0	13.0	18.0	16.0	21.0	17.5	21.0	17.0
15	9.0	7.5	13.5	9.5	21.5	15.0	24.0	15.5	20.5	18.0	19.0	18.0
16	9.5	8.0	10.5	8.5	21.5	16.0	20.0	17.0	19.0	17.0	19.0	17.0
17	12.5	8.5	9.5	8.0	19.0	16.0	23.5	17.5	20.0	15.5	17.5	17.0
18	13.0	9.5	9.5	7.5	21.0	14.0	21.5	15.5	21.0	16.0	17.5	16.5
19	13.5	10.0	7.0	7.0	21.5	16.5	24.0	17.0	21.0	16.0	17.5	15.5
20	12.0	10.0	9.5	7.0	19.5	17.0	24.0	18.5	22.5	16.5	17.0	14.0
21	12.0	9.5	10.0	7.5	18.0	16.5	22.0	20.0	23.5	18.5	16.5	13.5
22	11.0	10.0	8.5	7.5	19.5	16.5	25.0	17.5	24.0	19.5	14.0	12.0
23	10.5	9.0	9.5	7.5	19.5	16.0	21.0	17.5	22.0	19.5	16.0	10.5
24	9.0	8.0	10.0	7.5	22.0	16.0	23.0	17.5	23.0	18.5	16.0	11.5
25	8.0	7.5	8.5	8.0	20.0	16.5	22.5	16.5	23.0	18.0	15.0	10.0
26	7.5	7.5	8.5	8.0	23.0	16.0	23.0	15.5	21.5	18.5	12.0	10.0
27	7.5	6.5	13.0	8.0	21.5	15.5	21.5	17.0	21.0	19.5	14.0	12.0
28	6.5	6.5	14.5	8.0	21.0	15.0	24.0	18.0	22.5	19.5	14.0	11.0
29	6.5	6.5	13.0	9.0	22.5	16.0	20.5	17.5	22.5	19.5	14.0	9.5
30	8.0	6.0	12.0	10.0	18.0	16.5	19.0	17.0	19.5	16.5	12.5	10.5
31	---	---	13.5	10.0	---	---	22.5	18.0	19.5	14.5	---	---
MONTH	13.5	5.5	14.5	6.0	23.0	9.0	25.0	14.0	24.0	14.5	22.0	9.5

HUDSON RIVER BASIN

01362500 ESOPUS CREEK AT COLDBROOK, NY

LOCATION.--Lat 42°00'51", long 74°16'16", Ulster County, Hydrologic Unit 02020006, on left bank at downstream side of bridge on Coldbrook Road, in Coldbrook, 1.5 mi (2.4 km) upstream from Ashokan Reservoir, and 2.5 mi (4.0 km) south of Mount Tremper.

DRAINAGE AREA.--192 mi² (497 km²).

PERIOD OF RECORD.--January 1914 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 621.54 ft (189.445 m) above mean sea level. Prior to June 15, 1916, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Since 1924, water diverted from Schoharie Reservoir through Shandaken Tunnel (see Reservoirs in Hudson River Basin) enters Esopus Creek 10.5 mi (16.9 km) above station and is included in records of daily discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,600 ft³/s (1,690 m³/s) Mar. 30, 1951, gage height, 20.70 ft (6.309 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of slope-area measurements at gage heights 12.39 ft (3.776 m), 15.15 ft (4.618 m), and 20.70 ft (6.309 m); minimum daily, 8 ft³/s (0.23 m³/s) Oct. 14, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,400 ft³/s (436 m³/s) Jan. 27, gage height, 13.10 ft (3.992 m); minimum daily, 99 ft³/s (2.80 m³/s) Sept. 23; minimum gage height, 4.23 ft (1.289 m) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	763	1210	1480	1090	1010	854	2360	862	292	1090	540	551
2	717	1180	1450	1000	1500	766	1940	2450	246	636	523	546
3	672	1170	1410	960	940	702	1370	1450	326	523	534	540
4	642	1150	1360	960	840	689	1070	1100	586	486	580	529
5	612	1130	1320	980	720	1180	854	871	643	377	586	523
6	594	1110	1290	900	640	1420	716	723	649	257	574	513
7	571	1090	1250	740	560	1100	617	630	656	231	649	507
8	554	1110	1210	540	520	888	540	546	431	231	623	496
9	542	1090	1230	450	470	737	486	481	231	207	1140	491
10	490	1220	1850	450	430	662	440	431	213	187	1810	496
11	380	1270	1580	470	475	586	412	399	228	177	1070	491
12	425	1250	1490	560	436	512	377	682	351	177	941	475
13	390	1680	1430	700	426	636	356	496	339	168	1080	470
14	479	1700	1410	943	436	551	331	460	343	162	1090	460
15	446	1580	1360	830	399	475	309	431	335	235	1040	445
16	436	1500	1320	740	529	450	820	403	335	253	1030	460
17	436	1430	1260	680	1300	426	967	507	343	335	950	496
18	1760	1380	1220	500	1240	394	932	766	331	301	730	502
19	2010	1330	1160	470	1850	412	862	1110	322	292	643	455
20	1960	1300	1120	500	1590	529	656	1050	322	284	630	394
21	1730	1580	1130	450	1250	845	551	1150	386	284	623	203
22	1390	1640	1110	470	1860	983	534	1150	450	318	611	107
23	1210	1530	1080	440	1860	923	518	950	390	431	598	99
24	1470	1480	1100	440	1380	871	496	773	377	445	605	165
25	1530	1420	1200	470	1130	837	580	656	364	422	605	445
26	1520	1360	1300	1100	1050	796	992	574	351	436	598	481
27	1410	1650	1300	12000	1110	773	845	513	339	546	636	598
28	1350	1600	1200	5830	1090	1040	662	445	335	540	574	523
29	1310	1480	1130	2570	967	923	617	399	335	540	592	491
30	1270	1430	1090	1560	---	820	563	373	766	557	574	475
31	1230	---	1130	1070	---	529	---	347	---	540	563	---
TOTAL	30299	41050	39970	40863	28008	23309	22773	23178	11615	11668	23342	13427
MEAN	977	1368	1289	1318	966	752	759	748	387	376	753	448
MAX	2010	1700	1850	12000	1860	1420	2360	2450	766	1090	1810	598
MIN	380	1090	1080	440	399	394	309	347	213	162	523	99

CAL YR 1975 TOTAL 292245 MEAN 801 MAX 6240 MIN 155
WTR YR 1976 TOTAL 309502 MEAN 846 MAX 12000 MIN 99

HUDSON RIVER BASIN

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01364500 ESOPUS CREEK AT MOUNT MARION, NY

LOCATION.--Lat 42°02'16", long 73°58'21", Ulster County, Hydrologic Unit 02020006, on left bank at downstream side of bridge on Glasco Turnpike, 0.8 mi (1.3 km) east of Mount Marion, 1.6 mi (2.6 km) downstream from Plattekill Creek, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--419 mi² (1,085 km²).

PERIOD OF RECORD.--May 1907 to March 1918 (monthly discharge only, published in WSP 1302) occasional miscellaneous measurements, 1951, 1956, 1966, 1967, 1969. March 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 40.16 ft (12.241 m) above mean sea level. Prior to Aug. 12, 1970, nonrecording gage at same site (at different datum May 1907 to March 1908, and at present datum June 9, 1966 to Aug. 12, 1970).

REMARKS.--Records fair except those for winter periods, which are poor. Flow from 256 mi² (663 km²) of drainage area regulated by Ashokan Reservoir since Sept. 9, 1913. Water diverted from Schoharie Creek through Shandaken Tunnel (see Reservoirs in Hudson River Basin) since Feb. 3, 1924, enters Esopus Creek about 12.2 mi (19.6 km) above Ashokan Reservoir. Large diversions from 33 mi² (85.5 km²) of Saw Kill and 17 mi² (44.0 km²) of Plattekill tributaries above station for water supply of Kingston and Saugerties. Diversions upstream during summer months for irrigation purposes. Diversions for water supply of city of New York made from Ashokan Reservoir (see Reservoirs in Hudson River Basin). Discharge records for this station now represent the natural flow from 112 mi² (290 km²), together with spillage during high stages from the upstream reservoirs.

AVERAGE DISCHARGE.--6 years (1971-76), 609 ft³/s (17.25 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,000 ft³/s (793 m³/s) Apr. 26, 1910, gage height, 25.10 ft (7.650 m), datum then in use; minimum, 10 ft³/s (0.28 m³/s) Aug. 20-22, 1970, gage height, 11.77 ft (3.587 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,100 ft³/s (513 m³/s) Jan. 28, gage height, 23.82 ft (7.260 m); minimum, 35 ft³/s (0.99 m³/s) Aug. 6, 7, gage height, 12.23 ft (3.728 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	241	1840	1100	2070	1030	1720	324	180	1290	61	70
2	172	221	1850	1000	2770	890	3230	2600	176	440	56	65
3	147	206	1670	900	2770	823	3140	2890	174	271	48	63
4	130	193	1620	800	2360	793	2390	2390	150	211	43	60
5	118	177	1480	700	1690	909	1790	1680	135	168	40	57
6	109	165	1430	600	1270	1110	1280	1210	125	141	37	53
7	99	156	1450	540	1100	1190	966	939	141	123	134	49
8	92	196	1280	500	1000	1200	749	761	137	136	169	47
9	87	221	1240	470	860	949	858	546	123	119	155	46
10	82	231	1950	450	810	790	468	375	111	104	1460	53
11	88	382	2550	400	767	697	387	304	103	92	581	79
12	134	378	2300	380	773	664	414	686	94	86	316	62
13	134	1230	2030	380	691	724	324	680	86	79	251	53
14	156	1350	1890	400	737	999	239	516	80	75	301	48
15	155	985	1780	450	675	783	218	412	76	69	275	45
16	137	976	1710	350	749	726	272	343	74	61	324	44
17	124	1230	1550	300	1920	770	288	323	73	74	243	81
18	983	1250	1430	250	2380	691	244	474	74	79	182	167
19	1710	1200	1320	220	2680	473	229	1370	69	66	149	122
20	2140	1110	1100	200	3050	461	336	1500	65	60	129	95
21	1270	1270	1000	170	2870	472	394	1510	71	55	114	81
22	803	2150	1000	160	2710	456	342	1480	120	53	102	69
23	545	2150	900	150	2880	402	261	1390	132	50	91	60
24	418	1930	800	150	2700	353	232	1190	109	61	82	54
25	400	1750	720	170	2250	334	220	986	95	67	75	51
26	613	1580	800	230	1870	337	464	820	83	57	76	61
27	475	1770	1690	4970	1610	345	536	687	70	50	139	407
28	398	2330	1790	16600	1380	409	580	487	66	45	146	335
29	340	2240	1590	10300	1200	520	472	336	83	43	120	218
30	300	1950	1370	5230	---	454	351	259	211	52	98	167
31	246	---	1300	3010	---	434	---	213	---	61	79	---
TOTAL	12830	31218	46430	51530	50592	21188	23394	29681	3286	4338	6076	2862
MEAN	414	1041	1498	1662	1745	683	780	957	110	140	196	95.4
MAX	2140	2330	2550	16600	3050	1200	3230	2890	211	1290	1460	407
MIN	82	156	720	150	675	334	218	213	65	43	37	44
CFSM	.99	2.48	3.58	3.97	4.16	1.63	1.86	2.28	.26	.33	.47	.23
IN.	1.14	2.77	4.12	4.57	4.49	1.88	2.08	2.64	.29	.39	.54	.25

CAL YR 1975 TOTAL 239805 MEAN 657 MAX 4590 MIN 31 CFSM 1.57 IN 21.29
WTR YR 1976 TOTAL 283425 MEAN 774 MAX 16600 MIN 37 CFSM 1.85 IN 25.16

HUDSON RIVER BASIN

01364502 HUDSON RIVER (ESOPUS CREEK) AT SAUGERTIES, NY

LOCATION.--Lat 42°04'16", long 73°56'15", Ulster County, Hydrologic Unit 02020006, at Coast Guard Station, on left bank, 0.4 mi (0.6 km) upstream from mouth, and 0.9 mi (1.4 km) downstream from dam in Saugerties.

DRAINAGE AREA.--10,436 mi² (27,029 km²), includes that of Esopus Creek.

PERIOD OF RECORD.--November 1973 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is at 10.00 ft (3.048 m) below mean sea level (levels by Corps of Engineers). Gage-height record converted to elevation above or below (-) mean sea level for publication.

Summaries of tide elevations during year are as follows:

		TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	5.62	4.73	--	--	4.37(a)	4.53	4.85	4.78	4.03	4.33	3.96	4.11
high tide	Date	20	21	--	--	22(a)	17	02	02	13	01	11,28	27
Minimum	Elevation	-1.63	-1.41	--	--	-1.23(a)	-3.12	-2.87	-1.81	-1.85	-1.38	-1.39	-1.54
low tide	Date	07	15	--	--	23(a)	17	12	08	12	09	30	24
Mean high tide		3.43	3.32	--	--	--	3.07	3.09	3.17	3.07	3.18	3.13	3.13
Mean water level		1.61	1.51	--	--	--	1.31	1.28	1.33	1.21	1.33	1.30	1.29
Mean low tide		-0.43	-0.54	--	--	--	-0.69	-0.73	-0.71	-0.93	-0.82	-0.80	-0.83

a Recorded.

NOTE: No elevations recorded Dec. 1 to Feb. 19.

01365000 RONDOUT CREEK NEAR LOWES CORNERS, NY

LOCATION.--Lat 41°52'00", long 74°29'12", Sullivan County, Hydrologic Unit 02020007, on left bank 100 ft (30 m) downstream from small tributary, 350 ft (107 m) upstream from bridge on county road, 1.1 mi (1.8 km) upstream from Sugarloaf Brook, 1.1 mi (1.8 km) east of Lowes Corners, and 1.9 mi (3.1 km) southwest of Sundown.

DRAINAGE AREA.--38.5 mi² (99.7 km²).

PERIOD OF RECORD.--February 1937 to current year.

REVISED RECORDS.--WSP 1702: 1952.

GAGE.--Water-stage recorder. Datum of gage is 874.44 ft (266.529 m) above mean sea level. Prior to Oct. 4, 1938, nonrecording gage at highway bridge 350 ft (107 m) downstream at datum 847.00 ft (258.17 m) above mean sea level (levels by Board of Water Supply, City of New York). Oct. 4, 1938 to July 5, 1951, water-stage recorder at site 1.2 mi (1.9 km) downstream; Oct. 4, 1938 to July 3, 1949, datum 847.00 ft (258.17 m) and July 4, 1949 to July 5, 1951, datum 846.00 ft (257.86 m) above mean sea level (levels by Board of Water Supply, City of New York).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--39 years, 97.4 ft³/s (2.758 m³/s), 34.35 in/yr (872.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,600 ft³/s (215 m³/s) July 22, 1938, from rating curve extended above 2,600 ft³/s (73.6 m³/s); maximum gage height, 10.38 ft (3.164 m) Oct. 15, 1955; minimum discharge, 4.2 ft³/s (0.12 m³/s) Nov. 13, 15, 21, 23, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	--	*†3,000 85	unknown	June 30	2000	1,390 39.4	5.78 1.762

† About.

Minimum discharge, 21 ft³/s (0.59 m³/s) Sept. 14, 15, 16, gage height, 3.25 ft (0.991 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	80	105	68	240	256	563	153	76	325	34	32
2	88	78	98	64	350	225	346	397	90	156	28	38
3	78	74	92	76	280	203	256	233	68	126	25	37
4	72	72	85	64	230	233	210	189	62	124	24	35
5	68	68	84	56	190	351	176	269	58	106	23	34
6	64	66	82	56	180	362	156	146	70	92	23	31
7	60	64	80	64	140	273	144	135	81	86	54	29
8	57	78	76	60	130	225	132	121	61	81	42	28
9	53	68	78	54	120	189	118	108	54	70	35	29
10	51	85	111	46	110	173	110	100	51	61	153	36
11	84	85	92	50	110	158	104	92	48	58	94	32
12	92	102	84	56	110	142	94	153	45	59	74	27
13	72	226	84	54	100	199	90	104	44	53	68	23
14	90	188	84	100	100	164	83	96	42	50	64	23
15	78	158	84	57	110	148	79	92	40	45	58	21
16	76	137	80	55	220	142	90	88	38	53	53	23
17	76	124	78	51	270	132	76	121	45	90	48	54
18	245	114	76	44	214	124	70	139	36	48	44	53
19	226	102	66	45	325	132	66	151	35	42	41	35
20	226	96	64	44	287	158	62	161	36	38	38	28
21	192	151	68	42	233	186	59	156	64	37	36	26
22	158	137	68	39	397	182	59	142	70	35	35	25
23	129	114	64	38	335	161	56	132	58	35	32	23
24	116	107	55	36	261	153	54	121	53	50	31	23
25	129	102	60	35	252	148	70	110	48	34	29	23
26	129	96	98	167	291	142	146	102	42	30	40	40
27	109	129	94	1700	341	139	98	96	38	28	148	148
28	100	114	76	1100	320	192	90	88	40	27	62	83
29	94	100	70	600	273	146	88	81	48	31	54	66
30	90	96	68	350	---	135	86	79	199	61	45	59
31	84	---	78	240	---	126	---	72	---	36	41	---
TOTAL	3282	3211	2482	5511	6519	5699	3831	4227	1740	2167	1576	1164
MEAN	106	107	80.1	178	225	184	128	136	58.0	69.9	50.8	38.8
MAX	245	226	111	1700	397	362	563	397	199	325	153	148
MIN	51	64	55	35	100	124	54	72	35	27	23	21
CFSM	2.75	2.78	2.08	4.62	5.84	4.78	3.32	3.53	1.51	1.82	1.32	1.01
IN.	3.17	3.10	2.40	5.32	6.30	5.51	3.70	4.08	1.68	2.09	1.52	1.12

CAL YR 1975 TOTAL 43359 MEAN 119 MAX 1480 MIN 24 CFSM 3.09 IN 41.89
WTR YR 1976 TOTAL 41409 MEAN 113 MAX 1700 MIN 21 CFSM 2.94 IN 40.01

Note.--No gage-height record Jan. 27 to Feb. 17.

HUDSON RIVER BASIN

01365500 CHESTNUT CREEK AT GRAHAMSVILLE, NY

LOCATION.--Lat 41°50'42", long 74°32'27", Sullivan County, Hydrologic Unit 02020007, on right bank just downstream from bridge in Grahamsville, 600 ft (183 m) downstream from Red Brook, and 0.6 mi (1.0 km) upstream from bridge on State Highway 55.

DRAINAGE AREA.--20.9 mi² (54.1 km²).

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 880.96 ft (268.516 m) above mean sea level.

REMARKS.--Records poor. Slight seasonal regulation caused by Beaverdam Pond on Red Brook.

AVERAGE DISCHARGE.--38 years, 38.9 ft³/s (1.102 m³/s), 25.28 in/yr (642.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft³/s (131 m³/s) Oct. 15, 1955, gage height, 5.02 ft (1.530 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s) on basis of slope-area measurement at gage height 4.68 ft (1.426 m); minimum, 1.4 ft³/s (0.040 m³/s) Nov. 1, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	1830	*998 28.3	*2.45 0.747	Aug. 26	2400	514 14.6	2.09 0.637
June 30	1815	719 20.4	2.29 0.698				

Minimum discharge, 7.2 ft³/s (0.20 m³/s) Aug. 25, gage height, 0.70 ft (0.213 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	25	53	35	107	110	266	89	29	128	21	21
2	29	24	51	30	154	99	154	131	30	64	18	20
3	29	24	46	32	192	92	113	82	24	46	15	19
4	27	23	42	30	131	113	92	67	21	44	13	17
5	26	21	40	27	80	157	78	59	19	37	12	16
6	26	20	40	27	73	147	69	51	30	32	13	14
7	22	19	39	30	78	110	64	47	44	29	53	13
8	19	29	37	29	71	92	61	42	29	32	47	12
9	18	23	30	27	59	78	57	39	23	23	32	11
10	17	46	47	25	61	75	53	35	19	19	55	16
11	48	42	35	26	66	73	49	32	17	23	35	15
12	54	69	32	29	62	64	46	78	16	32	21	13
13	36	144	29	29	60	110	46	40	15	20	20	11
14	39	85	30	56	56	89	44	37	14	18	18	10
15	30	62	30	44	56	78	42	35	13	17	17	9.7
16	26	53	29	40	54	71	42	34	13	32	15	10
17	26	47	27	37	52	67	39	62	16	110	14	27
18	147	42	25	49	52	67	37	69	11	39	13	20
19	86	39	21	30	54	71	35	78	10	29	10	15
20	73	37	22	32	175	94	34	78	9.7	24	10	13
21	61	80	26	32	137	110	32	62	20	21	9.7	13
22	53	64	26	29	203	97	30	57	20	20	9.0	11
23	46	51	25	29	168	80	30	49	64	19	8.4	9.7
24	40	60	22	30	131	73	29	44	47	30	8.4	9.0
25	44	42	23	29	128	71	42	35	32	17	7.8	8.4
26	42	40	43	87	140	67	87	34	20	15	49	29
27	37	75	48	649	161	67	51	32	17	14	207	61
28	34	61	38	434	144	99	44	30	18	15	85	29
29	32	51	33	214	122	75	39	29	20	20	57	19
30	29	47	32	157	---	67	42	29	137	62	35	17
31	27	---	35	125	---	62	---	27	---	29	25	---
TOTAL	1258	1445	1056	2479	3027	2725	1847	1613	797.7	1060	953.3	508.8
MEAN	40.6	48.2	34.1	80.0	104	87.9	61.6	52.0	26.6	34.2	30.8	17.0
MAX	147	144	53	649	203	157	266	131	137	128	207	61
MIN	17	19	21	25	52	62	29	27	9.7	14	7.8	8.4
CFSM	1.94	2.31	1.63	3.83	4.98	4.21	2.95	2.49	1.27	1.64	1.47	.81
IN.	2.24	2.57	1.88	4.41	5.39	4.85	3.29	2.87	1.42	1.89	1.70	.91

CAL YR 1975	TOTAL	19056.0	MEAN 52.2	MAX 539	MIN 10	CFSM 2.50	IN 33.92
WTR YR 1976	TOTAL	18769.8	MEAN 51.3	MAX 649	MIN 7.8	CFSM 2.45	IN 33.41

HUDSON RIVER BASIN

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01366650 SANDBURG CREEK AT ELLENVILLE, NY

LOCATION.--Lat 41°42'54", long 74°23'21", Ulster County, Hydrologic Unit 02020007, on right bank at upstream side of bridge on Canal Street, at Ellenville, 800 ft (244 m) downstream from North Gully, 0.5 mi (0.8 km) upstream from Beer Kill, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--56.7 mi² (147 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1943, 1949-50, 1955-1957. April 1957 to current year.

REVISED RECORDS.--WRD NY 1971: 1969(P).

GAGE.--Water-stage recorder. Datum of gage is 303.22 ft (92.421 m) above mean sea level. Prior to Aug. 28, 1957, nonrecording gage.

REMARKS.--Records fair. Occasional regulation when filling swimming pools or small ponds upstream from station.

AVERAGE DISCHARGE.--19 years, 101 ft³/s (2.860 m³/s), 24.19 in/yr (614.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,660 ft³/s (132 m³/s) Aug. 19, 1960, gage height, 7.01 ft (2.137 m); minimum 3.2 ft³/s (0.091 m³/s) Oct. 14, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	2145	*1,950 55.2	*5.63 1.716	Aug. 10	0345	892 25.3	3.79 1.155
Apr. 1	1145	867 24.6	3.74 1.140				

Minimum discharge, 16 ft³/s (0.45 m³/s) June 15, gage height, 0.71 ft (0.216 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	60	138	116	260	158	517	102	60	108	49	42
2	45	59	126	96	472	144	400	373	66	59	32	43
3	41	62	116	100	308	140	340	208	54	44	26	44
4	40	56	102	94	254	146	280	162	51	65	23	39
5	39	51	92	68	203	206	240	134	49	65	21	38
6	37	49	90	58	180	219	210	118	51	45	22	35
7	35	49	86	64	154	173	180	104	75	40	102	31
8	35	96	75	68	148	148	160	94	57	44	77	34
9	34	77	77	58	132	126	130	80	50	40	60	32
10	34	104	173	56	120	122	120	75	45	30	447	34
11	53	138	142	56	110	122	100	72	43	33	186	40
12	71	177	114	56	110	110	94	201	40	35	114	32
13	53	490	102	58	110	169	84	130	37	29	80	28
14	53	320	104	68	110	180	79	108	35	28	65	26
15	51	206	102	64	116	148	75	96	28	26	66	26
16	49	160	100	58	142	138	74	84	27	26	102	27
17	48	148	86	54	573	130	71	118	36	43	64	65
18	265	124	82	50	493	112	69	162	29	30	49	104
19	243	116	66	48	564	128	65	232	27	26	42	62
20	208	106	56	47	520	184	60	186	30	24	38	47
21	158	166	65	47	373	193	57	154	62	24	34	44
22	126	206	69	46	501	186	54	134	72	24	32	39
23	102	148	65	48	428	152	54	112	56	26	30	34
24	86	132	50	52	295	138	50	98	45	49	28	31
25	108	120	49	56	251	130	57	88	40	30	26	30
26	114	110	124	98	229	120	128	80	34	25	27	47
27	92	186	173	1180	219	116	94	75	29	23	245	208
28	80	193	128	1300	198	184	74	68	30	22	156	120
29	75	152	108	573	171	142	68	64	44	23	92	84
30	69	136	100	373	---	124	62	64	79	49	59	69
31	64	---	100	268	---	112	---	64	---	36	47	---
TOTAL	2553	4197	3060	5378	7744	4600	4046	3840	1381	1171	2441	1535
MEAN	82.4	140	98.7	173	267	148	135	124	46.0	37.8	78.7	51.2
MAX	265	490	173	1300	573	219	517	373	79	108	447	208
MIN	34	49	49	46	110	110	50	64	27	22	21	26
CFSM	1.45	2.47	1.74	3.05	4.71	2.61	2.38	2.19	.81	.67	1.39	.90
IN.	1.67	2.75	2.01	3.53	5.08	3.02	2.65	2.52	.91	.77	1.60	1.01

CAL YR 1975 TOTAL 46901 MEAN 128 MAX 1960 MIN 17 CFSM 2.26 IN 30.70
WTR YR 1976 TOTAL 41946 MEAN 115 MAX 1300 MIN 21 CFSM 2.03 IN 27.52

LOCATION.--Lat 41°50'35", long 74°05'11", Ulster County, Hydrologic Unit 02020007, on left bank 30 ft (9 m) upstream from bridge on James Street in Rosendale, and 3 mi (5 km) upstream from Wallkill River.

PERIOD OF RECORD.--July 1901 to November 1903, October 1905 to January 1919, August 1926, to current year. Monthly discharge only for some periods, published in WSP 1302, and WRD NY 1970.

GAGE.--Water-stage recorder. Datum of gage is 32.83 ft (10.007 m) above mean sea level. Prior to January 1919, nonrecording gage at site 150 ft (46 m) downstream at datum 38.83 ft (11.835 m) above mean sea level. Aug. 3, 1926 to Sept. 10, 1969, at present site at datum 42.83 ft (13.055 m) above mean sea level. Sept. 11, 1969 to Feb. 3, 1970, water-stage recorder, and June 9, 1970 to Jan. 18, 1971, nonrecording gage at site 0.2 mi (0.3 km) upstream at datum 44.03 ft (13.420 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation from hydroelectric plant upstream from station. Diversion from Rondout Creek through the emergency connection to the Delaware Aqueduct at Lackawack for New York City water supply during period April 1944 to May 1951. Since October 1950, flow regulated by Rondout Reservoir (see Reservoirs in Hudson River Basin). Subsequent to May 1951, entire flow except for period of spilling, diverted from Rondout Reservoir for New York City water supply. Discharge records for this station now represent the natural flow from 272 mi² (704.5 km²), together with spillage during high flow from Rondout Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft³/s (1,010 m³/s) Oct. 16, 1955, gage height, 36.8 ft (11.22 m), datum then in use, from floodmarks, from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of contracted-opening measurement at gage height 33.93 ft (10.342 m); minimum, 2.2 ft³/s (0.062 m³/s) July 16, 1965; minimum daily, 3.0 ft³/s (0.085 m³/s) July 16, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,200 ft³/s (346 m³/s) Jan. 28, gage height, 17.71 ft (5.398 m); minimum, 126 ft³/s (3.57 m³/s) Oct. 10, 11, gage height, 9.24 ft (2.816 m).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	271	280	694	640	1330	855	2970	387	280	1030	295	350
2	239	259	663	600	2860	713	2540	2720	335	478	222	280
3	211	247	544	560	1740	684	1580	1410	306	325	170	240
4	191	231	477	520	1320	691	1190	997	271	276	160	228
5	178	217	425	490	1110	1060	855	649	247	335	150	215
6	166	204	404	450	892	1220	720	535	228	267	140	202
7	154	204	391	420	780	977	636	466	311	224	170	179
8	142	340	346	400	750	846	561	425	311	231	220	164
9	132	414	344	370	691	636	516	371	255	224	400	160
10	128	371	1180	350	622	568	454	340	221	194	760	160
11	148	742	901	330	595	588	425	325	197	166	1500	186
12	335	699	649	310	568	535	392	706	184	194	773	185
13	284	3300	568	320	535	772	365	595	169	207	580	170
14	355	2330	548	500	706	1050	350	460	163	178	540	164
15	345	1480	535	600	588	811	330	431	160	165	490	161
16	293	1070	503	450	691	735	345	371	151	155	450	162
17	251	846	449	350	3340	691	355	381	169	230	410	262
18	1760	737	420	270	3240	602	330	568	172	275	400	509
19	2340	637	325	230	3440	663	302	1480	151	236	370	398
20	2310	550	315	210	3180	939	284	1210	142	178	330	313
21	1300	714	310	210	2170	929	271	829	191	161	310	279
22	864	1300	300	210	2350	920	263	788	478	152	300	255
23	663	792	300	210	2380	750	263	541	360	149	280	219
24	509	648	300	210	1600	677	243	454	491	270	270	193
25	656	593	300	210	1330	622	267	409	330	229	260	167
26	1040	540	800	1000	1140	581	636	376	271	168	250	171
27	609	980	1510	5000	1080	491	575	345	200	150	350	1030
28	485	1220	1050	8980	997	735	454	325	169	144	1000	704
29	449	805	920	3880	901	622	392	293	221	141	740	497
30	376	702	800	2190	---	541	335	284	315	229	560	349
31	325	---	699	1490	---	516	---	289	---	278	440	---
TOTAL	17529	23452	17970	31960	42926	23020	19199	19760	7449	7639	13290	8552
MEAN	565	782	580	1031	1480	743	640	637	248	246	429	285
MAX	2360	3300	1510	8980	3440	1220	2970	2720	491	1030	1500	1030
MIN	128	204	300	210	535	491	243	284	142	141	140	160

CAL	YR	1975	TOTAL	267793	MEAN	734	MAX	10100	MIN	60
WTR	YR	1976	TOTAL	232746	MEAN	636	MAX	8980	MIN	128

HUDSON RIVER BASIN

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01368000 WALLKILL RIVER NEAR UNIONVILLE, NY

LOCATION.--Lat 41°15'36", long 74°32'56", Sussex County, New Jersey, Hydrologic Unit 02020007, on right bank on downstream side of bridge on the Bassetts Bridge Road, 0.6 mi (1.0 km) upstream from small tributary, 2.0 mi (3.2 km) south of the New York-New Jersey State line, and 3.0 mi (4.8 km) south of Unionville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--140 mi² (363 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1937 to current year.

REVISED RECORDS.--WRD NY 1966: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft 119 m, from topographic map. Prior to Nov. 16, 1949, nonrecording gage at same site and datum.

REMARKS.--Records fair, except those above 600 ft³/s (17 m³/s), which are poor. Water diverted from Morris Lake, upstream from station, by the Newton Water and Sewer Authority for municipal use. After use, the water is released into Paulins Kill (Delaware River basin); records furnished by the Delaware River Basin Commission (see station 01367630 in New Jersey report).

AVERAGE DISCHARGE.--39 years, 216 ft³/s (6.117 m³/s), 20.95 in/yr (532.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,880 ft³/s (195 m³/s) Aug. 19, 1955, gage height, 13.35 ft (4.069 m); minimum daily, 4.2 ft³/s (0.12 m³/s) Aug. 8-10, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge above base of 1,200 ft³/s (34 m³/s), about 2,300 ft³/s (65 m³/s) Jan. 28; maximum gage height, 10.01 ft (3.051 m) Jan. 28, ice jam; minimum discharge, 28 ft³/s (0.793 m³/s) Sept. 15, 16, gage height, 3.06 ft (0.933 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	209	290	356	825	280	377	113	101	563	74	35
2	252	198	299	270	900	264	666	391	164	557	62	37
3	220	192	271	256	920	261	603	371	150	340	47	49
4	198	188	241	254	838	289	410	253	106	215	38	45
5	182	178	222	170	547	320	318	196	84	178	34	41
6	171	167	213	140	350	294	274	165	75	140	33	38
7	159	157	213	150	280	254	249	150	95	122	66	33
8	146	201	192	238	270	229	225	140	90	227	160	32
9	139	236	186	170	260	207	208	124	72	185	113	33
10	135	211	238	120	230	190	191	112	64	127	394	35
11	201	342	256	110	260	230	180	108	115	100	576	45
12	405	321	215	110	310	245	171	190	82	122	425	43
13	342	593	190	130	300	317	157	175	60	100	207	37
14	263	824	180	200	415	431	151	129	53	82	139	32
15	218	893	184	300	308	356	143	117	54	74	112	28
16	182	739	186	250	295	300	139	108	60	73	166	29
17	163	525	171	210	745	306	137	117	123	124	129	80
18	433	413	157	120	971	270	130	161	153	86	91	169
19	834	361	133	110	888	280	123	241	102	65	73	129
20	1080	328	100	100	757	324	119	220	108	56	63	77
21	1080	356	100	100	559	293	112	159	377	50	56	59
22	900	509	126	100	544	296	104	159	389	51	50	52
23	612	466	128	100	663	254	109	133	279	49	47	44
24	426	383	110	110	513	231	99	112	201	81	43	39
25	368	326	96	120	407	221	104	102	154	72	40	36
26	373	299	169	140	374	212	201	96	145	49	39	35
27	337	328	398	800	356	201	195	90	113	42	86	106
28	295	398	441	2100	332	212	143	83	90	41	90	176
29	265	344	347	2220	299	199	120	76	155	43	63	125
30	249	303	254	1710	---	181	108	79	424	91	49	83
31	230	---	308	1230	---	171	---	108	---	89	41	---
TOTAL	11159	10988	6614	12494	14716	8118	6266	4778	4238	4194	3606	1802
MEAN	360	366	213	403	507	262	209	154	141	135	116	60.1
MAX	1080	893	441	2220	971	431	666	391	424	563	576	176
MIN	135	157	96	100	230	171	99	76	53	41	33	28
CFSM	2.57	2.61	1.52	2.88	3.62	1.87	1.49	1.10	1.01	.96	.83	.43
IN.	2.97	2.92	1.76	3.32	3.91	2.16	1.66	1.27	1.13	1.11	.96	.48

CAL YR 1975 TOTAL 112209 MEAN 307 MAX 1600 MIN 38 CFSM 2.19 IN 29.82
WTR YR 1976 TOTAL 88973 MEAN 243 MAX 2220 MIN 28 CFSM 1.74 IN 23.64

HUDSON RIVER BASIN

01368000 WALLKILL RIVER NEAR UNIONVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL ANALYSES: Water years 1963 to current year.

SEDIMENT ANALYSES: Water year 1971.

REMARKS.--Miscellaneous storm-sediment sample collected during water year 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	FECAL STREPTOCOCCI (MPN)	DIS-SOLVED CALCIUM (CA) (MG/L)
OCT 15...	1545	207	315	6.5	11.6	20	7.8	1.3	170	220	--	32
MAY 26...	1000	98	--	--	--	--	--	--	--	--	--	--
JUN 03...	1145	148	--	7.5	16.0	--	5.8	.0	1300	--	79	--
JUL 26...	1045	49	353	8.1	20.0	--	8.8	--	50	--	79	36
AUG 12...	1330	414	244	7.6	21.0	--	6.7	2.0	9200	--	>2400	23
SEP 23...	1030	45	398	8.0	17.0	--	8.7	2.0	230	--	240	40

DATE	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL AMMONIA NITROGEN (N) (MG/L)
OCT 15...	10	11	2.3	22	18	--	--	194	24	.43	--	.00
MAY 26...	--	--	--	--	--	--	--	--	--	--	11	--
JUN 03...	--	--	--	--	--	.1	--	--	--	--	--	--
JUL 26...	11	14	1.8	25	24	--	--	205	23	--	--	--
AUG 12...	6.4	8.7	2.3	23	17	--	--	203	44	--	--	--
SEP 23...	14	19	2.3	33	29	--	8.3	230	35	--	--	--

DATE	TOTAL AMMONIA NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 15...	--	.56	.56	--	.99	.08	.02	--	--	--	--	8.7
MAY 26...	71	--	--	1600	--	--	--	310	--	--	--	--
JUN 03...	--	--	1.4	--	--	.19	--	--	.00	1	.00	--
JUL 26...	--	--	1.4	--	--	--	--	--	--	--	--	5.8
AUG 12...	--	--	1.7	--	--	--	--	--	--	--	--	12
SEP 23...	--	--	1.3	1700	--	--	--	--	--	--	--	6.7

HUDSON RIVER BASIN

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01368000 WALLKILL RIVER NEAR UNIONVILLE, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL BORON (B) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)
MAY 26...	--	--	--	8	--	--	--	0	--	8	--	10
JUN 03...	360	--	0	--	40	--	0	--	0	--	0	--
SEP 23...	210	20	1	10	--	50	0	0	0	20	2	10

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
MAY 26...	--	18	--	15000	57	--	420	--	--	32	--	78
JUN 03...	90	--	1000	--	--	150	--	<.5	8	--	100	--
SEP 23...	50	20	700	13000	20	140	40	<.5	27	30	30	290

DATE	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)
MAY 26...	24	38	.0	0	.0	.0	.0	.6	.0	.0	.0	.0
SEP 23...	25	6	.0	0	1.6	.8	.0	.0	.0	.0	.0	.0

HUDSON RIVER BASIN

01369000 POCHUCK CREEK NEAR PINE ISLAND, NY

LOCATION.--Lat 41°16'32", long 74°28'18", Orange County, Hydrologic Unit 02020007, on right bank 75 ft (23 m) downstream from bridge on Newport Bridge Road at Newport, 1.5 mi (2.4 km) south of Pine Island, 3.2 mi (5.1 km) west of Edenville, and 4.1 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--98.0 mi² (254 km²).

PERIOD OF RECORD.--September 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 382.39 ft (116.552 m) above mean sea level (levels by Corps of Engineers). Modified concrete control from July 1944 to April 1960.

REMARKS.--Records fair except those for winter periods and discharges above 500 ft³/s (14.2 m³/s), which are poor.

AVERAGE DISCHARGE.--39 years, 165 ft³/s (4.673 m³/s), 22.86 in/yr (580.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,090 ft³/s (87.5 m³/s) Oct. 16, 1955, gage height, 8.62 ft (2.627 m); minimum, 1.1 ft³/s (0.031 m³/s) Aug. 30, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge above base of 840 ft³/s (24 m³/s), 1,330 ft³/s (37.7 m³/s) Jan. 29, gage height, 6.08 ft (1.853 in); minimum, 21 ft³/s (0.59 m³/s) Sept. 14; minimum gage height 1.52 ft (0.463 m) July 29, Aug. 7, 8, Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	503	216	253	260	564	239	195	94	63	239	51	40
2	407	193	244	244	590	222	265	195	100	262	47	46
3	338	177	225	222	525	216	284	205	100	253	38	40
4	280	161	204	210	474	219	275	195	85	216	32	36
5	231	149	185	200	431	224	250	170	72	170	28	41
6	196	140	174	170	331	216	222	146	67	130	25	59
7	166	132	166	159	284	203	195	132	85	112	43	55
8	145	140	152	204	244	190	177	118	75	175	67	52
9	130	149	145	204	230	172	162	106	63	136	61	49
10	123	147	187	154	203	167	148	94	58	114	242	41
11	142	177	201	127	210	177	140	87	58	94	352	38
12	187	185	187	129	220	180	132	118	49	167	387	35
13	174	291	169	129	210	205	124	112	43	130	356	28
14	166	411	157	260	220	250	118	96	38	98	291	22
15	152	491	149	345	210	253	110	88	37	79	219	31
16	134	478	147	349	227	242	106	82	35	70	207	121
17	119	431	138	220	341	244	102	81	70	75	161	152
18	222	383	129	130	380	236	96	100	76	61	116	119
19	391	338	132	120	400	230	90	142	64	52	94	99
20	608	302	102	116	390	236	85	146	66	46	77	82
21	666	284	99	110	380	227	81	130	160	40	68	68
22	611	316	102	110	360	227	78	118	160	38	59	58
23	532	334	106	102	370	219	79	98	150	35	52	50
24	456	316	95	100	350	203	75	82	132	43	46	44
25	395	291	87	100	330	190	78	75	110	40	41	39
26	379	267	117	117	324	180	138	70	90	34	38	35
27	371	260	210	448	297	167	134	64	72	29	112	55
28	338	280	244	1110	278	167	118	60	58	26	114	82
29	302	284	253	1230	256	160	106	56	85	26	80	69
30	270	267	237	1060	---	146	92	56	160	38	52	60
31	244	---	247	778	---	140	---	60	---	38	43	---
TOTAL	9378	7990	5243	9217	9629	6347	4255	3376	2481	3066	3599	1746
MEAN	303	266	169	297	332	205	142	109	82.7	98.9	116	58.2
MAX	666	491	253	1230	590	253	284	205	160	262	387	152
MIN	119	132	87	100	203	140	75	56	35	26	25	22
CFSM	3.09	2.71	1.72	3.03	3.39	2.09	1.45	1.11	.84	1.01	1.18	.59
IN.	3.56	3.03	1.99	3.50	3.66	2.41	1.62	1.28	.94	1.16	1.37	.66

CAL YR 1975 TOTAL 81331 MEAN 223 MAX 1030 MIN 18 CFSM 2.28 IN 30.87
WTR YR 1976 TOTAL 66327 MEAN 181 MAX 1230 MIN 22 CFSM 1.85 IN 25.18

01369500 QUAKER CREEK AT FLORIDA, NY

LOCATION.--Lat 41°20'21", long 74°21'45", Orange County, Hydrologic Unit 02020007, on right bank at downstream side of private bridge, just downstream from Browns Creek, at Florida, and 5.0 mi (8.0 km) southwest of Goshen.

DRAINAGE AREA.--9.74 mi² (25.2 km²).

PERIOD OF RECORD.--September 1937 to current year.

REVISED RECORDS.--WSP 951: 1938(M).

GAGE.--Water-stage recorder. Concrete control since August 1943. Datum of gage is 393.32 ft (119.884 m) above mean sea level (levels by Soil Conservation Service). Prior to Dec. 12, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Minor amount of diversion upstream during low-flow periods for irrigation purposes. Some diversion from Glenmore Lake for village of Florida water supply.

AVERAGE DISCHARGE.--39 years, 12.8 ft³/s (0.362 m³/s), 17.85 in/yr (453.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft³/s (29.7 m³/s) Sept. 21, 1938, gage height, 6.0 ft (1.83 m), from floodmarks, from rating curve extended above 230 ft³/s (6.51 m³/s) on basis of contracted-opening measurement at gage height 5.8 ft (1.77 m); minimum, no flow Aug. 30, 1966 (result of temporary pumping from gage pool).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	--	ice jam	*3.52 1.073	July 31	2345	212 6.00	3.15 0.960
Jan. 27	2100	*281 7.96	3.45 1.052	Aug. 10	0615	257 7.28	3.35 1.021
Feb. 2	0400	214 6.06	3.16 0.963				

Minimum discharge, 0.88 ft³/s (0.025 m³/s) June 10, gage height, 1.38 ft (0.421 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	13	20	19	36	15	41	6.5	3.0	26	64	2.5
2	20	12	16	14	86	13	20	11	4.2	8.6	15	3.0
3	16	11	14	15	32	16	16	5.8	2.5	7.7	8.6	3.5
4	14	10	13	12	23	21	14	4.8	1.6	18	6.5	2.8
5	13	9.4	12	10	20	18	12	4.0	1.3	9.4	5.4	2.3
6	12	8.1	12	8.6	18	14	11	3.5	1.7	6.5	8.1	1.9
7	10	7.7	11	8.8	16	12	9.9	3.2	2.3	14	31	1.7
8	9.4	11	9.0	11	14	11	9.0	2.5	1.4	18	19	1.6
9	8.1	9.0	10	10	13	9.4	7.7	2.1	1.2	9.0	21	1.6
10	8.1	14	21	8.6	11	12	6.9	1.9	6.9	6.1	195	1.6
11	20	14	13	8.0	26	15	6.5	2.1	5.8	5.8	88	1.6
12	18	32	10	8.0	18	12	5.4	6.9	2.3	11	46	1.4
13	11	81	9.9	8.0	21	29	5.1	3.2	1.4	5.1	22	1.6
14	12	53	9.9	45	18	17	4.8	2.5	1.3	4.2	16	1.4
15	9.4	34	9.9	19	13	14	4.5	2.3	2.5	3.5	14	1.4
16	8.6	27	9.4	15	31	14	4.2	1.9	2.3	5.4	20	1.7
17	9.4	23	8.1	11	89	18	4.0	2.3	9.4	5.8	11	6.5
18	118	20	7.3	8.8	42	15	3.7	5.4	4.2	3.2	8.6	5.1
19	118	18	5.4	8.0	51	24	3.5	10	3.0	2.5	6.9	2.8
20	72	17	4.8	8.1	42	19	3.2	4.8	11	1.9	6.1	1.9
21	48	39	5.2	8.6	29	20	2.8	4.2	20	1.7	6.1	1.9
22	36	29	6.0	9.0	56	17	2.8	3.7	9.0	1.7	3.7	1.6
23	29	21	6.2	8.6	31	14	3.0	2.8	6.1	2.3	3.5	1.4
24	24	18	5.4	8.1	25	13	2.3	2.1	5.1	4.8	3.2	1.3
25	35	17	4.5	7.3	23	12	4.5	1.7	4.2	1.9	2.8	1.3
26	29	17	17	10	22	11	14	1.7	4.0	1.4	4.2	2.3
27	23	34	26	170	21	10	5.8	1.6	2.8	1.3	28	6.9
28	20	23	16	140	18	11	4.5	1.3	2.8	1.3	17	7.7
29	18	18	12	47	16	9.0	3.7	1.2	13	1.9	5.8	3.2
30	17	18	12	33	---	8.1	3.2	1.4	28	4.8	4.0	2.5
31	14	---	21	26	---	7.7	---	1.6	---	23	3.0	---
TOTAL	824.0	658.2	357.0	723.5	861	451.2	239.0	110.0	164.3	217.8	693.5	78.0
MEAN	26.6	21.9	11.5	23.3	29.7	14.6	7.97	3.55	5.48	7.03	22.4	2.60
MAX	118	81	26	170	89	29	41	11	28	26	195	7.7
MIN	8.1	7.7	4.5	7.3	11	7.7	2.3	1.2	1.2	1.3	2.8	1.3
CFSM	2.73	2.25	1.18	2.39	3.05	1.50	.82	.36	.56	.72	2.30	.27
IN.	3.15	2.51	1.36	2.76	3.29	1.72	.91	.42	.63	.83	2.65	.30

CAL YR 1975 TOTAL 6688.52 MEAN 18.3 MAX 221 MIN .88 CFSM 1.88 IN 25.54
WTR YR 1976 TOTAL 5377.50 MEAN 14.7 MAX 195 MIN 1.2 CFSM 1.51 IN 20.54

HUDSON RIVER BASIN

01371500 WALLKILL RIVER AT GARDINER, NY

LOCATION.--Lat 41°41'10", long 74°09'56", Ulster County, Hydrologic Unit 02020007, on left bank 400 ft (122 m) upstream from bridge on U.S. Highway 44, 500 ft (152 m) downstream from Shawangunk Kill, and 0.7 mi (1.1 km) northwest of Gardiner.

DRAINAGE AREA.--711 mi² (1,841 km²).

PERIOD OF RECORD.--September 1924 to current year.

REVISED RECORDS.--WSP 756: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 185.70 ft (56.601 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--52 years, 1,047 ft³/s (29.65 m³/s), 19.99 in/yr (507.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,800 ft³/s (872 m³/s) Oct. 16, 1955, gage height, 19.81 ft (6.038 m); minimum, 9.5 ft³/s (0.27 m³/s) Sept. 28, 1964; minimum gage height, 1.59 ft (0.48 m) Aug. 14, 15, 16, 19, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,400 ft³/s (181 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	2000	6,760 191	8.49 2.588	Apr. 1	1600	6,730 191	8.47 2.582
Jan. 28	--	*9,500 269	*15.52 4.730				

† Ice jam.

Minimum discharge, 154 ft³/s (4.36 m³/s), Sept. 16, gage height, 2.41 ft (0.735 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FFB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1750	888	1330	1100	4000	1290	4300	612	360	2360	507	274
2	1280	813	1280	900	6000	1200	4240	3010	404	2070	564	257
3	1060	770	1170	900	5000	1170	2960	2120	497	1420	331	261
4	895	743	1040	900	4000	1340	2160	1430	459	1130	249	261
5	785	695	911	800	3500	2150	1620	1020	380	999	209	246
6	715	650	850	700	3000	1930	1320	813	331	709	185	223
7	644	612	850	640	2500	1440	1130	702	360	530	465	202
8	576	813	777	620	2300	1180	999	631	409	553	990	195
9	524	966	722	700	2200	1020	888	558	360	729	743	198
10	496	974	1260	640	2000	919	813	507	295	588	3860	202
11	553	1780	1400	600	1900	1040	749	470	291	454	3720	212
12	1220	1960	1100	660	1800	1120	695	637	345	439	2430	205
13	1220	5820	911	640	1700	1420	650	799	291	631	1510	188
14	1060	5210	835	720	1600	2250	618	643	238	465	999	179
15	880	4080	813	700	1500	1740	588	535	219	375	763	163
16	736	3230	792	660	2500	1410	570	480	219	331	637	157
17	625	2590	743	600	7000	1200	558	459	238	404	631	209
18	2720	2000	676	560	5000	1100	541	535	340	444	507	564
19	5450	1640	520	560	4000	1300	507	1220	370	336	409	637
20	5450	1440	350	540	3500	2040	475	1110	308	269	350	502
21	4140	1570	440	520	3000	1740	449	895	582	238	308	390
22	3430	2620	420	500	3000	1590	434	850	1220	212	282	322
23	2810	2050	400	500	2800	1300	424	650	1070	209	257	274
24	2110	1670	380	500	2500	1110	414	535	895	395	234	234
25	1760	1420	400	500	2260	1020	434	459	631	419	216	205
26	2050	1260	2000	700	1970	934	857	429	497	308	198	216
27	1660	1740	2500	5000	1800	880	1020	400	419	234	1200	729
28	1410	2370	1500	9000	1640	982	777	370	350	198	1130	749
29	1230	1770	1200	8000	1430	926	612	336	395	185	663	656
30	1100	1450	1000	7000	---	828	524	326	911	234	439	491
31	982	---	1400	5000	---	756	---	331	---	326	331	---
TOTAL	51321	55594	29970	51360	85400	40325	32326	23872	13684	18194	25317	9601
MEAN	1656	1853	967	1657	2945	1301	1078	770	456	587	817	320
MAX	5450	5820	2500	9000	7000	2250	4300	3010	1220	2360	3860	749
MIN	496	612	350	500	1430	756	414	326	219	185	185	157
CFSM	2.33	2.61	1.36	2.33	4.14	1.83	1.52	1.08	.64	.83	1.15	.45
IN.	2.69	2.91	1.57	2.69	4.47	2.11	1.69	1.25	.72	.95	1.32	.50

CAL YR 1975	TOTAL	525069	MEAN	1439	MAX	11300	MIN	182	CFSM	2.02	IN	27.47
WTR YR 1976	TOTAL	436964	MEAN	1194	MAX	9000	MIN	157	CFSM	1.68	IN	22.86

HUDSON RIVER BASIN

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01372035 HUDSON RIVER AT STAATSBURG, NY

LOCATION.--Lat 41°50'06", long 73°56'34", Dutchess County, Hydrologic Unit 02020008, on east side of main pier at Norrie Yacht Basin, in Norrie State Park, at mouth of Indian Kill, 1.1 mi (1.8 km) southwest of Staatsburg, and 3.5 mi (5.6 km) north of Hyde Park.

DRAINAGE AREA.--11,629 mi² (30,119 km²).

PERIOD OF RECORD.--July 1972 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level. Gage-height record converted to elevation above or below (-) mean sea level for publication.

Summaries of tide elevations during year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	5.11	4.39	4.09(a)	--	--	4.35(a)	4.22	4.49	3.78	3.93	3.67	3.42(a)
high tide	Date	20	21	01(a)	--	--	17(a)	02	02	13	01	27	03,04(a)
Minimum	Elevation	-1.50	-1.47	-2.05(a)	--	--	-2.99(a)	-2.72	-1.74	-1.74	-1.28	-1.28	-1.24(a)
low tide	Date	07	15	19(a)	--	--	17(a)	12	08	12	09	03	02(a)
Mean high tide		3.13	3.02	--	--	--	--	2.75	2.84	2.80	2.91	2.87	--
Mean water level		1.40	1.28	--	--	--	--	1.03	1.06	1.01	1.14	1.25	--
Mean low tide		-0.40	-0.55	--	--	--	--	-0.76	-0.76	-0.87	-0.74	-0.73	--

a Recorded.

NOTE: No elevation recorded Dec. 20 to Mar. 5, Sept. 5-30.

HUDSON RIVER BASIN

01372046 HUDSON RIVER AT HIGHLAND, NY

LOCATION.--Lat 41°42'56", long 73°56'55", Ulster County, Hydrologic Unit 02020008, on right bank at Highland, 300 ft (91 m) downstream from unnamed tributary, and 0.8 mi (1.3 km) upstream from Mid-Hudson Bridge on U.S. Highway 44.

DRAINAGE AREA.--11,712 mi² (30,334 km²).

PERIOD OF RECORD.--July 1974 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft (3.048 m) below mean sea level (levels by Corps of Engineers). Gage-height record converted to elevation above or below (-) mean sea level for publication.

Summaries of tide elevations during year are as follows:

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum	Elevation	4.80	4.13	3.68	--	--	4.11	4.03	4.18	3.42	3.34	3.41(a)	3.74
high tide	Date	20	21	09	--	--	17	01	02	13	12	11(a)	27
Minimum	Elevation	-1.41	-1.44	-2.77	--	--	-2.89	-2.58	-1.68	-1.62	-1.48	-1.15(a)	-1.23
low tide	Date	07	29	20	--	--	17	12	08	07	09	01(a)	24
Mean high tide		2.87	2.73	2.04	--	--	2.42	2.44	2.51	2.28	2.51	--	2.69
Mean water level		1.33	1.18	0.50	--	--	0.88	0.94	0.92	0.74	0.91	--	1.14
Mean low tide		-0.30	-0.43	-1.08	--	--	-0.72	-0.64	-0.71	-0.87	-0.79	--	-0.57

a Recorded.

NOTE: No elevations recorded Dec. 29 to Mar. 5, June 18, Aug. 12 to Sept. 9.

01372065 CASPER CREEK NEAR WAPPINGERS FALLS, NY

LOCATION.--Lat 41°37'53", long 73°55'40", Dutchess County, Hydrologic Unit 02020008, on left bank 40 ft (12 m) downstream from bridge on Camelot Road, 1.6 mi (2.6 km) upstream from mouth, and 2.4 mi (3.9 km) north of Wappingers Falls.

DRAINAGE AREA.--10.1 mi² (26.2 km²).

PERIOD OF RECORD.--Occasional discharge measurements, water years 1960-62. January 1969 to December 1975 (discontinued).

REVISED RECORDS.--WRD NY 1971: 1970(M,P). WRD NY 1972: 1971(P).

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map.

REMARKS.--Records fair. Occasional regulation by lakes and irrigation pumping above station.

AVERAGE DISCHARGE.--6 years (1970-75), 18.2 ft³/s (0.515 m³/s), 24.47 in/yr (621.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 946 ft³/s (26.8 m³/s) Aug. 28, 1971, gage height, 5.79 ft (1.765 m), from rating curve extended above 410 ft³/s (11.6 m³/s); minimum, 0.9 ft³/s (0.025 m³/s) Sept. 27, 1969, gage height, 1.80 ft (0.549 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 120 ft³/s (3.40 m³/s) and maximum during October to December 1975 (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	1115	*225 6.37	*4.34 1.323	Nov. 13	0645	159 4.50	4.02 1.225

Minimum daily discharge October to December 1975, 8.6 ft³/s (0.244 m³/s) Dec. 21-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	16	20									
2	18	15	18									
3	19	15	16									
4	18	15	14									
5	14	14	13									
6	13	15	13									
7	13	15	13									
8	13	24	12									
9	12	16	12									
10	11	26	21									
11	23	34	16									
12	21	36	14									
13	16	126	13									
14	25	64	13									
15	15	43	12									
16	13	33	12									
17	13	27	11									
18	142	25	10									
19	91	23	9.6									
20	82	21	8.8									
21	49	37	8.6									
22	38	41	8.6									
23	30	27	8.6									
24	27	23	8.8									
25	28	20	9.2									
26	26	18	15									
27	22	29	22									
28	20	26	15									
29	19	21	13									
30	18	18	13									
31	17	---	24									
TOTAL	887	863	417.2									
MEAN	28.6	28.8	13.5									
MAX	142	126	24									
MIN	11	14	8.6									
CFSM	2.83	2.85	1.34									
IN.	3.27	3.18	1.54									

CAL YR 1975 TOTAL 8042.4 MEAN 22.0 MAX 309 MIN 3.7 CFSM 2.18 IN 29.62

HUDSON RIVER BASIN

01372200 WAPPINGER CREEK NEAR CLINTON CORNERS, NY

LOCATION.--Lat 41°48'53", long 73°45'48", Dutchess County, Hydrologic Unit 02020008, on left bank 15 ft (5 m) downstream from bridge on County Highway 13, 850 ft (259 m) downstream from abandoned railroad bridge abutment, 1,900 ft (579 m) downstream from East Branch Wappinger Creek, and 1 mi (2 km) south of Clinton Corners.

DRAINAGE AREA.--92.4 mi² (239 km²).

PERIOD OF RECORD.--January 1956 to December 1975 (discontinued). Monthly discharge only for some periods, published in WSP 1722.

REVISED RECORDS.--WSP 1902: Drainage area. WRD NY 1975: 1974.

GAGE.--Water-stage recorder. Datum of gage is 234.10 ft (71.354 m) above mean sea level. Prior to Sept. 9, 1957, nonrecording gage and crest-stage gage at upstream side of bridge at same datum. Sept. 9, 1957 to Oct. 24, 1968, water stage recorder at site 15 ft (5 m) upstream on bridge abutment on right bank at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--19 years (1957-75), 124 ft³/s (3.512 m³/s), 18.22 in/yr (462.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,510 ft³/s (241 m³/s) June 30, 1973, gage height, 16.13 ft (4.916 m); minimum, 2.0 ft³/s (0.057 m³/s) Aug. 2, 1965; minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 17, 1964, July 31; Aug. 1, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (26 m³/s) and maximum (*) for water year:

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 20	0215	*1,120 31.7	*8.44 2.573	Aug. 10	1345	1,010 28.6	8.12 2.475

Minimum daily discharge October to December 1975, 82 ft³/s (2.32 m³/s) Dec. 24; minimum gage height, 4.91 ft (1.497 m) Dec. 24.

DISCHARGE. IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	164	240									
2	205	154	234									
3	178	146	212									
4	161	139	191									
5	148	131	174									
6	138	124	175									
7	127	119	180									
8	118	170	150									
9	112	155	150									
10	107	153	219									
11	132	187	199									
12	163	181	167									
13	136	546	153									
14	172	499	148									
15	138	425	145									
16	120	350	140									
17	111	301	128									
18	552	268	123									
19	671	248	101									
20	927	231	88									
21	598	325	86									
22	465	434	84									
23	378	325	84									
24	322	287	82									
25	297	262	94									
26	286	241	179									
27	249	281	261									
28	226	274	216									
29	209	234	190									
30	192	216	175									
31	175	---	232									
TOTAL	8048	7570	5000									
MEAN	260	252	161									
MAX	927	546	261									
MIN	107	119	82									
CFSM	2.81	2.73	1.74									
IN.	3.24	3.05	2.01									

CAL YR 1975 TOTAL 77831 MEAN 213 MAX 2410 MIN 30 CFSM 2.31 IN 31.33

HUDSON RIVER BASIN

155

01372300 LITTLE WAPPINGER CREEK AT SALT POINT, NY

LOCATION.--Lat 41°48'20", long 73°47'38", Dutchess County, Hydrologic Unit 02020008, on right bank 200 ft (61 m) downstream from abandoned railroad bridge abutment at Salt Point, and 0.6 mi (1.0 km) upstream from Wappinger Creek.

DRAINAGE AREA.--32.9 mi² (85.2 km²).

PERIOD OF RECORD.--January 1956 to December 1975 (discontinued).

REVISED RECORDS.--WSP 1902: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 235 ft (72 m), from topographic map. Prior to June 19, 1958, non-recording gage and crest-stage gage at site 400 ft (122 m) upstream at datum 1.73 ft (0.527 m) higher.

REMARKS.--Records poor. Occasional regulation by small ponds above station.

AVERAGE DISCHARGE.--19 years (1957-75), 44.4 ft³/s (1.257 m³/s), 18.33 in/yr (465.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,590 ft³/s (45.0 m³/s) July 21, 1975, gage height, 7.65 ft (2.332 m); minimum, 0.04 ft³/s (0.001 m³/s) Sept. 13, 14, 16, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge October to December 1975, 415 ft³/s (11.8 m³/s) Oct. 20, gage height, 4.94 ft (1.506 m); minimum daily, 23 ft³/s (0.651 m³/s) Dec. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	55	82									
2	64	52	74									
3	54	49	68									
4	47	47	68									
5	43	44	72									
6	36	41	68									
7	32	39	58									
8	29	59	56									
9	26	61	72									
10	25	55	84									
11	33	65	68									
12	53	67	59									
13	43	168	53									
14	51	198	51									
15	44	163	47									
16	37	140	47									
17	33	119	42									
18	133	104	40									
19	213	94	32									
20	392	84	26									
21	293	108	24									
22	192	140	24									
23	146	118	23									
24	121	98	24									
25	107	88	25									
26	105	82	46									
27	91	86	90									
28	80	84	89									
29	72	100	80									
30	67	91	58									
31	60	---	68									
TOTAL	2797	2699	1718									
MEAN	90.2	90.0	55.4									
MAX	392	198	90									
MIN	25	39	23									
CFSM	2.74	2.74	1.68									
IN.	3.16	3.05	1.94									

CAL YR 1975 TOTAL 29896.3 MEAN 81.9 MAX 1260 MIN 4.6 CFSM 2.49 IN 33.80

HUDSON RIVER BASIN

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, NY

LOCATION.--Lat 41°39'11", long 73°52'23", Dutchess County, Hydrologic Unit 02020008, on left bank 700 ft (213 m) downstream from Red Oak Mill dam, and 4.5 mi (7.2 km) northeast of village of Wappingers Falls.

DRAINAGE AREA.--181 mi² (469 km²).

PERIOD OF RECORD.--May 1903 to June 1905 (gage heights only during some winter months), August 1928 to current year.

REVISED RECORDS.--WSP 741: 1932. WSP 1902: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 114.37 ft (34.860 m) above mean sea level (levels by Corps of Engineers). May 1903 to June 1905 staff gage at site 2.5 mi (4.0 km) downstream at different datum. Aug. 7, 1928 to Sept. 25, 1931, water-stage recorder at site 2 mi (3 km) downstream at different datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--48 years (1929-76), 251 ft³/s (7.108 m³/s), 18.83 in/yr (478.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft³/s (527 m³/s) Aug. 19, 1955, gage height, 19.60 ft (5.974 m), from floodmarks in gage shelter, from rating curve extended above 3,800 ft³/s (108 m³/s) on basis of flow-over-dam and contracted-opening measurement at gage height 18.02 ft (5.492 m) and contracted-opening and flow-over-road measurement at gage height 19.60 ft (5.974 m); minimum, 0.90 ft³/s (0.025 m³/s) Sept. 20, 21, 1964, gage height, 2.05 ft (0.625 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 20	1000	2,040 57.7	6.63 2.021	Aug. 10	1930	1,540 43.6	5.94 1.811
Jan. 28	1530	*3,530 100	*8.38 2.554				

Minimum discharge, 42 ft³/s (1.19 m³/s) July 23, gage height, 2.74 ft (0.835 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	465	293	425	390	786	429	657	271	177	230	116	98
2	399	275	452	330	1710	395	1230	676	249	160	136	116
3	346	258	399	320	1330	387	887	553	243	113	93	136
4	309	246	358	320	1110	387	703	475	191	100	72	114
5	281	229	323	260	866	491	570	395	167	90	59	104
6	258	214	316	250	710	447	486	346	152	75	53	93
7	236	203	323	250	541	382	438	320	175	104	71	81
8	216	263	284	240	541	342	395	346	157	177	120	77
9	202	299	268	240	465	309	358	295	138	122	98	71
10	191	271	346	230	412	302	327	265	122	95	853	128
11	216	366	378	230	416	327	309	243	111	78	956	519
12	305	335	312	230	438	320	288	339	102	69	507	298
13	268	1050	281	240	408	382	268	312	91	64	339	210
14	305	1130	268	456	470	452	252	261	86	62	295	170
15	278	1000	261	486	403	378	236	239	85	59	370	143
16	236	797	252	378	443	346	295	213	81	58	443	130
17	210	664	233	342	1130	339	320	204	109	71	323	143
18	833	577	222	320	1190	312	265	210	114	68	249	167
19	1340	486	200	300	1360	346	236	447	95	57	204	143
20	1880	443	160	270	1300	461	216	535	85	51	177	124
21	1510	497	140	240	1030	434	199	447	80	49	160	120
22	1060	873	140	230	1050	465	188	456	77	48	143	111
23	836	657	140	240	1040	399	188	366	100	46	128	98
24	685	553	140	260	773	370	177	312	90	111	116	91
25	602	491	140	310	696	350	202	281	78	102	105	85
26	580	447	200	380	631	327	416	261	74	69	100	85
27	495	497	420	1000	576	312	387	274	65	57	252	167
28	434	576	400	3030	513	339	331	243	59	51	243	175
29	393	470	360	2100	456	312	291	213	86	48	172	138
30	354	425	330	1420	---	284	261	196	98	57	132	118
31	316	---	410	949	---	265	---	191	---	62	109	---
TOTAL	16039	14885	8881	16241	22794	11381	11376	10185	3537	2603	7194	4253
MEAN	517	496	286	524	786	367	379	329	118	84.0	232	142
MAX	1880	1130	452	3030	1710	481	1230	676	249	230	956	519
MIN	191	203	140	230	403	265	177	191	59	46	53	71
CFSM	2.86	2.74	1.58	2.90	4.34	2.03	2.09	1.82	.65	.46	1.28	.78
IN.	3.30	3.06	1.83	3.34	4.68	2.34	2.34	2.09	.73	.53	1.48	.87

CAL YR 1975 TOTAL 154323 MEAN 423 MAX 3840 MIN 52 CFSM 2.34 IN 31.72
WTR YR 1976 TOTAL 129369 MEAN 353 MAX 3030 MIN 46 CFSM 1.95 IN 26.59

HUDSON RIVER BASIN

157

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, NY

LOCATION.--Lat 41°34'22", long 73°48'25", Dutchess County, Hydrologic Unit 02020008, on right bank 400 ft (122 m) upstream from bridge on State Highway 376, 500 ft (152 m) upstream from small tributary, 0.6 mi (1.0 km) south of State Highway 82, at Hopewell Junction. Water-quality sampling site at discharge station.

DRAINAGE AREA.--57.3 mi² (148 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1956-57. October 1957 to December 1975 (discontinued). Prior to March 1963, no winter records.

REVISED RECORDS.--WSP 1902: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 229.53 ft (69.961 m) above mean sea level. Prior to October 1963, water-stage recorder at site 400 ft (122 m) downstream at datum 0.17 ft (0.052 m) lower.

REMARKS.--Records poor. Occasional regulation during low flow from unknown source.

AVERAGE DISCHARGE.--12 years (1964-75), 86.9 ft³/s (2.461 m³/s), 20.60 in/yr (523.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,770 ft³/s (78.4 m³/s) Dec. 21, 1973, gage height, 9.19 ft (2.801 m), from rating curve extended above 1,100 ft³/s (31.2 m³/s); minimum, 0.92 ft³/s (0.026 m³/s) Sept. 2, 3, 1966, gage height, 0.75 ft (0.229 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge above base of 400 ft³/s (11.3 m³/s) October to December 1975, 496 ft³/s (14.0 m³/s) Oct. 20, gage height, 5.76 ft (1.756 m); minimum daily, 64 ft³/s (1.81 m³/s) Dec. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	261	102	167									
2	219	98	165									
3	187	95	147									
4	163	91	129									
5	145	87	116									
6	133	81	113									
7	120	78	112									
8	109	92	99									
9	103	98	97									
10	98	90	145									
11	109	129	152									
12	175	105	116									
13	143	254	105									
14	160	306	101									
15	142	257	98									
16	121	203	95									
17	108	172	89									
18	230	150	87									
19	371	139	74									
20	462	129	70									
21	373	150	68									
22	295	309	66									
23	248	235	64									
24	214	197	64									
25	196	178	70									
26	194	168	113									
27	165	203	241									
28	145	241	171									
29	133	191	134									
30	120	170	116									
31	108	---	162									
TOTAL	5750	4798	3546									
MEAN	185	160	114									
MAX	462	309	241									
MIN	98	78	64									
CFSM	3.23	2.79	1.99									
IN.	3.73	3.11	2.30									
CAL YR 1975	TOTAL	46098	MEAN 126	MAX	929	MIN	17	CFSM 2.20	IN 29.93			

HUDSON RIVER BASIN

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to December 1975 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1963 to December 1975.

INSTRUMENTATION.--Temperature recorder since October 1963.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 27.0°C July 13, 1966; minimum, freezing point on many days during all winter periods.

TEMPERATURE (DEG. C) OF WATER, OCTOBER TO DECEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	14.0	7.0	6.5	7.0	6.0
2	14.5	14.0	9.0	7.0	6.0	4.5
3	14.0	12.0	10.5	9.0	4.5	4.0
4	12.0	11.5	11.5	10.5	4.0	3.5
5	12.5	12.0	11.5	11.0	3.5	2.5
6	13.5	11.5	11.0	10.0	4.5	2.5
7	13.5	12.5	10.5	10.0	4.5	2.5
8	13.5	11.5	12.5	10.5	2.5	1.0
9	12.0	11.5	12.5	12.0	2.5	1.0
10	12.5	11.5	13.5	12.0	4.5	2.5
11	12.5	12.5	13.5	11.0	4.0	3.5
12	12.5	12.0	11.0	9.0	3.5	2.5
13	12.5	12.0	9.5	9.0	3.5	2.5
14	14.0	12.5	9.5	8.5	4.5	3.5
15	14.5	14.0	8.5	6.5	4.5	4.5
16	15.0	14.5	6.5	6.0	4.5	4.0
17	14.5	12.5	6.5	6.5	4.0	2.5
18	12.5	12.5	7.5	6.5	2.5	1.5
19	12.5	12.0	7.5	7.5	1.5	0.5
20	12.0	12.0	7.5	7.5	0.5	0.5
21	12.0	11.0	9.5	7.5	0.5	0.5
22	12.0	11.0	9.5	7.0	0.5	0.5
23	12.0	11.5	7.0	5.5	0.5	0.0
24	12.5	12.0	5.5	5.5	0.5	0.5
25	14.0	12.5	5.5	5.5	0.5	0.5
26	14.0	12.0	5.5	5.5	0.5	0.5
27	12.0	11.0	6.5	5.5	0.5	0.5
28	11.0	10.0	6.5	6.0	1.5	0.5
29	11.0	11.0	6.0	5.0	1.5	1.5
30	11.0	9.0	6.5	5.0	1.5	1.5
31	9.0	7.0	---	---	2.0	1.5
MONTH	15.0	7.0	13.5	5.0	7.0	0.0

HUDSON RIVER BASIN

159

01374010 HUDSON RIVER AT WEST POINT, NY

LOCATION.--Lat 41°23'51", long 73°57'23", Orange County, Hydrologic Unit 02020008, on right bank in boathouse No. 615 on North Dock, U.S. Military Academy, West Point.

PERIOD OF RECORD.--February 19 to December 15, 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 9.90 ft (3.018 m) below mean sea level (levels by Corps of Engineers). Gage-height record converted to elevation above or below (-) mean sea level for publication.

Summaries of tide elevations during period are as follows:

TIDE ELEVATIONS, IN FEET, FEBRUARY TO DECEMBER 1975												
		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Maximum	Elevation	4.74(a)	4.01	3.56(a)	--	--	3.41	3.41	3.69	4.52	3.91	3.77(a)
high tide	Date	25(a)	20	17(a)	--	--	10	31	25	20	25	01(a)
Minimum	Elevation	-1.62(a)	-2.55	-2.82(a)	--	--	-1.23	-1.22	-1.44	-1.29	-1.41	-1.72(a)
low tide	Date	23(a)	09	04(a)	--	--	18	23	03	04	15	04(a)
Mean high tide		--	2.26	--	--	--	2.51	2.50	2.54	2.80	2.65	--
Mean water level		--	0.73	--	--	--	1.04	1.03	1.06	1.29	1.14	--
Mean low tide		--	-0.80	--	--	--	-0.48	-0.53	-0.46	-0.27	-0.39	--

a Recorded.

NOTE: No elevations recorded Apr. 17 to July 2.

HUDSON RIVER BASIN

01375000 CROTON RIVER AT NEW CROTON DAM, NEAR CROTON-ON-HUDSON, NY

LOCATION.--Lat 41°13'32", long 73°51'32", Westchester County, Hydrologic Unit 02030101, on left bank 1,000 ft (305 m) downstream from New Croton Dam, and 1.8 mi (2.9 km) northeast of Croton-On-Hudson.

DRAINAGE AREA.--378 mi² (979 km²).

PERIOD OF RECORD.--August 1933 to current year. Prior to Oct. 1, 1941, published as "at Quaker Bridge," (low-flow records at this site are not equivalent owing to well pumpage upstream). Fragmentary records published during August 1933 to September 1941 at "Cornell Dam near Croton" and "at New Croton near Croton" are equivalent. Oct. 1, 1941 to Sept. 30, 1955 published as "at New Croton Dam near Croton".

REVISED RECORDS.--WRD NY 1969: 1968(M).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 50 ft (15 m), from topographic map. Prior to Oct. 1, 1941, supplementary water-stage recorder and concrete control at site 1.1 mi (1.8 km) downstream at Quaker Bridge.

REMARKS.--Records good. Entire flow, except for periods of spilling and releases to augment Croton-on-Hudson water supply, diverted from New Croton Reservoir for municipal supply of City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,400 ft³/s (1,290 m³/s) Oct. 16, 1955, gage height, 18.44 ft (5.621 m), from floodmarks, from rating curve extended above 9,700 ft³/s (275 m³/s) on basis of slope-area measurements of peak flow; minimum daily, 0.1 ft³/s (0.003 m³/s) Mar. 14, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,830 ft³/s (108 m³/s) Oct. 18, gage height, 6.58 ft (2.006 m); minimum, 1.0 ft³/s (0.028 m³/s) June 14, 15, gage height, 0.36 ft (0.110 m); minimum daily, 1.0 ft³/s (0.028 m³/s) June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1990	516	1170	735	1040	984	1430	329	202	855	44	491
2	1560	516	1410	887	1050	931	1790	1220	275	445	43	394
3	1250	516	1400	1010	1060	961	1320	976	236	226	17	329
4	1040	507	1400	1010	1070	953	1160	735	188	167	3.6	252
5	880	467	1400	1010	1070	968	1020	597	152	152	1.6	202
6	773	415	1400	1010	1070	830	902	516	135	102	2.3	152
7	665	367	1390	1010	1080	692	805	452	156	80	16	105
8	550	460	1390	1010	1080	648	701	374	167	116	12	82
9	467	491	1390	1010	1080	614	631	317	131	87	62	52
10	394	491	1390	1010	1080	614	533	281	99	34	2150	94
11	452	758	1390	1010	1270	614	475	275	46	8.7	1510	300
12	589	846	1380	1010	1400	597	437	524	26	4.8	894	197
13	483	1440	1380	1010	1400	871	374	533	1.7	2.3	683	128
14	581	1410	1370	1010	1400	1010	367	275	1.0	1.8	541	102
15	541	1130	1360	1010	1390	821	341	317	1.2	1.7	445	94
16	423	976	1360	1010	1390	781	329	323	9.3	1.7	766	97
17	360	887	1360	1010	1390	946	300	294	797	2.1	558	241
18	2140	813	1360	1010	1390	773	236	335	683	22	374	275
19	3150	735	1350	1010	720	683	202	674	329	21	287	175
20	2460	727	1340	1010	24	683	197	789	221	9.5	231	122
21	2030	1170	1340	1010	13	683	202	622	171	2.6	184	128
22	1740	1900	1210	1010	1130	727	184	541	138	6.5	145	167
23	1500	1500	1120	1010	1570	614	216	430	94	1.8	99	258
24	1310	1310	1120	1010	1400	565	206	360	52	44	52	387
25	1240	1190	1120	1010	1310	524	275	306	17	64	13	475
26	1200	1080	1120	1010	1240	483	491	264	6.9	8.5	2.6	550
27	1030	1110	1120	1010	1170	445	452	241	2.7	1.9	401	805
28	909	1280	1110	1010	1080	516	360	231	2.9	1.8	1010	830
29	830	1140	953	1020	1010	475	311	206	2.4	2.1	871	614
30	781	1010	735	1030	---	415	269	221	85	7.0	813	524
31	606	---	735	1040	---	408	---	206	---	28	657	---
TOTAL	33924	27158	39073	30972	32377	21829	16516	13764	4428.1	2507.8	12888.1	8622
MEAN	1094	905	1260	999	1116	704	551	444	148	80.9	416	287
MAX	3150	1900	1410	1040	1570	1010	1790	1220	797	855	2150	830
MIN	360	367	735	735	13	408	184	206	1.0	1.7	1.6	52

CAL YR 1975 TOTAL 235531.13 MEAN 645 MAX 14100 MIN .85
WTR YR 1976 TOTAL 244059.00 MEAN 667 MAX 3150 MIN 1.0

HUDSON RIVER BASIN

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01376500 SAW MILL RIVER AT YONKERS, NY

LOCATION.--Lat 40°56'11", long 73°53'12", Westchester County, Hydrologic Unit 02030101, on left bank in Yonkers, just upstream from Old Croton aqueduct, near intersection of Nepperhan Avenue and Center Street, and 1.2 mi (1.9 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--25.6 mi² (66.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1943 to September 1973, April 1974 to current year.

REVISED RECORDS.--WRD NY 1971: 1965, 1966.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 90.99 ft (27.734 m) above mean sea level.

REMARKS.--Records fair. Flow affected by diversion by city of Yonkers, village of Tarrytown, and several industries for water supply and industrial purposes. Diurnal fluctuations caused by water supply and industrial operations.

COOPERATION.--Figures for diversion and return in upstream water supply furnished by city of Yonkers and village of Tarrytown.

AVERAGE DISCHARGE.--31 years (1944-73, 1975-76), 31.4 ft³/s (0.889 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,020 ft³/s (28.9 m³/s) Sept. 27, 1975, gage height, 7.26 ft (2.213 m); minimum, 0.05 ft³/s (0.001 m³/s) Dec. 27, 1946, gage height, 0.37 ft (0.113 m); minimum daily, 0.2 ft³/s (0.006 m³/s) Jan. 1, 1944, Sept. 5, Oct. 19, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 519 ft³/s (14.7 m³/s) Aug. 10, gage height, 4.77 ft (1.454 m); minimum, 1.8 ft³/s (0.051 m³/s) Sept. 7, gage height, 0.74 ft (0.226 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	35	54	78	72	39	249	58	49	97	21	8.0
2	60	32	50	57	302	41	225	249	53	27	9.3	11
3	51	31	45	58	127	41	74	55	22	18	6.2	13
4	46	28	39	61	79	43	60	50	16	15	5.0	3.0
5	39	37	32	46	70	46	55	36	12	15	5.9	3.6
6	33	30	31	38	63	41	50	33	12	15	4.8	2.7
7	29	29	27	64	57	36	47	31	18	51	5.6	3.8
8	32	46	26	180	52	36	42	43	17	50	62	3.4
9	34	36	31	65	47	33	40	26	18	19	43	3.4
10	27	36	78	47	51	36	36	24	19	14	476	54
11	32	55	41	43	57	44	33	21	14	13	208	83
12	33	54	30	50	59	47	34	92	14	13	48	12
13	28	193	26	46	50	121	32	38	13	7.3	34	7.3
14	29	81	27	208	53	60	30	30	14	5.6	30	6.2
15	31	54	26	75	44	46	27	26	15	4.8	22	3.8
16	26	43	29	53	48	54	24	24	11	5.3	101	7.6
17	26	44	24	49	85	85	19	28	203	133	32	124
18	283	39	24	37	68	50	18	36	41	27	20	39
19	262	38	21	40	86	49	24	99	21	10	18	10
20	118	38	15	36	62	47	36	42	18	6.2	14	7.3
21	80	99	17	37	52	47	34	34	18	4.5	12	8.9
22	65	142	21	37	81	47	33	32	18	3.8	8.9	6.6
23	58	61	21	26	81	38	32	22	17	5.3	8.9	4.0
24	53	55	18	35	55	36	30	21	17	22	7.3	5.3
25	77	51	17	32	52	39	39	19	19	7.3	6.9	3.4
26	65	47	199	45	50	33	67	21	15	4.8	5.9	4.0
27	50	82	233	351	48	35	24	19	12	4.8	130	39
28	42	71	68	382	46	39	17	18	13	4.8	36	40
29	38	52	54	116	40	31	15	15	62	7.6	13	11
30	49	46	57	78	---	29	14	16	109	95	13	6.6
31	32	---	109	65	---	26	---	14	---	15	9.7	---
TOTAL	1907	1685	1490	2535	2037	1395	1460	1272	900	721.1	1417.4	534.9
MEAN	61.5	56.2	48.1	81.8	70.2	45.0	48.7	41.0	30.0	23.3	45.7	17.8
MAX	283	193	233	382	302	121	249	249	203	133	476	124
MIN	26	28	15	26	40	26	14	14	11	3.8	4.8	2.7
†	9.75	6.86	9.92	6.56	6.28	7.01	8.71	4.14	3.41	8.25	12.78	15.54

CAL YR 1975 TOTAL 16441.2 MEAN 45.0 MAX 906 MIN 2.2 † 9.94

WTR YR 1976 TOTAL 17354.4 MEAN 47.4 MAX 476 MIN 2.7 † 8.27

† Indicated net diversion, in cubic feet per second, for diversion and return in upstream supply.

HUDSON RIVER BASIN

01376500 SAW MILL RIVER AT YONKERS, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1972, August 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRITE PLUS NITRATE IN ROT. MAT. (MG/KG)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL PHOSPHORUS IN BOTTOM MAT. (MG/KG)	TOTAL ARSENIC IN BOTTOM MAT. (UG/G)	TOTAL CADMIUM IN BOTTOM MAT. (UG/G)	TOTAL CHROMIUM IN BOTTOM MAT. (UG/G)	TOTAL COPPER IN BOTTOM MAT. (UG/G)	TOTAL IRON IN BOTTOM MAT. (UG/G)
AUG 31...	1600	8.9	.0	320	200	5	0	31	160	7300
DATE	TOTAL LEAD IN BOTTOM MAT. (UG/G)	TOTAL MANGANESE IN BOTTOM MAT. (UG/G)	TOTAL MERCURY IN BOTTOM MAT. (UG/G)	TOTAL ZINC IN BOTTOM MAT. (UG/G)	ORGANIC CARBON IN BOTTOM MAT. (G/KG)	PCB IN BOTTOM MAT. (UG/KG)	ALDRIN IN BOTTOM MAT. (UG/KG)	CHLORDANE IN BOTTOM MAT. (UG/KG)	DDD IN BOTTOM MAT. (UG/KG)	
AUG 31...	200	90	.2	290	12	720	.0	99	24	
DATE	DDE IN BOTTOM MAT. (UG/KG)	DDT IN BOTTOM MAT. (UG/KG)	DI-AZINON IN BOTTOM MAT. (UG/KG)	DI-ELDRIN IN BOTTOM MAT. (UG/KG)	ENDRIN IN BOTTOM MAT. (UG/KG)	ETHION IN BOTTOM MAT. (UG/KG)	HEPTACHLOR IN BOTTOM MAT. (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM MAT. (UG/KG)	LINDANE IN BOTTOM MAT. (UG/KG)	
AUG 31...	.0	18	.0	.0	.0	.0	.0	.0	.0	
DATE	MALATHION IN BOTTOM MAT. (UG/KG)	METHYL PARATHION IN BOTTOM MAT. (UG/KG)	METHYL TRI-THION IN BOTTOM MAT. (UG/KG)	PARATHION IN BOTTOM MAT. (UG/KG)	TOXAPHENE IN BOTTOM MAT. (UG/KG)	TRI-THION IN BOTTOM MAT. (UG/KG)	2,4-D IN BOTTOM MAT. (UG/KG)	2,4,5-T IN BOTTOM MAT. (UG/KG)	SILVEX IN BOTTOM MAT. (UG/KG)	
AUG 31...	.0	.0	.0	.0	0	.0	0	0	0	

HUDSON RIVER BASIN

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01376505 HUDSON RIVER AT PIER 98 AT YONKERS, NY

LOCATION.--Lat 40°55'46", long 73°54'21", Westchester County, Hydrologic Unit 02030101, on left bank at Pier 98 in Yonkers, 0.4 mi (0.6 km) downstream from mouth of Saw Mill River, and 1.0 mi (1.6 km) upstream from Westchester-Bronx County line.

DRAINAGE AREA.--13,180 mi² (34,136 km²).

PERIOD OF RECORD.--April 1, 1975 to February 19, 1976 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is approximately 13.6 ft (4.14 m) below mean sea level (gage not set by levels).

Summaries of tide gage heights during period are as follows:

TIDE GAGE HEIGHTS, IN FEET, APRIL 1975 TO FEBRUARY 1976												
		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
Maximum	Gage height	17.73	17.20	17.32	17.19	17.41	17.51	18.32	18.03	17.77	17.62(a)	18.26(a)
high tide	Date	25	14	15	24	07	25	20	25	01	01(a)	18(a)
Minimum	Gage height	10.91	12.08	11.72	11.99	11.75	11.75	11.45	11.00	11.02	11.19(a)	9.56(a)
low tide	Date	04	24	24	18	08	10	04	19	19	05(a)	03(a)
Mean high tide		15.85	16.33	15.91	16.26	16.52	16.57	17.12	16.70	16.29	--	--
Mean water level		14.13	14.44	14.23	14.39	14.52	14.51	14.87	14.63	14.40	--	--
Mean low tide		12.37	12.66	12.62	12.39	12.65	12.32	12.87	12.85	12.46	--	--

a Recorded.

Note: No gage heights recorded Jan. 18-26, 1976.

HUDSON RIVER BASIN

RESERVOIRS IN HUDSON RIVER BASIN

01335900 DELTA RESERVOIR.--Lat 43°16'20", long 75°25'50", Oneida County, Hydrologic Unit 02020004, on superstructure of gatehouse at Delta Dam on Mohawk River, and 4 mi (6 km) upstream from Rome. DRAINAGE AREA, 145 mi² (376 km²). PERIOD OF RECORD, May 1913 to current year. GAGE, nonrecording gage read daily at 0800. Datum of gage is at mean sea level, Barge Canal datum.

Dam completed Aug. 3, 1912, and controlled storage for which records are available began May 1, 1913. Usable capacity 2,800 mil ft³ (79.3 hm³) at crest of spillway, elevation 550.0 ft (167.64 m). Reservoir is used for navigation in Barge Canal. Records furnished by New York State Department of Transportation.

EXTREMES FOR PERIOD OF RECORD: 1951-75: Maximum contents observed, 3,136 mil ft³ (88.8 hm³) June 22, 1972, elevation, 552.8 ft (168.49 m); minimum observed 2.0 mil ft³ (0.0566 hm³) Jan. 10, 13, 16-21, Feb. 7-15, Feb. 22 to Mar. 2, 1959, elevation, 492.0 ft (149.96 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 3,064 mil ft³ (86.8 hm³) Apr. 1, elevation, 552.2 ft (168.31 m); minimum observed, 1,298 mil ft³ (36.8 hm³) Jan. 28, elevation, 534.60 ft (162.95 ft).

01343900 HINCKLEY RESERVOIR.--Lat 43°18'45", long 75°06'25", Oneida County, Hydrologic Unit 02020004, on south side of north gatehouse at Hinckley Dam on West Canada Creek at Hinckley, and 2.2 mi (3.5 km) east of Prospect. DRAINAGE AREA, 374 mi² (969 km²). PERIOD OF RECORD, March 1914 to current year. GAGE, nonrecording gage read once daily at 0800. Datum of gage is at mean sea level, Barge Canal datum.

Reservoir is formed by earth and concrete dam; storage began March 1914. Usable capacity 3,320 mil ft³ (94.0 hm³) between elevation 1,173.5 (357.68 m) and 1,225.0 ft (373.38 m). Elevation of invert of four 60-inch discharge pipes at north end of spillway is 1,169.5 ft (356.46 m), and elevation of inverts of two 42-inch pipes at south end for diverting water to city of Utica is 1,164.25 ft (354.863 m). Crest of Ogee spillway is at elevation 1,225.0 ft (373.38 m). Length of spillway is 400 ft (122 m). Area of water surface at crest elevation is 4.46 mi² (11.6 km²). Records furnished by New York State Department of Transportation.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 4,041 mil ft³ (114 hm³) Oct. 2, 1945, elevation, 1,230.2 ft (374.96 m); minimum observed (after initial filling), not determined.

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 3,598 mil ft³ (102 hm³) Apr. 20, elevation, 1227.1 ft (374.02 m); minimum observed, 434 mil ft³ (12.3 hm³) Mar. 19, elevation, 1188.1 ft (362.13 m).

01350100 SHOHARIE RESERVOIR (see station for mean daily elevations, skeleton capacity table, monthly contents and change in contents).

01363400 ASHOKAN RESERVOIR.--Lat 41°57'01", long 74°12'30", Ulster County, Hydrologic Unit 02020006, at gatehouse located at Dividing Weir Dyke, and 1.6 mi (2.6 km) south of Shokan. DRAINAGE AREA, 256 mi² (663 km²). PERIOD OF RECORD, September 1913 to current year. REVISED RECORDS, WRD NY 1970: Drainage Area. WRD NY 1972: 1968. GAGE, nonrecording gage read daily at 0900. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

The reservoir is formed by the masonry Olive Bridge Dam across Esopus Creek and a series of earth embankments between hills. The reservoir is divided into two basins separated by a weir containing a gatehouse. The storage began Sept. 9, 1913. Usable capacity of West basin 47,180 mil gal (178.6 hm³) between minimum operating level elevation 495.50 ft (151.028 m) and crest of spillway to East basin, elevation 590.00 ft (179.832 m); dead storage below minimum operating level 2,237 mil gal (8.467 hm³). Usable capacity of East basin 80,678 mil gal (305.4 hm³) between elevation 500.00 ft (152.400 m) and crest of spillway, elevation 587.10 ft (178.948 m); no dead storage. Figures given herein represent total contents for each basin. Reservoir impounds water for diversion into Catskill Aqueduct for New York City water supply (see elsewhere in this section). Any flood spillage enters the Esopus Creek channel below Olive Bridge Dam. Records furnished by the City of New York, Department of Water Resources.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, in West basin, 54,001 mil gal (204.4 hm³) Mar. 31, 1951, elevation, 594.33 ft (181.152 m), in East basin, 89,411 mil gal (338.4 hm³) Mar. 31, 1951, elevation, 592.23 ft (180.512 m); minimum observed, in West basin, 9,098 mil gal (34.44 hm³) Oct. 24, 1926, elevation, 530.56 ft (161.715 m), in East basin, 8,394 mil gal (31.77 hm³) Oct. 24, 1926, elevation, 525.91 ft (160.297 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, in West basin, 52,000 mil gal (196.8 hm³) Jan. 27, elevation, 592.44 ft (180.576 m), in East basin, 84,738 mil gal (320.7 hm³) Jan. 28, elevation, 589.52 ft (179.686 m); minimum observed, in West basin, 44,049 mil gal (166.7 hm³) Sept. 25, elevation, 584.58 ft (178.180 m), in East basin, 66,217 mil gal (250.6 hm³) Sept. 30, elevation, 578.14 ft (176.217 m).

01366400 RONDOUT RESERVOIR.--Lat 41°47'57", long 74°25'48", Ulster County, Hydrologic Unit 02020007, at release chamber at Merriman Dam on Rondout Creek, 1.1 mi (1.8 km) upstream from Brandy Brook, and 1.3 mi (2.1 km) northwest of Lackawack. DRAINAGE AREA, 94.4 mi² (244 km²). PERIOD OF RECORD, May 1951 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam; storage began May 10, 1951. Initial filling (to crest of spillway) Mar. 28, 1955. Usable capacity 50,048 mil gal (189 hm³) between minimum operating level, elevation, 720.00 ft (219.45 m) and crest of spillway, elevation, 840.00 ft (256.03 m). Dead storage below elevation 720.00 ft (219.45 m), 2,387 mil gal (9.03 hm³). Figures given herein represent total contents. Reservoir impounds water from Rondout Creek; water diverted from Cannonsville Reservoir in the Delaware River basin through West Delaware Tunnel; water diverted from Pepacton Reservoir through East Delaware Tunnel; and water diverted from Neversink Reservoir through Neversink-Grahamsville Tunnel. Water is diverted from Rondout Reservoir for New York City water supply through West Branch Tunnel of Delaware Aqueduct (see elsewhere in this section). Records furnished by City of New York, Board of Water Supply.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 53,355 mil gal (201.9 hm³) June 23, 1972, elevation, 841.34 ft (256.440 m); minimum observed (after initial filling), 8,335 mil gal (31.55 hm³) Oct. 15, 1957, elevation, 748.75 ft (228.219 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 51,863 mil gal (196.3 hm³) Apr. 28, elevation, 839.16 ft (255.776 m); minimum observed, 40,647 mil gal (153.8 hm³) Jan. 26, elevation, 821.66 ft (250.442 m).

HUDSON RIVER BASIN

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RESERVOIRS IN HUDSON RIVER BASIN--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
	01335900 Delta Reservoir †			01343900 Hinckley Reservoir †		
Sept. 30	550.7	2,884		1,226.2	3,477	
Oct. 31	546.6	2,416	+175	1,220.6	2,816	+247
Nov. 30	548.6	2,636	+ 84.9	1,217.9	2,540	-106
Dec. 31	542.5	1,990	+241	1,216.0	2,350	- 70.9

CAL YR 1975 - - - 1.27 - - - 14.4

Jan. 31	537.0	1,490	-187	1,206.9	1,583	+286
Feb. 29	536.7	1,466	- 9.6	1,199.7	1,077	-202
Mar. 31	551.9	3,028	+583	1,211.7	1,970	+333
Apr. 30	550.8	2,896	- 50.9	1,226.2	3,477	+581
May 31	550.5	2,860	- 13.5	1,225.8	3,424	- 19.8
June 30	550.6	2,872	+ 4.63	1,225.9	3,437	+ 5.00
July 31	549.4	2,728	- 53.8	1,224.3	3,236	+ 75.0
Aug. 31	547.9	2,559	- 63.1	1,218.9	2,640	-223
Sept. 30	544.8	2,220	-131	1,211.0	1,910	-282

WTR YR 1976 - - - 21.0 - - - 28.3

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
	01363398 Ashokan Reservoir ‡ West Basin			01363399 Ashokan Reservoir ‡ East Basin			01366400 Rondout Reservoir ‡		
Sept. 30	590.44	49,884		579.25	67,928		834.68	48,868	
Oct. 31	590.57	50,021	+ 6.84	583.66	74,992	+353	837.42	50,689	+ 90.9
Nov. 30	590.64	50,096	+ 3.87	587.64	81,584	+340	834.33	48,637	+106
Dec. 31	590.56	50,011	- 4.24	587.53	81,399	- 9.23	828.77	45,048	-179
CAL YR 1975	-	-	+ 12.8	-	-	+ 46.0	-	-	- 4.89
Jan. 31	590.62	50,074	+ 3.14	587.73	81,735	+ 16.8	831.32	46,677	+ 81.3
Feb. 29	590.19	49,619	- 24.3	587.40	81,181	- 29.6	832.87	47,681	+ 53.6
Mar. 31	590.37	49,810	+ 9.53	587.20	80,846	- 16.7	834.60	48,815	+ 56.6
Apr. 30	590.33	49,767	- 2.22	587.05	80,594	- 13.0	838.33	51,301	+128
May 31	590.22	49,651	- 5.79	586.98	80,477	- 5.84	838.60	51,484	+ 9.13
June 30	590.16	49,587	- 3.30	582.73	73,491	-360	837.52	50,756	- 37.5
July 31	588.07	47,496	-104	579.14	67,759	-286	836.23	49,893	- 43.1
Aug. 31	588.89	48,312	+ 40.7	579.19	67,836	+ 3.84	837.96	51,051	+ 57.8
Sept. 30	584.83	44,281	-208	578.14	66,217	- 83.5	832.86	47,674	-174

WTR YR 1976 - - - 23.7 - - - 7.23 - - - 5.05

† Elevation at 2400 by interpolation.

‡ Elevation at 0900 on first day of following month.

HUDSON RIVER BASIN

RESERVOIRS IN HUDSON RIVER BASIN--Continued

DIVERSIONS IN HUDSON RIVER BASIN

Undetermined diversion at Solsville from Chenango River in Susquehanna River basin into Oriskany Creek in Mohawk River Basin through Oriskany Creek Feeder.

Undetermined diversion from (and occasionally into) Oswego River, tributary to Lake Ontario, through Summit level of Erie (Barge) Canal.

04252000 Diversion from Black River tributary into Lake Ontario through Black River canal into Mohawk River in Hudson River basin (see station).

01327500 Diversion from Hudson River basin to summit level of Champlain (Barge) Canal (see station).

01343899 Diversion from Hinckley Reservoir (see preceding pages) for municipal supply of Utica. Diversion began prior to 1921. Records furnished by Utica Board of Water Supply.

Diversion from Schoharie Reservoir (see preceding pages) on Schoharie Creek through Shandaken Tunnel to Esopus Creek at, 01362230 Lat 42°06'52", long 74°21'51", near Phoenicia, Ulster County. No diversion prior to 1924. Records furnished by the City of New York, Department of Water Resources.

01359498 Diversion from Watervliet Reservoir from municipal supply of Watervliet (see station 01359519).

01363401 Diversion from Ashokan Reservoir (see preceding pages) on Esopus Creek through the Catskill Aqueduct for municipal supply of New York City. Completed in 1917. Records furnished by the City of New York, Department of Water Resources.

01366399 Diversion from Rondout Reservoir. Total diversion from Rondout Reservoir to Delaware Aqueduct for municipal supply of City of New York. Rondout Reservoir is a collection basin for diversion from: Cannonsville Reservoir, Pepacton Reservoir, and Neversink Reservoir in the Delaware River basin and the Rondout Creek in the Hudson River basin. Diversion began April 1944 by means of temporary emergency connection to aqueduct. Records furnished by Board of Water Supply, City of New York.

01367630 Diversion from Morris Lake, tributary to Wallkill River, by Newtown Water and Sewer Authority for municipal use in New Jersey. After use the water is released into the Paulins Kill (Delaware River basin). Records available from the Delaware River Basin Commission.

DIVERSION, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Month	01343899 <u>Hinckley Reservoir</u>	01362230 <u>Schoharie Reservoir</u>	01363401 <u>Ashokan Reservoir</u>	01366399 <u>Rondout Reservoir</u>	
				(a)	(b)
October.....	29.1	495	890	883	224
November.....	28.6	893	780	1,340	248
December.....	28.4	851	507	1,360	171
CAL YR 1975	30.7	321	746	1,240	268
January.....	27.7	434	713	1,270	396
February.....	27.9	0	551	1,340	486
March.....	27.2	99.0	735	1,290	375
April.....	29.9	123	702	1,370	261
May.....	30.6	0	651	1,330	284
June.....	31.0	192	857	1,370	149
July.....	31.5	210	897	1,370	131
August.....	28.1	657	897	1,370	153
September.....	28.3	413	897	1,370	75.8
WTR YR 1976	29.0	366	756	1,310	246

a Total diversion.

b Diversion contributed by Rondout Creek.

HACKENSACK RIVER BASIN

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01376800 HACKENSACK RIVER AT WEST NYACK, NY

LOCATION.--Lat 41°05'44", long 73°57'52", Rockland County, Hydrologic Unit 02030103, on right bank 20 ft (6 m) downstream from Penn Central Transportation Company railroad bridge at West Nyack, 1,000 ft (305 m) upstream from State Highway 59, and 1.0 mi (1.6 km) downstream from DeForest Lake.

DRAINAGE AREA.--29.4 mi² (76.1 km²).

PERIOD OF RECORD.--December 1958 to current year.

GAGE.--Water-stage recorder and stop-log control. Datum of gage is 53.50 ft (16.307 m) above mean sea level (levels by Hackensack Water Co.).

REMARKS.--Records good. Flow regulated by DeForest Lake (see Reservoirs in Hackensack River Basin). Diversion from gaging station pool for municipal supply for village of Nyack (see Reservoirs in Hackensack River Basin). Discharge given for this station represents the flow of Hackensack River downstream from this diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,550 ft³/s (43.9 m³/s) Feb. 3, 1973, gage height, 9.38 ft (2.859 m), from floodmarks, from rating curve extended above 840 ft³/s (23.8 m³/s); minimum daily, 2.6 ft³/s (0.074 m³/s) June 12, 1965, Sept. 25, 26, 30, 1966; minimum gage height, 1.70 ft (0.518 m) Oct. 22, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 613 ft³/s (17.4 m³/s) Oct. 18, gage height, 7.32 ft (2.231 m); minimum, 6.2 ft³/s (0.18 m³/s) June 30, gage height, 2.55 ft (0.777 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	30	58	97	131	48	367	36	25	467	15	15
2	76	30	57	55	347	42	341	344	23	134	17	17
3	60	32	54	80	223	46	122	80	19	27	17	17
4	51	33	48	84	112	46	81	36	21	26	17	17
5	34	33	45	44	73	48	81	37	21	22	16	16
6	31	28	43	42	60	48	56	33	22	19	19	16
7	32	27	54	46	59	43	49	32	22	24	20	17
8	29	41	36	159	60	39	46	32	21	25	17	17
9	27	44	36	108	59	38	52	23	21	20	21	17
10	25	69	83	43	54	44	37	19	20	16	105	27
11	29	128	86	44	59	44	36	21	20	15	50	18
12	37	97	41	51	86	46	34	38	20	17	39	17
13	32	204	39	48	76	93	25	32	20	18	30	16
14	30	193	37	149	50	113	24	25	19	17	24	17
15	28	124	37	155	50	82	24	23	20	17	22	17
16	26	55	38	108	54	69	24	21	23	16	48	19
17	24	34	34	68	181	118	25	20	47	27	39	25
18	410	38	33	38	112	80	24	26	17	16	28	15
19	468	41	26	36	155	59	22	59	17	17	17	17
20	246	40	26	36	130	54	19	56	22	16	16	17
21	128	139	25	38	79	50	18	35	21	17	16	18
22	83	360	25	40	75	54	21	32	20	16	17	16
23	77	216	24	37	99	45	28	23	20	18	17	17
24	62	126	22	36	55	42	22	27	19	16	17	18
25	86	62	22	34	56	41	24	27	19	17	16	18
26	99	47	90	38	56	38	37	20	20	16	19	21
27	57	100	242	434	54	35	33	19	20	18	32	25
28	52	145	170	494	53	42	28	17	18	17	16	17
29	49	89	85	146	47	36	25	18	26	17	17	14
30	54	54	49	73	---	30	20	20	62	22	21	17
31	39	---	176	84	---	28	---	21	---	15	14	---
TOTAL	2524	2659	1841	2945	2705	1641	1745	1252	685	1145	779	535
MEAN	81.4	88.6	59.4	95.0	93.3	52.9	58.2	40.4	22.8	36.9	25.1	17.8
MAX	468	360	242	494	347	118	367	344	62	467	105	27
MIN	24	27	22	34	47	28	18	17	17	15	14	14
CAL YR 1975	TOTAL	23650	MEAN 64.8	MAX 773	MIN 17							
WTR YR 1976	TOTAL	20456	MEAN 55.9	MAX 494	MIN 14							

HACKENSACK RIVER BASIN

01377000 HACKENSACK RIVER AT RIVERVALE, NJ

LOCATION.--Lat 40°59'55", long 73°59'27", Bergen County, Hydrologic Unit 02030103, on upstream right bank at bridge on Westwood Avenue in Riverdale, 1.5 mi (2.4 km) upstream from Pascack Brook, 4.6 mi (7.4 km) upstream from Oradell Dam, and 27.2 mi (43.8 km) upstream from mouth.

DRAINAGE AREA.--58.0 mi² (150.2 km²).

PERIOD OF RECORD.--

WATER DISCHARGE: October 1941 to current year.

CHEMICAL ANALYSES: 1962, 1964 to current year.

SEDIMENT ANALYSES: Water years 1971-75.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 22.51 ft (6.861 m) above mean sea level.

REMARKS.--Discharge records good. Flow regulated by De Forest Lake and Lake Tappan (see Hackensack River Basin, reservoirs in). Diversions at De Forest Lake and West Nyack, NY, for municipal water supply (see Hackensack River Basin, diversions).

COOPERATION.--Gage-height record collected in cooperation with Hackensack Water Co. Analyses of fecal coliform and fecal streptococci by the MPN method and selected water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

AVERAGE DISCHARGE.--35 years, 89.9 m³/s (2.543 m³/s), unadjusted.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 953 ft³/s (27.0 m³/s) Jan. 28, gage height, 4.43 ft (1.350 m); minimum, 42 ft³/s (1.19 m³/s) June 14, gage height, 1.78 ft (0.543 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,740 ft³/s (49.3 m³/s) Sept. 27, 1975, gage height, 7.15 ft (2.179 m); no flow part of Jan. 16, 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	54	98	220	137	77	563	73	61	425	58	52
2	113	50	91	113	445	73	656	308	61	393	49	52
3	135	52	81	98	393	81	314	290	49	126	47	52
4	94	52	71	140	228	85	156	91	47	56	45	52
5	91	50	71	87	154	81	119	58	47	47	45	50
6	91	50	71	65	117	83	108	52	47	45	44	50
7	87	50	73	75	102	71	91	56	49	50	67	50
8	79	61	63	218	96	63	81	56	47	58	71	49
9	75	85	61	173	91	61	81	49	45	49	75	49
10	65	85	107	102	89	79	63	47	44	49	159	77
11	59	171	133	67	98	79	59	47	45	47	131	56
12	58	144	98	85	113	96	58	79	45	47	77	52
13	56	326	71	73	124	135	52	58	45	47	75	50
14	58	276	58	218	113	161	50	50	44	47	75	50
15	56	204	58	206	89	128	49	49	45	45	77	50
16	54	144	69	161	96	104	49	50	45	45	91	52
17	56	79	56	126	188	147	49	49	102	107	75	79
18	246	59	56	75	209	140	49	50	49	52	73	54
19	782	65	50	56	217	106	47	94	47	49	71	52
20	512	63	49	52	198	98	49	96	47	47	69	50
21	249	204	49	59	156	89	49	81	47	47	71	50
22	144	405	58	69	142	91	49	71	45	47	69	52
23	113	319	54	54	159	75	47	52	45	45	69	50
24	104	209	52	50	120	71	45	49	45	56	79	49
25	102	126	49	50	96	99	54	49	45	47	156	49
26	142	81	226	58	89	67	65	49	49	47	107	50
27	102	142	311	417	87	59	50	49	47	45	120	65
28	65	186	237	845	85	69	49	49	47	47	58	63
29	79	154	171	533	77	59	49	49	54	45	54	52
30	79	100	96	178	---	58	49	50	56	69	52	49
31	63	---	188	117	---	52	---	49	---	49	52	---
TOTAL	4105	4046	2976	4840	4308	2737	3249	2299	1491	2375	2361	1607
MEAN	132	135	96.0	156	149	88.3	108	74.2	49.7	76.6	76.2	53.6
MAX	782	405	311	845	445	161	656	308	102	425	159	79
MIN	54	50	49	50	77	52	45	47	44	45	44	49

CAL YR 1975 TOTAL 35136 MEAN 96.3 MAX 1450 MIN 19
WTR YR 1976 TOTAL 36394 MEAN 99.4 MAX 845 MIN 44

(NOTE: WATER-QUALITY DATA FOR THIS STATION ARE NOT PUBLISHED IN THIS REPORT: THEY ARE PUBLISHED IN THE SERIES "WATER RESOURCES DATA FOR NEW JERSEY.")

RESERVOIRS IN HACKENSACK RIVER BASIN

01376700 DE FOREST LAKE.--Lat 41°06', long 74°57', Rockland County, NY, Hydrologic Unit 02030103, at dam on Hackensack River, 0.85 mi (1.37 km) north of West Nyack, NY. DRAINAGE AREA, 26.6 mi² (68.9 km²). PERIOD OF RECORD, February 1956 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam with sheet piling cutoff and concrete spillway; dam completed and storage began in February 1956. Total capacity at crest of dam 4,068,000,000 gal (15.40 hm³), elevation, 80.00 ft (24.384 m). Crest of dam topped by two 50-foot (15.24 m) Bascule gates 5 ft (1.5 m) high. Flow regulated by 12-inch (0.3 m) Howell-Bunger valve at elevation, 59.25 ft (18.059 m) and 24-inch Howell-Bunger valve at elevation, 61.25 ft (18.669 m). Reservoir used for storage and water released by Hackensack Water Co., for municipal water supply. Record of elevation and contents furnished by Hackensack Water Co.

01376950 LAKE TAPPAN.--Lat 41°01'05", long 74°00'05", Bergen County, Hydrologic Unit 02030103, at dam on Hackensack River, 0.50 mi (0.80 km) north of Old Tappan. DRAINAGE AREA, about 49 mi² (127 km²). PERIOD OF RECORD, October 1966 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam, completed in 1966. Capacity at spillway level, 3,378,000,000 gal (12.79 hm³), elevation, 55.00 ft (16.764 m). Flow regulated by four Bascule gates and one sluice gate. Water is released by Hackensack Water Co., for municipal water supply. Record of elevation and contents furnished by Hackensack Water Co.

01377450 WOODCLIFF LAKE.--Lat 41°01', long 74°03', Bergen County, Hydrologic Unit 02030103, at dam on Pascack Brook, 0.75 mi (1.21 km) north of Hillsdale. DRAINAGE AREA, 19.4 mi² (50.2 km²). PERIOD OF RECORD, December 1929 to current year. Monthend contents only prior to September 1953, published in WSP 1302, 1722. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam, completed about 1905. Capacity at spillway level, 835,000,000 gal (3.160 hm³), elevation, 94.33 ft (28.752 m). Flow is regulated by flashboards and one 36-inch (0.9 m) gate in center of dam. Water is released for diversion at New Milford by Hackensack Water Co., for municipal supply. Record of elevation and contents furnished by Hackensack Water Co.

01378480 ORADELL RESERVOIR.--Lat 40°57', long 74°02', Bergen County, Hydrologic Unit 02030103, at dam on Hackensack River at Oradell. DRAINAGE AREA, 113 mi² (293 km²). PERIOD OF RECORD, December 1922 to current year. Monthend contents only prior to September 1953, published in WSP 1302, 1722. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by hollow concrete dam, completed in 1922. Capacity at spillway level, 2,850,000,000 gal (10.79 hm³), elevation, 22.66 ft (6.907 m). Flow regulated by seven sluice gates (7 by 9 ft or 2.1 by 2.7 m). Water is released for diversion by Hackensack Water Co., 1 mi (2 km) downstream from dam for municipal supply. Record of elevation and contents furnished by Hackensack Water Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)
01376700 DE FOREST LAKE†				01376950 LAKE TAPPAN†		
Sept. 30.....	85.18	5,702	-	55.01	3,488	-
Oct. 31.....	85.17	5,698	-0.2	55.00	3,485	-0.2
Nov. 30.....	85.28	5,737	+2.0	55.01	3,488	+0.2
Dec. 31.....	85.20	5,709	-1.4	55.11	3,521	+1.6
CAL YR 1975.....	-	-	0	-	-	+8.9
Jan. 31.....	85.27	5,733	+1.2	55.01	3,488	-1.6
Feb. 28.....	85.23	5,719	-0.7	55.01	3,488	0
Mar. 31.....	85.32	5,751	+1.5	55.23	3,560	+3.6
Apr. 30.....	85.13	5,684	-3.4	54.89	3,450	-5.7
May 31.....	84.93	5,616	-3.4	54.75	3,404	+2.3
June 30.....	85.59	5,846	+11.9	55.17	3,540	-7.0
July 31.....	84.58	5,506	-17.0	54.57	3,345	-9.7
Aug. 31.....	84.91	5,610	+5.2	53.78	3,092	-12.7
Sept. 30.....	84.74	5,556	-2.8	52.96	2,837	-13.1
WTR YR 1976.....	-	-	-0.6	-	-	-2.8
01377450 WOODCLIFF LAKE†				01378480 ORADELL RESERVOIR†		
Sept. 30.....	94.85	863	-	23.00	3,120	-
Oct. 31.....	94.60	848	-0.7	22.41	2,975	-7.3
Nov. 30.....	94.80	859	+0.6	22.53	3,003	+1.4
Dec. 31.....	95.04	874	+0.7	22.55	3,008	+0.2
CAL YR 1975.....	-	-	-0.4	-	-	+2.6
Jan. 31.....	94.83	862	-0.6	22.03	2,887	-6.0
Feb. 28.....	94.65	852	-0.5	21.46	2,870	-0.9
Mar. 31.....	96.02	928	+3.8	20.20	2,484	-19.2
Apr. 30.....	94.49	843	-4.4	20.07	2,456	-1.4
May 31.....	94.28	832	-0.5	21.87	2,848	+19.5
June 30.....	96.55	959	+6.5	22.10	2,903	+2.8
July 31.....	95.01	872	-4.4	19.55	2,350	-27.5
Aug. 31.....	92.61	745	-6.3	22.22	2,931	+28.9
Sept. 30.....	90.72	646	-5.1	19.33	2,305	-32.3
WTR YR 1976.....	-	-	-0.9	-	-	-3.4

† Elevation at 0800 on first day of following month.

HACKENSACK RIVER BASIN

DIVERSIONS FROM HACKENSACK RIVER BASIN

- 01376699 Spring Valley Water Co., diverts water at De Forest Lake for municipal supply in Rockland County, NY. Records furnished by Spring Valley Water Co.
- 01376810 Village of Nyack, NY, diverts water from Hackensack River 100 ft (30.5 m) downstream from gaging station on Hackensack River at West Nyack, NY (sta 01376800) for municipal supply. Records furnished by Board of Water Commissioners of Nyack, NY.
- 01378490 Hackensack Water Co., diverts water for municipal supply from Oradell Reservoir at Haworth pumping station 2.0 mi (3.2 km) upstream from gaging station on Hackensack River at New Milford and from Hackensack River about 50 ft (15.2 m) above gaging station on Hackensack River at New Milford, NJ (sta 01378500). Records furnished by Hackensack Water Co.
- 01378520 Hackensack Water Co., diverts water from Hirshfeld Brook, a tributary of the Hackensack River, below the gaging station on Hackensack River at New Milford, NJ, for municipal supply. Records furnished by Hackensack Water Co.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Month	SPRING VALLEY WATER CO.	WEST NYACK, NY	HACKENSACK WATER CO.
October.....	5.22	2.40	142
November.....	6.13	2.26	130
December.....	6.01	2.20	141
CAL YR 1975.....	4.77	2.44	145
January.....	6.83	2.26	143
February.....	4.40	2.23	145
March.....	4.54	2.17	143
April.....	6.42	2.55	150
May.....	6.33	2.40	150
June.....	12.7	2.54	162
July.....	10.4	2.43	160
August.....	10.8	2.41	161
September.....	8.56	2.35	157
WTR YR 1976.....	7.37	2.35	149

Tabulation of diversion by pumpage from sources other than the Hackensack River into Oradell Reservoir. These figures are included in diversions from Hackensack River as noted above.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Month	SPARKILL CREEK (Hudson River Basin)	HIRSHFELD BROOK (Hackensack River Basin)	SADDLE RIVER (Passaic River Basin)	WELLS TO SURFACE SUPPLY
October.....	0	0.03	0	0
November.....	0	0	0	0
December.....	0	0	0	0
CAL YR 1975....	0	0.01	1.35	0
January.....	0	0	0	0
February.....	0	0	0	0
March.....	0	0	0	0
April.....	0	0	1.10	0
May.....	0	1.30	1.39	0
June.....	0	2.37	1.97	0
July.....	0	1.61	1.57	0
August.....	0	0.11	0.92	0
September.....	0	0	0	0
WTR YR 1976....	0	0.45	0.58	0

PASSAIC RIVER BASIN

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01387450 MAHWAH RIVER NEAR SUFFERN, NY

LOCATION.--Lat 41°08'27", long 74°07'01", Rockland County, Hydrologic Unit 02030103, on right bank at upstream side of bridge on U.S. Highway 202, 2.5 mi (4.0 km) northeast of Suffern, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--12.3 mi² (31.9 km²).

PERIOD OF RECORD.--August 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 321.57 ft (98.015 m) above mean sea level.

REMARKS.--Records fair. Occasional regulation from unknown source.

AVERAGE DISCHARGE.--18 years, 24.0 ft³/s (0.680 m³/s), 26.50 in/yr (673.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s (46.7 m³/s) May 29, 1968, gage height, 7.78 ft (2.371 m), from rating curve extended above 850 ft³/s (24.1 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.05 ft³/s (0.001 m³/s) Oct. 20, 21, 1970, result of temporary pumping from gage pool.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 21	2015	206 5.83	3.98 1.213	Apr. 1	1230	353 10.0	4.77 1.454
Jan. 27	1945	328 9.29	4.65 1.417	May 2	0115	234 6.63	4.15 1.265
Feb. 2	0715	227 6.43	4.11 1.253	June 30	2345	*425 12.0	*5.06 1.542

Minimum discharge, 0.49 ft³/s (0.014 m³/s) Sept. 9, 10, gage height 1.27 ft (0.387 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	22	33	43	54	25	154	37	10	118	2.0	.89
2	34	22	30	32	139	24	109	119	19	42	1.7	.89
3	28	21	27	31	75	24	73	63	14	25	1.4	1.0
4	25	20	25	30	57	25	58	44	8.2	18	1.1	.83
5	22	18	23	24	47	25	46	34	6.4	12	1.0	.78
6	21	17	22	21	41	23	39	28	5.8	8.2	.89	.68
7	18	16	21	25	35	21	34	25	7.5	13	.94	.56
8	17	22	19	57	32	19	30	24	6.1	17	1.1	.56
9	15	20	19	30	29	18	28	21	4.5	11	1.7	.52
10	14	25	35	22	26	19	25	19	3.6	7.1	84	1.5
11	21	35	26	21	29	21	24	18	3.2	5.2	30	2.1
12	21	28	22	21	30	21	22	31	3.1	5.0	15	.83
13	17	70	20	21	30	52	21	22	2.3	3.8	7.5	.64
14	16	58	19	76	32	48	20	18	2.2	3.2	5.0	.60
15	12	45	19	42	26	35	19	17	2.3	2.7	4.0	.56
16	10	38	19	31	31	35	18	15	2.5	3.2	11	.68
17	9.1	32	17	28	72	42	17	17	22	4.0	5.2	26
18	114	29	17	21	56	30	16	19	7.1	2.6	3.4	8.2
19	134	27	12	19	67	30	14	48	4.2	2.2	2.7	3.2
20	105	25	11	19	56	30	12	32	3.2	1.8	2.3	1.8
21	73	80	12	19	44	29	11	24	3.1	1.6	2.1	1.7
22	57	92	13	18	54	28	11	21	2.9	1.5	1.8	1.8
23	44	62	12	17	49	25	11	18	2.7	1.4	1.5	1.1
24	37	49	10	17	39	23	8.2	16	2.5	3.1	1.4	.94
25	47	41	8.6	15	36	24	13	14	2.1	1.6	1.2	.83
26	48	36	64	18	33	22	33	13	1.6	1.5	1.1	2.0
27	37	55	75	244	32	21	21	14	1.4	1.4	7.8	20
28	32	49	51	205	29	22	17	10	1.2	1.2	2.6	21
29	29	38	37	94	26	20	13	8.6	5.8	1.2	1.5	8.6
30	28	34	32	57	---	18	11	9.1	71	4.2	1.1	5.8
31	25	---	48	49	---	18	---	9.1	---	2.1	1.0	---
TOTAL	1152.1	1126	798.6	1377	1306	817	928.2	807.8	231.5	325.8	205.03	116.59
MEAN	37.2	37.5	25.8	44.4	45.0	26.4	30.9	26.1	7.72	10.5	6.61	3.89
MAX	134	92	75	244	139	52	154	119	71	118	84	26
MIN	9.1	16	8.6	15	26	18	8.2	8.6	1.2	1.2	.89	.52
CAL YR 1975	TOTAL	10850.30	MEAN 29.7	MAX 288	MIN 2.7							
WTR YR 1976	TOTAL	9191.62	MEAN 25.1	MAX 244	MIN .52							

01387500 RAMAPO RIVER NEAR MAHWAH, NJ

LOCATION.--Lat 41°05'51", long 74°09'48", Bergen County, Hydrologic Unit 02030103, on left bank 350 ft (107 m) downstream from State Highway 17, 0.6 mi (1.0 km) downstream from Mahwah River, and 1.0 mi (1.6 km) west of Mahwah.

DRAINAGE AREA.--118 mi² (306 km²).

PERIOD OF RECORD.--

WATER DISCHARGE: October 1902 to December 1906, September 1922 to current year (October 1902 to February 1905 monthly discharge only, published in WSP 1302). Figures of daily discharge Feb. 10, 1903 to Dec. 31, 1904, published in WSP 97, 125, are unreliable and should not be used.

CHEMICAL ANALYSES: Water years 1963 to current year.

SEDIMENT ANALYSES: Water years 1964-65.

REVISED DISCHARGE RECORDS.--WSP 781: 1904(M). WSP 1031: 1938, 1940. WSP 1552: 1923(M), 1924, 1925-26(M), 1927-28, 1933, 1937. WRD-NJ 1971: 1968(M).

GAGE.--Water-stage recorder. Datum of gage is 253.10 ft (77.145 m) above mean sea level. Prior to Dec. 31, 1906, nonrecording gage on former bridge at site 250 ft (76 m) downstream at different datum. Sept. 1, 1922 to Dec. 23, 1936, water-stage recorder just below former bridge at present datum.

REMARKS.--Discharge records excellent. Diurnal fluctuations occasionally at low flow caused by powerplants above station.

COOPERATION.--Analyses of fecal coliform and fecal streptococci by the MPN method and selected water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

AVERAGE DISCHARGE.--58 years 228 ft³/s (6.457 m³/s), 26.24 in/yr (666 mm/yr).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	0700	1510 42.8	7.31 2.228
Jan. 28	0600	*2740 77.6	8.65 2.637
June 30	2200	1900 53.8	7.82 2.384

Minimum discharge, 24 ft³/s (0.68 m³/s) Sept. 9, 10, gage height, 2.26 ft (0.689 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 12,400 ft³/s (352 m³/s) Oct. 9, 1903, (gage height, 11.0 ft or 3.35 m, from graph based on gage readings, site and datum then in use) from rating curve extended above 1,400 ft³/s (39.6 m³/s); minimum, 7 ft³/s (0.20 m³/s) Dec. 16, 1930, Sept. 12, 1932; minimum daily, 8 ft³/s (0.23 m³/s) Aug. 25, 1929, Sept. 5, 12, 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	462	317	325	417	487	247	910	310	109	898	73	35
2	392	302	302	340	978	233	958	954	187	340	66	33
3	310	287	265	305	725	247	632	596	141	191	47	35
4	247	275	231	305	520	252	485	420	114	147	39	32
5	213	260	211	237	437	260	405	332	97	133	35	30
6	193	237	199	201	390	243	347	277	90	109	31	27
7	167	147	189	229	335	215	308	241	99	117	37	28
8	145	167	169	412	305	193	272	217	93	127	48	28
9	135	163	167	300	270	179	245	185	80	105	62	26
10	129	199	262	219	241	193	223	163	69	87	788	39
11	165	297	247	193	255	205	203	169	74	74	734	41
12	211	247	205	205	280	203	187	297	65	86	315	37
13	169	545	183	197	257	375	171	223	57	78	185	43
14	157	617	177	551	287	425	157	173	50	66	134	114
15	138	525	167	462	241	332	147	151	52	57	114	143
16	123	427	165	322	260	327	141	135	56	63	138	153
17	123	362	151	272	560	377	137	133	195	65	111	345
18	734	320	141	215	572	297	129	141	129	59	86	260
19	1410	282	128	199	584	280	123	357	90	50	74	201
20	1310	255	117	167	542	308	119	342	72	47	61	175
21	854	467	121	165	462	295	113	241	68	43	54	169
22	635	686	126	169	485	312	109	211	75	41	41	157
23	507	477	126	165	505	265	110	167	96	41	39	143
24	442	390	109	143	405	239	102	140	84	54	38	133
25	450	345	107	138	367	225	117	129	68	43	36	84
26	472	310	422	187	342	211	292	131	60	37	35	89
27	400	385	671	1640	322	199	213	120	48	33	107	167
28	357	425	490	2490	297	225	155	111	42	31	85	163
29	327	345	380	1260	265	203	133	102	181	35	58	121
30	312	317	325	722	---	177	122	101	584	60	46	120
31	340	---	410	515	---	165	---	102	---	59	39	---
TOTAL	12029	10378	7288	13342	11976	7907	7765	7371	3225	3376	3756	3171
MEAN	388	346	235	430	413	255	259	238	108	109	121	106
MAX	1410	686	671	2490	978	425	958	954	584	898	788	345
MIN	123	147	107	138	241	165	102	101	42	31	31	26
CFSM	3.29	2.93	1.99	3.64	3.50	2.16	2.19	2.02	.92	.92	1.03	.90
IN.	3.79	3.27	2.30	4.21	3.78	2.49	2.45	2.02	1.02	1.06	1.18	1.00

CAL YR 1975 TOTAL 115431 MEAN 316 MAX 2520 MIN 34 CFSM 2.68 IN 36.39

WTR YR 1976 TOTAL 91584 MEAN 250 MAX 2490 MIN 26 CFSM 2.12 IN 28.87

(NOTE: WATER-QUALITY DATA FOR THIS STATION ARE NOT PUBLISHED IN THIS REPORT: THEY ARE PUBLISHED IN THE SERIES "WATER RESOURCES DATA FOR NEW JERSEY.")

DELAWARE RIVER BASIN

173

01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, NY

LOCATION.--Lat 42°08'41", long 74°39'14", Delaware County, Hydrologic Unit 02040102, on right bank at downstream side of bridge on Fair Street at intersection with Main Street at Margaretville; 0.2 mi (0.3 km) upstream from unnamed tributary, and 1.6 mi (2.6 km) downstream from Dry Brook.

DRAINAGE AREA.--163 mi² (422 km²).

PERIOD OF RECORD.--February 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,302.38 ft (396.965 m) above mean sea level. Prior to Sept. 9, 1937, nonrecording gage, and Sept. 9, 1937 to Aug. 17, 1944, water-stage recorder, at same datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--39 years, 302 ft³/s (8.553 m³/s), 25.16 in/yr (639.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,700 ft³/s (445 m³/s) Nov. 25, 1950, gage height, 13.84 ft (4.218 m), from rating curve extended above 8,700 ft³/s (246 m³/s); minimum, 5.0 ft³/s (0.14 m³/s) Aug. 5, 1964; minimum gage height, 0.89 ft (0.271 m) Sept. 30, Oct. 1, 1943, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,800 ft³/s (79 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	1015	4,100 116	7.75 2.362	Jan. 27	0830	*7,220 204	*9.87 3.008

Minimum discharge, 28 ft³/s (0.793 m³/s) Sept. 25, 26, gage height, 2.42 ft (0.738 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	377	221	444	240	760	601	1090	625	283	530	80	40
2	333	210	404	220	1010	548	938	952	271	303	65	40
3	289	203	368	210	652	530	796	784	231	254	54	38
4	247	200	337	190	660	790	685	713	212	215	48	37
5	214	178	316	160	580	1040	571	608	200	191	45	38
6	194	161	320	170	520	1030	497	530	212	166	45	38
7	171	151	304	200	480	840	436	503	399	157	60	37
8	151	174	262	170	450	702	390	455	261	197	83	35
9	138	158	258	170	400	571	355	394	224	149	63	34
10	128	178	333	160	380	530	320	355	209	119	264	43
11	217	231	296	160	380	476	307	320	203	106	200	65
12	271	221	262	150	320	408	275	390	218	116	126	50
13	192	510	246	140	307	440	254	316	188	126	109	54
14	355	486	246	316	316	394	237	279	175	126	145	48
15	255	444	246	239	264	346	224	264	171	112	123	35
16	249	426	250	200	377	316	821	244	145	106	103	32
17	242	400	224	160	1320	299	577	283	209	175	90	37
18	2470	381	210	140	1040	279	514	390	157	112	80	42
19	1840	363	160	140	1920	307	471	508	130	95	74	37
20	1140	354	140	130	1410	386	426	1050	123	85	67	32
21	852	545	160	120	1040	445	390	1130	157	83	63	35
22	680	587	150	110	1860	559	360	1060	171	83	60	34
23	571	495	130	100	1570	465	333	865	166	74	58	32
24	481	462	140	110	1110	440	303	696	157	78	56	31
25	448	430	160	120	924	417	399	583	145	67	52	30
26	417	390	304	730	790	390	1150	497	126	62	50	32
27	354	505	417	6130	772	377	853	445	106	58	119	126
28	316	467	300	3490	731	685	834	381	100	56	69	90
29	291	400	258	1700	657	486	725	337	149	58	60	67
30	266	372	246	1120	---	445	625	311	283	83	50	56
31	239	---	266	796	---	417	---	283	---	65	42	---
TOTAL	14388	10303	8157	18191	23000	15959	16156	16551	5781	4207	2603	1345
MEAN	464	343	263	587	793	515	539	534	193	136	84.0	44.8
MAX	2470	587	444	6130	1920	1040	1150	1130	399	530	264	126
MIN	128	151	130	100	264	279	224	244	100	56	42	30
CFSM	2.85	2.10	1.61	3.60	4.87	3.16	3.31	3.28	1.18	.83	.52	.27
IN.	3.28	2.35	1.86	4.15	5.25	3.64	3.69	3.78	1.32	.96	.59	.31

CAL YR 1975 TOTAL 130962 MEAN 359 MAX 3210 MIN 48 CFSM 2.20 IN 29.89
WTR YR 1976 TOTAL 136641 MEAN 373 MAX 6130 MIN 30 CFSM 2.29 IN 31.18

DELAWARE RIVER BASIN

01414500 MILL BROOK NEAR DUNRAVEN, NY

LOCATION.--Lat 42°06'22", long 74°43'51", Delaware County, Hydrologic Unit 02040102, on left bank 0.4 mi (0.6 km) upstream from bridge on New York City Road 9 and Pepacton Reservoir, and 2.7 mi (4.3 km) southwest of Dunraven.

DRAINAGE AREA.--25.0 mi² (64.7 km²).

PERIOD OF RECORD.--February 1937 to current year. Published as "at Arena" 1937-67.

REVISED RECORDS.--WSP 1432: 1937. WRD NY 1970: 1969.

GAGE.--Water-stage recorder. Datum of gage is 1,298.54 ft (395.795 m) above mean sea level, datum of Board of Water Supply, City of New York. Prior to Oct. 17, 1939, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum. Oct. 17 to Dec. 8, 1939, nonrecording gage at present site at different datum.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--39 years, 55.5 ft³/s (1.572 m³/s), 30.15 in/yr (765.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,500 ft³/s (127 m³/s) Sept. 21, 1938, from rating curve extended above 960 ft³/s (27.2 m³/s) on basis of velocity-area study; maximum gage height, 9.92 ft (3.024 m) Nov. 25, 1950; minimum discharge observed, 1.2 ft³/s (0.034 m³/s) Sept. 25, 26, 1939, gage height, 0.71 ft (0.216 m), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge above base of 740 ft³/s (21 m³/s), about 1,000 ft³/s (28.3 m³/s) Jan. 26; maximum gage height, 5.15 ft (1.570 m) Jan. 26 (ice jam); minimum, 5.8 ft³/s (0.164 m³/s) Sept. 10, 14-16, 24-26, gage height, 2.65 ft (0.808 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	44	101	52	94	105	266	97	35	75	23	9.0
2	70	44	88	47	160	98	247	166	35	50	16	9.0
3	60	42	78	44	100	98	175	143	37	40	13	9.0
4	53	40	66	42	86	165	127	115	30	45	12	8.1
5	50	36	60	49	81	279	100	94	28	50	11	8.1
6	48	33	58	58	63	287	86	80	35	45	11	7.3
7	45	31	55	66	56	213	75	75	30	40	14	7.3
8	43	35	51	58	50	136	65	67	37	45	17	6.6
9	38	31	48	45	45	108	57	57	28	37	13	6.6
10	55	38	58	35	35	101	55	50	28	37	40	8.1
11	55	42	51	25	30	91	55	47	35	42	40	10
12	50	46	51	20	26	81	50	55	32	40	32	8.1
13	50	127	48	17	26	94	52	45	28	40	37	7.3
14	70	127	48	19	26	84	62	42	25	40	37	6.6
15	60	105	48	21	37	81	62	45	20	37	37	5.8
16	52	94	48	19	37	84	67	47	14	37	35	6.6
17	58	84	48	18	158	94	55	45	25	42	25	8.1
18	279	78	44	17	129	81	50	62	14	47	20	10
19	207	75	45	16	188	94	47	80	13	40	18	8.1
20	160	69	40	15	171	94	45	152	12	37	17	7.3
21	108	176	37	14	123	171	42	195	16	35	16	7.3
22	81	171	34	13	227	234	42	166	23	37	14	7.3
23	78	123	31	13	213	150	42	119	30	40	13	6.6
24	75	105	37	20	155	127	45	94	28	42	12	6.6
25	69	91	47	70	123	115	52	72	25	26	11	5.8
26	60	78	60	150	111	111	131	62	26	20	13	9.0
27	53	127	80	498	136	123	97	52	21	18	28	35
28	48	98	72	388	132	303	94	40	17	17	14	25
29	46	84	64	194	111	155	86	30	21	20	13	16
30	44	78	60	131	---	111	78	28	67	28	11	13
31	42	---	56	88	---	91	---	32	---	17	10	---
TOTAL	2285	2352	1712	2262	2929	4159	2507	2454	815	1166	623	288.6
MEAN	73.7	78.4	55.2	73.0	101	134	83.6	79.2	27.2	37.6	20.1	9.62
MAX	279	176	101	498	227	303	266	195	67	75	40	35
MIN	38	31	31	13	26	81	42	28	12	17	10	5.8
CFSM	2.95	3.14	2.21	2.92	4.04	5.36	3.34	3.17	1.09	1.50	.80	.38
IN.	3.40	3.50	2.55	3.37	4.36	6.19	3.73	3.65	1.21	1.73	.93	.43
CAL YR 1975 TOTAL	26828.6			MEAN 73.5	MAX 420	MIN 7.2	CFSM 2.94	IN 39.92				
WTR YR 1976 TOTAL	23552.6			MEAN 64.4	MAX 498	MIN 5.8	CFSM 2.58	IN 35.04				

DELAWARE RIVER BASIN

175

01415000 TREMPER KILL NEAR ANDES, NY

LOCATION.--Lat 42°07'12", long 74°49'08", Delaware County, Hydrologic Unit 02040102, on right bank 500 (152 m) upstream from bridge on County Highway 1, about 1,700 ft (518 m) upstream from Pepacton Reservoir, and 5 mi (8 km) south of Andes.

DRAINAGE AREA.--33.0 mi² (85.5 km²).

PERIOD OF RECORD.--February 1937 to current year. Published as "near Shavertown" 1937-67.

GAGE.--Water-stage recorder. Concrete control since Nov. 1937. Datum of gage is 1,285.87 ft (391.933 m) above mean sea level. Prior to Aug. 5, 1937, nonrecording gage at site 500 ft (152 m) downstream at different datum. Aug. 5 to Sept. 28, 1937, nonrecording gage at site 0.25 mi (0.40 km) downstream at different datum.

REMARKS.--Records fair except those for winter periods and period of doubtful or no gage-height record, October 19 to November 18, which are poor.

AVERAGE DISCHARGE.--39 years, 59.5 ft³/s (1.685 m³/s), 24.48 in/yr (621.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,250 ft³/s (120 m³/s) Sept. 21, 1938, gage height, 7.12 ft (2.170 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s); minimum, 0.5 ft³/s (0.014 m³/s) Sept. 17, 21, 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 26	2215	ice jam	*7.92 2.414	Feb. 22	1115	715 20.2	4.52 1.378
Jan. 27	0700	*1,360 38.5	5.22 1.591	June 23	1945	784 22.2	4.61 1.405

Minimum discharge, 3.4 ft³/s (0.096 m³/s) Sept. 24, 25, 26, gage height, 2.46 ft (0.750 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	43	88	38	130	116	184	141	49	546	29	8.7
2	68	44	73	35	110	111	149	168	44	259	21	9.2
3	57	40	64	33	100	129	135	162	34	162	16	8.7
4	47	36	57	31	92	202	116	135	30	114	13	7.6
5	41	34	52	34	84	202	97	116	27	84	11	7.6
6	37	32	55	38	76	195	84	101	37	66	11	6.6
7	32	29	52	42	70	159	72	97	63	58	22	5.8
8	29	32	42	32	66	127	63	82	37	53	34	5.4
9	27	30	42	31	62	101	56	68	32	44	23	5.0
10	24	40	50	29	58	95	50	61	30	37	53	8.7
11	32	50	42	28	54	82	50	58	30	32	34	9.8
12	39	70	37	27	52	70	43	90	36	34	29	8.1
13	29	130	35	26	50	86	39	59	27	34	31	5.8
14	64	140	35	32	49	72	37	54	26	33	44	5.4
15	41	130	34	41	65	61	37	50	23	29	32	5.0
16	42	120	34	35	71	58	124	47	22	47	30	5.0
17	39	120	29	33	367	56	76	61	47	59	24	7.6
18	224	120	29	31	268	53	72	66	26	36	22	7.1
19	180	110	26	29	427	59	68	99	22	30	19	6.6
20	130	97	48	27	294	78	64	259	135	26	17	5.4
21	94	181	38	25	212	114	59	227	184	26	16	8.1
22	86	149	30	23	433	124	56	188	135	28	14	6.2
23	76	125	24	22	308	111	50	146	220	23	13	4.6
24	70	110	24	25	216	99	47	114	195	23	12	4.0
25	64	95	30	35	171	90	78	92	149	19	10	3.7
26	58	82	40	150	146	78	251	78	99	17	11	5.4
27	54	112	54	900	162	76	195	66	74	15	31	38
28	50	91	50	538	159	97	188	54	63	14	16	17
29	46	75	46	295	132	74	156	49	66	17	13	12
30	42	68	43	194	---	68	129	44	676	30	10	9.2
31	40	---	41	149	---	64	---	41	---	18	9.2	---
TOTAL	1944	2535	1344	3008	4484	3107	2825	3073	2638	2013	670.2	247.3
MEAN	62.7	84.5	43.4	97.0	155	100	94.2	99.1	87.9	64.9	21.6	8.24
MAX	224	181	88	900	433	202	251	259	676	546	53	38
MIN	24	29	24	22	49	53	37	41	22	14	9.2	3.7
CFSM	1.90	2.56	1.32	2.94	4.70	3.03	2.85	3.00	2.66	1.97	.65	.25
IN.	2.19	2.86	1.52	3.39	5.05	3.50	3.18	3.46	2.97	2.27	.76	.28

CAL YR 1975	TOTAL	26563.4	MEAN	72.8	MAX	718	MIN	6.6	CFSM	2.21	IN	29.94
WTR YR 1976	TOTAL	27888.5	MEAN	76.2	MAX	900	MIN	3.7	CFSM	2.31	IN	31.44

DELAWARE RIVER BASIN

01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, NY

LOCATION.--Lat 42°04'30", long 74°58'36", Delaware County, Hydrologic Unit 02040102, on left bank 0.5 mi (0.8 km) downstream from Downsview Dam, at downstream end of outlet channel of Pepacton Reservoir, and 1.0 mi (1.6 km) east of Downsview.

DRAINAGE AREA.--371 mi² (961 km²).

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,094.92 ft (333.731 m) above mean sea level (Board of Water Supply, City of New York datum). Prior to Sept. 26, 1941, nonrecording gage; and Sept. 26, 1941, to June 27, 1955, water-stage recorder, at site 0.8 mi (1.3 km) downstream at datum 7.03 ft (2.143 m) lower.

REMARKS.--Records good. Subsequent to September 1954, entire flow from drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,900 ft³/s (677 m³/s) Nov. 26, 1950, gage height, 14.52 ft (4.426 m), site and datum then in use, from rating curve extended above 12,000 ft³/s (340 m³/s); minimum, 0.3 ft³/s (0.008 m³/s) Oct. 11, 1954; minimum daily, 0.6 ft³/s (0.017 m³/s) Oct. 10, 1954; minimum gage height, 1.39 ft (0.424 m) Jan. 17, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 16 ft (5 m) Oct. 9, 1903 (at former datum).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,820 ft³/s (165 m³/s) Jan. 28, gage height, 7.19 ft (2.192 m); minimum daily, 7.0 ft³/s (0.198 m³/s) Dec. 19, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	13	181	7.2	1190	955	899	1070	34	22	21	20
2	19	7.4	263	7.2	1530	807	1600	1540	31	22	20	34
3	19	7.4	221	7.5	1120	932	1480	1510	22	22	20	52
4	19	7.4	177	7.2	807	899	1240	1460	22	21	20	54
5	19	7.4	122	7.2	661	1480	955	1190	21	21	44	51
6	19	7.4	82	7.2	503	1740	740	969	22	21	69	48
7	19	7.4	60	7.2	357	1580	544	832	21	22	44	48
8	19	7.4	35	7.2	263	1280	372	713	21	21	19	49
9	19	7.4	20	7.2	190	940	246	544	21	21	19	49
10	19	7.7	10	7.2	116	713	148	410	22	21	19	51
11	19	7.4	7.2	7.5	84	555	86	317	21	21	19	49
12	19	7.7	7.7	7.2	71	394	42	375	21	21	18	49
13	19	8.1	8.3	7.5	33	323	22	260	42	22	19	49
14	19	8.2	7.2	7.7	21	304	20	147	64	21	19	49
15	19	8.0	7.2	7.2	11	207	20	75	67	21	19	30
16	19	7.9	7.2	7.2	9.4	158	27	60	66	22	20	19
17	19	7.7	7.2	7.5	912	84	125	30	65	21	19	33
18	20	7.8	7.2	7.2	1800	31	185	38	66	21	18	55
19	20	7.7	7.0	7.2	3250	16	198	191	42	21	18	32
20	20	7.7	7.2	7.4	3360	35	177	960	23	21	18	35
21	20	8.1	7.2	7.4	2380	116	148	1880	22	21	18	55
22	20	7.9	7.2	7.3	2950	419	99	2000	22	21	18	52
23	20	7.8	7.2	7.2	3710	503	55	1730	22	21	18	54
24	20	7.8	8.3	7.2	2630	483	49	1370	22	21	36	54
25	20	7.7	7.0	7.3	1890	419	131	1050	22	21	60	54
26	20	9.6	8.0	17	1490	350	1190	781	21	21	60	54
27	21	18	7.5	937	1310	292	1610	513	22	21	33	30
28	19	23	7.5	5500	1260	513	1650	327	22	48	18	18
29	19	99	7.2	4930	1110	544	1490	201	21	76	18	18
30	19	136	7.2	2680	---	445	1240	111	23	43	18	19
31	19	---	7.5	1600	---	365	---	49	---	21	18	---
TOTAL	600	483.0	1326.2	15846.3	35018.4	17782	16788	22703	933	761	797	1264
MEAN	19.4	16.1	42.8	511	1208	574	560	732	31.1	24.5	25.7	42.1
MAX	21	136	263	5500	3710	1740	1650	2000	67	76	69	55
MIN	19	7.4	7.0	7.2	9.4	16	20	30	21	21	18	18

CAL YR 1975 TOTAL 95719.4 MEAN 262 MAX 4510 MIN 7.0
WTR YR 1976 TOTAL 114301.9 MEAN 312 MAX 5500 MIN 7.0

DELAWARE RIVER BASIN

177

01420000 LITTLE BEAVER KILL NEAR LIVINGSTON MANOR, NY

LOCATION.--Lat 41°52'23", long 74°47'52", Sullivan County, Hydrologic Unit 02040102, on right bank 100 ft (30 m) downstream from private bridge, 0.2 mi (0.3 km) west from interchange 97 on U.S. Highway 17, 2.5 (4.0 km) southeast of Livingston Manor, and 3 mi (5 km) upstream from Cattail Brook.

DRAINAGE AREA.--19.8 mi² (51.3 km²).

PERIOD OF RECORD.--July 1924 to current year.

REVISED RECORDS.--WSP 1302: 1930(M), 1933(M), 1936-37(M), 1942-46(M). WSP 1432: 1928(M).

GAGE.--Water-stage recorder. Concrete control since November 1933. Datum of gage is 1,496.69 ft (456.191 m) above mean sea level. Prior to Dec. 9, 1939, nonrecording gage.

REMARKS.--Records fair except those for winter periods, which are poor. Some diversion from Lily Pond for village of Liberty water supply.

AVERAGE DISCHARGE.--52 years, 44.8 ft³/s (1.269 m³/s), 30.73 in/yr (780.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,420 ft³/s (96.9 m³/s) Aug. 26, 1928, gage height, 8.7 ft (2.65 m), from floodmarks, from rating curve extended above 1,700 ft³/s (48.1 m³/s); minimum, 0.9 ft³/s (0.025 m³/s) July 10, 1962; minimum gage height, 1.23 ft (0.375 m) Aug. 1, 3, 5, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 730 ft³/s (21 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	0015	*3,230 91.5	*7.76 2.365	Apr. 1	0945	789 22.3	3.88 1.183

Minimum discharge, 7.0 ft³/s (0.198 m³/s) Aug. 25, 26, Sept. 9, 10, 14, 15, 16, 26, gage height, 1.53 ft (0.466 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	25	55	33	97	119	378	77	26	122	28	17
2	39	24	48	30	124	103	166	160	28	48	20	17
3	34	22	41	26	88	89	106	89	21	31	17	16
4	31	22	38	26	80	93	83	70	19	32	15	14
5	27	22	34	25	66	175	68	55	17	38	13	13
6	25	22	34	24	54	181	58	48	23	25	15	12
7	23	21	34	23	52	106	52	43	36	25	35	11
8	22	30	32	23	45	81	46	38	22	41	67	8.3
9	22	24	30	23	40	68	41	34	18	26	49	7.0
10	21	38	48	23	35	65	38	31	16	19	79	13
11	65	52	39	25	34	60	35	30	14	25	49	16
12	99	49	33	27	32	58	34	49	13	54	34	12
13	54	178	30	28	30	77	28	35	11	30	26	9.0
14	54	101	32	35	30	67	28	30	11	23	25	7.6
15	43	68	32	50	32	57	25	26	11	19	21	7.6
16	40	55	32	40	35	49	28	23	9.8	20	20	8.3
17	35	47	26	30	180	48	25	58	12	75	17	28
18	193	43	27	27	140	48	21	87	9.0	35	14	35
19	125	39	26	25	210	46	21	91	8.3	26	12	21
20	95	36	28	24	160	77	19	134	13	20	11	16
21	73	80	30	23	100	158	18	85	26	18	11	15
22	57	78	27	22	300	129	18	63	25	17	9.8	11
23	47	54	25	22	190	81	17	52	19	15	9.0	9.0
24	43	45	24	24	120	70	16	44	21	21	8.3	9.0
25	41	41	29	40	110	68	31	39	21	17	7.6	8.3
26	41	38	35	300	130	67	93	35	15	14	7.6	25
27	38	65	40	1000	187	77	55	31	13	12	219	103
28	35	63	37	535	169	172	44	26	25	12	68	51
29	33	49	33	228	131	89	36	28	32	17	38	31
30	31	45	32	144	---	74	31	30	110	97	28	22
31	27	---	33	108	---	63	---	26	---	41	20	---
TOTAL	1557	1476	1044	3013	3001	2715	1659	1667	645.1	1015	993.3	573.1
MEAN	50.2	49.2	33.7	97.2	103	87.6	55.3	53.8	21.5	32.7	32.0	19.1
MAX	193	178	55	1000	300	181	378	160	110	122	219	103
MIN	21	21	24	22	30	46	16	23	8.3	12	7.6	7.0
CFSM	2.54	2.48	1.70	4.91	5.20	4.42	2.79	2.72	1.09	1.65	1.62	.96
IN.	2.93	2.77	1.96	5.66	5.64	5.10	3.12	3.13	1.21	1.91	1.87	1.08

CAL YR 1975	TOTAL	20898.8	MEAN	57.3	MAX	652	MIN	9.1	CFSM	2.89	IN	39.26
WTR YR 1976	TOTAL	19358.5	MEAN	52.9	MAX	1000	MIN	7.0	CFSM	2.67	IN	36.37

DELAWARE RIVER BASIN

01420500 BEAVER KILL AT COOKS FALLS, NY

LOCATION.--Lat 41°56'47", long 74°58'48", Delaware County, Hydrologic Unit 02040102, on left bank 125 ft (38 m) downstream from road bridge in Cooks Falls, and 5.5 mi (8.8 km) downstream from Willowemoc Creek.

DRAINAGE AREA.--241 mi² (624 km²).

PERIOD OF RECORD.--July 1913 to current year.

REVISED RECORDS.--WSP 521: Drainage area. WSP 781: 1933(M). WSP 891: 1936-39(M). WSP 1202: 1950. WSP 1232: 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 1,151.70 ft (351.038 m) above mean sea level. Prior to Oct. 1, 1933, nonrecording gage at site 125 ft (38 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--62 years, 556 ft³/s (15.75 m³/s), 31.33 in/yr (795.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,600 ft³/s (895 m³/s) Mar. 31, 1951, gage height, 16.02 ft (4.883 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of slope-area measurement at gage height 15.52 ft (4.730 m); minimum, 16 ft³/s (0.45 m³/s) Nov. 22, 23, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,700 ft³/s (130 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	0845	*14,900 422	*11.93 3.636	Apr. 1	1345	5,100 144	7.71 2.350

Minimum discharge, 120 ft³/s (3.40 m³/s) Sept. 25, 26, gage height, 1.30 ft (0.396 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	717	400	801	340	1130	1610	3090	733	406	1730	412	204
2	622	378	744	310	1770	1410	2260	2220	397	774	356	193
3	551	366	659	280	1200	1270	1570	1480	347	580	291	184
4	496	363	607	260	1000	1200	1230	1220	316	508	253	170
5	459	343	550	250	840	1750	1020	986	294	591	230	178
6	423	318	539	250	660	2390	864	829	290	445	225	169
7	379	297	536	260	600	1680	753	756	453	408	297	158
8	349	346	482	280	560	1320	672	684	359	581	452	154
9	326	331	466	260	520	1060	604	603	283	431	392	148
10	312	435	578	250	500	948	548	559	249	356	600	161
11	610	647	543	250	470	851	521	509	227	316	535	217
12	1070	588	479	260	450	725	475	605	218	425	417	185
13	656	1790	451	280	440	801	440	516	202	355	371	160
14	661	1470	445	330	430	810	413	461	196	329	361	147
15	577	1110	446	400	420	693	388	430	188	298	321	139
16	530	938	443	350	462	639	437	401	182	352	305	141
17	492	840	409	310	1300	599	418	514	201	1130	267	184
18	2400	759	384	270	1510	529	368	848	183	617	240	234
19	2140	689	294	250	2080	539	349	910	166	488	220	198
20	1700	643	280	260	1900	673	325	1460	165	410	207	174
21	1280	1060	270	310	1410	1280	305	1490	253	370	195	165
22	1030	1310	260	300	2820	1740	298	1190	291	351	185	153
23	850	977	250	290	2570	1160	296	978	319	311	176	142
24	740	840	250	310	1730	994	274	820	491	346	166	135
25	691	748	240	370	1450	971	347	706	360	287	158	130
26	664	680	500	900	1540	910	1020	638	301	251	167	145
27	581	861	800	10100	2050	897	795	572	250	229	782	570
28	532	977	594	5780	2150	2000	700	522	230	235	418	416
29	502	772	500	2620	1770	1290	654	471	341	232	345	295
30	466	693	470	1730	---	1050	593	449	707	702	282	241
31	429	---	370	1230	---	918	---	421	---	415	214	---
TOTAL	23235	21969	14640	29640	35732	34707	22027	24981	8865	14853	9840	5890
MEAN	750	732	472	956	1232	1120	734	806	296	479	317	196
MAX	2400	1790	801	10100	2820	2390	3090	2220	707	1730	782	570
MIN	312	297	240	250	420	529	274	401	165	229	158	130
CFSM	3.11	3.04	1.96	3.97	5.11	4.65	3.05	3.34	1.23	1.99	1.32	.81
IN.	3.59	3.39	2.26	4.58	5.52	5.36	3.40	3.86	1.37	2.29	1.52	.91
CAL YR 1975	TOTAL	263370	MEAN 722	MAX 6750	MIN 123	CFSM 3.00	IN 40.65					
WTR YR 1976	TOTAL	246379	MEAN 673	MAX 10100	MIN 130	CFSM 2.79	IN 38.03					

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY

LOCATION.--Lat 41°58'23", long 75°10'28", Delaware County, Hydrologic Unit 02040102, on left bank 3,000 ft (914 m) upstream from bridge on County highway 28 at Fishs Eddy, 0.6 mi (1.0 km) upstream from Fish Creek, 4.2 mi (6.8 km) downstream from Beaver Kill, and 11 mi (18 km) upstream from the confluence of East and West Branches near Hancock. Water-quality sampling site at discharge station.

DRAINAGE AREA.--783 mi² (2,028 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WSP 756: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 955.96 ft (291.377 m) above mean sea level. Prior to Sept. 27, 1928, nonrecording gage and Sept. 28, 1928 to Nov. 1, 1967, water-stage recorder at site 3,000 ft (914 m) downstream at datum 5.0 ft (1.52 m) lower.

REMARKS.--Records fair except those for winter periods, which are poor. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir (see reservoirs Delaware River Basin). Part of flow diverted for municipal supply of City of New York. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,300 ft³/s (1,510 m³/s) Aug. 24, 1933, gage height, 20.60 ft (6.279 m) at former site and datum, from rating curve extended above 22,000 ft³/s (623 m³/s) minimum, 52 ft³/s (1.47 m³/s) July 23, 1964, gage height, 1.16 ft (0.354 m) at former site and datum; minimum daily, 68 ft³/s (1.93 m³/s) Aug. 29, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 9, 1903, reached a stage of 23.6 ft (7.19 m) at former site and datum, from description obtained in April 1939, from local residents who had experienced the flood (discharge, about 70,000 ft³/s or 1,980 m³/s, from rating curve extended above 22,000 ft³/s or 623 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,700 ft³/s (530 m³/s) Jan. 27, gage height, 10.57 ft (3.222 m); maximum gage height, 14.38 ft (4.383 m) Jan. 27 (ice jam); minimum, 200 ft³/s (5.66 m³/s) Sept. 26, gage height, 3.17 ft (0.966 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	673	1480	560	3260	3670	4160	2180	628	3340	670	356
2	1130	629	1560	500	4270	3270	4780	4220	609	1710	629	332
3	978	594	1390	490	3430	3060	3920	3650	523	1190	512	324
4	857	577	1240	480	2880	2920	3300	3350	466	918	443	313
5	761	546	1090	470	2420	4030	2730	2850	430	967	403	304
6	691	503	1000	450	2000	5290	2300	2420	439	727	395	298
7	620	474	978	440	1700	4450	1930	2170	711	608	544	273
8	560	531	867	440	1400	3660	1600	1940	550	863	878	265
9	524	546	803	450	1100	2960	1310	1630	435	663	1760	252
10	496	612	955	460	1000	2520	1060	1400	389	541	2010	249
11	638	1070	889	480	900	2210	914	1190	353	467	1740	319
12	1430	933	772	520	800	1820	790	1410	331	587	1230	333
13	966	2700	720	600	740	1770	683	1170	306	534	1010	281
14	944	2720	700	740	700	1790	619	932	309	489	1350	251
15	857	2150	691	800	660	1480	567	783	310	452	1060	233
16	772	1800	710	700	713	1290	619	684	299	459	909	220
17	731	1600	656	640	2930	1130	647	858	353	2030	730	268
18	4270	1430	600	580	4470	907	654	1190	325	1300	605	331
19	5140	1300	370	540	6190	918	657	1480	284	939	519	311
20	4060	1200	350	490	6480	1070	625	3070	531	744	460	262
21	2850	1600	350	460	5100	1900	575	4130	731	634	416	249
22	2170	2220	350	440	6860	3290	534	3900	629	588	377	241
23	1750	1760	350	420	7870	2710	489	3390	612	512	341	224
24	1460	1570	350	420	5710	2410	429	2820	762	534	315	212
25	1330	1420	360	750	4530	2220	518	2350	647	467	300	204
26	1240	1260	380	2200	4120	2020	2430	1970	531	402	304	221
27	1080	1450	500	14000	4510	1440	3030	1580	448	360	896	834
28	966	1670	900	13100	4770	3080	2980	1250	389	364	986	677
29	878	1400	740	8420	4110	2600	2750	978	488	373	567	483
30	803	1350	700	5610	---	2200	2400	819	911	1120	541	403
31	731	---	640	3990	---	1910	---	699	---	730	410	---
TOTAL	42983	38288	23441	60640	95623	76395	50000	62463	14729	25612	23310	9523
MEAN	1387	1276	756	1956	3297	2464	1667	2015	491	826	752	317
MAX	5140	2720	1560	14000	7870	5290	4780	4220	911	3340	2010	834
MIN	496	474	350	420	660	907	429	684	284	360	300	204
CAL YR 1975	TOTAL	516726	MEAN	1416	MAX	11800	MIN	207				
WTR YR 1976	TOTAL	523007	MEAN	1429	MAX	14000	MIN	204				

DELAWARE RIVER BASIN

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958, 1959, 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: November 1967 to current year.

INSTRUMENTATION.--Temperature recorder since November 1967.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.5°C Aug. 2, 1975; minimum (water years 1968-75), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.0°C June 19; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	12.5	13.5	6.0	4.0	5.0	7.0	4.5	6.5	0.0	0.0	0.0
2	14.5	11.5	13.0	8.5	6.0	7.5	4.5	3.5	3.5	0.0	0.0	0.0
3	12.0	9.0	10.5	10.5	9.0	9.5	3.5	1.5	2.5	0.0	0.0	0.0
4	13.0	9.5	11.0	12.0	10.5	11.0	1.5	1.5	1.5	0.0	0.0	0.0
5	12.5	10.5	11.5	12.0	9.5	10.5	1.5	1.0	1.5	0.0	0.0	0.0
6	14.5	11.5	13.0	10.5	8.0	9.5	3.5	1.5	2.5	0.0	0.0	0.0
7	14.0	11.0	12.5	11.0	8.5	9.5	3.5	1.5	2.5	0.0	0.0	0.0
8	13.5	10.0	11.5	13.5	11.0	12.0	1.5	0.5	0.5	0.0	0.0	0.0
9	12.0	11.0	11.5	13.5	12.0	12.5	3.0	0.5	1.5	0.0	0.0	0.0
10	11.5	11.0	11.0	13.5	12.0	13.0	3.5	3.0	3.5	0.0	0.0	0.0
11	12.0	11.0	11.5	12.0	9.0	10.0	3.5	2.5	3.0	0.0	0.0	0.0
12	11.0	10.5	10.5	8.5	7.0	7.5	2.5	2.5	2.5	0.0	0.0	0.0
13	12.0	10.5	11.5	8.0	7.0	7.5	2.5	2.5	2.5	0.0	0.0	0.0
14	14.0	12.0	12.5	8.0	5.0	6.5	4.0	2.5	3.5	---	---	---
15	15.5	13.0	14.0	5.0	4.5	5.0	5.0	4.0	4.5	---	---	---
16	14.5	12.5	13.5	5.0	5.0	5.0	5.0	2.5	4.0	---	---	---
17	12.0	11.0	11.5	6.0	5.0	5.5	2.5	2.0	2.0	---	---	---
18	11.0	10.5	11.0	7.5	6.0	6.5	2.0	0.0	1.0	---	---	---
19	11.0	10.5	11.0	8.5	7.5	8.0	0.0	0.0	0.0	---	---	---
20	10.5	10.5	10.5	8.5	8.0	8.5	0.0	0.0	0.0	---	---	---
21	11.0	9.5	10.5	8.0	8.0	8.0	0.0	0.0	0.0	---	---	---
22	12.5	10.5	11.5	8.0	5.5	6.5	0.0	0.0	0.0	---	---	---
23	12.0	10.0	11.0	5.5	4.5	4.5	0.0	0.0	0.0	---	---	---
24	12.5	11.0	11.5	4.5	3.5	4.0	0.0	0.0	0.0	---	---	---
25	13.5	12.5	13.0	3.5	3.5	3.5	0.0	0.0	0.0	---	---	---
26	13.0	10.5	12.0	4.5	3.5	4.0	0.0	0.0	0.0	---	---	---
27	10.5	9.0	10.0	4.5	4.5	4.5	0.0	0.0	0.0	---	---	---
28	10.5	9.0	10.0	4.5	4.5	4.5	0.0	0.0	0.0	---	---	---
29	11.0	10.0	10.5	4.5	4.0	4.0	0.0	0.0	0.0	---	---	---
30	10.5	6.0	8.5	6.5	4.0	5.0	0.0	0.0	0.0	---	---	---
31	6.0	4.0	5.0	---	---	---	0.0	0.0	0.0	---	---	---
MONTH	15.5	4.0	11.5	13.5	3.5	7.5	7.0	0.0	1.5	---	---	---

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	9.0	8.0	8.5
2							---	---	---	11.0	8.5	9.5
3							---	---	---	9.5	8.0	8.5
4							---	---	---	8.0	6.5	7.0
5							---	---	---	10.5	5.5	8.0
6							---	---	---	11.5	9.0	10.5
7							---	---	---	11.5	10.0	11.0
8							---	---	---	11.5	8.5	10.0
9							---	---	---	11.5	8.0	10.0
10							---	---	---	14.5	9.0	12.0
11							---	---	---	13.0	12.0	12.5
12							---	---	---	12.0	9.0	11.0
13							---	---	---	13.5	8.0	11.0
14							---	---	---	14.5	11.0	13.0
15							---	---	---	18.5	13.5	16.0
16							---	---	---	17.0	15.5	16.0
17							---	---	---	17.0	14.5	15.5
18							---	---	---	15.5	11.0	14.0
19							---	---	---	11.0	7.5	9.0
20							---	---	---	9.5	7.5	8.5
21							---	---	---	11.5	8.5	10.0
22							---	---	---	10.0	9.0	9.5
23							---	---	---	11.0	8.0	9.5
24							13.5	10.5	11.5	13.0	9.0	11.0
25							10.5	8.5	9.5	12.0	10.5	11.5
26							8.5	6.5	7.5	12.5	10.5	11.5
27							6.5	5.5	6.0	15.5	11.0	13.0
28							6.5	5.0	6.0	17.5	12.0	15.0
29							7.5	6.0	7.0	17.0	14.0	15.5
30							11.0	6.0	8.5	16.0	15.0	15.5
31							---	---	---	16.5	15.0	16.0
MONTH							---	---	---	18.5	5.5	11.5
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.5	16.0	20.5	17.5	19.0	21.5	16.5	19.0	20.0	15.5	17.5
2	18.0	14.5	16.0	21.0	9.0	18.0	22.5	17.0	20.0	20.0	16.5	18.0
3	20.0	14.5	17.5	21.5	17.5	19.5	23.5	17.5	20.5	19.5	17.5	18.5
4	20.5	15.5	18.5	21.0	15.0	19.0	23.5	19.0	21.5	19.5	15.5	17.5
5	22.5	16.0	19.0	23.0	18.0	21.0	22.0	20.0	21.0	19.5	15.0	17.0
6	19.0	14.5	16.0	25.0	20.5	22.5	19.5	17.5	18.5	22.0	17.0	19.0
7	18.5	13.5	16.0	21.5	18.0	20.0	18.0	17.0	17.5	23.0	19.0	21.0
8	22.5	16.5	19.5	19.5	8.5	18.0	17.5	16.5	17.0	22.0	18.5	20.0
9	24.0	18.5	21.5	23.5	19.0	21.0	17.5	16.5	17.0	18.0	15.5	16.0
10	25.5	20.5	23.0	24.5	20.5	22.5	21.0	16.0	18.5	19.5	14.0	16.5
11	24.5	21.5	23.0	25.0	21.0	23.0	20.5	18.0	19.5	21.5	17.0	19.0
12	25.0	20.0	22.5	21.5	17.5	19.0	21.5	18.5	20.0	21.5	18.0	20.0
13	21.5	18.5	19.5	18.0	17.0	17.5	22.0	18.5	20.5	---	---	---
14	23.0	18.0	20.5	21.5	17.0	18.5	21.0	18.0	19.5	---	---	---
15	26.5	21.0	24.0	23.5	20.0	21.5	19.0	16.0	18.0	---	---	---
16	26.0	23.0	24.5	21.0	17.5	19.0	21.5	16.0	19.0	20.0	19.0	19.5
17	25.5	22.5	23.5	20.0	16.5	18.5	22.5	18.0	20.0	21.0	18.5	19.5
18	25.5	21.0	23.5	22.0	17.0	19.0	23.0	18.5	21.0	20.0	18.5	19.0
19	27.0	23.0	24.5	23.5	19.0	21.0	24.0	19.0	22.0	21.5	18.0	19.5
20	25.0	21.0	23.5	23.5	20.5	21.5	25.5	21.0	23.5	19.5	18.0	18.5
21	22.5	20.0	21.0	24.5	18.0	20.5	26.5	22.0	24.5	18.5	16.5	17.5
22	24.0	20.0	22.0	24.5	19.0	21.0	25.5	21.5	23.5	16.5	14.5	15.5
23	24.0	21.0	22.5	23.0	18.0	19.5	25.5	20.5	23.0	14.5	13.0	13.5
24	24.5	21.0	23.0	23.0	18.5	21.0	25.5	21.5	23.5	16.5	12.0	14.0
25	24.5	21.5	23.0	23.0	17.5	20.5	24.5	20.0	22.0	16.5	12.5	14.5
26	26.0	21.0	23.5	22.5	19.0	21.0	21.0	19.5	20.0	14.0	12.5	13.0
27	26.0	21.5	23.5	25.5	20.0	22.5	23.5	20.5	21.5	14.0	13.5	13.5
28	25.5	21.0	23.5	24.0	20.0	21.5	23.5	16.5	19.5	14.0	12.0	13.5
29	25.5	21.5	23.5	20.0	18.0	19.0	20.0	15.0	17.0	14.5	11.0	12.5
30	21.5	7.0	18.5	23.0	18.5	20.5	19.5	16.0	18.0	13.0	11.5	12.0
31	---	---	---	22.0	19.0	20.5	19.5	18.0	19.0	---	---	---
MONTH	27.0	7.0	21.0	25.5	8.5	20.0	26.5	15.0	20.0	23.0	11.0	17.0

DELAWARE RIVER BASIN

01423000 WEST BRANCH DELAWARE RIVER AT WALTON, NY

LOCATION.--Lat 42°09'58", long 75°08'26", Delaware County, Hydrologic Unit 02040101, on left bank at west end of fairgrounds at Walton, and 100 ft (30 m) downstream from West Brook.

DRAINAGE AREA.--331 mi² (856 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,190.30 ft(362.803 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--26 years, 578 ft³/s (16.37 m³/s), 23.72 in/yr (602.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s (447 m³/s) Mar. 5, 1964, gage height, 13.66 ft (4.164 m); minimum, 12 ft³/s (0.34 m³/s) Sept. 15, Nov. 22, 1964; minimum gage height, 1.86 ft (0.567 m) Nov. 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,600 ft³/s (130 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	1630	8,860 251	10.87 3.313	Feb. 22	1700	6,790 192	9.83 2.996
Jan. 27	1430	*13,600 385	*12.85 3.917	July 1	0230	7,220 204	10.05 3.063
Feb. 19	0745	6,050 171	9.43 2.874				

Minimum discharge, 78 ft³/s (2.21 m³/s) Sept. 23, gage height, 2.74 ft (0.835 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	756	395	866	509	1350	1260	2050	1250	448	5140	321	172
2	655	368	801	399	1920	1170	1980	1730	455	2100	278	179
3	566	368	681	360	1100	1310	1610	1460	372	1670	204	167
4	478	378	612	330	920	1940	1340	1510	321	1160	172	151
5	416	343	557	300	850	2210	1100	1180	281	896	153	142
6	378	306	598	270	760	1900	939	1020	315	712	144	134
7	339	284	626	340	660	1600	801	946	761	598	365	124
8	306	352	486	320	580	1320	691	878	470	575	570	118
9	281	330	482	310	450	1040	612	707	349	518	1610	111
10	260	339	579	330	380	965	539	617	309	423	1680	124
11	257	437	535	350	380	884	518	548	281	368	1190	138
12	321	430	455	330	380	707	467	830	339	378	818	142
13	281	1150	426	340	390	790	434	621	281	405	707	122
14	405	1290	423	533	410	756	392	514	245	426	984	106
15	346	1170	423	610	436	621	362	482	228	382	784	99
16	324	1100	441	470	688	548	1720	444	217	416	702	97
17	300	1080	382	420	4500	493	1220	505	455	712	553	118
18	5860	1060	349	390	3340	474	990	501	321	444	467	128
19	5680	1020	242	370	5440	531	866	723	245	368	402	118
20	3390	946	294	340	3560	830	750	2060	248	324	362	106
21	2210	1490	343	330	2400	990	665	2490	660	306	321	104
22	1620	1770	310	310	4990	1370	603	1960	526	336	287	101
23	1240	1270	260	300	3940	1050	561	1590	470	275	257	94
24	1000	1120	280	310	2430	977	493	1270	946	263	231	86
25	860	990	300	320	1970	872	665	1040	702	231	209	82
26	818	854	497	884	1670	773	2640	878	584	201	309	94
27	670	1030	1060	11000	1640	718	1990	790	467	189	452	297
28	589	1060	670	6310	1550	1260	2040	636	416	181	291	226
29	531	784	548	3040	1340	896	1750	539	482	186	248	167
30	482	718	505	2010	---	807	1390	497	1890	251	215	138
31	430	---	548	1430	---	739	---	463	---	201	189	---
TOTAL	32049	24232	15579	33865	50424	31801	32178	30679	14084	20635	15475	3985
MEAN	1034	808	503	1092	1739	1026	1073	990	469	666	499	133
MAX	5860	1770	1060	11000	5440	2210	2640	2490	1890	5140	1680	297
MIN	257	284	242	270	380	474	362	444	217	181	144	82
CFSM	3.12	2.44	1.52	3.30	5.25	3.10	3.24	2.99	1.42	2.01	1.51	.40
IN.	3.60	2.72	1.75	3.81	5.67	3.57	3.62	3.45	1.58	2.32	1.74	.45

CAL YR 1975	TOTAL	259843	MEAN 712	MAX 8840	MIN 70	CFSM 2.15	IN 29.20
WTR YR 1976	TOTAL	304986	MEAN 833	MAX 11000	MIN 82	CFSM 2.52	IN 34.28

DELAWARE RIVER BASIN

183

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, Hydrologic Unit 02040101, on right bank at Stilesville, 0.5 mi (0.8 km) upstream from Cold Spring Creek, 1.4 mi (2.3 km) downstream from Cannonsville Dam, and 2.0 mi (3.2 km) northeast of Deposit. Water-quality sampling site at discharge station.

DRAINAGE AREA.--456 mi² (1,181 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 992.23 ft (302.432 m) above mean sea level (levels by Board of Water Supply, City of New York). Prior to Oct. 1, 1964, at site 600 ft (183 m) downstream at datum 1.37 ft (0.418 m) higher.

REMARKS.--Records fair above 100 ft³/s (2.83 m³/s), poor below. Subsequent to October 1963, entire flow 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation releases and spill) impounded for release during period of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft³/s (496 m³/s) Jan. 22, 1959, gage height, 9.01 ft (2.746 m), site and datum then in use; minimum daily 7.2 ft³/s (0.20 m³/s) Feb. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,920 ft³/s (253 m³/s) Jan. 28, gage height, 11.30 ft (3.444 m); minimum daily, 23 ft³/s (0.65 m³/s) Sept. 17; minimum gage height, 3.67 ft (1.119 m) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	645	1070	736	2320	2100	1370	1540	725	2650	78	83
2	1260	597	1090	662	2270	1880	2150	1620	683	3050	155	72
3	1070	560	1030	643	1880	1860	2190	1620	543	2550	207	436
4	926	546	970	623	1590	1900	2080	1800	409	2100	218	534
5	795	521	891	551	1430	2440	1780	1700	287	1660	216	450
6	685	486	842	471	1290	2570	1540	1550	218	1340	502	133
7	606	451	854	429	1150	2460	1340	1430	299	1120	200	225
8	536	455	793	450	1030	2230	1190	1310	331	982	136	396
9	483	463	736	429	970	1900	1040	1190	267	891	353	673
10	436	459	725	389	867	1630	935	1060	196	623	842	947
11	474	489	736	383	830	1450	842	959	145	486	1150	551
12	403	526	704	389	854	1260	770	970	109	673	1080	337
13	402	780	652	377	793	1150	693	970	67	595	947	623
14	430	1140	623	422	782	1110	633	891	44	486	970	251
15	448	1340	604	510	747	1020	586	805	128	502	970	99
16	443	1400	604	518	725	935	673	747	63	494	924	42
17	430	1400	568	518	1820	880	935	725	296	693	793	23
18	2280	1370	543	479	3430	770	747	725	736	736	662	500
19	6420	1350	471	429	4760	736	586	793	264	830	518	121
20	6570	1290	415	402	5250	805	457	1250	102	805	409	29
21	4800	1330	396	402	4240	947	337	2170	238	534	326	81
22	3490	1780	396	409	4380	1310	259	2400	389	422	270	164
23	2630	1770	396	383	5480	1420	214	2300	457	305	223	518
24	2070	1630	383	365	4440	1400	138	2050	577	320	173	982
25	1660	1480	348	348	3480	1320	109	1760	805	175	140	902
26	1410	1350	422	383	2860	1280	415	1470	902	121	207	518
27	1210	1250	643	3400	2570	1150	1090	1280	673	86	402	248
28	1050	1320	817	7730	2460	1310	1550	1120	510	251	162	38
29	939	1230	793	5900	2270	1370	1780	982	643	185	158	28
30	851	1110	770	4160	---	1280	1720	867	959	230	136	43
31	723	---	793	2970	---	1190	---	782	---	62	104	---
TOTAL	47420	30518	21078	36260	66968	45063	30149	40836	12065	25957	13631	10047
MEAN	1530	1017	680	1170	2309	1454	1005	1317	402	837	440	335
MAX	6570	1780	1090	7730	5480	2570	2190	2400	959	3050	1150	982
MIN	402	451	348	348	725	736	109	725	44	62	78	23

CAL YR 1975 TOTAL 336360 MEAN 922 MAX 7340 MIN 26
WTR YR 1976 TOTAL 379992 MEAN 1038 MAX 7730 MIN 23

DELAWARE RIVER BASIN

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1962 to current year.

REMARKS.--Unpublished chemical analyses for water years 1959, 1960 and 1970 are available in files of district office.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.5°C July 2, 1969; minimum, freezing point on many days during winter periods, except 1969 and 1973.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 23.5°C June 24; minimum, freezing point on Jan. 22, 23.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	14.0	14.5	11.5	11.0	11.0	8.0	6.0	6.5	3.5	2.5	3.0
2	14.5	14.5	14.5	12.0	11.0	11.5	7.0	6.0	6.5	3.5	2.5	3.0
3	14.5	14.0	14.0	12.0	11.5	11.5	7.0	6.5	6.5	3.5	2.5	3.0
4	14.0	13.5	14.0	12.0	10.5	11.5	6.5	6.0	6.5	3.5	2.5	3.0
5	14.0	14.0	14.0	11.5	10.5	11.0	6.5	6.0	6.5	2.5	1.5	2.5
6	14.5	13.5	14.0	12.0	10.5	11.0	7.0	6.5	6.5	3.0	1.5	2.0
7	14.5	13.5	14.0	12.0	10.5	11.0	6.5	6.0	6.0	2.5	1.5	2.0
8	14.5	13.5	14.0	12.0	11.0	11.5	6.5	5.5	6.0	2.0	0.5	1.0
9	14.0	14.0	14.0	12.5	11.0	11.5	6.5	6.0	6.0	1.0	0.5	0.5
10	14.0	14.0	14.0	12.5	10.5	12.0	6.5	6.0	6.0	1.5	0.5	1.0
11	14.0	11.0	12.5	11.0	10.0	10.5	6.0	5.5	6.0	1.0	0.5	1.0
12	13.5	13.5	13.5	11.0	10.0	10.5	6.0	5.5	5.5	1.5	1.0	1.5
13	13.5	13.5	13.5	11.0	10.5	10.5	5.5	5.5	5.5	2.0	0.5	1.5
14	13.5	13.5	13.5	10.5	9.5	10.0	6.5	5.5	6.0	2.0	1.0	1.5
15	14.0	13.5	14.0	10.0	9.5	9.5	6.5	5.5	6.0	1.5	1.0	1.0
16	14.5	13.5	14.0	9.5	9.5	9.5	6.0	5.0	5.5	2.0	1.0	1.5
17	14.5	13.5	14.0	10.0	9.5	9.5	5.5	5.0	5.5	1.5	0.5	1.0
18	14.0	13.5	14.0	10.0	9.5	10.0	5.5	4.0	4.5	1.0	0.5	0.5
19	14.0	13.5	13.5	10.0	10.0	10.0	4.5	4.0	4.0	1.0	0.5	1.0
20	13.5	13.0	13.0	10.0	9.5	10.0	4.0	3.5	4.0	2.0	1.0	1.5
21	13.0	12.5	12.5	10.0	9.5	9.5	4.5	4.0	4.0	2.0	1.0	1.5
22	13.0	12.5	13.0	9.5	8.0	9.0	4.0	3.5	4.0	1.0	0.0	0.5
23	13.5	13.0	13.0	9.0	8.5	8.5	4.0	3.5	4.0	1.0	0.0	0.5
24	13.5	13.0	13.5	9.0	8.5	8.5	4.0	3.0	3.5	1.0	0.5	1.0
25	14.0	13.5	13.5	8.5	8.5	8.5	3.5	3.0	3.0	2.0	1.0	1.5
26	13.5	13.0	13.5	8.5	8.0	8.5	4.5	3.0	4.0	2.5	1.5	2.0
27	13.5	13.0	13.0	8.5	8.0	8.0	4.5	4.0	4.0	2.5	2.0	2.5
28	13.5	12.5	13.0	8.0	7.5	8.0	4.0	3.5	4.0	2.5	2.5	2.5
29	13.0	13.0	13.0	8.0	7.5	7.5	4.0	3.5	3.5	2.5	2.0	2.5
30	12.5	11.5	12.0	8.0	7.5	8.0	4.0	3.5	3.5	2.0	2.0	2.0
31	12.0	11.0	11.5	---	---	---	4.0	3.5	4.0	2.0	1.5	2.0
MONTH	15.0	11.0	13.5	12.5	7.5	10.0	8.0	3.0	5.0	3.5	0.0	1.5

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.0	1.5	2.0	2.0	2.0	2.0	4.0	3.5	4.0	9.0	8.0	8.5
2	1.5	1.0	1.0	2.0	2.0	2.0	4.0	3.5	4.0	8.5	7.5	8.0
3	1.5	1.0	1.5	2.0	1.5	2.0	4.0	3.5	4.0	8.5	6.5	7.5
4	1.5	1.0	1.0	2.5	2.0	2.0	4.0	3.5	4.0	7.0	5.0	5.5
5	1.0	1.0	1.0	3.0	2.5	2.5	4.5	3.5	4.0	7.0	5.5	6.0
6	1.0	0.5	1.0	2.5	2.0	2.5	4.5	3.5	4.0	8.0	6.0	7.0
7	1.0	0.5	0.5	3.0	2.0	2.5	4.5	3.5	4.0	8.5	7.5	8.0
8	1.0	0.5	0.5	2.5	2.0	2.5	4.5	3.5	4.0	8.0	7.0	7.5
9	1.0	0.5	0.5	2.5	2.0	2.0	5.0	4.0	4.5	9.0	6.5	8.0
10	1.0	0.5	0.5	3.0	2.0	2.5	5.5	3.5	4.5	10.0	8.0	9.0
11	1.0	0.5	1.0	3.0	2.0	2.5	4.5	3.5	4.0	10.0	8.5	9.5
12	1.5	0.5	0.5	2.5	2.0	2.0	4.5	3.5	4.0	10.0	8.5	9.0
13	1.0	0.5	1.0	3.0	2.5	2.5	5.5	3.5	4.5	10.0	8.5	9.0
14	1.0	0.5	0.5	3.5	2.5	3.0	6.0	4.0	4.5	11.0	9.0	10.0
15	1.0	0.5	0.5	3.5	2.5	3.0	6.0	4.0	5.0	13.5	9.5	11.0
16	2.0	1.0	1.0	2.5	2.0	2.5	6.5	4.5	5.5	14.0	12.0	13.5
17	2.0	1.0	1.5	3.0	2.0	2.5	8.0	5.0	6.5	14.0	11.5	13.0
18	1.5	1.5	1.5	3.5	2.0	2.5	9.5	6.0	7.5	13.0	11.0	12.0
19	2.0	1.5	2.0	3.5	2.5	3.0	10.5	5.5	8.5	12.0	7.5	10.5
20	2.0	1.5	1.5	4.5	2.5	3.5	11.5	6.5	9.5	8.5	5.5	7.5
21	2.0	1.5	1.5	4.0	3.0	3.5	14.5	9.0	12.0	10.5	9.0	9.5
22	2.0	1.5	2.0	3.5	2.5	3.0	13.5	9.5	12.5	10.0	9.0	9.5
23	2.0	1.5	1.5	3.5	2.5	3.0	11.0	7.5	9.0	10.5	9.5	10.0
24	2.0	1.5	2.0	4.0	3.0	3.5	8.0	7.0	7.5	11.5	10.0	11.0
25	2.0	1.5	2.0	4.0	3.0	3.5	8.5	7.5	8.0	12.0	11.0	11.5
26	2.0	2.0	2.0	4.5	3.0	3.5	9.0	4.5	7.0	12.0	11.0	11.5
27	2.5	2.0	2.0	4.5	3.5	4.0	5.0	4.5	4.5	13.0	10.5	11.5
28	2.5	2.0	2.0	4.0	3.5	3.5	5.5	4.5	5.0	13.5	11.0	12.5
29	2.5	2.0	2.0	4.0	3.0	3.5	7.0	5.5	6.5	14.0	12.0	13.0
30	---	---	---	4.5	3.5	4.0	9.0	7.0	8.0	15.0	13.5	14.5
31	---	---	---	4.5	3.5	4.0	---	---	---	15.5	14.0	14.5
MONTH	2.5	0.5	1.5	4.5	1.5	3.0	14.5	3.5	6.0	15.5	5.0	10.0
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	14.0	14.5	22.5	17.0	20.5	16.0	12.0	14.0	16.5	12.0	14.5
2	16.5	14.5	15.5	21.0	19.0	20.5	19.5	14.5	17.0	14.5	11.0	12.0
3	17.5	14.5	16.0	21.5	20.5	21.0	21.0	17.0	18.5	10.0	6.5	7.5
4	19.0	15.5	17.0	22.5	21.0	22.0	21.0	17.0	19.0	8.5	6.5	7.0
5	20.0	16.0	18.0	22.0	20.0	20.5	21.5	18.0	19.5	7.5	6.5	7.0
6	17.5	15.0	16.0	11.5	18.5	19.5	19.5	8.0	10.5	13.0	6.0	9.5
7	16.5	13.5	14.5	18.5	17.0	18.0	11.0	6.5	8.5	11.5	6.0	8.5
8	19.0	14.5	17.0	17.0	15.5	16.5	17.5	11.5	15.0	11.5	6.5	8.0
9	19.5	16.5	18.0	17.0	15.5	16.0	20.5	17.0	18.5	9.0	7.0	7.5
10	20.0	17.0	18.5	22.5	14.5	18.5	20.5	20.5	20.5	7.5	6.5	7.0
11	18.5	15.5	17.0	22.0	19.5	20.5	22.0	20.0	21.0	8.0	6.5	7.0
12	19.0	11.0	15.0	20.5	14.0	17.5	21.5	20.5	21.0	9.0	6.5	7.5
13	17.0	11.5	13.5	17.0	12.5	15.0	21.5	20.5	21.0	8.5	6.5	7.5
14	16.0	11.0	13.5	18.5	17.5	17.5	21.5	20.5	21.0	9.0	7.0	7.5
15	14.0	8.0	11.0	21.0	17.5	19.0	21.5	20.5	21.0	9.0	6.5	8.0
16	15.0	11.5	13.5	20.0	19.0	19.5	21.0	19.5	20.0	10.0	9.0	9.5
17	14.5	10.5	12.0	20.0	19.0	19.5	21.5	19.5	20.5	15.0	9.5	12.0
18	11.0	9.0	10.5	20.0	18.5	19.5	22.0	15.0	20.5	11.5	6.5	7.5
19	13.0	8.5	9.5	20.0	15.5	18.0	22.5	20.0	21.0	14.0	6.5	10.0
20	16.0	13.0	14.5	16.0	14.0	15.0	22.5	19.5	20.5	11.5	9.5	10.5
21	20.5	16.0	18.0	19.5	14.0	16.5	22.5	19.5	21.0	11.0	7.0	9.0
22	22.0	19.5	20.5	21.5	13.5	19.0	23.0	21.0	22.0	8.5	6.5	7.5
23	22.0	20.0	21.0	20.5	19.0	19.5	22.0	20.0	21.0	7.5	6.5	6.5
24	23.5	21.0	22.0	20.5	11.5	17.5	22.0	19.5	20.5	8.0	6.5	7.0
25	21.0	15.5	18.5	19.5	9.5	15.5	20.5	17.5	19.5	8.0	6.5	7.0
26	17.0	16.0	16.5	20.0	15.5	17.5	20.0	7.0	12.0	7.5	7.0	7.0
27	21.5	15.5	18.0	19.0	14.0	16.0	13.5	7.5	11.0	9.0	7.0	7.5
28	23.0	20.0	21.5	15.5	7.0	11.5	19.0	12.5	16.0	11.5	8.0	9.5
29	23.0	16.0	20.0	10.5	6.5	7.5	19.0	16.0	17.0	13.5	6.5	9.5
30	19.5	15.5	16.5	11.0	6.5	8.5	16.0	13.0	14.5	9.5	8.0	8.5
31	---	---	---	16.5	9.5	12.5	17.0	12.5	14.5	---	---	---
MONTH	23.5	8.0	16.5	22.5	6.5	17.5	23.0	6.5	18.0	16.5	6.0	8.5

DELAWARE RIVER BASIN

01425642 BUTLER BROOK AT DEPOSIT, NY

LOCATION.--Lat 42°03'40", long 75°25'12", Delaware County, Hydrologic Unit 02040101, on left bank in Deposit, 100 ft (30 m) upstream from bridge on Front Street, 0.1 mi (0.2 km) west of State highway 10, and 0.3 mi (0.5 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--8.44 mi² (21.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1976 (no winter records).

GAGE.--Water-stage recorder. Altitude of gage is 985 ft (300 m), from topographic map.

REMARKS.--Records fair except those above 40 ft³/s (1.3 m³/s), which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 385 ft³/s (10.9 m³/s) June 30, 1976, gage height, 4.16 ft (1.268 m); minimum, 0.68 ft³/s (0.019 m³/s) Sept. 10, 1975, gage height, 0.64 ft (0.195 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 385 ft³/s (10.9 m³/s) June 30, gage height, 4.16 ft (1.268 m), minimum, 0.68 ft³/s (0.019 m³/s) Sept. 10, gage height, 0.64 ft (0.195 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	5.1				34	46	16	4.4	28	38	2.4
2	12	4.6				32	38	19	3.2	17	15	2.9
3	12	4.6				28	29	24	2.5	11	11	2.0
4	7.7	5.1				46	22	16	2.1	8.2	8.5	1.8
5	6.0	3.9				69	17	14	1.7	5.7	6.6	1.6
6	5.1	3.5				52	15	12	15	3.9	6.2	1.2
7	4.2	3.0				39	12	11	23	3.2	43	.98
8	3.4	4.6				28	11	8.2	9.1	3.7	23	.92
9	3.2	3.2				20	9.1	6.6	6.6	3.2	22	.80
10	3.0	7.2				19	8.0	5.4	4.9	2.2	40	2.9
11	4.9	5.1				17	8.2	6.6	4.1	18	21	2.4
12	5.7	28				13	6.6	11	3.5	17	17	2.7
13	3.4	43				17	5.7	5.9	2.9	14	27	1.4
14	5.4	37				14	4.9	5.1	2.7	18	25	1.0
15	3.7	32				12	4.1	4.4	2.5	11	33	.98
16	3.7	29				10	5.9	3.9	3.2	29	24	1.5
17	4.7	25				9.4	4.4	6.9	6.6	32	17	7.5
18	320	21				9.7	3.2	7.7	2.3	17	14	8.5
19	310	19				12	2.9	31	1.9	12	10	6.9
20	100	17				23	2.7	41	2.1	8.8	8.2	3.2
21	45	49				30	2.3	35	5.9	7.7	6.6	3.0
22	31	28				36	2.3	23	2.7	6.0	4.6	2.1
23	21	22				27	2.2	17	5.1	4.4	3.9	1.7
24	16	19				21	1.9	14	2.7	4.4	3.2	1.5
25	14	16				19	10	11	2.5	2.9	2.5	1.2
26	12	14				16	29	8.5	1.7	2.0	22	8.2
27	9.7	23				21	21	6.6	2.2	1.9	13	18
28	8.5	16				31	21	5.4	6.9	1.6	6.2	7.7
29	7.5	13				24	17	4.6	12	19	4.9	5.1
30	6.6	12				19	13	4.4	76	16	3.2	4.1
31	5.4	---				17	---	3.9	---	7.5	2.7	---
TOTAL	1008.8	512.9				765.1	375.4	389.1	222.0	336.3	482.3	106.18
MEAN	32.5	17.1				24.7	12.5	12.6	7.40	10.8	15.6	3.54
MAX	320	49				69	46	41	76	32	43	18
MIN	3.0	3.0				9.4	1.9	3.9	1.7	1.6	2.5	.80
CFSM	3.85	2.03				2.93	1.48	1.49	.88	1.28	1.85	.42
IN.	4.45	2.26				3.37	1.65	1.71	.98	1.48	2.13	.47

DELAWARE RIVER BASIN

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01425642 BUTLER BROOK AT DEPOSIT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to October 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	HARD- NESS (CA.MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
OCT 02...	0900	14	79	7.2	13.0	10.2	95	28	9	8.7	1.4	2.4

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
OCT 02...	1.6	22	0	18	9.4	3.9	.68	.21	.89	.03	.01

DELAWARE RIVER BASIN

01425675 OQUAGA CREEK NEAR NORTH SANFORD, NY

LOCATION.--Lat 42°10'28", long 75°26'25", Broome County, Hydrologic Unit 02040101, on left bank 20 ft (6 m) downstream from culvert on North Sanford Road, 0.2 mi (0.3 km) upstream from outlet of Stilson Pond, 1.5 mi (2.4 km) north of North Sanford, and 4.1 mi (6.6 km) upstream from Dry Brook. Water-quality sampling site at discharge station.

DRAINAGE AREA.--4.71 mi² (12.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to current year.

REVISED RECORDS.--WRD NY 1971: 1970.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,480 ft (451 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--7 years, 9.09 ft³/s (0.257 m³/s), 26.21 in/yr (665.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 218 ft³/s (6.17 m³/s) Nov. 9, 1972, gage height, 2.49 ft (0.759 m); maximum gage height, 2.71 ft (0.826 m) Feb. 14, 1971 (backwater from ice); minimum discharge, 0.08 ft³/s (0.002 m³/s) Oct. 2, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 120 ft³/s (3.4 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	1545	*148 4.19	*2.10 0.640	Feb. 22	1445	134 3.79	1.99 0.607

Minimum discharge, 0.35 ft³/s (0.010 m³/s) Oct. 8; minimum gage height, 0.34 ft (0.104 m) Oct. 29, Nov. 3, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.0	11	1.6	13	22	27	11	5.6	17	3.9	3.5
2	29	1.0	10	1.4	15	20	24	15	5.3	12	4.3	3.3
3	36	1.5	8.8	1.3	12	19	18	16	4.8	8.8	4.1	3.3
4	.92	1.2	8.0	1.2	11	25	14	16	4.6	8.0	3.7	3.1
5	.81	.90	7.6	1.1	9.5	45	12	13	4.1	6.9	3.3	3.1
6	.71	.90	8.0	1.3	8.8	36	11	11	4.8	6.4	3.1	3.1
7	.71	.90	9.3	1.1	8.1	24	9.3	9.8	12	6.1	3.5	3.1
8	.71	1.0	8.0	1.0	7.7	18	8.0	8.8	11	5.6	4.3	3.1
9	.62	.90	7.6	.90	7.4	14	7.6	7.6	7.3	5.0	4.6	3.1
10	.62	1.0	8.4	.80	7.0	12	6.9	6.9	6.7	4.6	6.1	3.3
11	.71	.90	8.0	.80	6.5	12	6.7	6.7	6.1	4.3	7.3	3.1
12	.81	2.0	7.6	.90	6.5	9.3	6.4	9.3	5.8	5.3	6.7	3.1
13	.71	3.1	40	1.0	6.5	9.3	6.1	8.4	5.0	6.7	6.4	3.1
14	.81	4.6	62	1.1	6.5	9.8	5.8	7.3	4.6	8.8	6.1	3.1
15	.81	7.6	60	1.0	6.1	8.8	5.3	6.9	4.1	8.4	8.0	3.1
16	.81	13	25	1.0	7.0	8.0	5.8	6.4	3.7	8.4	12	3.1
17	1.0	15	1.6	.90	50	7.6	6.1	6.4	3.5	15	8.8	3.3
18	11	16	1.6	.80	46	6.9	5.8	6.7	3.1	11	7.3	3.5
19	84	15	1.4	.80	72	6.9	5.6	11	3.0	8.0	6.4	3.3
20	69	13	1.4	.90	44	9.3	5.3	49	3.0	6.9	5.8	3.3
21	53	22	1.4	1.0	28	19	5.0	33	3.5	6.4	5.3	3.3
22	62	28	1.5	1.1	92	25	4.8	21	3.7	5.8	5.3	3.1
23	61	17	1.4	1.2	53	16	4.6	15	5.8	5.0	5.3	3.1
24	44	15	1.2	1.3	28	14	4.3	13	6.4	4.6	4.6	3.1
25	13	13	1.1	1.5	24	13	5.0	11	6.4	4.1	4.1	3.1
26	13	12	1.3	2.2	26	12	14	9.3	6.1	3.7	3.9	3.3
27	5.8	13	1.4	65	35	12	16	8.0	5.8	3.1	5.3	3.3
28	1.4	14	1.8	44	32	23	15	6.9	5.3	3.0	5.0	3.3
29	1.3	12	1.8	26	24	15	13	6.7	5.0	3.0	4.8	3.1
30	1.3	10	1.8	19	---	13	12	6.1	8.0	3.3	4.1	3.3
31	1.2	---	1.8	14	---	9.8	---	5.8	---	3.3	3.7	---
TOTAL	498.06	256.50	311.8	197.20	692.6	494.7	290.4	369.0	164.1	208.5	167.1	96.0
MEAN	16.1	8.55	10.1	6.36	23.9	16.0	9.68	11.9	5.47	6.73	5.39	3.20
MAX	84	28	62	65	92	45	27	49	12	17	12	3.5
MIN	.62	.90	1.1	.80	6.1	6.9	4.3	5.8	3.0	3.0	3.1	3.1
CFSM	3.42	1.82	2.14	1.35	5.07	3.40	2.06	2.53	1.16	1.43	1.14	.68
IN.	3.93	2.03	2.46	1.56	5.47	3.91	2.29	2.91	1.30	1.65	1.32	.76
CAL YR 1975	TOTAL	3688.85	MEAN	10.1	MAX	98	MIN	.28	CFSM	2.14	IN	29.13
WTR YR 1976	TOTAL	3745.96	MEAN	10.2	MAX	92	MIN	.62	CFSM	2.17	IN	29.58

DELAWARE RIVER BASIN

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01425675 OQUAGA CREEK NEAR NORTH SANFORD, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1971 to current year.

INSTRUMENTATION.--Temperature recorder since October 1971.

REMARKS.--No temperature record June 23 to July 30, Sept. 8-14, due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1972-75), 21.0°C June 30, July 1, 1971 and July 23, 24, 1972; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Minimum, freezing point on Jan. 11-17, 20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)
OCT 01...	1130	1.2	84	7.3	12.0	10.5	98	818
MAR 18...	1530	7.0	51	6.7	3.5	13.6	102	86
APR 08...	1030	8.0	49	6.9	4.0	13.0	101	82
MAY 05...	1130	13	51	6.2	9.0	11.1	100	826
JUN 07...	1830	14	51	6.0	13.5	10.2	100	36
JUL 08...	0900	5.5	63	6.7	16.0	9.8	101	810
AUG 25...	0930	4.8	71	7.5	15.0	9.0	92	50
SEP 21...	1600	3.7	71	7.8	15.5	9.4	94	810

DATE	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT 01...	80	30	4	10	1.3	1.4	.6	32	0
MAR 18...	82	17	10	4.5	1.5	2.0	.5	9	0
APR 08...	82	15	4	4.2	1.1	1.7	.4	14	0
MAY 05...	812	24	12	7.1	1.5	1.9	.3	15	0
JUN 07...	23	18	3	4.9	1.3	1.4	.3	18	0
JUL 08...	21	18	1	6.4	.6	2.0	.6	21	0
AUG 25...	46	25	6	7.2	1.6	2.0	.6	23	0
SEP 21...	50	25	5	6.9	1.9	2.3	.7	25	0

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

DELAWARE RIVER BASIN

01425675 OQUAGA CREEK NEAR NORTH SANFORD, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- VITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
OCT 01...	26	8.8	1.5	.07	.13	.20	.04	.02
MAR 18...	7	10	3.4	.19	.12	.31	.03	.01
APR 08...	11	8.6	2.3	.16	.08	.24	.01	.01
MAY 05...	12	8.1	3.0	.07	.15	.22	.03	.01
JUN 07...	15	12	2.4	.04	.30	.34	.02	.01
JUL 08...	17	7.8	2.8	.10	.35	.45	.04	.01
AUG 25...	19	6.2	2.1	.13	.30	.43	.04	.01
SEP 21...	21	10	3.4	.07	.25	.32	.04	.01

01425675 OQUAGA CREEK NEAR NORTH SANFORD, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	12.0	6.0	5.0	5.5	5.5	3.5	2.0	2.0	1.5	1.5	1.5
2	13.0	12.0	8.0	6.0	5.5	5.5	2.0	1.5	2.0	1.5	1.5	1.5
3	13.0	11.0	10.5	8.0	5.5	5.5	1.5	1.5	2.0	2.0	1.5	1.5
4	11.5	10.5	9.5	8.5	5.5	5.0	1.5	1.5	2.0	2.0	1.5	1.5
5	11.0	10.0	8.5	7.0	5.0	5.0	1.5	1.0	2.0	2.0	1.5	1.5
6	11.5	11.0	7.0	6.5	5.0	5.0	1.0	1.0	3.0	2.0	2.0	1.5
7	11.0	9.5	9.0	7.0	5.0	4.5	1.0	1.0	3.0	2.0	2.0	2.0
8	10.0	9.0	10.5	9.0	4.5	4.5	1.0	1.0	2.0	2.0	2.0	2.0
9	9.5	9.5	10.0	9.0	4.5	4.5	1.0	0.5	3.0	2.0	2.0	2.0
10	9.5	9.5	10.5	9.5	4.5	4.5	0.5	0.5	3.0	3.0	3.0	2.0
11	9.5	9.0	9.5	7.0	4.5	4.5	1.0	0.0	3.0	3.0	3.0	3.0
12	9.5	9.0	8.0	6.5	4.5	4.5	0.0	0.0	3.5	3.0	3.0	3.0
13	9.0	8.5	8.0	7.0	4.5	4.5	0.0	0.0	3.5	3.5	3.0	3.0
14	9.5	9.0	7.0	6.5	4.5	4.5	0.5	0.0	3.5	3.5	3.0	3.0
15	9.5	8.0	6.5	6.5	4.5	4.5	0.5	0.0	3.5	3.0	3.0	3.0
16	9.0	8.0	6.5	6.5	5.5	4.0	0.0	0.0	3.5	3.5	3.0	3.0
17	8.0	7.0	6.5	6.0	4.0	4.0	0.5	0.0	3.5	2.0	3.0	3.0
18	8.0	7.0	6.0	6.0	4.0	4.0	0.5	0.5	2.0	2.0	3.0	3.0
19	8.0	8.0	6.0	6.0	4.0	4.0	0.5	0.5	2.0	1.5	3.0	3.0
20	8.5	8.0	6.0	6.0	4.0	3.5	0.5	0.0	1.5	1.5	3.5	3.0
21	8.5	8.5	6.5	6.0	3.5	3.0	1.0	0.5	1.5	1.5	3.5	3.5
22	8.5	8.5	6.5	6.5	3.0	3.0	1.0	0.5	1.5	1.5	3.5	3.5
23	8.5	8.5	6.5	6.0	3.0	3.0	0.5	0.5	1.5	1.5	3.5	3.5
24	9.0	8.5	6.0	6.0	3.0	2.0	0.5	0.5	1.5	1.5	3.5	3.5
25	9.0	9.0	6.0	6.0	2.0	2.0	1.0	0.5	1.5	1.5	3.5	3.5
26	9.5	8.0	6.0	6.0	2.0	1.5	1.0	1.0	1.5	1.5	3.5	3.5
27	8.0	7.0	6.0	5.5	1.5	1.5	1.0	1.0	1.5	1.5	4.0	3.5
28	8.0	8.0	5.5	5.5	1.5	1.5	1.0	1.0	1.5	1.5	4.0	4.0
29	8.0	8.0	5.5	5.5	1.5	1.5	1.5	1.0	1.5	1.5	4.0	4.0
30	8.0	5.5	5.5	5.5	1.5	1.5	1.5	1.5	---	---	4.0	4.0
31	5.5	5.0	---	---	3.5	1.5	1.5	1.5	---	---	4.0	4.0
MONTH	13.0	5.0	10.5	5.0	5.5	1.5	3.5	0.0	3.5	1.5	4.0	1.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.0	4.0	9.0	9.0	10.5	10.5	---	---	15.5	15.0	15.0	14.5
2	4.0	4.0	9.5	9.0	11.0	10.5	---	---	15.0	14.5	15.0	14.5
3	4.0	3.5	9.5	9.5	11.0	10.5	---	---	15.0	15.0	14.5	14.0
4	4.0	3.5	9.5	9.5	11.0	10.5	---	---	15.0	14.5	14.5	14.0
5	4.0	4.0	9.5	9.5	11.5	11.0	---	---	15.0	14.5	14.5	14.0
6	4.0	4.0	9.5	9.5	11.5	11.0	---	---	15.5	15.0	14.0	14.0
7	4.0	4.0	9.5	9.0	13.5	11.5	---	---	15.5	15.0	14.0	13.5
8	4.0	4.0	9.0	9.0	13.5	13.5	---	---	15.0	15.0	---	---
9	5.0	4.0	9.0	8.5	13.5	13.0	---	---	15.5	15.0	---	---
10	5.0	4.5	9.0	8.5	13.0	12.0	---	---	15.5	15.5	---	---
11	5.0	4.5	9.0	9.0	13.0	12.0	---	---	16.0	15.5	---	---
12	4.5	4.5	9.0	9.0	13.0	12.0	---	---	16.0	16.0	---	---
13	5.0	4.5	9.5	9.0	12.0	12.0	---	---	16.5	16.0	---	---
14	6.0	4.5	9.5	9.5	12.0	12.0	---	---	16.5	16.5	---	---
15	6.0	5.5	10.0	9.5	13.0	12.0	---	---	16.5	16.5	16.5	16.5
16	6.0	5.5	10.0	10.0	13.0	12.0	---	---	17.0	16.5	16.5	16.5
17	6.5	6.0	10.0	10.0	13.0	12.0	---	---	17.0	17.0	17.0	16.5
18	7.0	6.0	10.0	10.0	13.0	12.0	---	---	17.0	17.0	16.5	16.0
19	8.0	6.5	10.0	9.5	13.0	12.0	---	---	17.0	17.0	16.5	16.0
20	8.0	7.0	10.0	9.5	13.0	13.0	---	---	17.0	17.0	15.5	15.5
21	8.5	7.0	10.0	10.0	13.0	12.0	---	---	17.0	17.0	15.5	15.5
22	8.0	8.0	10.0	10.0	13.0	12.0	---	---	17.0	16.5	15.5	15.0
23	8.0	7.0	10.0	10.0	---	---	---	---	16.5	16.5	15.0	14.0
24	8.0	7.0	10.0	10.0	---	---	---	---	16.5	15.5	14.0	13.5
25	8.0	8.0	10.0	10.0	---	---	---	---	15.5	15.0	13.5	13.0
26	8.0	8.0	10.0	10.0	---	---	---	---	16.0	15.0	13.5	13.0
27	8.0	8.0	10.0	9.5	---	---	---	---	15.5	15.5	13.0	13.0
28	8.0	8.0	10.0	9.5	---	---	---	---	15.5	15.5	13.0	12.0
29	8.0	8.0	10.5	10.0	---	---	---	---	15.5	15.0	12.0	12.0
30	9.0	8.0	10.5	10.5	---	---	---	---	15.0	14.5	12.0	11.5
31	---	---	10.5	10.5	---	---	15.5	14.5	14.5	14.0	---	---
MONTH	9.0	3.5	10.5	8.5	---	---	---	---	17.0	14.0	---	---

DELAWARE RIVER BASIN

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, NY

LOCATION.--42°00'11", long 75°23'02", Delaware County, Hydrologic Unit 02040101, on left bank at downstream side of bridge on County Highway 56 in Hale Eddy, and 9 mi (14 km) upstream from confluence of East and West Branches near Hancock. Water-quality sampling site at discharge station.

DRAINAGE AREA.--593 mi² (1,536 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1912 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 871: 1916.

GAGE.--Water-stage recorder. Datum of gage is 946.46 ft (288.481 m) above mean sea level. Prior to Sept. 8, 1928, nonrecording gage.

REMARKS.--Records fair. Subsequent to October 1963, entire flow from 454 mi² (1,176 km²) drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,900 ft³/s (818 m³/s) Mar. 22, 1948, gage height, 15.69 ft (4.782 m); maximum gage height, 15.8 ft (4.82 m) Sept. 30, 1924, from graph based on gage readings; minimum discharge, 17 ft³/s (0.48 m³/s) Oct. 20, 1963; minimum gage height, 1.03 ft (0.314 m) Aug. 4, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, about 46,000 ft³/s (1,300 m³/s) Oct. 10, 1903, gage height, 20.3 ft (6.19 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,900 ft³/s (337 m³/s) Oct. 19, gage height, 11.04 ft (3.365 m); minimum, 79 ft³/s (2.24 m³/s) Sept. 16, gage height, 1.52 ft (0.463 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1940	856	1480	958	2870	2910	2410	1900	885	3250	678	116
2	1680	787	1450	850	2810	2650	2900	2100	844	3530	494	109
3	1470	748	1360	850	2340	2580	2820	2140	688	2940	446	480
4	1230	732	1260	821	2020	2810	2570	2230	540	2390	384	605
5	1050	694	1160	726	1820	3680	2220	2090	389	1930	347	504
6	921	646	1120	641	1660	3780	1930	1910	327	1580	610	176
7	815	605	1160	610	1510	3390	1690	1760	891	1330	715	236
8	732	605	1060	580	1350	2920	1490	1610	605	1160	519	368
9	667	600	995	620	1250	2440	1320	1440	456	1050	715	710
10	610	615	1030	580	1150	2120	1170	1280	331	793	1450	1000
11	651	646	1010	540	1100	1900	1070	1150	246	620	1660	662
12	620	808	951	540	1100	1640	982	1270	197	1010	1490	406
13	580	1480	897	560	1060	1540	891	1180	149	945	1340	610
14	688	1780	897	600	1060	1470	815	1080	107	838	1380	827
15	667	1910	879	700	1020	1350	754	989	162	776	1440	188
16	656	1930	879	760	1020	1230	821	915	113	759	1420	86
17	625	1930	787	700	3330	1140	1120	927	415	1290	1150	143
18	5240	1850	732	660	4830	1020	921	939	699	1080	958	415
19	9520	1790	625	620	6720	1010	743	1250	485	1080	770	499
20	8880	1700	560	580	6650	1110	600	2290	141	1050	620	125
21	6080	2030	565	580	5220	1150	470	2880	339	776	494	133
22	4420	2470	555	580	6910	1150	363	2950	494	605	397	125
23	3360	2350	555	560	7070	1150	297	2720	590	461	312	509
24	2630	2140	524	540	5450	1440	206	2400	683	406	246	970
25	2120	1930	524	520	4370	1790	226	2070	891	312	191	1060
26	1800	1750	625	800	3790	1670	951	1750	1030	179	319	838
27	1570	1730	958	4000	3760	1540	1530	1540	838	141	610	667
28	1360	1760	1060	8770	3660	2100	1990	1350	651	203	243	233
29	1200	1620	1020	6780	3210	1890	2180	1170	885	419	223	138
30	1090	1470	995	4840	---	1740	2060	1030	1730	641	176	116
31	945	---	1010	3570	---	1590	---	939	---	240	130	---
TOTAL	65817	41962	28683	45036	90110	60300	39510	51249	16801	33784	21927	13054
MEAN	2123	1399	925	1453	3107	1945	1317	1653	560	1090	707	435
MAX	9520	2470	1480	8770	7070	3780	2900	2950	1730	3530	1660	1060
MIN	580	600	524	520	1020	1010	206	915	107	141	130	86
CAL YR 1975	TOTAL	468622	MEAN	1284	MAX	9520	MIN	59				
WTR YR 1976	TOTAL	508233	MEAN	1389	MAX	9520	MIN	86				

DELAWARE RIVER BASIN

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01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1970 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to current year (no record for many winter months each year).

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--No record Nov. 8 to Apr. 7, due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.5°C July 22, 23, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.0°C June 16.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	14.5	10.0	8.0								
2	15.0	14.5	11.0	9.5								
3	15.0	12.0	12.0	10.5								
4	15.5	11.5	12.0	9.0								
5	15.0	13.0	12.0	8.5								
6	16.0	13.0	11.5	8.0								
7	16.0	11.5	11.0	8.0								
8	16.0	11.0	---	---								
9	14.0	12.0	---	---								
10	13.0	12.0	---	---								
11	13.0	11.0	---	---								
12	13.0	11.5	---	---								
13	14.0	11.5	---	---								
14	15.5	12.0	---	---								
15	16.5	13.5	---	---								
16	15.0	13.0	---	---								
17	14.0	11.0	---	---								
18	13.5	10.5	---	---								
19	13.5	12.0	---	---								
20	12.0	11.5	---	---								
21	13.0	11.0	---	---								
22	13.5	11.5	---	---								
23	13.5	11.5	---	---								
24	13.5	12.0	---	---								
25	14.0	10.0	---	---								
26	13.0	12.0	---	---								
27	13.5	11.0	---	---								
28	13.5	11.0	---	---								
29	12.0	11.5	---	---								
30	11.5	8.0	---	---								
31	11.0	8.0	---	---								
MONTH	16.5	8.0	---	---								

DELAWARE RIVER BASIN

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.5	8.5	16.0	14.5	20.5	16.0	19.5	17.0	19.0	18.0
2	---	---	10.5	8.5	19.0	14.0	20.0	16.0	19.5	16.5	19.0	18.0
3	---	---	9.5	7.0	20.5	14.0	20.5	18.5	20.0	18.0	18.0	14.5
4	---	---	7.0	6.0	21.0	14.5	20.5	18.5	21.0	19.0	14.5	10.5
5	---	---	10.0	5.0	23.0	15.5	21.5	18.5	21.0	20.0	13.0	11.0
6	---	---	10.5	6.5	20.0	14.5	22.0	19.0	21.0	16.0	13.5	10.5
7	---	---	10.0	8.0	19.5	13.0	19.5	18.0	18.0	13.5	14.5	11.5
8	6.5	4.0	11.0	7.0	22.0	14.5	18.5	16.5	18.0	16.5	15.0	13.5
9	8.0	3.5	11.5	7.0	24.0	16.0	20.5	15.5	20.5	18.0	14.0	9.5
10	9.0	3.5	14.0	7.0	25.0	18.5	23.0	15.0	20.5	20.0	11.0	8.5
11	5.5	3.5	11.5	9.5	24.0	19.5	25.0	19.5	22.0	20.0	11.5	8.0
12	7.0	2.0	10.5	9.0	24.5	18.5	22.0	15.0	21.5	20.5	12.0	9.0
13	9.5	3.0	13.5	8.0	20.0	16.5	16.0	13.5	23.5	20.0	13.5	8.5
14	10.5	4.0	14.0	9.0	24.5	15.5	18.5	16.0	21.5	20.5	16.0	8.5
15	9.0	4.5	15.5	10.5	24.0	20.0	23.5	16.0	22.0	20.5	14.5	11.5
16	10.0	6.0	15.0	12.0	26.0	20.5	20.0	18.5	21.0	20.0	13.5	13.0
17	12.0	6.0	16.5	13.5	23.0	15.0	21.5	18.0	21.5	19.5	14.5	13.0
18	14.0	6.5	13.5	10.5	15.0	9.5	21.0	16.5	23.0	19.5	16.0	9.0
19	16.0	8.0	10.5	8.5	19.0	8.5	21.5	16.5	21.5	19.5	15.0	8.5
20	16.0	8.0	10.0	7.0	21.5	18.5	20.0	15.0	22.0	20.0	13.5	13.0
21	16.5	14.5	11.5	8.5	23.0	19.0	18.5	14.5	22.0	20.5	13.5	12.0
22	16.0	12.0	10.5	9.5	24.5	20.5	24.0	17.0	22.0	21.0	13.0	11.0
23	16.0	11.5	11.5	9.5	24.0	20.5	21.0	18.5	22.0	21.0	11.0	6.5
24	12.0	9.0	13.0	10.0	25.5	21.0	24.5	18.5	22.0	21.0	9.0	5.0
25	9.0	7.0	12.0	11.0	24.0	16.5	21.5	13.5	21.5	20.5	10.5	5.5
26	7.0	6.0	13.5	11.0	21.0	16.0	24.0	15.5	21.5	20.0	12.0	6.0
27	6.0	5.0	15.0	10.5	21.5	16.0	23.5	18.5	21.0	15.0	13.0	8.0
28	6.5	5.0	16.0	11.0	25.0	19.5	25.0	19.5	20.0	17.0	11.5	10.5
29	8.0	5.5	16.0	11.5	25.0	19.5	20.0	13.5	21.0	20.0	12.0	11.0
30	11.0	6.5	15.5	13.0	20.0	16.5	18.0	15.5	20.5	19.0	11.5	11.0
31	---	---	16.5	14.5	---	---	19.0	16.5	19.0	18.0	---	---
MONTH	---	---	16.5	5.0	26.0	8.5	25.0	13.5	23.5	13.5	19.0	5.0

DELAWARE RIVER BASIN

195

01427207 DELAWARE RIVER AT LORDVILLE, NY

LOCATION.--Lat 41°52'05", long 75°12'50", Delaware County, Hydrologic Unit 02040101, at Lordville-Equinunk Interstate Bridge at Lordville, 50 ft (15 m) downstream from Humphries Brook, and 6.5 mi (10.4 km) southeast of Hancock.

DRAINAGE AREA.--1,587 mi² (4,110 km²).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to August 1971, June 1973 to current year.

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1968-70, 73, 75, 76) 30.5°C June 16, 1976; minimum (water years 1968-71, 74), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 30.5°C June 16, 29.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.0	5.5	6.0	7.0	5.0	6.5			
2	---	---	---	9.0	7.0	8.0	5.0	3.0	3.5			
3	---	---	---	11.0	9.0	10.0	3.0	2.0	2.5			
4	---	---	---	12.5	11.0	11.5	2.5	1.5	2.0			
5	---	---	---	11.0	9.5	10.5	2.0	1.5	2.0			
6	---	---	---	10.0	8.5	9.5	3.5	2.0	3.0			
7	---	---	---	10.5	9.0	9.5	3.5	2.0	3.0			
8	---	---	---	12.5	10.5	12.0	2.0	1.0	1.5			
9	---	---	---	13.0	12.0	12.5	2.5	1.5	2.0			
10	---	---	---	13.0	12.0	12.5	3.5	2.5	3.0			
11	---	---	---	12.0	9.0	10.5	3.5	3.0	3.0			
12	---	---	---	9.0	7.0	7.5	3.0	2.5	2.5			
13	---	---	---	8.0	7.0	7.5	2.5	2.0	2.0			
14	---	---	---	7.5	5.0	6.5	3.5	2.0	3.0			
15	---	---	---	6.0	5.0	5.5	4.5	3.5	4.0			
16	---	---	---	6.0	5.0	5.5	4.5	3.0	4.0			
17	13.5	12.0	12.5	7.0	5.5	6.0	---	---	---			
18	11.5	10.5	11.0	7.5	6.5	7.0	---	---	---			
19	11.5	11.0	11.0	9.0	7.5	8.5	---	---	---			
20	11.5	11.0	11.0	8.5	8.0	8.5	---	---	---			
21	12.0	10.5	11.0	8.0	8.0	8.0	---	---	---			
22	13.0	11.0	12.0	8.0	6.0	6.5	---	---	---			
23	12.5	11.0	11.5	6.0	5.0	5.5	---	---	---			
24	13.0	12.0	12.5	5.5	4.5	5.0	---	---	---			
25	13.5	12.5	13.0	5.0	4.0	4.5	---	---	---			
26	13.5	11.5	12.5	5.5	5.0	5.0	---	---	---			
27	11.5	10.0	10.5	5.0	4.5	5.0	---	---	---			
28	11.5	10.0	11.0	5.5	4.5	5.0	---	---	---			
29	11.0	11.0	11.0	5.0	4.5	4.5	---	---	---			
30	11.0	7.0	9.0	6.5	4.5	5.0	---	---	---			
31	6.5	5.0	6.0	---	---	---	---	---	---			
MONTH	---	---	---	13.0	4.0	7.5	---	---	---			

DELAWARE RIVER BASIN

01427207 DELAWARE RIVER AT LORDVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										---	---	---
14										---	---	---
15										---	---	---
16										---	---	---
17										---	---	---
18										---	---	---
19										---	---	---
20										10.5	8.5	9.5
21										13.5	10.0	12.0
22										12.5	10.0	11.5
23										12.0	9.0	10.5
24										13.5	10.0	11.5
25										12.5	11.5	12.0
26										13.0	12.0	12.5
27										15.5	12.0	14.0
28										17.5	13.0	15.5
29										16.5	15.0	16.0
30										16.5	16.0	16.5
31										17.5	16.0	17.0
MONTH										---	---	---
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	17.0	17.0	25.5	23.0	24.0	26.5	22.0	25.0	20.5	18.0	19.5
2	18.5	16.0	17.5	25.5	21.5	23.5	24.0	20.0	22.0	20.0	19.0	20.0
3	21.0	17.5	19.0	26.0	23.0	24.5	24.0	20.5	22.0	20.5	17.5	19.0
4	22.5	19.0	20.5	25.5	23.5	24.5	24.5	20.5	22.5	19.5	17.0	18.0
5	23.5	20.0	21.5	27.5	24.0	25.5	26.0	22.0	24.0	19.0	16.5	17.5
6	22.5	18.0	20.0	28.0	25.0	26.5	25.5	24.0	24.5	18.0	15.5	16.5
7	19.5	16.5	18.0	27.5	24.5	25.5	23.5	19.0	21.0	19.5	15.5	17.5
8	23.0	18.5	20.5	24.5	23.5	24.0	21.5	19.0	20.5	22.0	18.0	19.5
9	26.0	21.0	23.5	26.5	23.0	24.5	22.0	21.0	21.0	21.5	19.5	20.5
10	29.5	24.5	26.5	27.0	24.0	25.5	21.0	20.5	20.5	19.5	14.5	17.0
11	29.5	26.5	28.0	29.0	25.5	27.0	23.5	20.0	21.5	14.0	12.0	13.0
12	29.5	26.0	27.5	28.0	24.5	26.5	23.5	21.0	22.5	17.0	13.0	15.0
13	27.0	24.0	25.0	24.0	21.0	22.0	24.0	22.0	23.0	20.0	16.5	18.5
14	27.5	22.5	25.0	23.0	20.5	21.5	23.5	21.0	22.5	19.5	15.5	17.0
15	30.0	25.5	27.5	26.5	21.5	24.0	23.0	22.0	22.5	19.0	16.5	17.5
16	30.5	28.0	29.0	26.0	24.5	25.0	22.0	20.0	21.0	20.0	19.0	19.5
17	29.5	28.0	28.5	24.5	23.0	23.5	22.0	19.0	20.5	21.5	19.5	20.5
18	28.5	26.0	27.0	24.0	21.5	23.0	23.5	20.0	21.5	20.5	20.0	20.0
19	27.0	23.0	24.5	26.0	22.0	24.0	24.0	20.5	22.0	20.0	17.5	19.0
20	26.5	23.5	25.0	25.5	23.5	24.5	25.0	21.5	23.0	19.5	18.5	19.0
21	26.5	24.0	25.5	25.5	23.0	24.0	26.5	22.5	24.5	19.5	18.0	19.0
22	29.0	25.5	27.0	26.5	22.0	24.0	27.5	24.0	25.5	18.0	15.5	17.0
23	28.5	27.0	28.0	26.0	23.0	24.5	27.0	24.5	26.0	15.5	14.0	15.0
24	30.0	27.0	28.5	26.0	22.5	24.0	27.0	24.0	25.5	14.5	11.5	13.0
25	30.0	28.0	29.0	26.5	23.0	25.0	26.5	23.5	25.0	13.0	11.0	12.0
26	28.5	27.0	28.0	26.5	22.5	24.5	26.0	24.0	25.0	12.5	11.0	11.5
27	29.0	26.5	27.5	25.5	22.0	25.0	25.0	22.0	23.5	16.5	13.0	15.0
28	29.5	26.5	28.0	---	---	---	24.0	21.0	22.5	16.0	14.0	15.5
29	30.5	27.0	28.5	---	---	---	25.0	22.5	23.5	15.0	12.5	14.0
30	29.0	23.5	26.5	27.0	24.5	25.5	22.5	19.5	20.5	14.0	13.0	13.5
31	---	---	---	27.0	23.0	25.0	20.5	17.0	19.0	---	---	---
MONTH	30.5	16.0	25.0	29.0	20.5	24.5	27.5	17.0	22.5	22.0	11.0	17.0

DELAWARE RIVER BASIN

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01427500 CALlicoON CREEK AT CALlicoON, NY

LOCATION.--Lat 41°45'39", long 75°02'55", Sullivan County, Hydrologic Unit 02040101, on right bank 0.7 mi (1.1 km) southeast of CallicoON, 0.9 mi (1.4 km) upstream from mouth, and 1.0 mi (1.6 km) southwest of Hortonville.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Concrete control since July 1944. Datum of gage is 759.84 ft (231.599 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Occasional regulation by small pond above station.

AVERAGE DISCHARGE.--36 years, 177 ft³/s (5.013 m³/s), 21.65 in/yr (549.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft³/s (453 m³/s) Aug. 17, 1947, gage height, 9.68 ft (2.950 m), from rating curve extended above 5,100 ft³/s (144 m³/s) on basis of slope-area measurement of peak flow; minimum, 4.0 ft³/s (0.11 m³/s) July 26, 27, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s (62 m³/s) and maximum (*)

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0830	2,550 72.2	4.76 1.451	Apr. 1	1030	2,380 67.4	4.64 1.414
Jan. 26	2045	*7,410 210	*7.10 2.164				

Minimum discharge, 28 ft³/s (0.79 m³/s) Sept. 25, 26, gage height, 1.36 ft (0.415 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	109	207	160	373	335	1320	120	84	590	708	47
2	167	106	185	150	662	291	723	474	90	320	513	47
3	143	101	164	140	300	286	491	295	83	207	330	45
4	126	99	149	130	260	330	373	268	72	153	150	42
5	114	92	110	130	240	662	295	207	67	127	39	41
6	104	86	110	120	220	590	247	170	63	102	65	37
7	97	81	110	130	190	406	211	150	143	94	112	34
8	88	95	110	140	170	320	185	140	110	268	199	33
9	81	95	110	130	160	251	163	120	83	174	188	32
10	77	146	100	120	150	239	143	107	70	125	373	41
11	351	149	100	120	150	235	133	98	62	98	207	47
12	445	207	100	130	140	199	122	107	57	127	133	40
13	213	715	100	150	140	320	112	100	53	90	107	35
14	268	474	100	230	140	300	105	90	48	75	88	32
15	197	330	98	240	150	270	98	84	46	67	79	30
16	173	263	98	220	203	250	96	79	43	70	77	32
17	158	223	96	200	700	240	92	105	43	160	63	65
18	1220	194	94	160	880	350	86	295	43	105	56	51
19	832	176	90	190	750	430	81	315	41	77	51	47
20	594	161	86	200	640	510	77	457	45	63	46	41
21	428	433	88	200	560	430	72	315	105	54	43	40
22	320	367	90	190	650	325	68	239	96	50	41	36
23	254	236	96	180	750	300	68	188	86	46	39	33
24	216	203	100	200	470	280	63	156	96	53	37	30
25	203	188	120	270	440	260	79	130	70	47	35	28
26	191	176	170	800	425	255	325	117	62	40	43	32
27	170	268	300	3750	502	325	219	107	50	36	373	127
28	152	243	270	2080	463	420	153	100	46	35	125	83
29	140	185	240	870	378	300	127	90	59	36	84	62
30	129	167	210	560	---	240	112	84	117	870	63	50
31	116	---	190	395	---	190	---	81	---	747	51	---
TOTAL	7958	6368	4191	12685	11256	10139	6439	5388	2133	5106	4518	1340
MEAN	257	212	135	409	388	327	215	174	71.1	165	146	44.7
MAX	1220	715	300	3750	880	662	1320	474	143	870	708	127
MIN	77	81	86	120	140	190	63	79	41	35	35	28
CFSM	2.32	1.91	1.22	3.68	3.50	2.95	1.94	1.57	.64	1.49	1.32	.40
IN.	2.67	2.13	1.40	4.25	3.77	3.40	2.16	1.81	.71	1.71	1.51	.45
CAL YR 1975	TOTAL	87290	MEAN 239	MAX 3290	MIN 32	CFSM 2.15	IN 29.25					
WTR YR 1976	TOTAL	77521	MEAN 212	MAX 3750	MIN 28	CFSM 1.91	IN 25.98					

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY

LOCATION.--Lat 41°45'24", long 75°03'30", Wayne County, Pennsylvania, Hydrologic Unit 02040101, on right bank, 0.5 mi (0.8 km) downstream from Callicoon Creek, 0.5 mi (0.8 km) downstream from Interstate Bridge 7, and 0.8 mi (1.1 km) southeast of Callicoon. Water-quality sampling site at discharge station.

DRAINAGE AREA.--1,882 mi² (4,719 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 750 ft (229 m), from topographic map (nearest 20 ft).

REMARKS.--Records good, except those for winter periods, which are poor. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin), and subsequent to October 1963, entire flow from 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during period of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,900 ft³/s (1,270 m³/s) Jan. 27, 1976, gage height, 11.11 ft (3.386 m), from rating curve extended above 19,000 ft³/s (540 m³/s) on basis of runoff comparison with nearby station; minimum daily, 400 ft³/s (11.3 m³/s) July 8, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44,900 ft³/s (1,270 m³/s) Jan. 27, gage height, 11.11 ft (3.386 m), from rating curve extended above 19,000 ft³/s (540 m³/s) on basis of runoff comparison with nearby station; minimum, 609 ft³/s (17.2 m³/s) Sept. 16, gage height, 2.47 ft (0.753 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4560	2120	3730	1900	7500	8190	8350	4960	1950	7190	1570	880
2	3860	1950	4010	1800	8460	7230	10400	7190	1890	6430	1800	826
3	3310	1810	3730	1600	7410	6820	8620	6990	1650	5100	1400	800
4	2820	1730	3380	1500	6800	6540	7320	6850	1390	4150	1220	1060
5	2450	1670	3030	1400	5200	9060	6290	6150	1200	3600	1090	1130
6	2190	1530	2810	1300	4500	10800	5380	5450	1070	2930	1040	1040
7	1920	1450	2810	1300	4000	9590	4640	4890	1920	2450	1490	749
8	1690	1440	2640	1300	3500	8080	3980	4470	1830	2640	2590	762
9	1530	1490	2450	1400	3200	6640	3420	3870	1390	2300	4260	894
10	1440	1600	2480	1500	2900	5770	2930	3380	1200	1860	5520	1220
11	1760	2200	2560	1700	2700	5200	2590	2930	1010	1390	5270	1510
12	2710	4000	2400	1800	2600	4470	2350	3130	908	1570	4150	1180
13	2380	5200	2220	2000	2500	4300	2100	3100	813	1920	3240	966
14	2420	6000	2150	2200	2400	4400	1890	2640	737	1570	3940	1270
15	2320	6800	2150	2300	2300	3840	1700	2370	689	1490	3450	951
16	2080	5800	2150	2100	2400	3340	1620	2120	713	1420	3310	665
17	1900	5000	2030	1900	7770	3100	1950	2300	713	3380	2670	701
18	12400	4600	1850	1800	11900	2670	1980	2670	966	3240	2200	1060
19	22400	4200	1480	1700	15200	2640	1750	3270	1270	2450	1800	1390
20	19800	3900	1250	1600	16500	2870	1550	5730	1150	2270	1480	922
21	12500	3600	1300	1500	12700	3800	1390	7680	2370	1920	1300	737
22	9110	4860	1400	1500	16300	6330	1250	8000	1830	1490	1130	689
23	7010	5590	1500	1600	19000	5940	1130	7190	1570	1330	995	689
24	5720	5070	1600	1700	13800	5410	1020	6260	1650	1220	894	1040
25	4900	4570	1700	2500	10900	5100	995	5380	1770	1170	800	1350
26	4350	4150	1900	3500	9720	4570	3100	4610	1800	908	762	1300
27	3760	3980	2300	23000	9920	4150	5270	3910	1650	787	2300	1600
28	3250	4680	2800	29200	10500	5560	5660	3240	1320	749	2300	1720
29	2880	4190	2600	19300	9220	5560	5770	2700	1370	880	1390	1170
30	2590	3840	2400	12800	---	4860	5380	2370	1980	2730	1250	951
31	2320	---	2100	9220	---	4300	---	2120	---	2040	1020	---
TOTAL	154330	109020	72910	139920	231800	171130	111775	137920	41769	74574	67631	31222
MEAN	4978	3634	2352	4514	7993	5520	3726	4449	1392	2406	2182	1041
MAX	22400	6800	4010	29200	19000	10800	10400	8000	2370	7190	5520	1720
MIN	1440	1440	1250	1300	2300	2640	995	2120	689	749	762	665

WTR YR 1976 TOTAL 1344001 MEAN 3672 MAX 29200 MIN 665

DELAWARE RIVER BASIN

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01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1975 to current year.

INSTRUMENTATION.--Temperature recorder since June 1975.

REMARKS.--No record Oct. 10-16, clock stopped.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water year 1976), 27.5°C June 19, 1976; minimum freezing point on many days during winter period.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.5°C June 19; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.5	15.0	7.0	5.0	6.0	6.5	5.5	6.5	0.0	0.0	0.0
2	15.0	13.5	15.0	7.5	6.5	7.0	5.5	3.5	4.5	0.0	0.0	0.0
3	15.5	12.5	13.0	9.5	7.5	9.0	3.0	2.0	2.5	0.0	0.0	0.0
4	12.5	11.5	12.0	12.0	9.5	11.0	2.5	1.5	2.0	0.0	0.0	0.0
5	12.0	11.0	11.5	11.5	10.0	11.0	2.5	1.5	2.0	0.0	0.0	0.0
6	12.0	11.0	11.5	10.5	8.5	10.0	3.5	1.5	2.5	0.0	0.0	0.0
7	13.0	11.0	12.5	11.0	9.0	10.0	3.5	2.0	3.0	0.0	0.0	0.0
8	15.0	12.0	13.5	12.5	11.0	12.0	2.0	1.0	1.5	0.0	0.0	0.0
9	15.5	13.5	15.0	13.5	12.0	12.5	3.0	1.5	2.0	0.0	0.0	0.0
10	---	---	---	13.5	12.0	13.0	4.0	3.0	3.5	0.0	0.0	0.0
11	---	---	---	12.0	9.5	11.0	4.5	3.0	3.5	0.0	0.0	0.0
12	---	---	---	9.5	8.0	8.5	3.5	3.0	3.5	0.0	0.0	0.0
13	---	---	---	8.0	7.5	8.0	3.0	2.5	3.0	0.0	0.0	0.0
14	---	---	---	7.5	6.0	7.0	4.0	3.0	3.5	0.0	0.0	0.0
15	---	---	---	6.0	5.0	5.5	5.5	4.0	4.5	0.0	0.0	0.0
16	---	---	---	6.0	5.0	5.5	5.0	3.0	4.5	0.0	0.0	0.0
17	13.5	12.5	13.0	6.5	5.5	6.0	3.0	2.0	2.5	0.0	0.0	0.0
18	12.0	10.5	11.0	8.0	6.5	7.0	2.5	0.0	1.0	0.0	0.0	0.0
19	11.0	11.0	11.0	8.5	7.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0
20	11.5	11.0	11.5	9.0	8.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0
21	11.5	11.0	11.5	8.5	8.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
22	12.0	11.5	11.5	8.0	6.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0
23	12.5	11.5	12.0	6.5	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
24	13.0	12.0	12.5	5.0	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
25	13.5	13.0	13.0	4.5	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
26	13.5	12.5	13.0	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
27	12.5	10.5	11.5	5.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
28	12.0	10.0	11.0	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
29	12.0	11.0	11.5	5.0	4.0	5.0	0.0	0.0	0.0	1.0	0.0	0.5
30	11.5	8.0	10.5	6.0	4.0	5.0	0.0	0.0	0.0	1.0	0.5	1.0
31	8.0	5.5	7.0	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0
MONTH	---	---	---	13.5	4.0	7.5	6.5	0.0	2.0	1.0	0.0	0.0

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.0	0.5	4.0	3.5	4.0	6.5	6.0	6.0	9.5	9.0	9.0
2	1.0	0.0	0.0	4.0	2.0	3.0	5.5	5.0	5.5	10.5	9.0	10.0
3	0.0	0.0	0.0	2.0	1.0	1.0	5.0	4.0	5.0	10.0	8.5	9.5
4	0.0	0.0	0.0	2.5	1.0	2.0	4.5	4.0	4.0	8.5	7.0	8.0
5	0.0	0.0	0.0	5.0	2.5	4.0	6.0	3.5	4.5	9.0	6.0	8.0
6	0.0	0.0	0.0	5.0	3.0	4.0	7.0	5.0	6.0	12.0	9.0	10.5
7	0.0	0.0	0.0	3.0	2.0	2.5	8.0	5.5	6.5	12.5	10.5	11.5
8	0.0	0.0	0.0	2.5	1.5	2.0	8.0	5.5	6.5	12.0	9.5	10.5
9	0.0	0.0	0.0	1.5	0.0	1.0	8.0	4.5	6.0	12.5	9.0	10.5
10	0.0	0.0	0.0	2.0	0.0	1.0	9.0	4.5	7.0	14.0	9.5	12.0
11	0.5	0.0	0.0	3.0	1.5	2.0	7.5	5.0	7.0	13.5	12.0	12.5
12	1.0	0.0	0.5	2.0	0.5	1.5	6.0	3.0	4.5	12.5	10.5	11.5
13	2.0	0.0	1.0	3.5	0.5	2.0	8.5	3.0	5.5	13.5	9.0	11.5
14	1.5	0.0	1.0	3.5	1.5	2.5	11.0	5.0	8.0	15.0	10.5	13.0
15	0.5	0.0	0.5	4.5	2.5	3.0	11.0	7.5	9.5	18.5	13.0	15.5
16	2.5	0.0	1.0	3.0	1.0	2.0	12.5	9.5	11.0	17.0	15.5	16.0
17	2.5	0.5	1.5	1.0	0.0	0.5	16.0	10.5	13.5	17.0	15.0	16.0
18	2.0	1.5	1.5	1.5	0.0	0.5	18.0	12.5	15.5	16.5	13.0	15.5
19	2.5	1.5	2.0	3.5	0.5	2.0	19.0	14.0	17.0	13.0	9.5	11.0
20	2.5	2.0	2.0	6.5	2.5	4.5	19.0	15.5	17.5	11.0	9.0	9.5
21	2.5	1.5	2.0	7.0	5.5	6.5	19.0	15.5	17.5	11.0	9.0	10.0
22	3.0	2.5	2.5	6.0	3.0	4.5	17.0	15.0	16.0	11.0	10.0	11.0
23	2.5	1.0	1.5	4.0	2.0	3.0	17.0	13.5	15.0	11.0	9.0	10.0
24	2.0	0.5	1.0	5.5	3.0	4.5	14.0	12.0	12.5	12.5	10.5	11.5
25	3.0	2.0	2.0	6.5	5.0	5.5	12.0	9.0	10.5	12.0	11.5	12.0
26	3.5	3.0	3.5	7.5	5.0	6.0	9.0	7.0	8.0	12.5	11.0	12.0
27	4.5	3.5	4.0	8.5	6.0	7.0	7.0	5.5	6.0	15.0	11.0	13.0
28	4.0	3.5	4.0	7.5	6.0	7.0	7.0	5.5	6.0	17.5	13.0	15.0
29	3.5	2.5	3.0	6.5	4.5	5.5	8.0	6.0	7.0	17.5	14.5	16.0
30	---	---	---	8.0	5.5	6.0	10.0	7.0	8.5	17.0	15.0	16.0
31	---	---	---	7.5	6.0	7.0	---	---	---	17.5	15.5	16.5
MONTH	4.5	0.0	1.0	8.5	0.0	3.5	19.0	3.0	9.0	18.5	6.0	12.0

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.0	17.0	20.5	19.5	19.5	22.5	21.0	22.0	21.0	17.0	19.5
2	18.5	15.5	17.0	20.0	19.5	19.5	22.5	18.0	20.5	20.0	18.5	19.0
3	20.5	15.0	17.5	20.5	20.0	20.0	23.0	18.0	20.5	19.0	16.5	17.5
4	21.5	16.5	19.0	21.0	19.0	20.0	24.0	18.0	21.5	19.0	17.0	18.0
5	21.5	16.5	19.5	23.5	20.0	21.5	24.5	20.0	22.5	19.5	18.0	19.0
6	21.5	17.0	18.5	24.5	21.5	23.0	23.5	22.0	22.5	18.5	15.5	17.0
7	19.5	15.5	16.5	23.0	19.5	21.5	22.0	19.5	21.0	19.0	14.5	17.0
8	21.5	16.5	18.5	21.0	19.5	20.5	19.5	18.0	18.5	22.0	17.5	19.5
9	23.5	18.5	21.0	23.5	19.5	21.5	19.5	18.0	18.5	22.5	18.5	21.0
10	25.5	21.0	23.0	24.5	19.5	22.5	18.5	18.0	18.0	22.0	18.0	20.0
11	26.5	22.5	25.0	25.5	21.0	23.5	20.5	17.5	19.0	17.5	15.0	16.5
12	26.0	22.0	24.0	23.0	19.5	21.5	23.0	19.5	21.0	17.5	13.0	15.5
13	24.5	19.5	22.0	20.0	18.0	19.0	23.5	20.5	22.0	20.0	15.5	17.5
14	23.5	18.5	20.0	20.0	17.0	18.5	23.0	21.0	22.0	21.5	17.0	19.5
15	26.5	22.0	23.5	23.5	17.0	21.0	23.0	21.0	22.0	20.5	18.0	19.0
16	27.0	23.5	25.0	22.5	20.0	21.0	21.0	19.0	20.0	19.0	18.0	18.5
17	27.0	22.0	25.0	22.0	18.5	20.5	21.5	18.0	20.0	21.0	18.5	19.5
18	27.0	24.5	26.0	21.5	18.5	20.0	22.5	18.5	20.5	20.5	19.0	19.5
19	27.5	25.0	26.0	23.5	18.5	21.5	23.5	18.5	21.5	21.0	18.0	19.5
20	27.0	22.0	24.0	25.0	20.5	22.5	24.5	19.5	22.0	19.5	17.5	18.5
21	25.0	22.5	23.5	22.0	22.0	22.0	26.0	21.0	24.0	19.0	16.5	17.5
22	26.0	22.5	24.5	24.0	20.0	22.5	27.0	22.5	25.0	16.5	14.5	15.5
23	26.5	23.0	25.0	22.0	20.0	20.5	26.5	23.0	25.0	17.0	12.5	15.0
24	26.5	23.5	25.5	24.5	20.0	22.5	25.5	22.0	24.0	16.5	13.5	15.0
25	26.5	23.5	25.5	23.0	19.5	21.5	26.0	21.0	24.0	14.5	11.5	13.5
26	26.5	22.0	24.5	23.5	18.0	21.5	25.5	22.5	24.0	13.0	11.0	11.5
27	26.0	21.5	24.0	23.5	20.0	22.0	24.5	22.0	23.0	13.5	12.0	12.5
28	25.5	22.0	24.0	26.5	22.0	24.0	24.5	22.0	23.0	13.0	12.0	13.0
29	27.0	22.5	24.5	24.5	22.0	23.0	24.5	22.0	23.0	14.0	10.5	12.5
30	24.5	19.5	22.0	24.5	21.0	22.5	21.0	18.0	19.5	13.0	11.0	12.0
31	---	---	---	24.5	20.5	22.5	20.5	16.0	18.5	---	---	---
MONTH	27.5	15.0	22.5	26.5	17.0	21.5	27.0	16.0	21.5	22.5	10.5	17.0

DELAWARE RIVER BASIN

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01427705 DELAWARE RIVER AT SKINNERS FALLS, NY

LOCATION.--Lat 41°40'12", long 75°03'28", Sullivan County, Hydrologic Unit 02040101, at Skinners Falls Interstate Bridge No. 5 at Skinners Falls, 1,000 ft (305 m) downstream from Calkins Creek, and 5.3 miles (8.5 km) north of Narrowsburg.

DRAINAGE AREA.--1,902 mi² (4,926 km²).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to July 1970, June to September 1971, August 1973 to current year.

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--No record Dec. 20-24, due to instrument malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1968, 1969, 1971, 1974-76), 31.5°C Aug. 2, 1975; minimum (water years 1968-70, 1974-76), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.0°C June 17, 26; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	14.5	15.0	7.0	5.0	6.0	7.0	6.0	6.5	0.0	0.0	0.0
2	15.5	13.5	15.0	9.0	7.0	8.0	5.5	3.5	5.0	0.5	0.0	0.0
3	14.0	12.0	13.0	11.0	9.0	10.0	3.5	2.5	3.0	0.0	0.0	0.0
4	14.5	11.5	13.0	13.0	10.5	11.5	2.5	2.0	2.0	0.0	0.0	0.0
5	14.0	12.0	13.0	12.5	10.5	11.5	2.5	1.5	2.0	0.0	0.0	0.0
6	15.5	13.0	14.0	11.5	9.0	10.5	3.5	2.0	2.5	0.0	0.0	0.0
7	15.5	12.5	14.0	11.5	9.0	10.5	3.5	2.5	3.0	0.0	0.0	0.0
8	15.0	12.0	13.5	13.5	11.5	12.5	2.0	1.0	1.5	0.0	0.0	0.0
9	14.0	12.5	13.0	14.0	12.0	13.0	2.5	1.5	2.0	0.0	0.0	0.0
10	13.0	12.0	12.5	14.0	13.0	13.5	3.5	2.5	3.0	0.0	0.0	0.0
11	12.5	12.0	12.0	13.0	10.5	11.5	4.0	3.0	3.5	0.0	0.0	0.0
12	12.0	11.0	11.5	10.0	8.5	9.0	3.5	2.5	3.0	0.0	0.0	0.0
13	13.5	11.5	12.5	8.5	8.0	8.5	2.5	2.5	2.5	0.0	0.0	0.0
14	14.5	12.5	13.5	8.0	6.0	7.0	3.5	2.5	3.0	0.0	0.0	0.0
15	16.0	14.0	15.0	6.0	5.5	6.0	4.5	3.5	4.0	0.0	0.0	0.0
16	16.0	14.5	15.0	6.0	5.5	5.5	4.5	3.5	4.5	0.0	0.0	0.0
17	14.0	12.5	13.0	7.0	5.5	6.5	3.0	2.5	2.5	0.0	0.0	0.0
18	12.5	11.5	11.5	8.0	6.5	7.0	2.5	0.0	1.5	0.0	0.0	0.0
19	11.5	11.5	11.5	9.0	7.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0
20	12.0	11.5	11.5	9.5	8.5	9.0	---	---	---	0.0	0.0	0.0
21	12.0	11.0	11.5	9.0	8.5	8.5	---	---	---	0.0	0.0	0.0
22	12.5	11.5	12.0	8.5	6.5	7.5	---	---	---	0.0	0.0	0.0
23	13.0	12.0	12.5	6.5	5.5	6.0	---	---	---	0.0	0.0	0.0
24	13.5	12.0	13.0	5.5	5.0	5.0	---	---	---	0.0	0.0	0.0
25	14.0	13.0	13.5	5.0	4.5	5.0	0.5	0.0	0.5	0.0	0.0	0.0
26	14.0	12.0	13.0	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
27	12.5	11.0	11.5	5.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
28	12.5	10.5	11.5	5.5	5.0	5.0	0.0	0.0	0.0	0.5	0.0	0.5
29	12.0	11.0	11.5	5.5	5.0	5.0	0.0	0.0	0.0	1.0	0.5	1.0
30	11.5	7.5	10.0	6.0	5.0	5.5	0.0	0.0	0.0	1.5	1.0	1.0
31	8.0	6.0	7.0	---	---	---	0.0	0.0	0.0	1.0	0.0	0.5
MONTH	16.0	6.0	12.5	14.0	4.5	8.0	7.0	0.0	2.0	1.5	0.0	0.0

DELAWARE RIVER BASIN

01427705 DELAWARE RIVER AT SKINNERS FALLS, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	0.5	0.5	4.5	3.5	4.0	7.0	6.0	6.5	10.0	9.5	9.5
2	1.0	0.0	0.5	4.0	2.5	3.5	6.0	5.5	5.5	11.0	9.5	10.5
3	0.0	0.0	0.0	2.5	1.0	1.5	5.5	4.5	5.0	10.5	9.5	10.0
4	0.0	0.0	0.0	3.0	1.5	2.0	5.0	4.5	4.5	9.0	7.5	8.5
5	0.0	0.0	0.0	5.0	3.0	4.0	6.0	3.5	5.0	10.0	6.5	8.5
6	0.5	0.0	0.0	5.0	3.5	4.5	7.5	5.0	6.0	12.5	9.5	11.0
7	0.0	0.0	0.0	3.5	2.5	3.0	8.5	5.5	7.0	13.0	11.0	12.0
8	0.0	0.0	0.0	3.0	1.5	2.5	8.5	6.0	6.5	12.5	10.0	11.0
9	0.5	0.0	0.0	1.5	0.5	1.0	8.0	5.0	6.5	12.5	9.5	11.0
10	0.5	0.0	0.0	2.0	0.0	1.0	9.0	5.0	7.0	14.5	10.0	12.5
11	1.0	0.0	0.5	3.5	1.5	2.5	8.5	6.0	7.0	14.0	12.0	13.0
12	1.5	0.0	1.0	2.0	1.0	1.5	6.5	3.5	5.0	13.0	11.0	12.5
13	2.0	0.5	1.5	3.5	1.0	2.0	8.5	3.0	6.0	13.5	9.5	11.5
14	2.5	0.5	1.5	4.5	2.0	3.0	11.0	5.5	8.5	15.5	11.0	13.5
15	1.0	0.0	0.5	4.5	2.5	3.5	11.0	8.0	10.0	18.5	14.0	16.0
16	2.5	0.0	1.5	3.5	1.0	2.5	12.5	10.0	11.0	17.5	16.0	16.5
17	3.0	1.0	2.0	1.0	0.0	0.5	11.0	11.0	13.5	17.0	15.5	16.0
18	2.0	2.0	2.0	1.5	0.0	1.0	18.0	13.5	16.0	16.5	13.5	15.5
19	2.5	2.0	2.5	4.0	1.0	2.5	19.0	15.0	17.0	13.5	10.0	11.5
20	2.5	2.0	2.5	7.0	3.0	5.0	20.0	16.0	18.0	11.0	9.0	10.0
21	2.5	1.5	2.0	7.0	6.0	6.5	20.0	16.5	18.0	12.0	9.5	10.5
22	3.5	2.5	3.0	6.5	4.0	5.0	17.5	15.5	16.5	12.0	10.0	11.0
23	2.5	1.0	1.5	4.5	2.5	3.5	17.5	14.0	15.5	12.0	9.5	10.5
24	2.5	0.5	1.5	6.0	3.5	4.5	15.0	12.5	13.5	13.0	10.5	12.0
25	3.5	2.0	2.5	7.0	5.0	6.0	12.0	10.0	11.0	12.5	12.0	12.5
26	4.0	3.0	3.5	8.0	5.5	6.5	10.0	7.5	8.5	13.0	11.5	12.5
27	5.0	4.0	4.5	8.5	6.0	7.5	7.5	6.0	6.5	15.5	11.5	13.5
28	4.5	3.5	4.0	8.0	6.5	7.5	7.5	6.0	6.5	18.0	13.0	15.5
29	4.0	3.0	3.5	6.5	5.0	6.0	8.5	6.5	7.5	17.5	15.0	16.5
30	---	---	---	8.0	5.5	7.0	10.5	7.0	9.0	17.0	15.5	16.5
31	---	---	---	7.5	6.5	7.0	---	---	---	17.5	16.0	17.0
MONTH	5.0	0.0	1.5	8.5	0.0	4.0	20.0	3.0	9.5	18.5	6.5	12.5
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	16.5	17.0	22.0	19.5	20.5	22.5	20.5	21.5	21.0	18.0	19.5
2	19.0	16.0	17.0	20.5	19.5	20.0	22.5	18.5	20.5	20.0	18.5	19.5
3	20.5	15.5	18.0	21.0	19.5	20.5	23.0	18.5	21.0	20.5	17.0	18.5
4	21.0	17.0	19.0	21.5	20.0	20.5	24.0	19.0	21.5	19.0	17.5	18.0
5	21.5	17.5	19.5	23.5	19.5	21.5	24.5	20.5	22.5	20.5	18.0	19.0
6	19.5	16.5	17.5	25.0	20.5	22.5	23.5	22.0	22.5	19.5	16.5	18.0
7	19.5	15.5	17.5	23.0	21.5	22.5	22.0	19.5	20.5	20.0	16.0	18.0
8	22.0	17.0	19.5	21.5	19.5	20.5	19.5	17.5	18.0	22.0	18.0	19.5
9	24.0	19.0	21.5	23.5	19.5	21.5	18.5	17.5	18.0	23.0	19.5	21.0
10	26.0	21.5	23.5	24.5	20.0	22.0	18.0	17.5	18.0	21.5	18.5	20.0
11	26.0	23.0	24.5	25.5	21.5	23.5	20.5	17.0	18.5	18.0	15.5	17.0
12	26.0	22.0	24.0	24.0	21.5	22.5	22.0	19.0	20.5	18.0	13.5	16.0
13	22.5	20.0	21.0	21.0	19.0	20.0	22.5	20.0	21.0	20.0	16.0	18.0
14	24.0	19.0	21.5	20.0	18.0	19.0	23.0	20.5	21.5	21.0	18.0	19.5
15	26.5	21.5	24.0	23.0	17.5	20.0	22.5	21.0	21.5	20.0	18.5	19.5
16	26.5	23.5	25.0	22.0	20.5	21.0	21.0	19.5	20.0	18.5	18.0	18.5
17	27.0	23.5	25.0	22.5	20.0	21.0	21.5	18.0	19.5	20.0	18.0	19.0
18	26.5	23.0	25.0	22.0	18.5	20.5	22.5	19.0	20.5	19.5	19.0	19.0
19	26.0	24.0	25.0	23.5	19.0	21.0	23.5	19.5	21.5	20.5	18.0	19.5
20	25.5	24.0	24.5	24.5	20.5	22.5	24.5	20.0	22.5	19.5	18.0	18.5
21	24.0	21.0	21.5	23.5	21.5	22.0	25.5	21.5	23.5	19.0	17.0	18.0
22	24.5	21.5	23.0	24.5	20.5	22.5	26.5	23.0	25.0	17.5	15.0	16.5
23	25.5	22.5	24.0	22.5	20.5	21.0	26.5	23.5	25.0	17.0	14.0	15.5
24	26.0	23.0	24.5	24.5	20.0	22.0	26.5	23.0	24.5	17.0	14.5	15.5
25	26.0	23.5	25.0	23.5	20.5	22.0	26.5	22.5	24.5	15.5	12.5	14.0
26	27.0	23.5	25.0	24.0	19.5	22.0	25.5	23.5	24.5	13.5	12.0	12.0
27	26.0	22.5	24.5	24.0	21.0	22.5	23.5	21.5	22.5	13.0	12.0	12.5
28	25.5	22.0	24.0	26.5	22.0	24.0	23.5	21.5	22.5	13.5	12.5	13.0
29	26.5	22.0	24.0	24.0	21.5	22.5	24.5	21.5	23.0	14.5	11.5	13.0
30	24.5	22.5	23.5	22.0	19.5	21.0	21.5	18.5	20.0	13.0	12.0	12.5
31	---	---	---	23.5	20.0	21.5	21.0	17.0	19.0	---	---	---
MONTH	27.0	15.5	22.5	26.5	17.5	21.5	26.5	17.0	21.5	23.0	11.5	17.5

DELAWARE RIVER BASIN

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01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY

LOCATION.--Lat 41°30'32", long 74°59'13", Sullivan County, Hydrologic Unit 02040104, on left bank 1.6 mi (2.6 km) upstream from Lackawaxen River, and 4.6 mi (7.4 km) northwest of Barryville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--2,023 mi² (5,240 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 600.22 ft (182.947 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin), and subsequent to October 1963, entire flow from 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow of these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130,000 ft³/s (3,680 m³/s) Aug. 19, 1955, gage height, 26.40 ft (8.047 m) from floodmarks in gage house, from rating curve extended above 55,000 ft³/s (1,560 m³/s) on basis of slope-area measurement at gage height 23.19 ft (7.068 m); minimum, 122 ft³/s (3.46 m³/s) Sept. 5, 1953, gage height, 1.11 ft (0.338 m); minimum daily, 126 ft³/s (3.57 m³/s) Sept. 4, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47,400 ft³/s (1,342 m³/s) Jan. 27, gage height, 14.35 ft (4.374 m); maximum gage height, 14.45 ft (4.404 m) Jan. 27 (ice jam); minimum, 580 ft³/s (16.4 m³/s) Sept. 9, gage height, 2.28 ft (0.695 m); minimum daily, 661 ft³/s (18.7 m³/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4830	2306	3930	2200	9260	9560	9260	5140	2190	6470	1700	931
2	4020	2140	4240	2000	9730	8460	13500	7330	2130	7160	2050	827
3	3470	2010	3960	1850	9110	7850	10700	7950	1980	5450	1640	784
4	3030	1920	3590	1700	6800	7280	9010	7700	1660	4380	1370	857
5	2610	1870	3250	1600	6000	10000	7560	6780	1420	3820	1180	1160
6	2310	1740	3030	1500	4700	12800	6290	5890	1250	3220	1070	1040
7	2080	1640	2990	1450	4000	11500	5380	5180	1750	2630	1410	910
8	1870	1640	2840	1500	3550	9550	4600	4770	2290	2730	2570	689
9	1690	1730	2610	1600	3200	7780	3980	4160	1720	2530	4010	668
10	1570	1760	2840	1800	3000	6520	3520	3650	1410	2090	5930	1100
11	1610	2310	2950	2050	2900	5820	3100	3240	1180	1710	5930	1520
12	2790	2530	2660	2300	2800	5010	2820	3260	1010	1660	4520	1330
13	2730	6430	2440	2600	2700	4680	2540	3370	884	2040	3570	1050
14	2580	8350	2330	3000	2600	5010	2300	2950	788	1870	3770	1040
15	2540	7170	2330	2800	2500	4360	2130	2620	725	1680	3660	1320
16	2250	6110	2310	2500	2500	3870	1990	2350	711	1570	3400	726
17	2070	5430	2270	2300	7720	3570	2110	2450	743	2660	2950	778
18	10400	4930	2100	2200	15400	3080	2320	2940	888	3700	2410	1040
19	24700	4500	1700	2100	18000	3060	2100	3480	1180	2690	2020	1290
20	25100	4200	1300	2000	20700	3290	1890	5490	1140	2370	1700	1290
21	15800	4480	1300	2100	16200	3930	1690	8190	2290	2090	1460	830
22	11000	7170	1400	2400	17600	6680	1510	8870	2160	1740	1260	698
23	8210	6320	1500	2800	24000	6770	1380	8010	1870	1490	1100	661
24	6370	5520	1600	3500	17300	5990	1230	6890	1860	1330	965	848
25	5270	4930	1750	4400	13300	5460	1160	5800	1950	1220	850	1380
26	4650	4430	2000	7000	11600	5040	2720	4920	1940	1090	757	1440
27	4020	4270	3350	19600	11600	4600	5590	4170	1870	835	1940	1690
28	3510	5190	3200	30200	12500	5680	6010	3550	1600	751	2800	2100
29	3140	4580	2900	25900	11000	6490	6160	3030	1400	744	1670	1480
30	2840	4070	2700	17000	---	5490	5770	2640	1800	2550	1380	1110
31	2560	---	2400	11900	---	4830	---	2370	---	2660	1150	---
TOTAL	171620	121670	79770	167850	272270	194010	130320	149140	45789	78930	72192	32587
MEAN	5536	4056	2573	5415	9389	6258	4344	4811	1526	2546	2329	1086
MAX	25100	8350	4240	30200	24000	12800	13500	8870	2290	7160	5930	2100
MIN	1570	1640	1300	1450	2500	3060	1160	2350	711	744	757	661
CAL YR 1975	TOTAL	1539378	MEAN	4217	MAX	39500	MIN	512				
WTR YR 1976	TOTAL	1516148	MEAN	4142	MAX	30200	MIN	661				

DELAWARE RIVER BASIN

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to current year (no record for many winter months each year).

INSTRUMENTATION.--Temperature recorder since Oct. 1, 1967.

REMARKS.--No record Nov. 10, 11, Jan. 13 to Apr. 21, July 11 to Sept. 28, due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES (Water years 1968 to 1975): Maximum, 32.0°C Aug. 2, 3 1975.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	14.5	15.0	7.0	6.5	6.5	6.0	5.5	6.0	0.5	0.5	0.5
2	15.5	14.5	15.0	8.0	6.5	7.5	6.0	4.5	5.5	0.5	0.5	0.5
3	14.0	13.0	13.5	10.0	8.0	9.5	4.5	3.0	3.5	0.5	0.5	0.5
4	14.0	12.5	13.0	12.5	10.0	11.5	3.0	2.0	2.5	0.5	0.5	0.5
5	13.5	13.0	13.0	13.0	9.5	11.5	2.0	2.0	2.0	0.5	0.5	0.5
6	15.0	13.0	14.0	12.0	10.0	11.5	2.0	2.0	2.0	0.5	0.5	0.5
7	15.5	13.5	14.5	14.0	12.0	13.0	2.5	2.0	2.0	0.5	0.5	0.5
8	15.5	13.0	14.0	14.0	12.5	13.0	2.0	2.0	2.0	0.5	0.5	0.5
9	14.0	13.5	13.5	13.5	12.0	13.0	2.0	2.0	2.0	0.5	0.5	0.5
10	13.5	13.0	13.0	---	---	---	2.0	2.0	2.0	0.5	0.5	0.5
11	13.0	12.5	12.5	---	---	---	3.0	2.0	2.5	0.5	0.5	0.5
12	12.5	12.0	12.0	11.0	9.5	10.5	3.0	3.0	3.0	0.5	0.5	0.5
13	13.5	12.0	12.5	9.5	8.5	9.0	3.0	3.0	3.0	---	---	---
14	14.5	13.0	13.5	8.5	7.0	8.0	3.0	3.0	3.0	---	---	---
15	16.0	14.0	15.0	7.0	6.0	6.5	3.5	3.0	3.0	---	---	---
16	16.0	15.0	15.5	6.0	5.5	5.5	4.0	3.5	3.5	---	---	---
17	14.0	13.5	14.0	6.0	5.5	5.5	3.5	2.5	3.0	---	---	---
18	13.0	12.0	12.5	7.0	6.0	6.5	2.5	0.5	2.0	---	---	---
19	12.0	12.0	12.0	8.0	7.0	7.5	0.5	0.5	0.5	---	---	---
20	12.0	12.0	12.0	8.5	8.0	8.5	0.5	0.5	0.5	---	---	---
21	12.0	11.5	12.0	8.5	8.5	8.5	0.5	0.5	0.5	---	---	---
22	12.5	11.5	12.0	8.5	7.0	8.0	0.5	0.5	0.5	---	---	---
23	13.0	12.5	12.5	7.0	6.0	6.5	0.5	0.5	0.5	---	---	---
24	13.0	12.5	12.5	6.0	5.0	5.5	0.5	0.5	0.5	---	---	---
25	13.5	13.0	13.0	5.0	5.0	5.0	0.5	0.5	0.5	---	---	---
26	13.5	13.0	13.5	5.0	5.0	5.0	0.5	0.5	0.5	---	---	---
27	13.0	12.0	12.0	5.0	5.0	5.0	0.5	0.5	0.5	---	---	---
28	12.0	11.5	12.0	5.0	5.0	5.0	0.5	0.5	0.5	---	---	---
29	12.0	12.0	12.0	5.0	5.0	5.0	0.5	0.5	0.5	---	---	---
30	12.0	9.0	11.0	5.5	5.0	5.0	0.5	0.5	0.5	---	---	---
31	9.0	7.0	8.0	---	---	---	0.5	0.5	0.5	---	---	---

DELAWARE RIVER BASIN

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01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	11.0	10.5	10.5
2							---	---	---	12.5	11.0	11.5
3							---	---	---	12.0	11.5	12.0
4							---	---	---	11.5	10.0	10.0
5							---	---	---	10.5	8.0	9.0
6							---	---	---	13.5	9.5	12.0
7							---	---	---	14.0	13.0	13.5
8							---	---	---	13.5	12.0	13.0
9							---	---	---	13.0	12.0	12.5
10							---	---	---	14.5	12.5	13.5
11							---	---	---	15.0	13.5	14.5
12							---	---	---	14.5	13.5	14.5
13							---	---	---	14.5	12.5	13.5
14							---	---	---	15.0	12.5	14.0
15							---	---	---	18.0	14.5	16.5
16							---	---	---	18.5	17.5	17.5
17							---	---	---	19.5	18.0	18.5
18							---	---	---	18.5	17.0	18.0
19							---	---	---	16.5	13.5	15.0
20							---	---	---	13.5	12.0	12.5
21							---	---	---	13.0	11.5	12.0
22							19.0	17.0	18.0	13.0	12.0	12.5
23							20.0	16.5	18.0	13.0	11.5	12.0
24							16.0	15.0	15.5	13.5	11.5	12.5
25							15.0	12.5	13.5	14.0	13.5	13.5
26							12.5	9.5	11.0	14.0	13.0	13.5
27							8.5	8.0	8.5	16.0	13.5	14.5
28							8.0	7.5	7.5	17.5	15.0	16.0
29							9.0	8.0	8.5	18.5	17.0	17.5
30							11.0	9.0	10.0	18.5	17.5	18.0
31							---	---	---	19.5	17.5	18.5

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	18.0	18.5	26.5	23.5	25.5				---	---	---
2	20.0	18.0	18.5	24.5	22.5	23.5				---	---	---
3	21.5	18.0	19.5	24.5	22.0	23.5				---	---	---
4	22.5	19.0	20.5	24.0	23.5	23.5				---	---	---
5	23.5	19.5	21.5	26.0	23.5	24.5				---	---	---
6	22.0	15.5	20.0	27.0	25.0	26.0				---	---	---
7	22.0	18.0	19.5	27.0	26.0	26.5				---	---	---
8	23.5	20.0	21.5	26.0	24.0	25.5				---	---	---
9	25.5	21.0	21.5	27.0	23.5	25.5				---	---	---
10	27.0	22.0	25.0	28.5	25.0	26.5				---	---	---
11	28.5	25.5	27.0	---	---	---				---	---	---
12	29.5	25.5	27.0	---	---	---				---	---	---
13	25.5	23.5	24.5	---	---	---				---	---	---
14	27.0	23.0	25.0	---	---	---				---	---	---
15	29.0	24.5	26.5	---	---	---				---	---	---
16	30.0	26.5	28.0	---	---	---				---	---	---
17	30.5	27.0	28.5	---	---	---				---	---	---
18	30.0	26.5	28.0	---	---	---				---	---	---
19	29.5	27.0	28.5	---	---	---				---	---	---
20	28.5	27.5	28.0	---	---	---				---	---	---
21	27.5	25.5	27.0	---	---	---				---	---	---
22	27.0	24.5	25.5	---	---	---				---	---	---
23	28.0	26.0	26.5	---	---	---				---	---	---
24	29.5	26.0	28.0	---	---	---				---	---	---
25	30.0	27.0	28.5	---	---	---				---	---	---
26	30.5	27.5	29.0	---	---	---				---	---	---
27	30.0	27.5	28.5	---	---	---				---	---	---
28	30.0	26.5	28.5	---	---	---				---	---	---
29	30.5	26.5	28.5	---	---	---				15.0	11.5	13.0
30	28.5	26.5	27.5	---	---	---				13.0	12.0	12.5
31	---	---	---	---	---	---				---	---	---

DELAWARE RIVER BASIN

01431500 LACKAWAXEN RIVER AT HAWLEY, PA

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, Hydrologic Unit 02040103, on left bank at Church Street Bridge in Hawley, 700 ft (213 m) upstream from Wallenpaupack Creek, and 3,000 ft (914 m) downstream from Middle Creek.

DRAINAGE AREA.--290 mi² (751 km²).

PERIOD OF RECORD.--July 1908 to September 1917, August 1938 to current year. Monthly discharge only for some periods, published in WSP 1302. October 1917 to December 1919, gage heights and discharge measurements only, in reports of Water Supply Commission of Pennsylvania.

REVISED RECORDS.--WSP 1951: 1938-41. WSP 1302: 1909-17. WSP 1432: 1942. WSP 1502: 1956.

GAGE.--Nonrecording gage, water-stage recorder, and crest-stage gage. Datum of gage is 869.00 ft (264.871 m) above mean sea level. Prior to 1938, nonrecording gage at same site and datum. August 10, 1938 to August 19, 1955, water-stage recorder and August 20, 1955 to February 13, 1956, nonrecording gage at site 1,000 ft (300 m) downstream at same datum.

REMARKS.--Records fair. Regulation by Prompton Lake and, at high flow, by General Edgar Jadwin Lake located 14.9 mi (24.0 km) and 13.0 mi (20.9 km) upstream, respectively (see Pennsylvania report).

AVERAGE DISCHARGE.--47 years (1908-17, 1938-76), 480 ft³/s (13.6 m³/s), 22.47 in/yr (571 mm/yr), adjusted for storage since October 1959.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 51,900 ft³/s (1,470 m³/s) Aug. 19, 1955, gage height, 24.8 ft (7.56 m) at present site, 20.6 ft (6.28 m) at former site, from floodmark, from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of slope-area measurement at gage height 24.2 ft (7.38 m) at present site, 20.1 ft (6.13 m) at former site; minimum daily, 8 ft³/s (0.23 m³/s) Sept. 8, 1909.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of 19.1 ft (5.82 m) at present site, 13.9 ft (4.24 m) at former site, from floodmarks, discharge, 27,600 ft³/s (782 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,940 ft³/s (168 m³/s) Oct. 19, gage height, 8.20 ft (2.499 m); minimum observed, 79 ft³/s (2.24 m³/s) Sept. 10; minimum daily, 81 ft³/s (2.29 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	482	291	458	590	1040	876	1900	293	220	658	370	120
2	400	280	482	463	1180	778	2220	686	259	375	284	112
3	335	267	409	497	967	772	1320	607	232	284	226	104
4	291	251	379	420	855	984	967	536	195	291	201	99
5	267	235	342	400	742	1450	760	439	173	362	170	94
6	244	223	335	350	652	1360	640	375	170	273	157	87
7	220	217	339	360	560	995	541	329	434	213	187	84
8	192	232	302	370	500	796	468	310	329	358	419	83
9	180	235	298	330	480	646	415	277	239	295	1510	81
10	170	244	370	300	430	602	370	249	204	232	1300	87
11	211	358	379	310	415	585	349	239	181	195	911	108
12	400	397	335	350	415	514	318	246	155	559	580	101
13	320	1870	302	330	420	574	295	246	140	325	420	94
14	284	1680	294	450	483	718	277	223	133	273	333	92
15	254	1100	288	420	434	574	256	204	138	226	277	86
16	226	841	291	400	504	499	242	195	142	255	273	90
17	226	688	284	390	3600	458	226	311	138	600	242	281
18	2090	585	257	340	4060	370	216	406	129	354	201	314
19	4500	517	250	320	3550	434	196	509	118	270	181	226
20	4800	468	240	310	3390	580	184	700	116	226	157	181
21	2680	604	230	350	2260	612	173	629	609	198	142	160
22	1460	1120	230	320	2950	796	163	602	439	181	138	138
23	1020	760	220	330	3440	612	155	439	382	176	136	118
24	784	596	220	310	2010	520	155	366	664	184	126	110
25	670	517	210	300	1460	468	163	329	392	163	120	94
26	612	473	600	290	1320	424	640	295	302	136	114	96
27	522	526	1080	3210	1280	392	563	263	232	124	439	317
28	444	688	946	4780	1200	546	397	242	216	120	291	288
29	404	543	712	2780	995	499	349	216	256	138	210	220
30	362	468	640	1700	---	439	322	210	283	938	168	168
31	320	---	629	1160	---	397	---	213	---	488	140	---
TOTAL	25370	17274	12351	23230	41592	20270	15240	11184	7620	9470	10423	4233
MEAN	818	576	398	749	1434	654	508	361	254	305	336	141
MAX	4800	1870	1080	4780	4060	1450	2220	700	664	938	1510	317
MIN	170	217	210	290	415	370	155	195	116	120	114	81
MEAN +	814	578	396	772	1424	642	508	360	256	304	332	145
CFSM +	2.81	1.99	1.37	2.66	4.91	2.21	1.75	1.24	.88	1.05	1.14	.50
IN. +	3.24	2.22	1.58	3.07	5.30	2.55	1.95	1.43	.98	1.21	1.31	.56
CAL YR 1975 TOTAL	219103				7000							
WTR YR 1976 TOTAL	198257				4800							
MEAN 600												
MEAN 542												
MIN 89												
MIN 81												
MEAN + 600												
MEAN + 542												
CFSM + 2.07												
CFSM + 1.87												
IN. + 28.11												
IN. + 25.42												

+ Adjusted for change in contents in Prompton Lake and General Edgar Jadwin Reservoir.

DELAWARE RIVER BASIN

207

01432000 WALLENPAUPACK CREEK AT WILSONVILLE, PA

LOCATION.--At hydroelectric plant of Pennsylvania Power and Light Co., at lower end of penstock, at Kimble, 3 mi (5 km) east of dam which is at lat 41°27'33", long 75°11'08", Pike County, Hydrologic Unit 02040103, at Wilsonville, 1.2 mi (1.9 km) south of Hawley.

DRAINAGE AREA.--228 sq mi (591 sq km).

PERIOD OF RECORD.--October 1909 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1302: 1918, 1923-24, WSP 1432: 1920-21. The mean discharge for September 1966 has been corrected to 141 ft³/s (3.99 m³/s), superseding figure published in WDR PA-66.

GAGE.--Daily discharge determined from flow through turbines, computed from records of generator output and flow over roller gates, computed on basis of head on gates. Prior to Nov. 3, 1925, nonrecording gage at site 1,000 ft (300 m) downstream from dam at datum 1,146.78 ft (349.539 m) above mean sea level, unadjusted.

REMARKS.--Records good. No flow over spillway or roller gates. Flow regulated by Lake Wallenpaupack.

COOPERATION.--Records of generator load, operation of powerplant, net operating head, water-surface elevations in lake and daily discharges furnished by Pennsylvania Power and Light Co., in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--67 years, 362 ft³/s (10.3 m³/s), 21.56 in/yr (548 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 6,440 ft³/s (183 m³/s) June 30, 1973; no flow at times each year subsequent to Nov. 3, 1925.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	680	1210	0	0	916	420	0	51	675	0	363
2	18	0	921	692	1090	908	458	0	0	694	456	394
3	702	713	923	521	1110	848	0	0	13	0	449	406
4	0	657	677	0	916	923	0	21	11	0	478	0
5	0	403	690	690	912	938	318	0	0	0	470	0
6	448	442	0	821	907	701	336	26	0	630	459	0
7	0	417	0	825	516	0	0	0	0	631	0	380
8	3.3	0	700	831	0	897	0	0	0	799	0	427
9	0	0	679	1030	821	939	288	0	0	816	922	395
10	0	422	739	446	918	929	0	0	0	428	1410	403
11	0	415	279	43	1190	906	0	0	399	23	1050	0
12	0	264	815	1050	1190	922	347	0	0	811	562	0
13	467	930	521	1000	1190	702	9.5	0	0	788	441	377
14	472	919	0	523	497	0	0	0	397	538	0	9.9
15	459	679	814	573	0	935	0	0	284	591	0	0
16	470	0	800	542	1180	929	0	0	284	573	590	364
17	460	688	670	41	1170	958	0	0	282	0	499	410
18	0	695	689	0	937	945	0	0	289	0	516	0
19	0	687	468	671	1140	697	0	0	0	565	469	0
20	1160	725	0	517	1180	21	0	0	0	723	466	266
21	933	683	0	504	869	0	0	0	272	681	0	269
22	916	0	256	509	805	717	23	0	386	683	18	340
23	918	6.6	339	1220	1430	696	0	0	393	477	439	419
24	899	736	347	0	918	823	0	0	380	60	463	465
25	688	799	0	0	921	832	0	0	396	0	452	0
26	0	815	462	898	917	484	0	0	18	686	437	0
27	924	0	17	1180	909	0	0	0	10	685	460	573
28	927	690	0	1770	700	0	0	0	407	461	0	558
29	886	471	465	1790	0	465	44	0	388	436	0	633
30	808	0	790	1800	---	450	0	0	458	278	464	581
31	885	---	675	927	---	532	---	0	---	0	482	---
TOTAL	13443.3	13936.6	14946	21414	24333	20013	2243.5	47	5118	13732	12452	8032.9
MEAN	434	465	482	691	839	646	74.8	1.52	171	443	402	268
MAX	1160	930	1210	1800	1430	958	458	26	458	816	1410	633
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-
CAL YR 1975	TOTAL	173871.70	MEAN 476	MAX 1650	MIN 0	CFSM	-	IN.	-	-	-	-
WTR YR 1976	TOTAL	149711.30	MEAN 409	MAX 1800	MIN 0	CFSM	-	IN.	-	-	-	-

DELAWARE RIVER BASIN

01432160 DELAWARE RIVER AT BARRYVILLE, NY

LOCATION.--Lat 41°28'31", long 74°54'46", Sullivan County, Hydrologic Unit 02040104, at Shohola-Barryville Bridge at Barryville, just upstream from Halfway Brook, and 1,000 ft (305 m) upstream of Shohola Brook.

DRAINAGE AREA.--2,692 mi² (6,972 km²).

PERIOD OF RECORD.--Water years 1958, 1968 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1967 to September 1973, March 1975 to current year.

INSTRUMENTATION.--Temperature recorder since October 1967.

REMARKS.--Unpublished records of daily temperatures for May to September 1964-66 are available in files of district office. Temperature probe may be influenced by solar radiation during periods of low flow. Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1968-73, 76), 30.0°C July 23, 1972; minimum (water years 1968-73, 76), freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 29.5°C June 12, 14, 19, July 23, 28; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.0	15.5	---	---	---	7.0	6.5	7.0	0.5	0.0	0.5
2	16.0	14.5	15.5	---	---	---	6.5	5.0	6.0	0.0	0.0	0.0
3	---	---	---	---	---	---	5.5	3.5	4.5	0.5	0.0	0.0
4	---	---	---	---	---	---	4.0	2.5	3.5	0.5	0.0	0.0
5	---	---	---	---	---	---	4.0	2.0	3.0	0.0	0.0	0.0
6	---	---	---	---	---	---	4.0	2.5	3.0	0.0	0.0	0.0
7	---	---	---	---	---	---	3.0	2.0	2.5	0.0	0.0	0.0
8	---	---	---	---	---	---	3.5	1.5	2.0	0.0	0.0	0.0
9	---	---	---	---	---	---	4.0	2.5	3.0	0.0	0.0	0.0
10	---	---	---	---	---	---	4.5	3.5	4.0	0.0	0.0	0.0
11	---	---	---	13.0	11.5	12.0	4.0	3.5	3.5	0.0	0.0	0.0
12	---	---	---	11.5	9.5	10.0	4.0	3.0	3.5	0.0	0.0	0.0
13	---	---	---	10.0	9.5	10.0	4.0	3.0	3.5	0.0	0.0	0.0
14	---	---	---	10.0	8.5	9.0	4.0	3.5	3.5	0.0	0.0	0.0
15	---	---	---	8.5	6.5	7.5	5.0	3.5	4.0	0.0	0.0	0.0
16	---	---	---	7.5	6.0	6.5	5.0	4.0	4.5	0.0	0.0	0.0
17	---	---	---	8.5	6.0	7.0	4.0	2.5	3.0	0.0	0.0	0.0
18	---	---	---	9.0	7.0	8.0	3.5	1.0	2.0	0.0	0.0	0.0
19	---	---	---	10.0	8.5	9.0	1.5	0.0	0.5	0.0	0.0	0.0
20	---	---	---	10.0	9.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0
21	---	---	---	10.0	9.5	9.5	0.0	0.0	0.0	0.0	0.0	0.0
22	---	---	---	9.5	7.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0
23	---	---	---	7.0	6.0	6.5	0.0	0.0	0.0	---	---	---
24	---	---	---	6.5	5.0	5.5	0.0	0.0	0.0	---	---	---
25	---	---	---	6.5	5.0	6.0	0.5	0.0	0.0	---	---	---
26	---	---	---	6.5	5.0	6.0	0.5	0.0	0.5	---	---	---
27	---	---	---	6.5	5.5	6.0	0.5	0.0	0.5	---	---	---
28	---	---	---	6.5	5.0	5.5	0.0	0.0	0.0	---	---	---
29	---	---	---	6.5	5.0	6.0	0.0	0.0	0.0	---	---	---
30	---	---	---	6.5	5.5	6.0	0.5	0.0	0.0	---	---	---
31	---	---	---	---	---	---	0.5	0.5	0.5	---	---	---
MONTH	---	---	---	---	---	---	7.0	0.0	2.0	---	---	---

DELAWARE RIVER BASIN

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01432160 DELAWARE RIVER AT BARRYVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	11.0	10.5	11.0
2							---	---	---	12.5	10.5	11.5
3							---	---	---	12.0	11.0	11.5
4							---	---	---	11.0	9.5	10.0
5							---	---	---	11.5	8.5	10.0
6							---	---	---	14.5	11.0	12.5
7							---	---	---	15.0	14.0	14.5
8							---	---	---	14.5	13.0	13.5
9							---	---	---	14.0	12.5	13.5
10							---	---	---	16.0	13.0	14.5
11							---	---	---	16.0	15.0	15.5
12							---	---	---	15.5	14.0	15.0
13							---	---	---	16.0	13.0	14.5
14							---	---	---	17.5	14.5	16.0
15							---	---	---	20.5	16.5	18.5
16							---	---	---	20.0	19.0	19.5
17							---	---	---	20.0	18.5	19.0
18							---	---	---	19.5	16.5	18.5
19							---	---	---	16.5	13.5	15.0
20							---	---	---	17.5	12.5	14.5
21							20.5	18.0	19.0	17.0	15.0	16.0
22							19.0	17.5	18.0	17.5	16.0	16.5
23							18.5	16.0	17.0	17.0	15.0	16.0
24							15.5	13.5	14.5	17.5	15.0	16.5
25							13.5	11.5	13.0	18.0	17.0	17.5
26							11.5	9.0	10.5	17.5	15.0	16.0
27							9.0	8.0	8.0	17.5	14.5	16.0
28							8.5	7.5	8.0	20.0	16.5	18.0
29							9.5	8.0	9.0	20.0	18.5	19.5
30							11.5	9.0	10.0	19.5	19.0	19.5
31							---	---	---	21.0	19.0	20.0
MONTH							---	---	---	21.0	8.5	15.5
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.5	20.0	20.5	27.0	24.0	25.0	25.5	23.5	998.0	25.0	20.0	22.5
2	21.0	19.5	20.0	26.0	23.5	24.5	24.0	22.0	23.0	22.5	20.5	21.5
3	23.5	19.5	21.5	26.5	24.0	25.0	24.5	21.5	23.0	24.0	18.5	21.0
4	24.0	20.5	22.5	24.0	23.0	23.5	25.0	21.5	23.5	23.0	19.0	20.5
5	25.0	21.5	23.5	26.0	23.0	24.5	27.0	23.0	24.5	22.5	20.0	21.0
6	22.5	19.5	20.5	27.0	24.5	25.5	26.0	24.0	24.5	23.0	18.5	20.0
7	23.0	19.0	21.0	26.5	24.5	25.5	23.5	22.5	23.0	24.0	18.0	20.5
8	24.5	21.0	22.0	25.5	24.0	24.5	22.5	22.0	22.5	26.5	19.0	22.0
9	26.0	22.0	24.5	26.5	23.0	25.0	21.5	21.0	21.0	27.5	20.0	23.0
10	27.5	24.0	26.0	27.5	24.0	26.0	21.0	20.5	21.0	22.0	21.0	21.5
11	28.5	25.0	26.5	---	---	---	23.0	20.5	21.5	21.0	19.5	20.5
12	29.5	24.5	26.5	29.0	25.0	27.5	23.5	22.0	22.5	21.5	18.5	20.0
13	26.5	23.5	24.5	25.5	24.5	25.0	25.0	22.5	23.5	24.0	19.5	21.0
14	29.5	23.0	25.5	26.0	24.0	25.0	25.5	23.5	24.5	25.5	20.0	22.0
15	---	---	---	29.0	24.5	27.0	25.0	24.5	25.0	23.5	21.5	22.5
16	---	---	---	27.5	26.5	27.0	24.0	22.0	23.5	22.5	21.0	21.5
17	---	---	---	---	---	---	24.0	21.5	22.5	24.0	20.5	21.5
18	---	---	---	---	---	---	24.5	21.0	22.5	22.0	21.0	21.5
19	29.5	25.5	27.0	---	---	---	25.0	21.5	23.5	23.0	20.0	21.5
20	28.0	25.0	26.5	---	---	---	25.5	22.5	24.0	22.0	20.5	21.0
21	26.0	24.5	25.5	---	---	---	28.0	24.5	26.0	22.5	19.5	21.0
22	26.0	23.5	24.5	---	---	---	---	---	---	20.5	16.5	19.0
23	26.0	24.5	25.0	29.5	25.5	27.5	---	---	---	21.0	14.5	17.5
24	27.0	24.5	25.5	28.5	25.0	26.5	---	---	---	20.5	15.5	18.0
25	27.5	25.5	26.5	28.5	25.0	26.5	---	---	---	18.5	16.0	17.5
26	29.0	26.0	27.5	29.0	24.0	26.5	28.0	23.0	25.5	17.0	15.5	16.0
27	29.0	26.0	27.5	27.0	23.0	25.5	26.0	23.0	24.5	17.0	15.5	16.0
28	28.5	26.0	27.0	29.5	23.0	26.0	26.0	24.0	25.0	17.0	15.0	15.5
29	29.0	26.0	27.0	26.0	23.0	24.0	26.5	24.0	25.5	16.5	13.5	15.0
30	27.0	24.0	26.0	24.5	22.5	24.0	24.0	21.5	22.5	16.5	14.5	15.5
31	---	---	---	26.0	23.5	24.5	25.0	20.5	22.5	---	---	---
MONTH	29.5	19.0	24.5	---	---	---	28.0	20.5	59.5	27.5	13.5	20.0

DELAWARE RIVER BASIN

01432805 DELAWARE RIVER AT POND EDDY, NY

LOCATION.--Lat 41°26'20", long 74°49'11", Pike County, Pa.-Sullivan County, N.Y., Hydrologic Unit 02040104, at interstate bridge, at Pond Eddy, 450 ft (137 m) downstream from Mill Brook and 4.5 mi (7.2 km) upstream from Mongaup River.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1973 to current year.

INSTRUMENTATION.--Temperature recorder since October 1973.

REMARKS.--Missing record due to stolen equipment, probe damage by ice, vandalism, and instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Minimum (water year 1974), freezing point on many days during winter period.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.5°C June 26-28.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	14.5	15.0	8.0	7.0	7.0	---	---	---	2.0	2.0	2.0
2	15.5	14.5	15.0	8.0	7.5	7.5	---	---	---	2.0	2.0	2.0
3	14.5	13.0	13.5	10.0	8.0	8.5	---	---	---	2.0	2.0	2.0
4	16.0	13.5	15.0	11.5	10.0	11.0	---	---	---	2.0	2.0	2.0
5	16.0	15.0	15.5	12.0	11.0	11.5	---	---	---	2.0	2.0	2.0
6	16.0	14.5	15.0	11.5	10.5	11.0	---	---	---	2.0	2.0	2.0
7	16.5	15.0	15.5	11.5	10.5	11.0	---	---	---	2.0	2.0	2.0
8	16.0	14.5	15.0	13.0	11.0	12.5	---	---	---	2.0	2.0	2.0
9	15.5	14.5	15.0	13.5	12.5	13.0	---	---	---	2.0	2.0	2.0
10	14.5	10.5	13.0	---	---	---	---	---	---	2.0	2.0	2.0
11	10.5	10.5	10.5	---	---	---	---	---	---	2.0	2.0	2.0
12	10.5	10.0	10.5	---	---	---	---	---	---	2.0	2.0	2.0
13	12.0	10.0	10.5	---	---	---	---	---	---	2.0	2.0	2.0
14	13.5	11.5	12.0	---	---	---	---	---	---	2.0	2.0	2.0
15	14.0	12.5	13.5	---	---	---	---	---	---	2.0	2.0	2.0
16	14.5	13.5	14.0	---	---	---	---	---	---	2.0	2.0	2.0
17	13.5	11.5	12.5	---	---	---	---	---	---	2.0	2.0	2.0
18	11.5	11.0	11.5	---	---	---	5.0	3.0	4.0	2.5	2.0	2.0
19	11.5	10.5	11.0	---	---	---	3.0	1.5	2.0	2.5	2.0	2.0
20	11.5	11.0	11.0	---	---	---	1.5	1.5	1.5	2.0	2.0	2.0
21	11.5	10.5	11.0	---	---	---	2.0	1.5	1.5	2.0	2.0	2.0
22	12.5	11.0	11.5	---	---	---	2.0	2.0	2.0	2.0	2.0	2.0
23	12.5	11.5	12.0	---	---	---	2.0	2.0	2.0	2.5	2.0	2.0
24	12.5	11.5	12.0	---	---	---	2.0	2.0	2.0	2.0	2.0	2.0
25	13.5	12.5	12.5	---	---	---	2.5	2.0	2.0	2.0	2.0	2.0
26	13.5	12.5	13.0	---	---	---	2.5	2.0	2.0	2.0	2.0	2.0
27	12.5	11.5	12.0	---	---	---	2.5	2.0	2.0	4.0	2.0	3.0
28	12.5	11.5	12.0	---	---	---	2.5	2.0	2.0	3.5	3.0	3.0
29	12.5	12.0	12.0	---	---	---	2.5	2.0	2.0	---	---	---
30	12.0	9.5	11.0	---	---	---	2.0	2.0	2.0	---	---	---
31	9.5	7.5	8.5	---	---	---	2.0	2.0	2.0	---	---	---
MONTH	16.5	7.5	12.5	---	---	---	---	---	---	4.0	2.0	2.0

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TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												
JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	23.0	21.0	22.0	24.0	22.5	23.5	22.0	19.0	20.5
2	---	---	---	21.5	20.0	20.5	22.5	21.0	22.0	20.5	19.5	20.0
3	---	---	---	21.5	20.0	20.5	23.0	20.5	21.5	21.5	18.5	19.5
4	---	---	---	21.5	21.0	21.5	24.0	20.5	22.0	---	---	---
5	---	---	---	24.0	21.0	22.5	25.0	21.5	23.0	---	---	---
6	---	---	---	24.5	22.5	23.5	24.0	22.5	23.0	---	---	---
7	---	---	---	23.5	22.0	23.0	23.0	21.0	22.0	---	---	---
8	---	---	---	23.5	22.0	22.5	21.0	20.5	20.5	---	---	---
9	24.5	22.0	23.5	23.5	21.0	22.5	20.5	19.5	19.5	---	---	---
10	25.0	23.5	24.5	24.0	21.0	23.0	19.5	19.0	19.0	---	---	---
11	26.5	24.0	25.0	25.5	23.0	24.0	20.5	18.5	19.5	---	---	---
12	26.0	23.0	24.5	25.0	22.5	24.5	21.5	20.0	20.5	---	---	---
13	24.0	22.5	23.5	22.0	20.0	20.5	23.0	21.0	22.0	---	---	---
14	24.0	21.5	22.5	20.5	19.5	20.0	24.0	22.0	23.0	---	---	---
15	25.5	22.0	24.0	23.0	19.5	21.0	24.0	23.0	23.5	---	---	---
16	27.0	25.0	26.0	22.5	21.0	21.5	23.0	21.5	22.0	---	---	---
17	27.0	25.5	26.0	23.5	21.0	22.0	22.0	20.0	21.0	---	---	---
18	27.0	25.0	26.0	23.5	21.5	22.5	22.5	20.0	21.5	---	---	---
19	27.5	25.0	26.0	23.5	21.0	22.5	23.0	20.5	22.0	---	---	---
20	27.0	26.0	26.0	24.0	22.0	23.0	24.0	21.0	22.5	---	---	---
21	26.5	25.0	25.5	24.0	23.0	23.0	25.5	22.0	23.5	---	---	---
22	26.0	24.0	25.0	25.0	22.0	23.5	27.5	24.0	25.5	---	---	---
23	26.0	24.5	25.5	24.0	21.5	22.5	27.5	24.5	26.0	---	---	---
24	27.0	24.0	25.5	24.5	21.0	22.5	27.5	24.0	25.5	---	---	---
25	28.0	25.5	27.0	25.0	22.5	23.5	26.5	23.5	25.0	---	---	---
26	28.5	26.0	27.5	25.0	21.5	23.0	25.0	24.0	24.5	---	---	---
27	28.5	27.0	27.5	23.5	22.0	22.5	24.5	23.5	24.0	---	---	---
28	28.5	26.5	27.5	25.5	21.5	23.5	24.0	23.0	23.5	---	---	---
29	27.0	24.0	26.5	24.5	22.5	23.0	25.0	23.5	24.0	14.5	13.5	14.0
30	25.0	22.5	23.5	23.0	21.5	22.5	23.5	20.5	22.0	14.0	13.0	14.0
31	---	---	---	24.0	21.5	22.5	22.0	18.5	20.0	---	---	---
MONTH	---	---	---	25.5	19.5	22.5	27.5	18.5	22.5	---	---	---

DELAWARE RIVER BASIN

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01434000 DELAWARE RIVER AT PORT JERVIS, NY

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, Pa., Hydrologic Unit 02040104, on right bank 250 ft (76 m) downstream from bridge on U.S. Highways 6 and 209 at Port Jervis, 1.2 mi (1.9 km) upstream from Neversink River, and 6.5 mi (10.5 km) downstream from Mongaup River. Water-quality sampling site at discharge station.

DRAINAGE AREA.--3,076 mi² (7,967 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1904 to current year.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1031: 1905-36. WRD NY 1971: 1970.

GAGE.--Water-stage recorder. Datum of gage is 415.35 ft (126.599 m) above mean sea level. October 1904 to August 13, 1928, nonrecording gage at bridge 250 ft upstream at present datum, operated by U.S. Weather Bureau prior to June 20, 1914.

REMARKS.--Records good. Flow regulated by Lake Wallenpaupack and by Toronto, Cliff Lake, and Swinging Bridge Reservoirs (see Reservoirs in Delaware River Basin) and smaller reservoirs. Large diurnal fluctuations at medium and low flows caused by powerplants on tributary streams. Subsequent to September 1954, entire flow from 371 mi² (961 km²) of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 mi² (1,176 km²) of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 233,000 ft³/s (6,600 m³/s) Aug. 19, 1955, gage height, 23.91 ft (7.288 m), from floodmarks in gage house, from rating curve extended above 89,000 ft³/s (2,520 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 175 ft³/s (4.96 m³/s) Sept. 23, 1908, gage height, 0.6 ft (0.18 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge previously known, 205,000 ft³/s (5,810 m³/s) Oct. 10, 1903, gage height, 23.1 ft (7.04 m), reported by U.S. Weather Bureau, from rating curve extended above 70,000 ft³/s (1,980 m³/s) by velocity-area studies; maximum stage known, 25.5 ft (7.77 m) Mar. 8, 1904 (ice jam).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 56,500 ft³/s (1,600 m³/s) Jan. 28, gage height, 11.83 ft (3.606 m); maximum gage height, 11.89 ft (3.624 m) Jan. 27 (ice jam); minimum discharge, 1,000 ft³/s (28.3 m³/s) Sept. 4, 5; minimum daily, 1,340 ft³/s (37.9 m³/s) Sept. 5; minimum gage height, 1.97 ft (0.600 m) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6900	4230	6380	4740	12900	12500	11300	6510	3320	7540	2660	2020
2	5910	3370	7130	4200	13800	11700	18400	8630	3310	10000	2980	1850
3	5750	3060	6640	4460	14300	10900	14600	9950	3260	7540	2890	1790
4	4830	3310	6160	3340	11500	10500	12000	9080	2790	5760	2530	1530
5	3440	3730	5420	3480	9790	13000	10600	8460	2270	5110	2380	1340
6	3490	2960	4660	3730	8800	16200	9050	7650	1930	4910	2180	1360
7	3220	2820	3990	3820	8080	14400	7660	6830	2800	4250	2330	1420
8	2770	2640	4510	3810	6240	12400	6750	6000	3690	4710	3740	1740
9	2470	2440	4510	4220	6140	11000	6260	5130	3010	4710	6430	1630
10	2260	2990	4630	4400	6090	9540	5360	4740	2550	3670	10400	2050
11	2160	4020	4820	2950	6270	8780	4840	4410	2500	2670	10700	1940
12	3370	4320	4660	3170	6150	7720	4770	4940	1880	3420	7730	1790
13	4050	9580	4600	4460	5930	7330	3750	5000	1410	3830	5790	1870
14	4050	13900	3530	4320	5650	7670	3460	4450	1680	3570	4820	1920
15	4080	12000	3760	4600	4570	7040	3310	3620	1700	3100	4730	2020
16	3670	9580	4350	5120	4680	6840	2950	3150	2070	3240	4920	1650
17	3560	8710	4350	4400	13100	6460	2940	3560	2040	3280	4660	1970
18	9530	8170	4040	4200	23100	5360	2990	4630	1710	5030	4070	1780
19	28400	7610	3510	4430	24000	5370	2940	5800	1690	4180	3500	1760
20	33700	7130	2870	3850	28100	5040	2550	6980	1720	3920	3180	2210
21	22100	6870	2020	4310	22200	5220	2330	10000	2800	3800	2300	1740
22	15600	9890	2470	4180	22100	8280	2290	10700	3910	3400	1790	1550
23	12000	8670	3000	3500	32500	9380	2120	9690	3310	2810	2110	1770
24	9800	8090	3200	4000	23300	8550	1810	8720	3760	2770	2040	1790
25	8420	7690	2750	2200	18000	7850	1700	7770	3580	1830	2050	1880
26	6640	7130	2800	2800	15700	7110	3210	6790	2890	1830	1950	1800
27	5980	6230	3900	17000	15200	5750	6710	5790	2670	2120	2900	2510
28	5870	7610	5260	50200	15900	6730	7270	4820	2750	2110	4440	3670
29	5350	7490	5330	34400	14000	8810	7350	3960	2510	1670	2770	3170
30	4990	6010	4760	23300	---	7910	7010	3410	3030	3550	2500	2680
31	4440	---	5570	16500	---	7000	---	3120	---	4150	2150	---
TOTAL	238800	192250	135580	244090	398090	272340	178280	194290	78540	124480	119620	58160
MEAN	7703	6408	4374	7874	13730	8785	5943	6267	2618	4015	3859	1939
MAX	33700	13900	7130	50200	32500	16200	18400	10700	3910	10000	10700	3670
MIN	2160	2440	2020	2200	4570	5040	1700	3120	1410	1670	1790	1340
CAL YR 1975 TOTAL	2326430			6374	MAX 52300	MIN 1370						
WTR YR 1976 TOTAL	2234520			6105	MAX 50200	MIN 1340						

DELAWARE RIVER BASIN

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: February 1957 to September 1960, January to September 1973, June 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: February 1957 to September 1960, March 1971 to June 1976.

INSTRUMENTATION.--Temperature recorder since January 1973.

REMARKS.--New York State Water Quality Surveillance Network station 14 0010. No temperature record Nov. 18-20, Dec. 25-29, Mar. 12-26, June 24-July 19, due to clock stoppages.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 29.5°C July 19, 1959, Aug. 3, 1975; minimum (water years 1957-60, 73, 75-76), freezing point on many days during winter periods.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 760 mg/L June 29, 1973; minimum daily mean, less than 1 mg/L on many days.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 187,000 tons (170,000 tonnes) June 29, 1973; minimum daily, 1 ton (0.9 tonne) Aug. 29, 1957.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 26.0°C Aug. 22-24; minimum, freezing point on many days during winter period.

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 142 mg/L Jan. 28; minimum daily mean, less than 1 mg/L March 1.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 19,200 tons (17,400 tonnes) Jan. 28; minimum daily, 4.5 tons (4.1 tonnes) June 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT										
29...	1300	4660	64	7.3	13.0	1	11.3	107	87	87
NOV										
20...	1100	6450	62	7.1	8.0	1	11.7	100	46	12
DEC										
17...	1430	3510	64	6.9	3.5	1	13.9	101	85	17
JAN										
29...	1130	34300	57	69.0	1.0	15	14.4	102	290	200
FEB										
19...	1200	22500	60	6.5	2.5	6	14.0	108	60	110
MAR										
24...	1200	7890	58	6.6	5.0	1	13.5	104	90	83
APR										
29...	1200	7370	58	6.8	9.5	1	12.4	107	110	42
MAY										
27...	1100	5980	60	6.8	13.5	1	11.2	108	45	85
JUN										
17...	1030	1960	70	6.5	22.0	1	8.2	95	64	130

DATE	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)
OCT										
29...	28	16	8.5	1.6	2.2	.9	15	10	3.4	.0
NOV										
20...	21	12	6.0	1.4	2.1	.9	11	9.0	3.5	.2
DEC										
17...	23	11	6.8	1.5	2.4	.7	15	11	3.7	.1
JAN										
29...	18	6	6.0	.8	2.0	.8	15	8.0	3.6	.1
FEB										
19...	20	6	5.7	1.3	2.4	.7	16	10	4.7	.0
MAR										
24...	18	5	5.5	1.0	2.2	.7	16	9.9	4.5	.1
APR										
29...	21	9	6.0	1.5	1.9	.6	15	11	3.3	.1
MAY										
27...	20	8	6.0	1.2	1.9	.7	14	9.3	4.1	.0
JUN										
17...	22	6	6.5	1.4	3.4	.9	20	7.3	4.5	.1

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

DELAWARE RIVER BASIN

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01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
OCT 29...	2.3	38	36	.14	.00	.05	.05	.02	.00
NOV 20...	2.3	43	31	.22	.00	.17	.17	.02	.01
DEC 17...	2.2	42	36	.27	.00	.07	.07	.02	.01
JAN 29...	2.4	44	31	.57	.03	.00	.00	.11	.02
FEB 19...	3.0	36	36	.58	.00	.29	.29	.07	.02
MAR 24...	2.3	34	34	.44	.05	.14	.19	.02	.01
APR 29...	2.0	25	34	.38	.01	.19	.20	.03	.01
MAY 27...	1.3	36	31	.25	.02	.18	.20	.03	.01
JUN 17...	1.9	45	36	.25	.04	.19	.23	.03	.01

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT 29...	1	1	0	0	160	2	40	<.5	10
NOV 20...	0	1	10	0	70	2	20	<.5	10
DEC 17...	0	0	10	0	70	3	10	<.5	10
JAN 29...	2	2	10	10	1900	16	260	<.5	30
FEB 19...	1	0	<10	0	630	8	80	<.5	10
MAR 24...	0	0	<10	0	130	3	20	<.5	10
APR 29...	0	1	20	10	150	6	50	<.5	10
MAY 27...	0	0	<10	10	80	3	30	<.5	0
JUN 17...	0	1	20	0	140	8	60	<.5	10

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Apr. 28	36	0.610	0.460	0.16	0.000	940	Polyethylene strip
June 16	22	5.00	4.08	4.45	.282	210	Polyethylene strip

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Oct. 29	1300	CHLOROPHYTA			Nov. 20	1100	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		MICRACTINIACEAE					OCCYSTACEAE		
		MICRACTINIUM	160	1			ANKISTRODESMUS	260	1
		SCENEDESMACEAE					SCENEDESMACEAE		
		SCENEDESMUS	330	3			SCENEDESMUS	260	1
		VOLVOCALES					CHRYSOPHYTA		
		VOLVOCEAE					BACILLARIOPHYCEAE		
		PANDORINA	L	0			CENTRALES		
		CHRYSOPHYTA					COSCINODISCEAE		
		BACILLARIOPHYCEAE					CYCLOTELLA	130	1
		CENTRALES					MELOSIRA	260	1
		COSCINODISCEAE					PENNALES		
		MELOSIRA	L	0			ACHNANTHACEAE		
		PENNALES					ACHNANTHES	260	1
		ACHNANTHACEAE					CYMBELLACEAE		
		ACHNANTHES	110	1			CYMBELLA	130	1
		CYMBELLACEAE					FRAGILARIACEAE		
		CYMBELLA	110	1			ASTERIONELLA	260	1
		FRAGILARIACEAE					GOMPHONEMACEAE		
		ASTERIONELLA	L	0			GOMPHONEMA	390	2
		GOMPHONEMACEAE					MERIDIONACEAE		
		GOMPHONEMA	L	0			MERIDION	130	1
		NAVICULACEAE					NAVICULACEAE		
		NAVICULA	160	1			NAVICULA	390	2
		CYANOPHYTA					CYANOPHYTA		
		MYXOPHYCEAE					MYXOPHYCEAE		
		CHROOCOCCALES					OSCILLATORIALES		
		CHROOCOCCACEAE					NOSTOCACEAE		
		ANACYSTIS	4,200	33			APHANIZOMENON	16,000	86
		OSCILLATORIALES					PYRRHOPHYTA		
		NOSTOCACEAE					DINOPHYCEAE		
		ANABAENA	490	4			PERIDINIALES		
		APHANIZOMENON	7,000	55			PERIDINIAEAE		
							PERIDINIUM	130	1
		TOTAL	13,000				TOTAL	19,000	
Dec. 17	1430	CHRYSOPHYTA			Jan. 29	1130	CHLOROPHYTA		
		BACILLARIOPHYCEAE					CHLOROPHYCEAE		
		CENTRALES					CHLOROCOCCALES		
		COSCINODISCEAE					SCENEDESMACEAE		
		MELOSIRA	L	0			SCENEDESMUS	140	6
		PENNALES					ZYGNEATALES		
		ACHNANTHACEAE					DESMIDIACEAE		
		ACHNANTHES	85	1			STAUSTRUM	L	0
		CYMBELLACEAE					CHRYSOPHYTA		
		CYMBELLA	L	0			BACILLARIOPHYCEAE		
		DIATOMACEAE					CENTRALES		
		DIATOMA	L	0			COSCINODISCEAE		
		FRAGILARIACEAE					CYCLOTELLA	140	6
		ASTERIONELLA	L	0			MELOSIRA	L	0
		FRAGILARIA	L	0			PENNALES		
		HANNAEA	L	0			ACHNANTHACEAE		
		SYNEDRA	130	2			ACHNANTHES	410	18
		GOMPHONEMACEAE					COCCONEIS	L	0
		GOMPHONEMA	L	0			CYMBELLACEAE		
		NAVICULACEAE					CYMBELLA	140	6
		NAVICULA	L	0			EPITHEMIA	L	0
		CYANOPHYTA					FRAGILARIACEAE		
		MYXOPHYCEAE					ASTERIONELLA	410	18
		CHROOCOCCALES					FRAGILARIA	610	27
		CHROOCOCCACEAE					SYNEDRA	140	6
		GOMPHOSPHERIA	1,200	17			GOMPHONEMACEAE		
		OSCILLATORIALES					GOMPHONEMA	68	3
		NOSTOCACEAE					NAVICULACEAE		
		ANABAENA	530	8			NAVICULA	200	9
		APHANIZOMENON	4,900	71			NITZSCHIAEAE		
		EUGLENOPHYTA					NITZSCHIA	L	0
		EUGLENALES					TABELLARIACEAE	L	0
		EUGLENAEAE					TABELLARIA	L	0
		TRACHELOMONAS	L	0			CYANOPHYTA		
		PYRRHOPHYTA					MYXOPHYCEAE		
		DINOPHYCEAE					OSCILLATORIALES		
		PERIDINIALES					OSCILLATORIAEAE		
		GLENODINIACEAE					OSCILLATORIA	L	0
		GLENODINIUM	L	0			TOTAL	2,200	
		TOTAL	6,900						

L - less than 1%, may not have been actually counted.

DELAWARE RIVER BASIN

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01434000 DELAWARE RIVER AT PORT JERVIS NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Feb. 19	1200	CHLOROPHYTA			Mar. 24	1200	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		SCENEDESMACEAE					OCCYSTACEAE		
		SCENEDESMUS	L	0			ANKISTRODESMUS	L	0
		VOLVOCALES					TETRASPORALES		
		CHLAMYDOMONADACEAE					PALMELLACEAE		
		CHLAMYDOMONAS	8	2			PALMODICTYON	56	5
		CHRYSOPHYTA					VOLVOCALES		
		BACILLARIOPHYCEAE					CHLAMYDOMONADACEAE		
		CENTRALES					CARTERIA	22	2
		COSCINODISCEAE					CHLAMYDOMONAS	34	3
		CYCLOTELLA	16	4			PHACOTACEAE		
		MELOSTRA	L	0			PTEROMONAS	110	10
		PENNALES					CHRYSOPHYTA		
		ACHNANTHACEAE					BACILLARIOPHYCEAE		
		ACHNANTHES	49	12			CENTRALES		
		COCCONEIS	L	0			COSCINODISCEAE		
		CYMBELLACEAE					CYCLOTELLA	11	1
		CYMBELLA	16	4			PENNALES		
		DIATOMACEAE					ACHNANTHACEAE		
		DIATOMA	8	2			ACHNANTHES	56	5
		FRAGILARIACEAE					CYMBELLACEAE		
		ASTERIONELLA	65	16			CYMBELLA	78	7
		FRAGILARIA	74	18			FRAGILARIACEAE		
		HANNAEA					ASTERIONELLA	160	14
		HANNAEA ARCUS	16	4			FRAGILARIA	130	12
		SYNEDRA	41	10			SYNEDRA	22	2
		GOMPHONEMATACEAE					GOMPHONEMATACEAE		
		GOMPHONEMA	33	3			GOMPHONEMA	67	6
		MERIDIONACEAE					MERIDIONACEAE		
		MERIDION	L	0			MERIDION	11	1
		NAVICULACEAE					NAVICULACEAE		
		FRUSTULIA	L	0			NAVICULA	11	1
		NAVICULA	41	10			NITZSCHACEAE		
		NITZSCHACEAE					NITZSCHIA	11	1
		NITZSCHIA	16	4			CHRYSOPHYCEAE		
		CYANOPHYTA					CHRYSONOMADALES		
		MYXOPHYCEAE					OCHROMONADACEAE		
		OSCILLATORIALES					DINOBRYON	11	1
		OSCILLATORIACEAE					CYANOPHYTA		
		LYNGBYA	25	6			MYXOPHYCEAE		
		TOTAL	410				OSCILLATORIALES		
							OSCILLATORIACEAE		
							OSCILLATORIA	340	30
							TOTAL	1,100	

L - less than 1%, may not have been actually counted.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Apr. 29	1200	CHLOROPHYTA			May 27	1100	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		SCENEDESMACEAE					MICRACTINIACEAE		
		SCENEDESMUS	390	5			MICRACTINIUM	130	4
		CHRYSOPHYTA					OCCYSTACEAE		
		BACILLARIOPHYCEAE					ANKISTRODESMUS	60	2
		CENTRALES					DICTYOSPHAERIUM	45	2
		COSCINODISCAEAE					SELENASTRUM	52	2
		CYCLOTELLA	390	5			SCENEDESMACEAE		
		MELOSIRA	2,800	37			CRUCIGENIA	30	1
		PENNALES					SCENEDESMUS	180	6
		ACHNANTHACEAE					CHRYSOPHYTA		
		ACHNANTHES	1,100	14			BACILLARIOPHYCEAE		
		CYMBELLACEAE					CENTRALES		
		CYMBELLA	870	12			COSCINODISCAEAE		
		FRAGILARIACEAE					CYCLOTELLA	160	6
		ASTERIONELLA	290	4			MELOSIRA	210	7
		HANNAEA	290	4			PENNALES		
		SYNEDRA	680	9			ACHNANTHACEAE		
		GOMPHONEMACEAE					ACHNANTHES	290	10
		GOMPHONEMA	480	6			COCCONEIS	15	1
		NAVICULACEAE					CYMBELLACEAE		
		NAVICULA	97	1			AMPHORA	15	1
		NITZSCHACEAE					CYMBELLA	400	14
		NITZSCHIA	97	1			DIATOMACEAE		
		EUGLOPHYTA					DIATOMA	L	0
		CRYPTOPHYCEAE					FRAGILARIACEAE		
		CRYPTOMONIDALES					ASTERIONELLA	330	11
		CRYPTOMONODACEAE					FRAGILARIA	75	3
		CRYPTOMONAS	97	1			HANNAEA	37	1
		TOTAL	7,500				SYNEDRA	170	6
							GOMPHONEMACEAE		
							GOMPHONEMA	15	1
							NAVICULACEAE		
							NAVICULA	75	3
							NITZSCHACEAE		
							NITZSCHIA	75	3
							CYANOPHYTA		
							MYXOPHYCEAE		
							OSCILLATORIALES		
							OSCILLATORIAEAE		
							OSCILLATORIA	520	18
							TOTAL	2,900	
June 17	1030	CHLOROPHYTA							
		CHLOROPHYCEAE							
		CHLOROCOCCALES							
		HYDRODICTYACEAE							
		PEDIASTRUM	490	16					
		OCCYSTACEAE							
		ANKISTRODESMUS	120	4					
		DICTYOSPHAERIUM	490	16					
		SCENEDESMACEAE							
		SCENEDESMUS	1,200	40					
		TETRASTRUM	120	4					
		CHRYSOPHYTA							
		BACILLARIOPHYCEAE							
		PENNALES							
		ACHNANTHACEAE							
		ACHNANTHES	310	10					
		COCCONEIS	31	1					
		CYMBELLACEAE							
		CYMBELLA	120	4					
		FRAGILARIACEAE							
		ASTERIONELLA	31	1					
		GOMPHONEMACEAE							
		GOMPHONEMA	31	1					
		NAVICULACEAE							
		NAVICULA	31	1					
		NITZSCHACEAE							
		NITZSCHIA	31	1					
		TOTAL	3,000						

L - less than 1%, may not have been actually counted.

DELAWARE RIVER BASIN

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01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.5	16.0	9.0	7.5	8.5	7.0	6.5	7.0	1.0	0.5	1.0
2	16.0	15.0	15.5	10.0	8.0	9.0	6.5	5.0	6.0	0.5	0.5	0.5
3	15.0	13.5	14.5	10.5	9.0	10.0	5.0	3.5	4.5	1.0	0.5	0.5
4	14.5	13.5	14.0	12.5	10.5	11.5	4.0	3.0	3.5	1.0	0.5	0.5
5	14.0	13.0	14.0	13.0	11.5	12.0	3.0	2.5	3.0	1.0	0.5	0.5
6	15.5	13.5	14.5	12.0	11.0	11.5	4.0	2.5	3.5	1.0	0.5	0.5
7	15.5	14.0	15.0	12.5	10.5	11.5	3.5	2.5	3.0	1.0	0.5	0.5
8	15.0	13.5	14.5	14.0	12.0	13.0	2.5	2.0	2.0	0.5	0.0	0.5
9	15.0	14.0	14.5	14.0	12.5	13.5	3.0	2.5	3.0	0.5	0.0	0.5
10	14.5	13.5	14.0	14.5	13.5	14.0	4.5	3.0	3.5	0.5	0.0	0.5
11	14.0	13.0	13.5	13.5	12.0	13.0	4.0	3.5	4.0	0.5	0.0	0.5
12	13.0	12.5	13.0	11.5	10.5	11.0	4.0	3.5	3.5	0.5	0.5	0.5
13	13.5	12.5	13.0	10.5	9.5	10.0	3.5	3.5	3.5	0.5	0.5	0.5
14	15.5	13.5	14.5	9.5	8.0	8.5	4.5	3.5	4.0	0.5	0.5	0.5
15	16.0	15.0	15.5	8.0	7.0	7.5	4.5	4.0	4.5	0.5	0.5	0.5
16	16.5	15.5	16.0	7.0	6.5	6.5	5.0	4.0	4.5	0.5	0.0	0.5
17	15.5	14.0	14.5	7.0	6.0	6.5	4.0	3.5	3.5	0.5	0.0	0.5
18	14.0	12.5	13.5	---	---	---	3.5	1.5	3.0	0.5	0.5	0.5
19	12.5	12.0	12.0	---	---	---	1.5	0.5	1.0	0.5	0.5	0.5
20	12.5	12.0	12.0	---	---	---	1.0	0.5	1.0	0.5	0.5	0.5
21	12.5	12.0	12.0	9.5	9.0	9.5	1.0	0.5	1.0	0.5	0.0	0.5
22	13.0	12.0	12.5	9.0	7.5	8.5	0.5	0.0	0.5	0.5	0.5	0.5
23	13.5	12.5	13.0	7.5	6.0	7.0	1.0	0.5	0.5	0.5	0.5	0.5
24	13.5	13.0	13.5	6.0	5.5	5.5	1.0	0.5	0.5	0.5	0.0	0.5
25	14.0	13.5	14.0	6.0	5.5	6.0	---	---	---	0.5	0.0	0.5
26	14.0	13.0	14.0	6.0	5.5	5.5	---	---	---	0.5	0.0	0.5
27	13.0	12.5	13.0	6.0	5.5	6.0	---	---	---	0.5	0.0	0.5
28	13.5	12.0	13.0	6.0	5.5	5.5	---	---	---	1.0	0.0	0.5
29	13.0	12.5	13.0	6.0	5.0	5.5	---	---	---	1.0	0.5	1.0
30	13.0	10.0	11.5	6.5	5.5	6.0	0.5	0.5	0.5	1.5	1.0	1.5
31	10.0	8.5	9.5	---	---	---	1.0	0.5	1.0	1.5	0.5	1.0
MONTH	16.5	14.5	13.5	14.5	5.0	9.0	7.0	0.0	3.0	1.5	0.0	0.5
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	1.0	1.0	5.0	4.5	5.0	8.0	7.5	8.0	10.5	10.5	10.5
2	1.5	0.5	0.5	5.0	4.0	4.5	7.5	7.0	7.0	12.5	10.5	11.5
3	0.5	0.0	0.5	4.0	2.5	3.0	7.0	6.5	6.5	12.0	11.5	12.0
4	0.5	0.0	0.5	3.5	2.5	3.0	6.5	5.0	6.0	11.5	9.5	10.5
5	0.5	0.5	0.5	5.5	3.5	4.5	6.5	4.5	5.5	11.0	9.0	10.0
6	0.5	0.0	0.5	5.5	4.0	5.0	7.5	6.0	6.5	13.0	10.5	11.5
7	0.5	0.5	0.5	4.5	3.0	4.0	9.0	7.0	8.0	14.5	12.5	13.5
8	0.5	0.5	0.5	3.5	2.5	3.0	9.0	7.5	8.0	14.0	12.5	13.0
9	1.0	0.5	0.5	2.5	1.5	2.0	9.0	7.0	8.0	14.0	12.0	13.0
10	1.0	0.5	0.5	2.5	1.5	2.0	9.0	7.0	8.0	14.5	12.0	13.5
11	2.0	1.0	1.5	3.5	2.5	3.0	8.5	7.5	8.0	14.5	14.0	14.5
12	2.0	0.5	1.5	---	---	---	7.5	6.0	7.0	14.5	13.5	14.0
13	2.5	1.5	2.0	---	---	---	8.5	5.5	7.0	14.0	12.5	13.5
14	2.0	1.0	2.0	---	---	---	10.0	7.0	8.0	15.0	13.5	14.0
15	1.5	1.0	1.0	---	---	---	11.0	8.5	10.0	18.0	15.0	16.5
16	2.5	1.0	2.0	---	---	---	13.0	10.5	11.5	18.0	17.0	17.5
17	3.5	2.5	3.0	---	---	---	15.5	11.5	13.5	18.0	17.0	17.5
18	2.5	2.0	2.0	---	---	---	17.5	13.5	16.0	18.5	15.5	17.0
19	3.0	2.0	2.5	---	---	---	19.5	16.5	18.0	15.5	12.5	14.0
20	3.0	2.5	3.0	---	---	---	20.5	16.5	18.5	13.0	12.0	12.5
21	3.0	2.5	2.5	---	---	---	20.5	18.0	19.5	13.0	11.5	12.0
22	4.0	3.0	3.5	---	---	---	19.5	17.0	18.0	13.0	12.0	12.5
23	3.5	2.0	2.5	---	---	---	18.5	16.0	17.5	13.0	12.0	12.5
24	2.5	1.5	2.0	---	---	---	16.5	15.0	15.5	13.0	12.0	12.5
25	4.0	2.0	3.0	---	---	---	15.5	12.5	14.0	13.5	13.0	13.0
26	4.5	3.5	4.0	---	---	---	12.5	10.0	11.5	13.5	13.0	13.0
27	5.5	4.5	5.0	9.5	7.5	8.5	10.0	8.0	9.0	15.0	12.5	14.0
28	5.5	4.5	5.0	9.5	8.5	9.0	9.0	7.5	8.0	17.0	14.5	16.0
29	5.0	4.0	4.5	8.5	7.5	8.0	9.5	8.0	9.0	18.0	16.0	17.0
30	---	---	---	8.5	7.0	8.0	11.0	8.5	10.0	17.5	17.0	17.5
31	---	---	---	8.0	8.0	8.0	---	---	---	18.5	17.0	17.5
MONTH	5.5	0.0	2.0	---	---	---	20.5	4.5	10.5	18.5	9.0	14.0

DELAWARE RIVER BASIN

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	17.0	17.5	---	---	---	23.5	22.5	23.0	21.5	19.0	20.5
2	18.0	16.5	17.0	---	---	---	23.0	21.0	22.0	21.0	19.5	20.0
3	19.5	16.5	18.0	---	---	---	22.5	20.0	21.5	21.0	18.5	20.0
4	20.5	17.5	19.0	---	---	---	23.0	20.0	22.0	20.0	19.0	19.5
5	21.5	17.0	19.5	---	---	---	23.5	20.5	22.5	20.5	19.0	20.0
6	20.5	18.0	18.5	---	---	---	23.0	22.0	22.5	20.0	18.5	19.5
7	19.5	17.0	18.0	---	---	---	22.5	20.5	21.5	20.0	17.5	19.0
8	21.5	18.5	20.0	---	---	---	20.5	20.0	20.5	21.0	19.0	20.0
9	22.5	19.0	21.0	---	---	---	20.5	19.5	20.0	22.0	20.0	21.5
10	23.5	20.0	21.5	---	---	---	19.5	19.0	19.0	21.5	20.0	20.5
11	24.0	20.5	22.0	---	---	---	20.5	18.5	19.5	20.0	18.5	19.5
12	24.5	21.5	23.0	---	---	---	21.5	20.0	20.5	20.0	17.5	19.0
13	23.0	21.5	22.0	---	---	---	22.5	21.0	22.0	21.0	18.5	20.0
14	21.5	20.5	21.0	---	---	---	23.5	22.0	23.0	21.5	19.0	20.5
15	24.5	20.5	22.5	---	---	---	24.0	23.0	23.5	21.0	20.0	20.5
16	24.0	21.5	22.5	---	---	---	23.0	21.5	22.5	20.5	20.0	20.0
17	23.5	22.0	23.0	---	---	---	22.0	20.0	21.0	21.0	20.0	20.5
18	25.5	22.5	24.0	---	---	---	22.0	20.5	21.5	21.0	20.0	20.5
19	25.5	23.0	24.5	---	---	---	23.0	20.5	22.0	21.0	19.5	20.5
20	25.5	24.5	25.0	24.0	21.5	23.0	23.5	21.0	22.5	20.5	19.5	20.0
21	25.0	22.5	24.5	23.0	22.0	22.5	25.0	21.5	23.5	20.0	19.0	19.5
22	24.5	23.5	23.5	24.0	22.0	23.0	26.0	23.5	25.0	19.0	18.0	18.5
23	25.0	22.5	23.5	23.0	21.0	22.0	26.0	24.5	25.5	18.0	16.0	17.0
24	---	---	---	23.5	20.5	22.0	26.0	23.5	25.0	18.0	16.5	17.5
25	---	---	---	23.5	21.5	22.5	25.5	23.0	24.5	18.0	15.5	17.0
26	---	---	---	23.5	21.0	22.5	25.0	23.0	24.0	17.0	15.0	16.0
27	---	---	---	23.0	21.5	22.5	24.5	23.0	23.5	16.0	15.5	15.5
28	---	---	---	24.0	21.5	23.0	24.0	23.0	23.5	16.0	14.5	15.0
29	---	---	---	23.0	22.0	22.0	25.0	23.0	23.5	15.5	13.5	14.5
30	---	---	---	23.0	21.5	22.5	23.0	21.0	21.5	15.0	13.5	14.5
31	---	---	---	23.5	21.5	22.5	21.0	19.0	20.0	---	---	---
MONTH	---	---	---	---	---	---	26.0	18.5	22.5	22.0	13.5	19.0

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6900	4	75	4230	5	57	6380	3	52
2	5910	4	64	3370	8	73	7130	5	96
3	5750	5	78	3060	4	33	6640	4	72
4	4830	3	39	3310	2	18	6160	4	67
5	3440	7	65	3730	4	40	5420	6	88
6	3490	4	38	2960	5	40	4660	6	75
7	3220	3	26	2820	4	30	3990	3	32
8	2770	3	22	2640	2	14	4510	2	24
9	2470	4	27	2440	1	6.6	4510	3	37
10	2260	4	24	2990	4	32	4630	9	113
11	2160	2	12	4020	4	43	4820	3	39
12	3370	2	18	4320	5	58	4660	1	13
13	4050	2	22	9580	11	285	4600	5	62
14	4050	7	77	13900	16	600	3530	8	76
15	4080	6	66	12000	14	454	3760	5	51
16	3670	2	20	9580	14	362	4350	2	23
17	3560	3	29	8710	8	188	4350	1	12
18	9530	44	2320	8170	5	110	4040	5	55
19	28400	101	7840	7610	4	82	3510	5	47
20	33700	74	7040	7130	4	77	2870	4	31
21	22100	37	2210	6870	2	37	2020	3	16
22	15600	32	1350	9890	4	107	2470	4	27
23	12000	9	292	8670	3	70	3000	7	57
24	9800	28	741	8090	2	44	3200	8	69
25	8420	12	273	7690	2	42	2750	4	30
26	6640	15	269	7130	3	58	2800	4	30
27	5980	15	242	6230	4	67	3900	7	74
28	5870	21	333	7610	4	82	5260	5	71
29	5350	6	87	7490	3	61	5330	3	43
30	4990	6	81	6010	5	81	4760	5	64
31	4440	5	60	---	---	---	5570	8	120
TOTAL	238800	---	23840	192250	---	3251.6	135580	---	1666
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4740	9	115	12900	39	1360	12500	1	20
2	4200	7	79	13800	26	969	11700	1	32
3	4460	5	60	14300	21	811	10900	4	118
4	3340	5	45	11500	21	652	10500	11	312
5	3480	3	28	9790	16	423	13000	17	597
6	3730	5	50	8800	18	428	16200	10	437
7	3820	4	41	8080	22	480	14400	3	117
8	3810	6	62	6240	19	320	12400	7	234
9	4220	5	57	6140	10	166	11000	4	119
10	4400	4	48	6090	7	115	9540	5	129
11	2950	4	32	6270	8	135	8780	4	95
12	3170	5	43	6150	10	166	7720	3	63
13	4460	5	60	5930	6	96	7330	5	99
14	4320	4	47	5650	2	31	7670	6	124
15	4600	5	62	4570	4	49	7040	4	76
16	5120	5	69	4680	4	51	6840	3	55
17	4400	2	24	13100	11	389	6460	2	35
18	4200	4	45	23100	54	3370	5360	4	58
19	4430	3	36	24000	30	1940	5370	5	72
20	3850	4	42	28100	33	2500	5040	4	54
21	4310	12	140	22200	35	2100	5220	4	56
22	4180	12	135	22100	26	1550	8280	22	492
23	3500	7	66	32500	52	4560	9380	9	228
24	4000	5	54	23300	14	881	8550	4	92
25	2200	6	36	18000	4	194	7850	6	127
26	2800	18	136	15700	1	42	7110	2	38
27	17000	139	8810	15200	4	164	5750	3	47
28	50200	142	19200	15900	1	43	6730	4	73
29	34400	78	7240	14000	2	76	8810	4	95
30	23300	68	4280	---	---	---	7910	4	85
31	16500	39	1740	---	---	---	7000	7	132
TOTAL	244090	---	42882	398090	---	24061	272340	---	4311

DELAWARE RIVER BASIN

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL				MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	11300	26	793	6510	7	123	3320	31	278	
2	18400	29	1440	8630	10	233	3310	15	134	
3	14600	22	867	9950	8	215	3260	6	53	
4	12000	9	292	9080	9	221	2790	3	23	
5	10600	12	343	8460	7	160	2270	5	31	
6	9050	8	195	7650	6	124	1930	7	36	
7	7660	14	290	6830	5	92	2800	12	91	
8	6750	12	219	6000	4	65	3690	14	139	
9	6260	9	152	5130	3	42	3010	6	49	
10	5360	7	101	4740	7	90	2550	2	14	
11	4840	6	78	4410	8	95	2500	8	54	
12	4770	10	129	4940	10	133	1880	4	20	
13	3750	12	121	5000	9	122	1410	2	7.6	
14	3460	8	75	4450	5	60	1680	1	4.5	
15	3310	6	54	3620	3	29	1700	2	9.2	
16	2950	7	56	3150	3	26	2070	3	17	
17	2940	8	64	3560	2	19	2040	2	11	
18	2990	3	24	4630	4	50	1710	1	4.6	
19	2940	2	16	5800	9	141	1690	2	9.1	
20	2550	4	28	6980	24	452	1720	9	42	
21	2330	5	31	10000	50	1350	2800	28	292	
22	2290	9	56	10700	65	1880	3910	44	465	
23	2120	9	52	9690	22	576	3310	36	322	
24	1810	10	49	8720	6	141	3760	8	81	
25	1700	8	37	7770	3	63	3580	10	97	
26	3210	13	113	6790	5	92	2890	17	133	
27	6710	11	199	5790	3	47	2670	26	187	
28	7270	9	177	4820	1	13	2750	18	134	
29	7350	9	179	3960	8	86	2510	14	95	
30	7010	5	95	3410	25	230	3030	12	98	
31	---	---	---	3120	33	278	---	---	---	
TOTAL	178280	---	6325	194290	---	7248	78540	---	2931.0	

SUSPENDED-SEDIMENT MEASUREMENTS. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM	DATE	TIME	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. & FINER THAN .062 MM
JAN					APR				
29...	1200	87	8170	62	29...	1200	9	177	62
FEB					MAY				
19...	1230	23	1400	69	27...	1500	3	46	97
19...	1300	25	1520	50	JUN				
MAR					17...	1030	2	11	82
24...	1200	2	43	16					
24...	1330	5	106	62					

DELAWARE RIVER BASIN

223

01435000 NEVERSINK RIVER NEAR CLARYVILLE, NY

LOCATION.--Lat 41°53'24", long 74°35'25", Sullivan County, Hydrologic Unit 02040104, on left bank 50 ft (15 m) downstream from covered bridge, 300 ft (91 m) upstream from small tributary, 2.2 mi (3.5 km) downstream from confluence of East and West Branches, and 2.2 mi (3.5 km) southwest of Claryville.

DRAINAGE AREA.--65.6 mi² (170 km²).

PERIOD OF RECORD.--July 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,527.37 ft (465.542 m) above mean sea level (revised). Prior to October 1, 1974, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--25 years, 187 ft³/s (5.296 m³/s), 38.71 in/yr (983.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s (289 m³/s) July 10, 1952, gage height, 8.83 ft (2.691 m) present datum, from rating curve extended above 4,000 ft³/s (113 m³/s); minimum, 6.8 ft³/s (0.19 m³/s) Sept. 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 23,400 ft³/s (663 m³/s) Nov. 25, 1950, by slope-area measurement, gage height, about 10.0 ft (3.05 m) present datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge above base of 3,000 ft³/s (85 m³/s), 5,330 ft³/s (151 m³/s) Jan. 27, gage height, 5.91 ft (1.801 m); maximum gage height, 5.99 ft (1.826 m) Jan. 27 (ice jam); minimum discharge, 52 ft³/s (1.47 m³/s) Sept. 22, 23, gage height, 0.98 ft (0.299 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	137	254	116	314	435	1360	375	144	646	80	85
2	182	129	228	100	520	380	726	1140	144	270	71	76
3	163	123	199	118	308	331	476	507	131	191	66	70
4	148	121	182	106	190	358	380	375	123	233	63	66
5	137	111	169	94	242	741	308	292	114	191	60	63
6	129	106	166	110	212	810	265	246	125	154	61	60
7	118	103	157	116	203	495	233	224	184	151	109	76
8	111	137	145	116	191	380	212	195	133	161	105	70
9	106	113	142	110	165	303	188	176	112	139	90	64
10	101	203	239	110	180	281	172	158	105	116	418	59
11	203	250	182	116	158	242	165	158	100	111	195	56
12	274	231	154	118	147	212	151	424	98	116	141	55
13	169	574	145	108	141	297	147	229	93	107	118	59
14	239	399	148	317	136	246	141	195	91	103	112	116
15	189	295	148	121	125	207	133	176	88	98	100	100
16	169	250	142	106	136	191	169	161	88	107	95	77
17	160	221	131	99	380	172	147	303	105	161	87	67
18	648	206	129	110	275	169	139	336	87	103	79	64
19	461	189	116	120	458	172	128	347	82	93	73	60
20	399	176	101	111	369	265	118	470	82	87	71	56
21	322	369	121	101	275	533	114	539	128	85	68	55
22	270	389	118	92	639	507	112	418	154	83	66	54
23	231	274	108	101	545	336	109	325	141	80	63	144
24	210	235	110	97	386	308	105	270	131	180	61	391
25	224	217	90	92	352	325	133	237	118	79	60	161
26	228	199	200	763	418	325	320	216	103	73	109	116
27	193	308	247	4160	584	364	195	191	95	71	424	102
28	173	283	151	1670	552	787	169	169	91	68	147	95
29	163	221	110	704	458	429	158	158	112	74	131	88
30	151	203	123	452	---	347	151	151	470	118	105	111
31	142	---	131	320	---	308	---	147	---	82	91	---
TOTAL	6619	6772	4786	10974	9059	11256	7324	9308	3772	4251	3519	2716
MEAN	214	226	154	354	312	363	244	300	126	137	114	90.5
MAX	648	574	254	4160	639	810	1360	1140	470	646	424	391
MIN	101	103	90	92	125	169	105	147	82	68	60	54
CFSM	3.26	3.45	2.35	5.40	4.76	5.53	3.72	4.57	1.92	2.09	1.74	1.38
IN.	3.75	3.84	2.71	6.22	5.14	6.38	4.15	5.28	2.14	2.41	2.00	1.54
CAL YR 1975	TOTAL	84348	MEAN 231	MAX 2110	MIN 50	CFSM 3.52	IN 47.83					
WTR YR 1976	TOTAL	80356	MEAN 220	MAX 4160	MIN 54	CFSM 3.35	IN 45.57					

DELAWARE RIVER BASIN

01436000 NEVERSINK RIVER AT NEVERSINK, NY

LOCATION.--Lat 41°49'12", long 74°38'09", Sullivan County, Hydrologic Unit 02040104, on right bank at downstream end of outlet channel, 1,650 ft (503 m) downstream from Neversink Dam and State Highway 55, 1.7 mi (2.7 km) southwest of Neversink, and 2.6 mi (4.2 km) upstream from Wynkoop Brook.

DRAINAGE AREA.--91.9 mi² (238 km²).

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WRD NY 1972: 1961 (M), 1968 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,255.24 ft (382.597 m) above mean sea level (Board of Water Supply, City of New York datum). Prior to Jan. 17, 1953, water-stage recorder at site 650 ft (198 m) downstream at datum 0.20 ft (0.061 m) lower. Jan. 17, 1953 to Apr. 16, 1954, water-stage recorder at present site at datum 0.41 ft (0.125 m) higher.

REMARKS.--Records fair. Subsequent to June 1953, entire flow from 91.8 mi² (238 km²) of drainage area controlled by Neversink Reservoir (see Delaware River Basin, Reservoirs in). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation release and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,300 ft³/s (632 m³/s) Nov. 25, 1950, from rating curve extended above 2,600 ft³/s (73.6 m³/s) on basis of contracted-opening and critical-depth measurements of peak flow; maximum gage height, 11.65 ft (3.551 m) Sept. 27, 1942, site and datum then in use; no flow for all or part of each day Sept. 22-24, Oct. 26-29, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft³/s (1.388 m³/s) Aug. 26, gage height, 3.24 ft (0.988 m); minimum, 2.9 ft³/s (0.08 m³/s) Apr. 8, gage height, 2.31 ft (0.704 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	12	4.7	4.7	5.0	4.5	5.5	15	15	14	14	14
2	14	5.8	4.7	4.7	5.2	4.4	4.7	15	15	14	14	17
3	14	5.8	4.7	4.7	5.0	4.5	4.7	14	15	14	14	24
4	14	5.8	4.7	4.6	5.0	4.5	4.7	14	15	14	14	30
5	15	5.7	4.7	4.6	4.9	4.6	4.6	15	15	14	14	31
6	14	5.7	4.7	4.7	4.4	4.5	4.6	15	15	14	21	32
7	14	5.7	4.7	4.7	4.4	4.4	7.7	15	15	14	24	30
8	15	5.8	5.1	4.6	4.4	4.4	12	15	15	14	14	29
9	15	5.7	4.8	4.7	4.9	4.5	14	15	15	14	14	30
10	15	6.0	4.9	4.7	4.5	5.1	14	15	15	14	14	31
11	15	5.6	4.7	4.8	4.5	4.4	14	15	15	14	14	31
12	14	6.0	4.7	4.7	4.5	4.5	14	15	15	14	14	31
13	14	6.0	4.7	4.7	4.5	4.9	14	14	15	14	14	32
14	14	4.4	4.7	4.8	4.5	4.7	14	15	20	14	14	33
15	15	4.4	4.7	4.7	4.5	4.6	14	15	33	14	14	24
16	14	4.7	4.7	4.7	4.7	4.6	14	15	33	15	14	15
17	15	4.7	4.7	4.7	5.4	4.5	14	15	32	15	14	15
18	15	4.7	4.5	4.7	4.8	4.5	14	14	34	14	14	21
19	15	4.7	4.7	4.7	4.9	4.5	14	15	23	14	14	34
20	15	4.7	4.8	4.7	4.7	4.6	15	15	14	14	14	31
21	15	4.8	4.7	4.7	4.6	4.7	15	14	14	14	14	24
22	15	4.6	4.6	4.6	4.9	4.5	15	14	14	14	14	29
23	15	4.7	4.6	4.6	4.6	4.6	14	14	14	14	15	30
24	15	4.7	4.7	4.5	4.6	4.6	15	15	14	21	14	30
25	15	4.7	4.7	4.5	4.7	4.6	15	15	14	27	21	31
26	15	4.7	4.9	5.8	4.7	4.6	15	15	14	15	34	33
27	15	4.9	4.7	5.8	4.7	4.7	14	15	14	14	26	22
28	15	4.7	4.7	5.5	4.7	4.6	14	14	14	22	14	14
29	15	4.7	4.7	5.0	4.7	4.6	14	14	14	24	14	15
30	14	4.7	4.7	5.0	---	4.6	15	14	15	14	14	15
31	15	---	4.7	5.0	---	4.6	---	14	---	14	14	---
TOTAL	455	161.1	146.3	148.9	136.9	141.9	363.5	454	525	475	491	778
MEAN	14.7	5.37	4.72	4.80	4.72	4.58	12.1	14.6	17.5	15.3	15.8	25.9
MAX	15	12	5.1	5.8	5.4	5.1	15	15	34	27	34	34
MIN	14	4.4	4.5	4.5	4.4	4.4	4.6	14	14	14	14	14
CAL YR 1975	TOTAL	8209.1	MEAN	22.5	MAX	1060	MIN	4.4				
WTR YR 1976	TOTAL	4276.6	MEAN	11.7	MAX	34	MIN	4.4				

DELAWARE RIVER BASIN

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01437500 NEVERSINK RIVER AT GODEFFROY, NY

LOCATION.--Lat 41°26'28", long 74°36'07", Orange County, Hydrologic Unit 02040104, on right bank just upstream from highway bridge on Graham Road, 0.5 mi (0.8 km) downstream from Basher Kill, 0.8 mi (1.3 km) southeast of Godeffroy, 1.7 mi (2.7 km) south of Cuddebackville, and 8.5 mi (13.7 km) upstream from mouth.

DRAINAGE AREA.--302 mi² (782 km²).

PERIOD OF RECORD.--August to October 1903, August 1909 to April 1914 (gage heights and discharge measurements, also twice-daily figures of discharge for January 1911 to December 1912, which do not represent daily mean discharges because of diurnal fluctuation), and July 1937 to current year. August to October 1903, published as "Navesink River at Godeffroy, NY."

REVISED RECORDS.--WSP 821: Drainage area. WSP 1502: 1951(M).

GAGE.--Water-stage recorder. Datum of gage is 459.66 ft (140.104 m) above mean sea level (levels by Corps of Engineers). Prior to Apr. 30, 1914, nonrecording gages at same site (August to October 1903 at datum 0.98 ft or 0.299 m higher).

REMARKS.--Records good. Prior to 1949, diurnal fluctuation at low and medium flow caused by powerplant at Cuddebackville. Subsequent to June 1953, entire flow from 91.8 mi² (238 km²) of drainage area controlled by Neversink Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill), impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft³/s (935 m³/s) Aug. 19, 1955, gage height, 12.49 ft (3.087 m), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-area measurement of peak flow; practically no flow several times in July 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,680 ft³/s (161 m³/s) Jan. 28, gage height, 7.62 ft (2.323 m); minimum, 114 ft³/s (2.323 m³/s) July 29, gage height, 2.98 ft (0.908 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	379	285	516	396	1140	736	1170	300	246	1050	267	319
2	335	267	522	330	1320	670	1270	822	277	490	201	312
3	295	253	467	335	1100	639	947	589	247	331	166	299
4	258	248	426	335	900	608	822	528	219	347	146	271
5	233	236	384	320	740	767	703	455	207	346	133	256
6	214	221	373	310	650	947	602	396	199	272	124	235
7	203	210	361	290	600	744	540	367	308	236	308	222
8	199	271	325	267	540	639	485	335	268	260	526	211
9	192	300	325	260	480	558	449	305	216	246	391	211
10	182	285	479	250	450	534	408	281	188	210	871	224
11	253	414	467	240	430	528	379	262	173	191	703	254
12	437	414	396	240	410	491	361	577	157	225	495	215
13	340	1290	361	350	400	558	335	461	145	219	410	197
14	325	1080	345	300	390	711	320	367	135	190	389	181
15	335	895	340	270	380	577	300	335	132	176	355	164
16	305	783	335	280	455	552	285	310	136	167	521	163
17	305	686	305	280	1450	470	271	335	163	285	364	269
18	798	602	290	270	1630	450	258	473	155	252	280	351
19	973	540	250	260	1740	491	244	686	143	190	237	290
20	783	498	220	250	1930	583	229	647	141	166	212	263
21	670	589	214	240	1470	647	217	546	185	156	193	297
22	583	798	229	230	1780	711	210	510	229	148	178	233
23	522	616	229	220	1820	540	206	420	204	143	163	222
24	485	552	220	220	1300	479	199	379	182	204	152	209
25	467	516	270	250	1130	449	217	356	168	182	143	192
26	473	491	290	280	1050	426	443	331	152	157	136	209
27	420	577	430	2050	1010	402	408	306	135	132	1280	562
28	384	719	414	3970	929	602	325	276	128	123	1030	458
29	356	583	356	2350	814	510	281	251	238	125	605	373
30	335	534	335	1740	---	437	253	253	268	279	433	339
31	310	---	396	1360	---	396	---	253	---	247	354	---
TOTAL	12349	15753	10870	18743	28438	17852	13137	12712	5744	7745	11766	8001
MEAN	398	525	351	605	981	576	438	410	191	250	380	267
MAX	973	1290	522	3970	1930	947	1270	822	308	1050	1280	562
MIN	182	210	214	220	380	396	199	251	128	123	124	163
CAL YR 1975	TOTAL	181640	MEAN 498	MAX 3610	MIN 103							
WTR YR 1976	TOTAL	163110	MEAN 446	MAX 3970	MIN 123							

DELAWARE RIVER BASIN

01438000 NEVERSINK RIVER AT PORT JERVIS, NY

LOCATION.--Lat 41°21'40", long 74°41'07", Orange County, Hydrologic Unit 02040104, at bridge on U.S. Highway 6 (Main Street) in Port Jervis, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--333 mi² (862 km²).

PERIOD OF RECORD.--Water years 1969 to current year.

REMARKS.--Unpublished chemical analyses for September 1950 and October 1961 are available in files of district office.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG/L)
MAR 25...	1100	561	81	6.7	6.0	12.0	100	83	84	24
MAY 26...	1430	390	76	6.8	13.0	10.0	105	828	88	23

DATE	NON-CHLORIDE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
MAR 25...	11	7.5	1.2	4.4	.7	16	0	13	11
MAY 26...	8	6.6	1.5	4.0	.7	18	0	15	8.9

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KjFEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
MAR 25...	8.2	.0	2.1	43	--	--	--	--	--
MAY 26...	5.8	.1	2.8	39	.32	.28	.60	.06	.04

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAR 25...	6	0	<10	0	140	2	40	<.5	10
MAY 26...	0	0	<10	0	170	3	50	<.5	10

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

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll ^a (mg/m ²)	Chlorophyll ^b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Dec. 17	27	0.0	0.0	0.0	0.0	0.0	Polyethylene strip
Apr. 28	34	.920	.460	2.62	.190	180	Polyethylene strip
May 26	29	.308	.231	.000	.000	.0	Polyethylene strip

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION.--Lat 41°18'33", long 74°47'44", Sussex County, Hydrologic Unit 02040104, on right bank 0.4 mi (0.6 km) upstream from toll bridge at Montague, 0.8 mi (1.3 km) downstream from Sawkill Creek, and at mile 246.3 (396.3 km). Water-quality samples collected from toll bridge.

DRAINAGE AREA.--3,480 mi² (9,013 km²).

PERIOD OF RECORD.--

WATER DISCHARGE: Water years 1936 to September 1939 (gage heights only, published as "at Milford, PA). Water years 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

CHEMICAL ANALYSES: Water years 1956-73, July to September 1976.

PERIOD OF DAILY RECORD.--

WATER DISCHARGE: October 1939 to current year.

WATER TEMPERATURES: October 1956 to September 1957.

GAGE.--Water-stage recorder. Datum of gage is 369.93 ft (112.755 m) above mean sea level. Prior to Feb. 9, 1940, nonrecording gage on upstream side of left span of subsequently dismantled bridge at present site of datum 70 ft (21.3 m) lower.

REMARKS.--Discharge records excellent except those for January, which are fair. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see Delaware River Basin, reservoirs in) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see Delaware River Basin, diversions).

COOPERATION.--Field data (dissolved oxygen, water temperature, pH) and samples for laboratory analyses supplied by New Jersey Department of Environmental Protection, Division of Water Resources. Analyses of fecal coliform and fecal streptococci by the MPN method and selected water-phase nutrients were performed by the New Jersey Department of Health, Division of Laboratories and Epidemiology.

AVERAGE DISCHARGE.--37 years, 5,902 ft³/s (167.1 m³/s), unadjusted.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 83,100 ft³/s (2,350 m³/s) Jan. 27, gage height, 20.03 ft (6.105 m); minimum daily, 1,590 ft³/s (45.0 m³/s) Sept. 5.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 250,000 ft³/s (7,080 m³/s) Aug. 19, 1955 (gage height, 35.15 ft or 10.714 m), from rating curve extended above 90,000 ft³/s (2,550 m³/s) on basis of flood-routing study; minimum, 382 ft³/s (10.8 m³/s) Aug. 24, 1954, gage height, 3.83 ft (1.167 m); minimum daily, 412 ft³/s (11.7 m³/s) Aug. 23, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage during period 1903-76, 35.5 ft (10.82 m) Oct. 10, 1903, present datum, from floodmark.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7780	4850	7040	5500	14000	13700	12100	7120	3760	8680	3230	2440
2	6540	4130	8010	4510	15000	12800	20800	9520	3960	10900	3090	2230
3	6150	3410	7490	4800	16000	11900	16400	11200	3790	8270	3320	2210
4	5650	3860	6940	4000	13000	11500	13500	9970	3310	6570	2750	2140
5	4020	3940	6170	3500	11000	13800	11800	9370	2780	5820	2690	1590
6	3830	3440	5500	3900	10000	17400	10200	8510	2350	5300	2410	1680
7	3890	3290	4700	4100	9000	15800	8740	7670	3140	4910	2790	1650
8	3270	3320	4960	4000	7200	13400	7710	6810	4210	5120	4240	1930
9	2920	3000	5130	4400	6800	11900	7040	5830	3560	5300	6390	1930
10	2720	3290	5340	4800	6800	10500	6240	5380	3080	4310	11000	2140
11	2620	4680	5660	3300	6700	9680	5610	4940	2940	3340	11500	2390
12	3870	5040	5210	2900	6700	8660	5360	5880	2540	3700	8430	2120
13	4510	10200	5210	4700	6600	8210	4530	5920	1740	4260	6420	1950
14	4550	15600	4350	4800	6400	8880	4100	5250	1750	4070	5460	2190
15	4740	13500	4130	4700	5400	7980	4000	4440	2130	3470	5250	2120
16	4280	11000	4920	5600	5200	7800	3430	3830	2380	3520	5350	1910
17	4010	9590	4870	5000	13700	7380	3450	4060	2510	3630	5220	2050
18	8380	9220	4580	4500	25400	6230	3560	5330	1920	5380	4540	2320
19	27000	8530	4110	4400	26100	6210	3380	6810	2160	4340	3910	2070
20	34800	7990	3300	4100	30900	6160	3110	7760	1990	4220	3560	2380
21	24400	7730	2400	4500	25000	6180	2750	10600	2820	4120	2890	2120
22	17300	10900	2500	4500	23600	8800	2680	11400	4540	3720	2120	1900
23	13200	9890	3500	3800	35000	10300	2550	10400	3770	3280	2160	1810
24	10800	8880	3800	4400	26000	9470	2240	9360	4100	3190	2360	1980
25	9330	8650	3300	2800	20100	8680	2090	8490	3980	2280	2320	2170
26	7720	7960	3000	3000	17400	7950	3370	7500	3470	1950	2210	2000
27	6660	7360	4600	20000	16600	6720	7170	6470	3010	2360	3390	2790
28	6660	8460	5700	56000	17300	7340	7850	5440	2910	2320	5740	3950
29	6060	8520	5600	40000	15500	9550	7910	4650	3280	2070	3700	3790
30	5660	7140	5200	27000	---	8720	7590	4000	3910	3230	2830	3320
31	5080	---	6000	19000	---	7740	---	3690	---	4890	2750	---
TOTAL	258400	217370	153220	272510	438400	301340	201260	217600	91790	138520	134020	67270
MEAN	8335	7246	4943	8791	15120	9721	6709	7019	3060	4468	4323	2242
MAX	34800	15600	8010	56000	35000	17400	20800	11400	4540	10900	11500	3950
MIN	2620	3000	2400	2800	5200	6160	2090	3690	1740	1950	2120	1590

CAL YR 1975 TOTAL 2610730 MEAN 7153 MAX 57800 MIN 1530
WTR YR 1976 TOTAL 2491700 MEAN 6808 MAX 56000 MIN 1590

(NOTE: WATER-QUALITY DATA FOR THIS STATION ARE NOT PUBLISHED IN THIS REPORT: THEY ARE PUBLISHED IN THE SERIES "WATER RESOURCES DATA FOR NEW JERSEY.")

RESERVOIRS IN DELAWARE RIVER BASIN

01416900 PEPACTON RESERVOIR.--Lat 42°04'38", long 74°58'04", Delaware County, Hydrologic Unit 02040102, near release chamber at Downsview Dam on East Branch Delaware River, and 1.6 mi (2.6 km) east of Downsview, N.Y. DRAINAGE AREA, 371 mi² (961 km²). PERIOD OF RECORD, September 1954 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam; storage began Sept. 15, 1954. Usable capacity 140,190 mil gal (530.6 hm³) between minimum operating level, elevation, 1,152.0 ft (351.13 m) and crest of spillway, elevation, 1,280.0 ft (390.14 m). Capacity: at crest of spillway 149,700 mil gal (566.6 hm³); at minimum operating level, 9,609 mil gal (36.37 hm³); at sill of diversion tunnel, elevation, 1,143.0 ft (348.39 m), 6,098 mil gal (23.08 hm³); in dead storage below release outlet, elevation, 1,126.50 ft (343.357 m), 1,898 mil gal (7.184 hm³). Figures given herein represent total contents. Reservoir impounds water for diversion through East Delaware Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin (see elsewhere in this section), for water supply to City of New York; for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release. No diversion prior to Jan. 6, 1955. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 154,027 mil gal (583.0 hm³) Apr. 5, 1960, elevation, 1,282.27 ft (390.836 m); minimum observed (after first filling), 9,575 mil gal (36.24 hm³) Dec. 26, 1964, elevation, 1,151.92 ft (351.105 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 153,033 mil gal (579.2 hm³) Jan. 28, elevation, 1,281.74 ft (390.674 m); minimum observed, 119,931 mil gal (453.9 hm³) Sept. 30, elevation, 1,262.78 ft (384.895 m).

01424997 CANNONSVILLE RESERVOIR.--Lat 42°03'46", long 75°22'29", Delaware County, Hydrologic Unit 02040101, in emergency gate tower at Cannonsville Dam on West Branch Delaware River, and 1.8 mi (2.9 km) southeast of Stilesville, N.Y. DRAINAGE AREA, 454 mi² (1,176 km²). PERIOD OF RECORD, October 1963 to current year. REVISED RECORDS, WRD NY 1972: 1966. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam; storage began Sept. 30, 1963. Usable capacity 95,706 mil gal (362.2 hm³) between minimum operating level, elevation, 1,040.0 ft (316.99 m) and crest of spillway, elevation, 1,150.0 ft (350.52 m). Capacity, at crest of spillway, 98,618 mil gal (373.3 hm³); at minimum operating level, 2,912 mil gal (11.02 hm³); at mouth of inlet channel to diversion tunnel, elevation, 1,035.0 ft (315.47 m), 1,892 mil gal (7.161 hm³); in dead storage below release outlet elevation, 1,020.5 ft (311.05 m), 328 mil gal (1.241 hm³). Figures given herein represent total contents. Impounded water is diverted for New York City water supply via West Delaware Tunnel to Rondout Reservoir in Hudson River basin (see elsewhere in this section); is released in Delaware River for downstream low flow augmentation as directed by Delaware River Master; and is released for conservation flow in the Delaware River. No diversion prior to January 29, 1964. Records furnished by Board of Water Supply, City of New York.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 107,348 mil gal (406.3 hm³) June 30, 1973, elevation, 1,155.40 ft (352.166 m); minimum observed (after first filling), 11,901 mil gal (45.05 hm³) Nov. 7, 1968, elevation, 1,066.24 ft (324.990 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 105,940 mil gal (401.0 hm³) Jan. 28, elevation, 1,154.55 ft (351.907 m); minimum observed, 92,533 mil gal (350.2 hm³) Sept. 26, elevation, 1,146.00 ft (349.301 m).

01433000 SWINGING BRIDGE RESERVOIR.--Lat 41°34'25", long 74°47'00", Sullivan County, Hydrologic Unit 02040104, at dam on Mongaup River, and 1.8 mi (2.9 km) northwest of Fowlersville, N.Y. DRAINAGE AREA, 118 mi² (306 km²) excluding Cliff Lake, Lebanon Lake, and Toronto Reservoir. PERIOD OF RECORD, January 1930 to current year. REVISED RECORDS, WSP 1552: 1951-54. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,010 ft (308 m).

Reservoir is formed by an earthfill dam. Storage began Jan. 19, 1930. Usable capacity, 1,436.6 mil ft³ (40.7 hm³) between elevations 1,010.0 ft 307.85 m, minimum operating pool, and 1,071.2 ft (326.50 m), top of flashboards. Capacity below elevation 1,010.0 ft 307.85 m, minimum operating pool, about 212.7 mil ft³ (6.02 hm³). Reservoir is used for storage of water for power. Figures given herein represent contents above 1,010.0 ft (307.85 m). Water is received from Cliff Lake, Lebanon Lake, and Toronto Reservoir. Records furnished by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 1,457.4 mil ft³ (41.3 hm³) Mar. 18, 1936, Oct. 15, 1955 and June 29, 1973, elevation, 1,071.1 ft (326.65 m); minimum, after first filling, 141.4 mil ft³ (4.00 hm³) Dec. 2, 1938, elevation, 987.5 ft (300.99 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 1,403.7 mil ft³ (39.8 hm³) Feb. 29, elevation, 1,070.4 ft (326.258 m); minimum, 886.1 mil ft³ (25.1 hm³) Jan. 23, elevation, 1,056.3 ft (321.960 m).

01433100 TORONTO RESERVOIR.--Lat 41°37'15", long 74°49'55", Sullivan County, Hydrologic Unit 02040104, at dam on Black Lake Creek, and 2.5 mi (4.0 km) southeast of village of Black Lake, N.Y. DRAINAGE AREA, 23.2 mi² (60.1 km²). PERIOD OF RECORD, January 1926 to current year. REVISED RECORDS, WSP 1552: 1951-54. WSP 1702: 1959 (M). GAGE, nonrecording gage. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,165.0 ft (355.09 m).

Reservoir is formed by an earthfill dam completed July 24, 1926. Storage began Jan. 13, 1926. Usable capacity 1,098.2 mil ft³ (31.1 hm³) between elevations 1,165.0 ft (355.09 m), minimum operating pool, and 1,220.0 ft (371.86 m), top of permanent flashboards. Capacity below elevation 1,165.0 ft (355.09 m), minimum operating pool, about 26.8 mil ft³ (0.759 hm³). Reservoir is used for storage of water for power. Figures given herein represent contents above 1,165.0 ft (355.09 m). Records furnished by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 1,171.2 mil ft³ (33.2 hm³) July 20, 1945, elevation, 1,222.0 ft (372.47 m); minimum observed, after first filling, 26.8 mil ft³ (0.759 hm³) Nov. 15, 1928, elevation, 1,144.5 ft (348.84 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 1,112.6 mil ft³ (31.5 hm³) June 7, elevation, 1,220.4 ft (371.978 m); minimum observed, 422.2 mil ft³ (12.0 hm³) Sept. 30, elevation, 1,196.0 ft (364.541 m).

01433200 CLIFF LAKE.--Lat 41°35'00", long 74°47'40", Sullivan County, Hydrologic Unit 02040104, at dam on Black Lake Creek, and 2.5 mi (4.0 km) northwest of Fowlersville, N.Y. DRAINAGE AREA, 6.46 mi² (16.7 km²), excluding area above Toronto Reservoir. PERIOD OF RECORD, January 1939 to current year. REVISED RECORDS, WSP 1552: 1951-54. WRD NY 1975: 1974(m). GAGE, nonrecording gage. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). All capacity figures given herein are based on zero storage at minimum operating pool level, 1,043.3 ft (318.00 m).

Reservoir is formed by a concrete gravity-type dam. Storage began Jan. 6, 1939. Usable capacity, 136.06 mil ft³ (3.85 hm³) between elevations 1,043.3 ft (318.00 m), minimum operating pool, and 1,072.0 ft (326.75 m), top of permanent flashboards. Capacity below elevation 1,043.3 ft (318.00 m), minimum operating pool, about 6.54 mil ft³ (0.185 hm³). Reservoir is used for storage of water for power. Water is received from Toronto and Lebanon Lake reservoirs and is discharged through a tunnel into Swinging Bridge Reservoir. Figures given herein represent contents above 1,043.3 ft (318.00 m). Records furnished by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 145.44 mil ft³ (4.12 hm³) July 30, 31, 1945, elevation, 1,073.1 ft (327.08 m); minimum observed (after first filling), about 6.54 mil ft³ (0.185 hm³) Mar. 16, 1963, elevation, 1,038.0 ft (316.38 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 126.1 mil ft³ (3.57 hm³) Feb. 23, elevation, 1,070.8 ft (326.380 m); minimum observed, 36.9 mil ft³ (1.05 hm³) Jan. 26, elevation, 1,056.3 ft (321.960 m).

DELAWARE RIVER BASIN

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RESERVOIRS IN DELAWARE RIVER BASIN--Continued

01435900 NEVERSINK RESERVOIR.--Lat 41°49'40", long 74°38'21", Sullivan County, Hydrologic Unit 02040104, at a gate-house at Neversink Dam on Neversink River, and 2 mi (3 km) southwest of Neversink, N.Y. DRAINAGE AREA, 91.8 mi² (238 km²). PERIOD OF RECORD, June 1953 to current year. GAGE, nonrecording gage read daily at 0900. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York).

Reservoir is formed by an earthfill rockfaced dam; storage began June 2, 1953. Usable capacity 34,941 mil gal (132.25 hm³) between minimum operating level, elevation, 1,319.0 ft (402 m) and crest of spillway, elevation, 1,440.0 ft (438.9 m). Capacity at crest of spillway 37,146 mil gal (140.6 hm³); at minimum operating level 2,205 mil gal (8.35 hm³); dead storage below diversion sill and outlet sill, elevation 1,314.0 ft (400.5 m), 1,680 mil gal (6.36 hm³). Figures given herein represent total contents. Reservoir impounds water for diversion through Neversink-Grahamsville Tunnel to Rondout Reservoir on Rondout Creek, in Hudson River basin, for water supply of City of New York (see elsewhere in this section); for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master; and for conservation release. No diversion prior to Dec. 3, 1953. Records furnished by Board of Water Supply, and Department of Water Resources, City of New York.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 37,978 mil gal (143.7 hm³) Apr. 25, 1961, elevation, 1,441.67 ft (439.421 m); minimum observed, after first filling, 1,985 mil gal (7.513 hm³) Nov. 25, 1964, elevation, 1,316.98 ft (401.415 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 36,648 mil gal (138.7 hm³) May 6, elevation, 1,438.99 ft (438.604 m); minimum observed, 19,261 mil gal (72.90 hm³) Jan. 24, elevation, 1,396.87 ft (425.766 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01416900 Pepacton Reservoir †				01424997 Cannonsville Reservoir †			01433000 Swinging Bridge Reservoir †		
Sept. 30	1,272.65	136,598		1,151.59	101,177		1,066.0	1,229	
Oct. 31	1,277.96	146,063	+472	1,150.90	100,066	- 55.5	1,064.2	1,161	- 25.3
Nov. 30	1,280.23	150,225	+215	1,151.26	100,646	+ 29.9	1,064.8	1,184	+ 8.9
Dec. 31	1,278.85	147,686	-127	1,151.05	100,308	- 16.9	1,060.9	1,042	- 52.9
CAL YR 1975	-	-	+ 17.1	-	-	+ 4.09	-	-	- 2.6
Jan. 31	1,280.60	150,910	+161	1,152.16	102,095	+ 89.2	1,068.0	1,307	+ 98.7
Feb. 29	1,280.50	150,725	- 9.87	1,151.96	101,773	- 17.2	1,070.4	1,404	+ 38.6
Mar. 31	1,280.32	150,392	- 16.6	1,151.44	100,935	- 41.8	1,070.0	1,387	- 6.3
Apr. 30	1,280.50	150,725	+ 17.2	1,151.64	101,257	+ 16.6	1,065.4	1,206	- 69.7
May 31	1,279.99	149,781	- 47.1	1,150.96	100,163	- 54.6	1,064.0	1,154	- 19.4
June 30	1,278.43	146,919	-148	1,151.90	101,676	+ 78.0	1,063.3	1,128	- 10.0
July 31	1,275.08	140,882	-301	1,150.03	98,666	-150	1,066.7	1,256	+ 47.7
Aug. 31	1,269.67	131,440	-471	1,150.07	98,731	+ 3.24	1,064.9	1,188	- 25.3
Sept. 30	1,262.54	119,541	-614	1,145.99	92,518	-320	1,063.5	1,136	- 20.0
WTR YR 1976	-	-	- 72.1	-	-	- 36.6	-	-	- 2.9

Date	Elevation (feet)	Contents (million ft ³ /s)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million ft ³ /s)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01433100 Toronto Reservoir †				01433200 Cliff Lake †			01435900 Neversink Reservoir †		
Sept. 30	1,200.2	521		1,066.5	93.7		1,404.73	22,041	
Oct. 31	1,200.8	536	+ 5.6	1,064.1	77.9	- 5.9	1,407.80	23,185	+ 57.1
Nov. 30	1,203.9	616	+ 30.8	1,064.8	82.4	+ 1.7	1,408.90	23,602	+ 21.5
Dec. 31	1,200.7	534	- 30.5	1,062.6	68.7	- 5.1	1,403.24	21,498	-105
CAL YR 1975	-	-	+ 3.8	-	-	- 0.7	-	-	+ 1.70
Jan. 31	1,206.0	671	+ 51.0	1,066.3	92.3	+ 8.8	1,414.51	25,794	+214
Feb. 29	1,214.1	901	+ 91.6	1,070.5	120	+ 11.1	1,424.73	30,058	+228
Mar. 31	1,218.0	1,029	+ 47.7	1,070.1	120	+ 0.1	1,434.31	34,399	+217
Apr. 30	1,220.1	1,102	+ 28.1	1,065.5	87.0	- 12.9	1,435.71	35,062	+ 34.2
May 31	1,220.4	1,113	+ 3.4	1,067.0	97.2	+ 3.8	1,433.54	34,036	- 51.2
June 30	1,215.3	939	- 67.0	1,066.2	91.6	- 2.2	1,428.56	31,749	-118
July 31	1,208.7	744	- 72.6	1,069.2	113	+ 8.1	1,417.43	26,977	-238
Aug. 31	1,207.0	698	- 17.1	1,066.4	93.0	- 7.6	1,410.55	24,236	-137
Sept. 30	1,196.0	422	-106	1,067.0	97.2	+ 1.6	1,402.96	21,397	-146
WTR YR 1976	-	-	- 3.1	-	-	+ 0.1	-	-	- 2.72

† Elevation at 2400.

‡ Elevation at 0900 first day of following month.

DELAWARE RIVER BASIN

RESERVOIRS IN DELAWARE RIVER BASIN--Continued

DIVERSIONS FROM DELAWARE RIVER BASIN

- 01415200 Diversion from Pepacton Reservoir (see preceding pages) on East Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 6, 1955. Records furnished by Board of Water Supply and Department of Water Resources, City of New York. REVISED RECORDS, WRD NY 1972: 1970.
- 01423900 Diversion from Cannonsville Reservoir NY (see preceding pages) on West Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 29, 1964. Records furnished by Board of Water Supply, City of New York.
- 01435800 Diversion from Neversink Reservoir NY (see preceding pages) on Neversink River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Dec. 3, 1953. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.

DIVERSION, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Month	01415200 Pepacton Reservoir	01423900 Cannonsville Reservoir	01435800 Neversink Reservoir
October.....	539	0	284
November.....	695	0	315
December.....	696	0	311
CAL YR 1975	629	43.9	301
January.....	696	0	260
February.....	695	0	216
March.....	697	0	272
April.....	643	309	281
May.....	605	19.2	434
June.....	694	207	186
July.....	695	93.4	408
August.....	697	292	294
September.....	695	182	248
WTR YR 1976	670	91.5	293

SUSQUEHANNA RIVER BASIN

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01496450 CANADARAGO LAKE AT SCHUYLER LAKE, NY

LOCATION.--Lat 42°46'50", long 75°01'07", Otsego County, Hydrologic Unit 02050101, on right bank 10 ft (3 m) up-stream from Panther Mountain Dam, 300 ft (91 m) downstream from bridge on County Road 22, and 0.6 mi (1.0 km) east of Schuyler Lake.

DRAINAGE AREA.--65.0 mi² (168 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage (revised) is at mean sea level.

REMARKS.--Area of water surface, 2.96 mi² (7.67 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,282.50 ft (390.906 m) Apr. 20, 21, 1972; minimum, 1,278.02 ft (389.540 m) Nov. 6, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,282.21 ft (390.818 m) Mar. 6; minimum, 1,278.49 ft (389.684 m) Jan. 22, 23.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280.20	1279.55	1279.56	1278.77	1279.18	1281.94	1280.50	1279.68	1279.78	1279.73	1279.22	1279.26
2	1280.17	1279.44	1279.59	1278.74	1279.29	1281.89	1280.82	1279.72	1279.69	1279.69	1279.22	1279.34
3	1280.08	1279.34	1279.57	1278.73	1279.29	1281.77	1280.83	1279.75	1279.57	1279.70	1279.21	1279.34
4	1279.98	1279.30	1279.52	1278.72	1279.31	1281.68	1280.76	1279.80	1279.45	1279.67	1279.20	1279.32
5	1279.86	1279.24	1279.45	1278.71	1279.32	1281.93	1280.64	1279.73	1279.32	1279.60	1279.18	1279.33
6	1279.75	1279.15	1279.45	1278.67	1279.32	1282.18	1280.50	1279.67	1279.23	1279.51	1279.18	1279.31
7	1279.63	1279.08	1279.50	1278.65	1279.31	1282.07	1280.36	1279.61	1279.46	1279.41	1279.23	1279.29
8	1279.51	1279.02	1279.43	1278.65	1279.28	1281.88	1280.21	1279.53	1279.45	1279.33	1279.34	1279.28
9	1279.40	1278.97	1279.38	1278.62	1279.23	1281.65	1280.07	1279.44	1279.39	1279.30	1279.12	1279.26
10	1279.29	1278.92	1279.38	1278.60	1279.16	1281.43	1279.91	1279.34	1279.29	1279.20	1278.97	1279.25
11	1279.20	1278.88	1279.37	1278.58	1279.12	1281.24	1279.78	1279.27	1279.24	1279.10	1278.99	1279.25
12	1279.18	1278.85	1279.31	1278.59	1279.08	1281.03	1279.63	1279.45	1279.29	1279.07	1279.31	1279.24
13	1279.12	1278.90	1279.25	1278.57	1279.04	1280.87	1279.49	1279.49	1279.18	1279.08	1279.32	1279.22
14	1279.20	1278.98	1279.19	1278.59	1279.02	1280.72	1279.37	1279.34	1279.11	1279.07	1279.40	1279.21
15	1279.16	1278.99	1279.18	1278.59	1278.98	1280.55	1279.25	1279.39	1279.47	1279.02	1279.37	1279.19
16	1279.19	1279.00	1279.19	1278.60	1278.99	1280.39	1279.50	1279.34	1279.55	1279.00	1279.11	1279.19
17	1279.16	1279.02	1279.14	1278.60	1279.17	1280.25	1279.54	1279.29	1279.70	1279.04	1279.07	1279.20
18	1279.72	1279.06	1279.10	1278.57	1279.47	1280.10	1279.48	1279.25	1279.65	1278.98	1278.99	1279.21
19	1280.12	1279.11	1279.06	1278.56	1280.11	1279.96	1279.40	1279.32	1279.56	1278.92	1278.93	1279.23
20	1280.61	1279.13	1279.05	1278.56	1280.49	1279.97	1279.31	1279.88	1279.55	1278.87	1278.99	1279.21
21	1280.71	1279.27	1279.03	1278.56	1280.65	1280.18	1279.23	1280.32	1279.55	1278.84	1279.26	1279.22
22	1280.72	1279.48	1278.96	1278.55	1281.34	1280.44	1279.16	1280.50	1279.49	1278.80	1279.26	1279.19
23	1280.66	1279.52	1278.91	1278.52	1282.04	1280.46	1279.10	1280.54	1279.63	1278.96	1279.25	1279.17
24	1280.57	1279.52	1278.87	1278.54	1282.03	1280.45	1279.03	1280.50	1279.46	1279.11	1279.24	1279.16
25	1280.47	1279.50	1278.83	1278.53	1281.95	1280.41	1279.06	1280.43	1279.48	1279.12	1279.22	1279.14
26	1280.36	1279.46	1278.85	1278.53	1281.88	1280.37	1279.36	1280.39	1279.43	1279.10	1279.22	1279.14
27	1280.23	1279.49	1278.85	1278.69	1281.90	1280.31	1279.53	1280.37	1279.36	1279.09	1279.27	1279.24
28	1280.10	1279.57	1278.83	1278.73	1281.94	1280.40	1279.66	1280.26	1279.26	1279.10	1279.28	1279.30
29	1279.98	1279.55	1278.80	1279.02	1281.83	1280.37	1279.73	1280.12	1279.15	1279.12	1279.31	1279.30
30	1279.86	1279.50	1278.78	1279.11	---	1280.29	1279.72	1279.99	1279.29	1279.16	1279.31	1279.30
31	1279.70	---	1278.79	1279.14	---	1280.18	---	1279.86	---	1279.18	1279.27	---
MEAN	1279.87	1279.23	1279.17	1278.66	1280.06	1280.88	1279.76	1279.79	1279.43	1279.19	1279.20	1279.24
MAX	1280.72	1279.57	1279.59	1279.14	1282.04	1282.18	1280.83	1280.54	1279.78	1279.73	1279.40	1279.34
MIN	1279.12	1278.85	1278.78	1278.52	1278.98	1279.96	1279.03	1279.25	1279.11	1278.80	1278.93	1279.14
WTR YR 1976	MEAN	1279.54	MAX	1282.18	MIN	1278.52						
CAL YR 1975	MEAN	1279.40	MAX	1280.74	MIN	1278.67						

01496500 OAKS CREEK AT INDEX, NY

LOCATION.--Lat 42°39'56", long 74°57'36", Otsego County, Hydrologic Unit 02050101, on right bank 200 ft (61 m) upstream from bridge on State Highway 28 at Index, 0.5 mi (0.8 km) upstream from mouth, and 3 mi (5 km) southwest of Cooperstown.

DRAINAGE AREA.--102 mi² (264 km²).

PERIOD OF RECORD.--November 1929 to September 1932, March 1937 to current year.

REVISED RECORDS.--WRD N.Y. 1968: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,174.50 ft (357.988 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1932, nonrecording gage at different datum.

REMARKS.--Records good except those for winter periods, which are fair. Prior to June 1964, flow regulated by natural storage in Canadarago Lake, thereafter by dam at outlet.

AVERAGE DISCHARGE.--41 years (1930-32, 1937-76), 170 ft³/s (4.814 m³/s), 22.63 in/yr (575 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s (72.2 m³/s) Jan. 22, 1959, gage height, 6.87 ft (2.094 m); minimum, 1.3 ft³/s (0.037 m³/s) Aug. 4, 5, 1962, gage height, 1.79 ft (0.546 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 22	1900	*1,480 41.9	*5.68 1.731	Mar. 5	2130	1,390 39.4	5.56 1.695
Feb. 28	0300	1,100 31.2	5.20 1.585				

Minimum discharge, 34 ft³/s (0.96 m³/s) Sept. 26, gage height, 2.56 ft (0.780 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326	239	301	130	150	923	615	326	320	521	65	55
2	326	226	287	110	150	807	626	347	292	342	61	73
3	305	216	273	130	140	755	530	371	262	317	51	69
4	284	219	250	120	140	814	493	359	240	302	45	64
5	270	210	240	100	140	1130	453	325	221	280	42	62
6	249	193	260	100	130	1120	418	306	218	258	40	61
7	235	183	270	110	130	923	390	300	343	240	74	56
8	219	180	230	100	120	800	366	286	264	233	105	54
9	207	170	230	96	120	693	340	264	239	231	108	51
10	196	165	263	94	110	620	319	247	223	209	196	54
11	185	163	245	86	120	565	301	237	220	193	180	60
12	193	153	229	82	120	500	280	337	245	202	109	52
13	183	210	219	82	140	470	259	270	212	216	77	48
14	226	216	213	120	140	430	242	251	195	209	97	45
15	193	207	216	120	100	400	226	286	391	191	98	43
16	210	207	223	100	160	360	402	255	313	199	194	42
17	196	213	200	90	333	340	326	242	373	246	182	48
18	590	223	180	90	410	330	291	236	309	188	167	54
19	570	223	160	88	670	329	273	301	282	170	153	55
20	600	216	150	88	595	378	252	509	286	157	140	48
21	489	290	150	88	516	457	239	519	294	150	78	48
22	444	350	170	82	998	480	226	476	294	143	59	45
23	414	294	160	82	1030	422	219	446	513	122	56	41
24	390	284	140	82	938	418	202	423	331	69	53	40
25	370	273	140	80	856	410	259	402	335	57	49	37
26	350	263	150	90	828	398	398	404	296	52	47	38
27	329	294	180	180	953	386	362	398	273	48	65	104
28	308	308	160	170	1040	444	374	364	244	48	63	87
29	294	280	140	160	787	398	358	340	224	48	80	72
30	277	270	140	160	---	378	336	320	331	60	69	65
31	259	---	150	150	---	358	---	303	---	53	59	---
TOTAL	9687	6938	6319	3360	12064	17236	10375	10450	8583	5754	2862	1671
MEAN	312	231	204	108	416	556	346	337	286	186	92.3	55.7
MAX	600	350	301	180	1040	1130	626	519	513	521	196	104
MIN	183	153	140	80	100	329	202	236	195	48	40	37
CFSM	3.06	2.26	2.00	1.06	4.08	5.45	3.39	3.30	2.80	1.82	.90	.55
IN.	3.53	2.53	2.30	1.23	4.40	6.29	3.78	3.81	3.13	2.10	1.04	.61

CAL YR 1975 TOTAL 76566 MEAN 210 MAX 639 MIN 11 CFSM 2.06 IN 27.92
WTR YR 1976 TOTAL 95299 MEAN 260 MAX 1130 MIN 37 CFSM 2.55 IN 34.76

SUSQUEHANNA RIVER BASIN

233

01499500 EAST SIDNEY LAKE AT EAST SIDNEY, NY

LOCATION.--Lat 42°19'40", long 75°13'42", Delaware County, Hydrologic Unit 02050101, at East Sidney Dam on Ouleout Creek, 0.3 mi (0.5 km) upstream from bridge on County Highway 44 at East Sidney, 4.4 mi (7.1 km) upstream from mouth, and 4.5 mi (7.2 km) east of Unadilla.

DRAINAGE AREA.--103 mi² (267 km²).

PERIOD OF RECORD.--November 1949 to September 1952 (monthly elevations and contents), October 1952 to current year. Prior to October 1970, published as "East Sidney Reservoir at East Sidney."

REVISED RECORDS.--WRD N.Y. 1968: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Lake is formed by concrete dam and rockfill dike, completed by Corps of Engineers in June 1950; regulation of outflow began in November 1949; first used for flood regulation on Mar. 28, 1950. Useable capacity, 33,550 acre-ft (41.4 hm³) between elevations 1,115.0 ft or 339.85 m (sill of conduits) and 1,203.0 ft or 366.67 m (crest of spillway). Dead storage, 56 acre-ft (0.07 hm³). Discharge is controlled by the operation of five gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,194.4 ft (364.05 m) Apr. 6, 1960, contents, 25,100 acre-ft (30.9 hm³); minimum, 1,115.0 ft (339.85 m) Aug. 31, 1953, Sept. 7-26, Nov. 4, 1964, contents, 56 acre-ft (0.07 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,180.52 ft (359.822 m) Feb. 23, contents, 14,912 acre-ft (18.4 hm³); minimum, 1,138.37 ft (346.975 m) Mar. 7, contents, 1,434 acre-ft (1.77 hm³).

Capacity table (elevation, in feet, and useable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1938)

1,135.0	1,080	1,160.0	5,910
1,140.0	1,630	1,170.0	9,610
1,145.0	2,360	1,180.0	14,610
1,150.0	3,280	1,190.0	21,370

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150.79	1150.58	1149.08	1140.67	1152.33	1141.89	1142.36	1150.17	1150.11	1150.48	1150.88	1150.29
2	1150.71	1150.33	1148.27	1140.14	1151.34	1141.02	1140.93	1151.04	1150.53	1150.16	1150.40	1150.29
3	1150.51	1150.13	1146.81	1140.82	1146.39	1141.06	1141.63	1150.99	1150.56	1150.23	1150.28	1150.26
4	1150.76	1150.25	1145.09	1141.02	1141.12	1141.56	1140.46	1150.83	1150.30	1150.25	1150.34	1150.28
5	1150.60	1150.29	1143.24	1140.68	1140.86	1142.24	1139.95	1150.41	1150.33	1150.56	1150.36	1150.30
6	1150.17	1150.20	1141.94	1140.19	1140.54	1139.95	1139.90	1150.19	1150.46	1150.76	1150.34	1150.38
7	1150.13	1150.06	1141.23	1140.63	1140.21	1139.20	1139.95	1149.97	1150.75	1150.83	1150.44	1150.58
8	1150.04	1150.17	1140.22	1140.70	1139.98	1140.75	1140.03	1149.93	1149.80	1150.85	1150.65	1150.40
9	1150.00	1150.32	1140.33	1140.10	1140.36	1140.29	1139.93	1150.00	1150.16	1150.84	1150.91	1150.34
10	1150.22	1150.40	1140.75	1139.65	1140.26	1140.12	1140.00	1150.37	1150.40	1150.60	1150.33	1150.47
11	1150.45	1150.63	1140.54	1139.93	1140.49	1139.89	1139.93	1150.11	1150.52	1150.39	1150.33	1150.74
12	1150.85	1150.79	1140.04	1140.29	1140.33	1139.75	1139.72	1150.04	1150.73	1150.25	1150.26	1150.51
13	1150.81	1151.26	1140.40	1140.53	1140.45	1140.63	1139.41	1150.10	1150.78	1150.27	1150.39	1150.41
14	1150.71	1150.48	1140.63	1140.68	1141.05	1141.38	1139.47	1150.57	1150.62	1150.37	1150.84	1150.42
15	1150.10	1149.96	1140.30	1140.79	1140.90	1140.47	1139.40	1150.98	1150.41	1150.49	1151.09	1150.41
16	1149.78	1151.03	1140.11	1140.20	1141.32	1140.30	1142.15	1151.42	1150.20	1150.44	1150.50	1150.38
17	1150.43	1151.43	1140.08	1140.10	1150.37	1140.20	1141.23	1150.24	1150.53	1150.93	1150.81	1150.43
18	1157.41	1151.15	1140.18	1139.74	1160.95	1139.97	1140.61	1150.75	1150.65	1151.00	1150.46	1150.69
19	1169.04	1151.04	1139.83	1139.95	1170.02	1140.51	1140.56	1150.53	1150.67	1150.54	1150.10	1150.99
20	1176.35	1150.66	1140.45	1140.45	1175.69	1141.22	1140.11	1151.45	1150.80	1150.10	1150.19	1151.07
21	1175.60	1150.60	1140.84	1140.59	1175.95	1141.21	1140.26	1150.34	1151.44	1150.06	1150.15	1150.94
22	1171.16	1150.49	1141.02	1140.68	1175.43	1142.53	1140.05	1150.78	1149.92	1150.16	1150.00	1150.73
23	1164.11	1149.97	1140.86	1140.56	1179.61	1141.43	1139.79	1150.48	1150.08	1150.19	1150.13	1150.53
24	1155.23	1150.73	1140.37	1140.46	1179.81	1140.49	1140.23	1149.92	1150.94	1150.21	1150.48	1150.51
25	1151.41	1150.75	1139.99	1140.36	1176.16	1140.14	1141.33	1150.31	1150.47	1150.22	1150.74	1150.49
26	1150.93	1150.40	1140.17	1140.56	1171.33	1140.23	1146.50	1150.44	1150.10	1150.16	1150.87	1150.47
27	1150.18	1150.42	1141.30	1149.49	1164.73	1140.09	1149.91	1150.52	1150.43	1150.23	1150.34	1150.93
28	1149.99	1151.08	1139.75	1152.23	1157.08	1142.22	1150.51	1150.51	1150.66	1150.43	1149.81	1151.17
29	1150.48	1150.12	1140.12	1149.00	1146.92	1140.63	1150.35	1150.83	1150.81	1150.63	1149.90	1151.14
30	1150.80	1149.08	1140.62	1152.19	---	1140.26	1149.77	1150.25	1150.98	1150.78	1150.23	1150.97
31	1150.77	---	1140.73	1153.47	---	1139.90	---	1150.10	---	1150.86	1150.31	---
MEAN	1154.21	1150.49	1141.46	1142.16	1153.86	1140.69	1141.88	1150.47	1150.50	1150.46	1150.41	1150.58
MAX	1176.35	1151.43	1149.08	1153.47	1179.81	1142.53	1150.51	1151.45	1151.44	1151.00	1151.09	1151.17
MIN	1149.78	1149.08	1139.75	1139.65	1139.98	1139.20	1139.40	1149.92	1149.80	1150.06	1149.81	1150.26
†	3,424	3,103	1,728	3,947	1,993	1,636	3,279	3,302	3,554	3,469	3,346	3,465
‡	+0.7	-5.4	-22.4	+36.1	-34.0	-5.8	+27.6	+0.4	+4.2	-1.4	-2.0	+2.0

CAL YR 1975 MEAN 1147.14 MAX 1176.35 MIN 1138.64 ‡ +0.1
WTR YR 1976 MEAN 1148.06 MAX 1179.81 MIN 1139.20 ‡ +0.1

† Contents, in acre-feet; at end of month.

‡ Change in contents, equivalent in cubic feet per second.

SUSQUEHANNA RIVER BASIN

01500000 OULEOUT CREEK AT EAST SIDNEY, NY

LOCATION.--Lat 42°20'00", long 75°14'07", Delaware County, Hydrologic Unit 02050101, on right bank 0.2 mi (0.3 km) downstream from bridge on County Highway 44, 0.4 mi (0.6 km) downstream from East Sidney Dam, at East Sidney, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--103 mi² (267 km²).

PERIOD OF RECORD.--August 1940 to current year.

REVISED RECORDS.--WRD N.Y. 1968: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,086.31 ft (331.107 m) above mean sea level (levels by Corps of Engineers). Prior to June 13, 1947, water-stage recorder at site 0.5 mi (0.8 km) upstream at datum 27.30 ft (8.321 m) higher.

REMARKS.--Records good except those for period of no gage-height record or faulty gage-height record, which are fair. Since November 1949, flow regulated by East Sidney Lake (see station 01499500).

AVERAGE DISCHARGE.--36 years, 171 ft³/s (4.843 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,250 ft³/s (205 m³/s) Dec. 30, 1942, gage height, 7.62 ft (2.323 m) site and datum then in use, from rating curve extended above 4,000 ft³/s (113 m³/s); minimum, 1.2 ft³/s (0.034 m³/s), result of construction operations, Aug. 13, 14, 17, 1949, gage height, 0.32 ft (0.098 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 16,700 ft³/s (473 m³/s) in July 1935, by computation of flow over dam and from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,810 ft³/s (51.3 m³/s) Oct. 22, gage height, 4.79 ft (1.460 m); minimum, 10 ft³/s (0.28 m³/s) Feb. 22, 23, gage height, 0.88 ft (0.268 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	123	281	156	513	535	607	294	124	446	153	60
2	237	123	348	95	717	400	755	362	125	175	92	60
3	167	105	339	90	805	590	431	436	125	148	43	54
4	153	95	330	108	480	673	497	469	104	95	32	42
5	160	95	281	105	229	948	294	337	64	66	32	42
6	111	95	253	74	233	733	265	296	90	66	32	42
7	93	76	253	74	198	425	217	257	488	66	41	25
8	93	66	170	108	167	353	198	237	169	66	105	16
9	93	66	129	105	153	321	167	152	92	83	403	16
10	40	66	177	74	153	294	149	99	92	77	617	58
11	41	68	202	58	184	257	149	127	93	67	355	58
12	73	103	135	58	177	177	149	317	93	67	237	42
13	92	415	105	76	153	149	117	183	93	67	178	35
14	187	497	135	126	156	237	103	141	93	67	257	31
15	176	294	153	156	153	213	103	125	93	67	568	31
16	77	237	142	123	237	149	502	125	75	68	434	31
17	50	339	111	105	497	149	607	72	55	78	237	31
18	511	366	103	74	15	117	299	82	55	123	241	31
19	11	366	58	52	17	135	303	161	55	122	166	31
20	495	357	45	64	209	253	233	913	55	77	125	44
21	1460	453	70	74	1230	326	202	772	339	55	125	50
22	1730	733	95	74	711	464	202	470	174	55	82	50
23	1700	308	105	74	160	410	163	470	64	50	47	39
24	1410	281	93	74	1200	335	108	308	185	42	31	31
25	281	303	80	74	1540	269	142	237	235	44	37	31
26	299	281	120	353	1650	225	400	237	114	38	147	31
27	241	245	339	1630	1680	225	502	238	67	19	495	45
28	139	299	202	1280	1570	442	568	119	67	12	148	60
29	95	357	120	728	1270	385	563	181	67	16	60	60
30	114	237	129	103	---	299	380	185	224	33	60	60
31	126	---	156	410	---	245	---	123	---	33	60	---
TOTAL	10653	7449	5259	6755	16457	10733	9375	8525	3769	2488	5640	1237
MEAN	344	248	170	218	567	346	313	275	126	80.3	182	41.2
MAX	1730	733	348	1630	1680	948	755	913	488	446	617	60
MIN	11	66	45	52	15	117	103	72	55	12	31	16

CAL YR 1975 TOTAL 76406.4 MEAN 209 MAX 1730 MIN 2.4
WTR YR 1976 TOTAL 88340.0 MEAN 241 MAX 1730 MIN 11

Note.--No gage-height record May 16-24 and Aug. 17-31; faulty record Sept. 1-30.

01500500 SUSQUEHANNA RIVER AT UNADILLA, NY

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, Hydrologic Unit 02050101, on right bank 25 ft (8 m) downstream from bridge on Bridge Street at Unadilla, 1.0 mi (1.6 km) upstream from Carrs Creek, and 1.6 mi (2.6 km) downstream from Ouleout Creek.

DRAINAGE AREA.--982 mi² (2,543 km²).

PERIOD OF RECORD.--June 1938 to current year.

REVISED RECORDS.--WSP 851: 1938(M). WRD N.Y. 1968: 1966 (M). WRD N.Y. 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 996.08 ft (303.605 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records good except those for winter periods, which are fair. Slight regulation by upstream lakes and reservoirs.

AVERAGE DISCHARGE.--38 years, 1,566 ft³/s (44.35 m³/s), 21.66 in/yr (550 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,500 ft³/s (609 m³/s) Dec. 30, 1942, gage height, 13.94 ft (4.249 m); maximum gage height, 14.25 ft (4.343 m) Apr. 4, 1960; minimum discharge, 39 ft³/s (1.10 m³/s) Oct. 17, 1964, gage height, 1.38 ft (0.421 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Mar. 18, 1936, reached a stage of 16.6 ft (5.060 m), from flood-marks, discharge, 31,300 ft³/s (886 m³/s), from publications of the Corps of Engineers, Baltimore District.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 11,000 ft³/s (312 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	1130	*11,200 317	*10.46 3.188

Minimum discharge, 304 ft³/s (8.61 m³/s) Sept. 26, gage height, 2.36 ft (0.719 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2240	1500	2360	1200	3500	4840	4130	3060	1980	3600	666	532
2	2090	1390	2440	840	4500	4660	6720	3470	2540	2610	670	538
3	1940	1330	2170	900	4800	4610	4960	3460	1930	2080	530	576
4	1700	1280	1990	1000	4400	5270	4130	4190	1550	1930	444	500
5	1530	1240	1830	860	3500	7450	3400	3290	1310	1710	400	456
6	1400	1130	1980	800	3300	7580	2990	2820	1250	1530	372	428
7	1250	1030	2090	900	3100	6470	2670	2600	2830	1410	442	391
8	1120	990	1660	980	2600	5000	2420	2470	2690	1390	817	361
9	1020	998	1600	900	2200	4020	2180	2160	1980	1390	1140	343
10	902	950	1810	840	1800	3660	1960	1920	1700	1280	1960	388
11	827	1060	1770	780	1900	3430	1850	1710	1610	1120	2030	501
12	961	1160	1480	760	2000	2900	1750	2420	1850	1070	1450	492
13	1000	2150	1350	800	1900	2700	1580	2140	1630	1170	1150	418
14	1380	2650	1340	1000	1900	2850	1460	1740	1380	1210	1440	361
15	1490	2410	1390	1300	1800	2580	1360	1670	1510	1150	1720	334
16	1280	2220	1470	1200	1900	2260	3950	1720	2220	1010	1730	322
17	1340	2310	1300	1000	5000	2040	5260	1570	2070	1330	1420	354
18	5870	2350	1100	840	6400	1900	3150	1550	2060	1350	1250	477
19	10400	2400	880	800	8600	1960	2660	1970	1680	1080	1050	514
20	9130	2300	860	840	8910	2410	2330	4400	1580	895	914	454
21	7200	3070	900	860	7190	3180	2080	5650	2340	785	814	432
22	5840	3790	1000	840	7800	4220	1920	5160	2140	774	655	421
23	4990	2870	1000	820	9330	3380	1850	4410	1930	720	554	379
24	4270	2610	940	820	7880	3040	1660	3610	2740	657	489	340
25	2830	2440	880	800	6780	2790	1900	3100	2240	616	463	321
26	2620	2260	1000	4000	6450	2600	4980	2830	2040	544	849	313
27	2350	2430	1600	7000	6560	2480	4990	2880	1690	478	1380	698
28	2070	2660	1400	9000	6560	3690	4510	2450	1520	438	849	958
29	1880	2330	1200	6540	5820	3300	4250	2190	1410	425	781	742
30	1760	2050	1100	4350	---	2760	3570	2060	1550	495	758	614
31	1630	---	1100	3400	---	2480	---	1900	---	542	604	---
TOTAL	86310	59358	44990	56970	138380	112510	92620	86570	56950	36789	29791	13958
MEAN	2784	1979	1451	1838	4772	3629	3087	2793	1898	1187	961	465
MAX	10400	3790	2440	9000	9330	7580	6720	5650	2830	3600	2030	958
MIN	827	950	860	760	1800	1900	1360	1550	1250	425	372	313
CFSM	2.84	2.02	1.48	1.87	4.86	3.70	3.14	2.84	1.93	1.21	.98	.47
IN.	3.27	2.25	1.70	2.16	5.24	4.26	3.51	3.28	2.16	1.39	1.13	.53
CAL YR 1975 TOTAL	661366			1812	MAX 10400	MIN 142	CFSM 1.85	IN 25.05				
WTR YR 1976 TOTAL	815196			2227	MAX 10400	MIN 313	CFSM 2.27	IN 30.88				

SUSQUEHANNA RIVER BASIN

01501015 MILL BROOK AT NEW BERLIN, NY

LOCATION.--Lat 42°37'32", long 75°19'43", Chenango County, Hydrologic Unit 02050101, on left bank at downstream side of bridge on Academy Street at New Berlin and 80 ft (24 m) upstream from mouth.

DRAINAGE AREA.--4.64 mi² (12.02 km²).

PERIOD OF RECORD.--May 1974 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,088.89 ft (331.894 m) above mean sea level.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (revised), 238 ft³/s (6.74 m³/s) Sept. 25, 1975, gage height, 1.53 ft (0.466 m); minimum, 0.38 ft³/s (0.011 m³/s) Aug. 20-23, 1974, gage height, 0.50 ft (0.152 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.3 m³/s) (revised) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Oct. 18	0345	*165	4.67	*1.47	0.448	Mar. 4	1345	124	3.51	1.42	0.433
Feb. 19	0500	89	2.52	1.36	.415	Apr. 16	0530	108	3.06	1.40	.427
Feb. 22	1730	141	3.99	1.44	.439	June 30	1700	103	2.92	1.39	.424

Minimum discharge, 1.1 ft³/s (0.031 m³/s) Aug. 5, 6, gage height, 0.60 ft (0.183 m).

REVISIONS.--The peak discharges and annual maximum (*) for water years 1974 and 1975 have been revised as shown in the following table. They supersede figures published in WRD NY 1974, 1975.

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
May 12, 1974	2100	*59	1.67	*1.29	0.393	Apr. 3, 1975	1130	84	2.38	1.35	0.411
Dec. 8, 1974	1415	89	2.52	1.36	.415	Sept. 25, 1975	1030	*238	6.74	1.53	.466
Feb. 24, 1975	1300	ice jam		*1.66	.506						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	6.3	9.7	4.4	7.8	28	31	15	10	14	5.3	4.4
2	14	6.6	7.0	3.4	7.6	19	18	17	7.3	8.7	2.8	7.3
3	7.8	5.9	6.2	4.1	7.2	28	13	27	5.9	7.0	1.6	4.4
4	5.9	5.3	5.8	3.9	7.2	53	11	17	5.3	6.3	1.4	3.8
5	5.0	5.3	5.4	3.0	7.2	50	9.2	13	4.7	5.6	1.3	3.5
6	4.7	5.0	5.8	3.3	6.4	29	8.7	11	7.3	5.0	1.3	3.0
7	4.1	5.0	6.6	3.2	5.6	17	7.8	11	18	5.0	6.6	2.8
8	3.8	5.0	5.0	3.1	5.4	13	7.3	9.7	8.2	7.8	4.4	2.8
9	3.8	4.7	5.0	3.0	5.0	10	7.0	8.2	6.6	7.0	2.8	2.5
10	3.8	5.0	8.0	2.8	4.5	11	6.6	7.3	5.9	4.7	4.1	6.3
11	3.8	4.7	6.3	2.5	4.9	10	6.6	10	7.8	5.3	2.8	4.4
12	4.7	4.7	5.3	2.5	5.0	9.2	6.3	14	6.3	6.3	2.1	3.5
13	5.0	5.6	5.0	2.8	5.6	10	5.6	8.7	5.0	6.6	2.3	2.8
14	8.2	4.7	5.3	4.1	5.6	9.0	5.3	7.8	4.7	6.6	6.3	2.3
15	4.4	4.4	6.6	4.1	5.0	7.6	5.6	7.3	6.3	5.3	11	2.1
16	5.9	4.4	6.3	3.7	4.0	7.0	44	6.6	8.2	5.3	10	2.3
17	5.0	4.4	4.7	3.3	26	7.0	19	6.3	11	5.3	5.9	4.7
18	48	4.7	4.1	3.1	29	8.0	14	6.3	6.3	4.1	5.0	4.1
19	50	4.7	3.7	3.1	57	9.0	11	15	5.0	3.5	4.1	3.3
20	39	4.7	3.7	3.1	28	19	9.7	29	6.6	3.0	3.5	2.8
21	24	13	3.9	3.3	23	24	8.7	15	6.6	3.5	3.3	3.3
22	14	9.2	4.1	3.1	75	16	8.2	12	7.0	3.0	3.0	2.5
23	13	6.6	4.0	3.2	39	13	7.8	11	7.3	2.5	2.8	2.5
24	11	6.6	3.2	2.9	24	11	7.0	9.7	5.6	2.8	2.5	2.5
25	10	6.3	3.0	2.8	21	11	23	9.2	6.3	2.1	2.3	2.3
26	9.2	5.9	4.8	3.5	24	9.2	33	10	4.7	1.8	7.3	4.4
27	8.7	11	6.8	20	31	12	22	9.2	4.1	1.6	9.2	11
28	7.8	8.2	5.2	15	22	13	22	7.3	3.5	1.6	6.6	5.9
29	7.8	6.6	4.4	12	19	8.7	18	7.0	3.3	2.3	6.6	4.7
30	7.8	6.6	4.4	10	---	8.2	14	7.8	18	2.8	4.1	4.1
31	6.6	---	4.6	8.0	---	7.8	---	7.0	---	2.1	3.5	---
TOTAL	355.0	181.1	163.9	150.3	512.0	487.7	410.4	352.4	212.8	148.5	135.8	116.3
MEAN	11.5	6.04	5.29	4.85	17.7	15.7	13.7	11.4	7.09	4.79	4.38	3.88
MAX	50	13	9.7	20	75	53	44	29	18	14	11	11
MIN	3.8	4.4	3.0	2.5	4.0	7.0	5.3	6.3	3.3	1.6	1.3	2.1
CFSM	2.48	1.30	1.14	1.05	3.81	3.38	2.95	2.46	1.53	1.03	.94	.84
IN.	2.85	1.45	1.31	1.20	4.10	3.91	3.29	2.82	1.71	1.19	1.09	.93
CAL YR 1975	TOTAL	2675.82	MEAN	7.33	MAX	59	MIN	.55	CFSM	1.58	IN	21.45
WTR YR 1976	TOTAL	3226.20	MEAN	8.81	MAX	75	MIN	1.3	CFSM	1.90	IN	25.86

SUSQUEHANNA RIVER BASIN

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01502000 BUTTERNUT CREEK AT MORRIS, NY

LOCATION.--Lat 42°32'43", long 75°14'22", Otsego County, Hydrologic Unit 02050101, on right bank 15 ft (5 m) upstream from bridge on State Highway 23 at Morris, and 0.2 mi (0.3 km) upstream from Calhoun Creek.

DRAINAGE AREA.--59.7 mi² (155 km²).

PERIOD OF RECORD.--June 1938 to current year.

REVISED RECORDS.--WSP 921: 1939. WRD N.Y. 1969: Drainage area. WRD N.Y. 1974: 1973(P).

GAGE.--Water-stage recorder. Datum of gage 1096.21 ft (334.125 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--38 years, 97.9 ft³/s (2.773 m³/s), 22.27 in/yr (566 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,260 ft³/s (121 m³/s) Mar. 5, 1964, gage height, 8.47 ft (2.582 m); minimum daily, 1.3 ft³/s (0.037 m³/s) Sept. 24, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (39.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	1200	*3,020 85.5	*7.56 2.304	Mar. 4	2000	1,580 44.7	6.17 1.881
Feb. 19	0630	2,080 58.9	6.70 2.042	Apr. 16	1300	2,190 62.0	6.81 2.076
Feb. 22	1430	2,570 72.8	7.16 2.182				

Minimum discharge, 22 ft³/s (0.62 m³/s) Sept. 16, gage height, 1.79 ft (0.546 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	86	169	86	150	432	708	185	148	387	53	43
2	174	81	142	66	150	312	353	238	129	170	48	68
3	142	78	129	82	140	353	266	296	93	148	36	49
4	125	81	110	78	140	830	224	256	81	154	31	41
5	111	79	98	60	140	1000	185	193	72	115	28	39
6	101	67	120	64	120	672	162	167	75	97	27	35
7	90	63	130	62	110	360	143	161	228	86	59	31
8	82	67	98	60	100	260	129	143	116	91	76	30
9	76	61	100	60	98	190	116	125	90	104	51	27
10	71	63	142	54	88	200	105	112	79	74	79	32
11	70	66	119	49	96	170	104	113	88	65	72	40
12	87	67	99	50	96	140	91	288	99	74	51	33
13	73	137	93	54	110	170	86	153	72	92	45	28
14	130	137	94	80	110	140	80	130	64	98	79	26
15	92	116	98	80	76	130	74	130	150	81	70	24
16	118	113	113	70	98	100	1120	113	97	85	132	23
17	96	111	86	62	503	100	338	106	186	125	74	39
18	1650	108	78	60	540	110	235	99	112	80	61	45
19	1320	101	56	60	1610	125	192	174	91	68	53	41
20	883	96	56	60	628	256	162	698	127	62	48	31
21	399	208	60	62	393	385	142	441	139	60	44	35
22	290	222	62	60	1780	264	130	298	104	57	40	31
23	228	159	60	62	700	201	125	238	274	50	37	27
24	190	143	48	60	370	195	111	199	260	54	33	27
25	169	133	48	54	340	185	211	172	219	49	31	25
26	153	125	74	72	348	169	450	170	153	41	32	29
27	134	172	142	450	447	164	302	175	127	38	64	122
28	123	174	110	340	393	280	294	130	106	37	71	79
29	116	134	86	250	304	177	253	112	94	36	122	60
30	106	126	86	210	---	156	204	108	228	47	62	52
31	92	---	90	150	---	140	---	99	---	39	48	---
TOTAL	7647	3374	2996	3067	10178	8366	7095	6022	3901	2764	1757	1212
MEAN	247	112	96.6	98.9	351	270	237	194	130	89.2	56.7	40.4
MAX	1650	222	169	450	1780	1000	1120	698	274	387	132	122
MIN	70	61	48	49	76	100	74	99	64	36	27	23
CFSM	4.14	1.88	1.62	1.66	5.88	4.52	3.97	3.25	2.18	1.49	.95	.68
IN.	4.76	2.10	1.87	1.91	6.34	5.21	4.42	3.75	2.43	1.72	1.09	.76

CAL YR 1975 TOTAL 46844 MEAN 128 MAX 1650 MIN 11 CFSM 2.14 IN 29.19
WTR YR 1976 TOTAL 58379 MEAN 160 MAX 1780 MIN 23 CFSM 2.68 IN 36.38

SUSQUEHANNA RIVER BASIN

01502500 UNADILLA RIVER AT ROCKDALE, NY

LOCATION.--Lat 42°22'40", long 75°24'23", Chenango County, Hydrologic Unit 02050101, on right bank 400 ft (122 m) downstream from Chenango-Otsego County highway bridge at Rockdale, and 0.7 mi (1.1 km) downstream from Kent Brook.

DRAINAGE AREA.--520 mi² (1,347 km²).

PERIOD OF RECORD.--November 1929 to September 1933, January 1937 to current year.

REVISED RECORDS.--WRD N.Y. 1974: 1973 (P).

GAGE.--Water-stage recorder. Datum of gage is 992.11 ft (302.395 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1933, nonrecording gage at bridge 400 ft (122 m) upstream at datum 0.73 ft (0.223 m) higher.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--42 years (1930-33, 1937-76), 831 ft³/s (23.53 m³/s), 21.70 in/yr (551 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s (493 m³/s) Dec. 31, 1942, gage height, 12.98 ft (3.956 m); minimum daily, 27 ft³/s (0.76 m³/s) Sept. 20-27, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,700 ft³/s (161 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	2000	6,400 181	8.61 2.624	Feb. 23	0630	*8,260 234	*9.50 2.896
Feb. 19	2230	7,780 220	9.26 2.822				

Minimum discharge, 232 ft³/s (6.57 m³/s) Aug. 7, gage height, 4.13 ft (1.259 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1360	643	1150	740	1500	3250	2490	1670	915	2570	359	416
2	1410	607	1370	520	1500	3530	3440	2030	1260	1680	461	588
3	1620	589	1100	580	1500	3140	2450	2060	942	1160	384	677
4	1210	598	960	620	1300	3810	1970	2570	727	1070	300	463
5	981	679	820	500	1100	5310	1650	1850	612	861	259	402
6	850	580	940	540	1000	5420	1430	1510	563	709	240	409
7	751	500	1200	520	920	4310	1270	1350	1770	601	333	365
8	661	486	940	520	840	2840	1100	1310	2080	602	779	329
9	589	479	800	500	840	2000	990	1100	1240	747	609	302
10	540	472	900	460	720	1700	871	947	907	654	538	308
11	516	548	1200	410	800	1800	822	871	879	510	675	436
12	652	508	959	410	800	1400	762	1940	1030	549	533	410
13	679	937	820	450	920	1300	687	1530	934	729	431	333
14	904	1210	790	500	920	1500	642	1110	676	901	701	289
15	1040	1210	840	600	680	1300	589	1010	945	996	834	266
16	926	981	992	540	840	1100	2800	1040	1820	735	1080	254
17	981	970	871	480	3000	900	4330	893	1650	870	827	285
18	4360	937	733	470	4090	900	2100	822	1340	749	578	448
19	5900	926	480	470	6370	1060	1580	1180	963	570	467	415
20	5730	840	480	470	6490	1510	1300	2950	887	474	411	346
21	3980	1190	500	500	4530	2490	1120	4110	1450	429	370	322
22	2590	2070	520	470	5670	2970	979	3320	1260	446	341	316
23	1980	1490	500	480	7620	2220	947	2320	1190	409	300	281
24	1620	1210	410	470	5030	1850	860	1860	1450	379	292	269
25	1410	1080	390	450	3300	1680	1180	1620	1140	395	271	259
26	1250	992	560	500	2800	1570	3040	1470	1110	345	273	262
27	1090	1080	1000	2700	3200	1440	2770	1570	846	298	600	719
28	970	1560	1000	3500	3620	2160	2490	1390	760	279	504	830
29	871	1230	720	2810	3100	1840	2430	1190	632	278	989	575
30	800	1040	700	2310	---	1470	2000	1050	725	317	931	453
31	715	---	720	1900	---	1240	---	904	---	365	530	---
TOTAL	48936	27642	25365	26390	75000	69010	51089	50547	32703	21677	16200	12027
MEAN	1579	921	818	851	2586	2226	1703	1631	1090	699	523	401
MAX	5900	2070	1370	3500	7620	5420	4330	4110	2080	2570	1080	830
MIN	516	472	390	410	680	900	589	822	563	278	240	254
CFSM	3.04	1.77	1.57	1.64	4.97	4.28	3.28	3.14	2.10	1.34	1.01	.77
IN.	3.50	1.98	1.81	1.89	5.37	4.94	3.65	3.62	2.34	1.55	1.16	.86
CAL YR 1975	TOTAL	366258	MEAN	1003	MAX	9080	MIN	90	CFSM	1.93	IN	26.20
WTR YR 1976	TOTAL	456586	MEAN	1248	MAX	7620	MIN	240	CFSM	2.40	IN	32.66

SUSQUEHANNA RIVER BASIN

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01502770 SUSQUEHANNA RIVER NEAR GREAT BEND, PA

LOCATION.--Lat 41°57'48", long 75°44'33", Susquehanna County, Hydrologic Unit 02050101, State Highway 11 bridge north of Hallstead, 0.5 mi (0.8 km) south of Great Bend, and 6.2 mi (10.0 km) upstream from gaging station at Conklin, N.Y.

DRAINAGE AREA.--2,086 mi² (5,400 km²).

PERIOD OF RECORD.--July 1969 to current year.

REMARKS.--Operated as part of the USGS-EPA surveillance network. Records of discharge are given for 01503000 Susquehanna River at Conklin, N.Y.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	TOTAL NITRITE PLUS NITRATE IN ROT. MAT. (MG/KG)	TOTAL AMMONIA NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL KJEL. NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	TOTAL ALUMI- NUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)
NOV 12...	1145	3.5	33	374	170	3700	3	5	8	11	5900

DATE	TIME	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL NICKEL IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL SILVER IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)	IN- ORGANIC CARBON IN BOT- TOM MA- TERIAL (G/KG)	TOTAL CYANIDE IN BOTTOM MA- TERIAL (UG/G)
NOV 12...		27	480	.0	13	0	1	44	9.1	6.3	2

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	BICAR- BONATE (HCO3) (MG/L)
OCT 15...	1145	2530	195	7.2	15.0	6	10.2	6	100	160	76
NOV 12...	1145	2240	200	7.4	10.0	3	10.8	7	230	21	73
DEC 09...	1300	4150	180	7.8	3.0	1	13.6	5	120	39	66
FEB 24...	1145	20300	130	7.1	1.5	35	13.4	8	170	1100	29
MAR 24...	1130	6200	150	6.5	4.5	10	12.2	11	820	840	46
APR 28...	1230	10200	130	7.5	7.0	10	11.6	17	1100	2000	40
MAY 25...	1130	7600	135	7.7	9.5	3	10.2	15	210	44	56
JUN 10...	1100	4490	150	8.2	20.0	10	9.0	24	220	160	66
JUL 12...	1400	3740	125	7.0	21.0	250	7.6	61	5500	>10000	48
AUG 17...	1145	4000	140	7.8	20.0	6	14.8	61	110	70	57
SEP 16...	1145	868	195	7.3	18.5	4	8.4	11	100	120	83

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

SUSQUEHANNA RIVER BASIN

01502770 SUSQUEHANNA RIVER AT GREAT BEND, PA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	SUS- PENDE SOLIDS (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT 15...	0	62	7.7	15	5.0	108	11	.52	--	--
NOV 12...	0	60	4.6	14	4.0	102	12	.52	--	--
DEC 09...	0	54	1.7	12	4.3	97	7	.51	.01	.52
FEB 24...	0	24	3.7	12	2.5	66	86	.63	--	--
MAR 24...	0	38	23	12	3.5	82	18	.57	.01	.58
APR 28...	0	33	2.0	9.9	3.5	74	24	.38	.01	.39
MAY 25...	0	46	1.8	10	3.3	78	14	.37	.01	.38
JUN 10...	0	54	.7	7.7	2.9	90	15	.54	.06	.60
JUL 12...	0	39	7.7	10	4.8	96	86	.40	.02	.42
AUG 17...	0	47	1.4	10	4.4	89	24	.39	.03	.42
SEP 16...	0	68	6.7	10	6.5	108	12	.53	.01	.54

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT 15...	.02	.24	.26	--	.04	.01	200	--	2.20	--
NOV 12...	.00	.26	.26	--	.03	.01	180	2.2	3.80	--
DEC 09...	.01	.16	.17	.69	.02	.01	270	2.2	.000	.000
FEB 24...	.05	.41	.46	--	.16	.05	490	4.5	--	--
MAR 24...	.09	.41	.50	1.1	.04	.01	890	3.2	.000	.000
APR 28...	.03	.32	.35	.74	.05	.01	590	8.7	2.42	.000
MAY 25...	.01	.22	.23	.61	.06	.01	370	4.6	.000	.000
JUN 10...	.04	.29	.33	.93	.05	.01	410	4.5	8.29	.000
JUL 12...	.06	1.3	1.4	1.8	.27	.04	21000	17	--	--
AUG 17...	.01	.47	.48	.90	.05	.02	630	6.5	5.55	1.08
SEP 16...	.01	.22	.23	.77	.04	.01	520	2.6	8.84	.000

01503000 SUSQUEHANNA RIVER AT CONKLIN, NY

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, Hydrologic Unit 02050101, on left bank at abutment of former highway bridge, 500 ft (152 m) upstream from bridge on County Highway 304 at Conklin, 0.7 mi (1.1 km) downstream from Little Snake Creek, and 3.5 mi (5.6 km) downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 mi² (5,781 km²).

PERIOD OF RECORD.--November 1912 to current year.

REVISED RECORDS.--WRD N.Y. 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 840.95 ft (256.321 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 4, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor. Minor regulation by upstream lakes and reservoirs.

AVERAGE DISCHARGE.--63 years (1913-76), 3,587 ft³/s (101.6 m³/s), 21.82 in/yr (554 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,600 ft³/s (1,740 m³/s) Mar. 18, 1936, gage height, 20.14 ft (6.139 m); maximum gage height, 20.83 ft (6.349 m) Mar. 22, 1948; minimum discharge, 85 ft³/s (2.41 m³/s) Oct. 14, 1964, gage height, 1.30 ft (0.396 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 18,000 ft³/s (510 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	1700	*31,700 898	*14.31 4.362	Feb. 19	1600	30,300 858	13.94 4.249
Jan. 27	1100	ice jam 13.04 3.975		Feb. 22	2200	24,400 691	12.48 3.804
Jan. 28	2100	†19,000 538	‡11.00 3.353				

† About.

‡ Backwater from ice.

Minimum discharge, 850 ft³/s (24.1 m³/s) Sept. 16, 26, gage height, 2.78 ft (0.847 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5830	2850	4680	3100	6800	10600	7450	7300	4050	6640	2490	1560
2	4540	2660	4960	2300	7000	10200	12100	7230	4060	7550	2240	1330
3	4270	2490	5100	2400	7000	11400	11800	7690	4570	4980	1890	1300
4	4070	2510	4530	2500	6600	12200	8670	8160	4200	3960	1530	1520
5	3430	2460	4120	2300	6200	16300	7030	8550	3560	3690	1220	1300
6	3030	2390	3850	2100	5600	16700	5810	6950	3010	3100	1060	1130
7	2730	2210	4080	2100	5000	15300	5060	5960	5080	2700	1880	1050
8	2440	2080	4350	2500	4500	12000	4470	5410	6120	2540	2720	998
9	2200	2000	3800	2300	4000	8640	4030	5080	5970	2510	4130	919
10	2020	1980	3670	2200	3500	6940	3640	4600	4490	2490	4180	919
11	1860	2030	3930	2100	3500	6510	3340	4240	3730	2350	4350	1020
12	1850	2370	4050	1900	3700	5810	3160	4460	3430	3340	3870	1240
13	2020	5000	3530	1900	3800	5120	2940	5340	3590	2960	3140	1260
14	2240	6400	3210	2300	3900	5140	2690	5110	3400	3170	3330	1100
15	2600	6420	3130	3000	3900	4960	2490	4200	3000	2920	3790	954
16	2970	5710	3280	3700	4000	4400	2370	3850	3100	2720	4440	884
17	2650	5220	3400	3000	10000	3930	8510	3970	4000	2690	3960	1300
18	16500	4960	3160	2300	16000	3460	8720	3980	3800	2800	3130	1360
19	27400	4770	2720	2200	21000	3450	5240	4360	3500	2620	2580	1830
20	29300	4660	2200	2300	25900	4020	4310	6500	3300	2110	2180	1630
21	21200	4850	2000	2200	20500	5420	3720	10300	3100	1800	1880	1330
22	14200	7190	2500	2100	20800	7990	3340	11900	4400	1650	1690	1160
23	10300	8160	2700	2000	23100	8060	3120	10900	4000	1610	1460	1080
24	8230	6330	2400	2000	20200	6310	2980	9200	3800	1530	1280	994
25	6820	5400	2200	1900	15600	5580	2860	7640	4800	1340	1130	886
26	5220	4940	2180	5000	13100	5100	5420	6530	4000	1270	1070	859
27	4640	4790	4070	10000	13200	4710	9850	5850	3500	1160	1790	1250
28	4120	5240	4900	17000	13600	5960	9990	5650	2980	1040	2830	2070
29	3690	5520	4100	15800	12600	7080	9260	5230	3260	1710	1970	2370
30	3390	4900	3500	11800	---	5750	8590	4570	3600	3520	1970	1910
31	3120	---	2900	8800	---	4450	---	4240	---	1760	2060	---
TOTAL	208880	128490	109200	127100	304600	233890	172960	194950	117400	86230	77240	38513
MEAN	6738	4283	3523	4100	10500	7545	5765	6289	3913	2782	2492	1284
MAX	29300	8160	5100	17000	25900	16700	12100	11900	6120	7550	4440	2370
MIN	1850	1980	2000	1900	3500	3450	2370	3850	2980	1040	1060	859
CFSM	3.02	1.92	1.58	1.84	4.70	3.38	2.58	2.82	1.75	1.25	1.12	.58
IN.	3.48	2.14	1.82	2.12	5.08	3.90	2.88	3.25	1.96	1.44	1.29	.64

CAL YR 1975	TOTAL	1549996	MEAN	4247	MAX	29800	MIN	370	CFSM	1.90	IN	25.83
WTR YR 1976	TOTAL	1799453	MEAN	4917	MAX	29300	MIN	859	CFSM	2.20	IN	29.99

SUSQUEHANNA RIVER BASIN

01505000 CHENANGO RIVER AT SHERBURNE, NY

LOCATION.--Lat 42°40'43", long 75°30'39", Chenango County, Hydrologic Unit 02050102, on right bank 20 ft (6 m) downstream from bridge on State Highway 80, 0.5 mi (0.8 km) west of Sherburne, and 0.5 mi (0.8 km) downstream from Handsome Brook.

DRAINAGE AREA.--263 mi² (681 km²).

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 851: 1938(M). WSP 1502: 1955. WRD N.Y. 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,037.16 ft (316.126 m) above mean sea level. July 22 to Dec. 9, 1953, nonrecording gage or reference point and Dec. 10, 1953 to Jan. 26, 1955, water-stage recorder at temporary site 1.5 mi (2.4 km) downstream, at datum approximately 11.9 ft (3.63 m) lower, during period of construction of highway bridge.

REMARKS.--Records good except those for winter periods, which are poor. Slight diurnal fluctuation at low flow caused by mill several miles upstream from station. Small diversion during summer months for more than 100 years from Chenango River basin to Oriskany Creek through Oriskany Creek feeder at Solsville for operation of Erie (Barge) Canal.

AVERAGE DISCHARGE.--38 years, 401 ft³/s (11.36 m³/s), 20.71 in/yr (526 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,200 ft³/s (261 m³/s) Mar. 5, 1964, gage height, 9.80 ft (2.987 m); maximum gage height, 9.99 ft (3.045 m) Dec. 30, 1942 (ice jam); minimum discharge, 12 ft³/s (0.34 m³/s) Sept. 25, 1964; minimum gage height, 1.52 ft (0.436 m) Sept. 19, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of 10.6 ft (3.23 m), from records of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft³/s (99.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	1700	3,520 99.7	8.32 2.536	Feb. 22	1630	4,270 121	8.81 2.685
Feb. 19	1100	3,570 101	8.36 2.548	Apr. 16	1230	*4,340 123	*8.84 2.694

Minimum discharge, 96 ft³/s (2.72 m³/s) Aug. 26, gage height, 2.37 ft (0.722 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	675	316	512	280	1300	2220	1110	891	476	921	274	544
2	1220	300	476	260	1100	1830	1020	1030	500	552	259	668
3	890	288	432	240	900	2020	855	1050	384	460	206	480
4	725	324	396	240	700	2530	756	970	332	396	178	404
5	610	324	364	230	540	2950	644	788	289	344	160	452
6	520	280	432	220	450	2610	568	685	274	292	154	376
7	440	266	480	240	380	1990	504	650	868	263	231	304
8	381	256	372	220	360	1520	456	600	576	256	274	256
9	336	252	372	200	370	1100	412	524	476	332	468	224
10	308	249	644	200	380	900	368	470	408	248	368	332
11	300	280	532	200	400	720	348	444	404	231	368	352
12	385	249	452	190	390	740	324	709	348	576	274	259
13	308	416	424	210	380	761	312	527	296	504	234	224
14	525	400	420	250	370	716	296	453	266	544	336	199
15	390	384	436	300	350	672	280	465	580	516	277	185
16	495	380	480	290	400	596	2840	414	424	464	312	175
17	399	376	396	270	1410	524	2450	392	552	556	234	270
18	1530	364	360	250	1950	528	1490	366	424	428	199	263
19	1740	340	320	240	3360	552	1100	505	344	360	178	270
20	1960	324	280	220	2670	896	842	1600	528	300	163	220
21	1330	452	260	200	1890	1320	692	1540	564	285	151	224
22	1040	556	260	190	3380	1330	612	1190	508	277	136	199
23	860	440	250	180	2990	995	584	987	710	241	124	189
24	696	404	260	170	2110	940	516	813	681	241	113	189
25	616	372	280	170	1730	806	935	721	556	220	103	172
26	548	352	310	250	1640	720	1510	699	480	199	118	178
27	484	444	460	2020	2010	648	1320	676	452	185	504	496
28	440	524	360	2650	1910	770	1340	574	384	175	901	360
29	404	452	330	2300	1510	636	1290	484	340	169	1750	289
30	372	428	300	2000	---	572	1060	436	564	213	977	252
31	336	---	280	1600	---	512	---	412	---	192	668	---
TOTAL	21263	10792	11930	16480	37330	35624	26834	22065	13988	10940	10692	9005
MEAN	686	360	385	532	1287	1149	894	712	466	353	345	300
MAX	1960	556	644	2650	3380	2950	2840	1600	868	921	1750	668
MIN	300	249	250	170	350	512	280	366	266	169	103	172
CFSM	2.61	1.37	1.46	2.02	4.89	4.37	3.40	2.71	1.77	1.34	1.31	1.14
IN.	3.01	1.53	1.69	2.33	5.28	5.04	3.80	3.12	1.98	1.55	1.51	1.27
CAL YR 1975	TOTAL	167057	MEAN 458	MAX 3730	MIN 50	CFSM 1.74	IN 23.63					
WTR YR 1976	TOTAL	226943	MEAN 620	MAX 3380	MIN 103	CFSM 2.36	IN 32.10					

SUSQUEHANNA RIVER BASIN

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01508800 FACTORY BROOK AT HOMER, NY

LOCATION.--Lat 42°38'36", long 76°11'19", Cortland County, Hydrologic Unit 02050102, at bridge on State Highway 281, in Homer, 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--15.8 mi² (40.9 km²).

PERIOD OF RECORD.--Water years 1970, 1972 to August 1976 (discontinued).

REMARKS.--Prior to November 1972, sampling site at bridge on State Highway 41, 0.1 mi (0.2 km) downstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPF-CIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT 07...	1330	20	350	7.6	13.0	8.7	82	9860	42
JAN 21...	1130	13	370	8.0	1.5	13.2	94	91	20
APR 06...	1300	34	250	7.4	9.5	9.8	85	84	84
AUG 03...	1300	16	370	7.8	16.5	8.4	86	610	410

DATE	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT 07...	60	160	25	47	10	3.8	1.1	163	0
JAN 21...	84	150	23	43	11	3.3	.8	158	0
APR 06...	83	130	29	40	8.1	3.3	.8	127	0
AUG 03...	330	160	21	48	9.5	3.8	1.0	168	0

DATE	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
OCT 07...	134	15	8.9	.2	5.1	171	3.5	150	0
JAN 21...	130	16	7.3	.0	4.6	164	3.3	160	10
APR 06...	104	16	8.1	.1	4.0	143	3.0	170	10
AUG 03...	138	16	5.9	.1	5.0	172	3.0	230	10

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

SUSQUEHANNA RIVER BASIN

01508803 WEST BRANCH TIOUGHNIAGA RIVER AT HOMER, NY

LOCATION.--Lat 42°38'13", long 76°10'37", Cortland County, Hydrologic Unit 02050102, on left bank at downstream side of bridge on Wall Street at Homer and 3.4 mi (5.5 km) upstream from confluence with East Branch. Water-quality sampling site at discharge station.

DRAINAGE AREA.--71.5 mi² (185 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1966 to September 1968, October 1972 to current year.

REVISED RECORDS.--WRD NY 1974: 1973 (P).

GAGE.--Water-stage recorder. Datum of gage is 1,114.81 ft (339.794 m) above mean sea level. Prior to Oct. 1, 1968, water-stage recorder at bridge on Water Street 500 ft (152 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. A constant 2.8 ft³/s (0.079 m³/s) is diverted for manufacturing purposes from Gate House Pond upstream from station into Onondaga Creek basin (St. Lawrence River basin).

AVERAGE DISCHARGE.--5 years (1968, 1973-76), 139 ft³/s (3.936 m³/s), 26.40 in/yr (671 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,770 ft³/s (50.1 m³/s) Apr. 4, 1974, gage height, 7.22 ft (2.201 m); minimum discharge, 9.6 ft³/s (0.27 m³/s) Nov. 22, 1966, gage height, 1.98 ft (0.604 m) at site then in use; minimum gage height, 1.14 ft (0.347 m) Sept. 3, Oct. 27, 28, 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of 7.46 ft (2.274 m) (8.05 ft or 2.454 m at Water Street site), from floodmarks, discharge, about 1,900 cfs (53.8 m³/s); flood of Mar. 5, 1964 was considerably higher (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 650 ft³/s or 18.4 m³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 19	0930	859 24.3	5.14 1.567	Mar. 1	0630	887 25.1	5.22 1.591
Feb. 22	1530	*1,110 31.4	*5.82 1.774	Mar. 3	1500	1,040 29.5	5.66 1.725
Feb. 27	0730	744 21.1	4.78 1.457	Apr. 16	1500	880 24.9	5.20 1.585

Minimum discharge, 40 ft³/s (1.13 m³/s) Sept. 9, 10, gage height, 1.50 ft (0.457 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	79	137	110	120	740	322	355	159	168	111	57
2	207	76	125	100	110	597	285	397	154	117	95	60
3	182	77	119	96	100	851	251	348	136	103	85	53
4	158	95	114	92	100	814	227	307	126	92	80	49
5	143	85	110	84	94	804	199	270	120	83	75	59
6	131	77	147	82	86	740	188	241	114	75	72	53
7	119	74	149	90	84	584	177	237	126	71	85	46
8	110	77	123	82	84	500	168	222	112	96	105	44
9	102	75	129	78	82	420	159	203	103	129	99	41
10	96	81	235	76	80	370	151	188	92	85	91	108
11	93	90	186	76	88	340	148	185	93	77	83	93
12	92	87	167	74	96	300	142	220	92	193	77	89
13	88	168	158	82	86	285	138	186	87	302	73	73
14	89	146	168	72	82	265	130	171	83	372	76	64
15	85	137	171	84	78	247	127	168	85	265	99	59
16	88	138	186	84	110	229	507	159	81	220	92	58
17	83	137	158	76	402	215	425	151	95	205	80	79
18	156	129	140	74	543	203	355	154	85	173	72	75
19	137	123	100	72	794	208	307	170	77	153	58	71
20	159	119	110	70	636	257	259	512	239	136	63	64
21	156	176	100	68	530	322	231	385	182	129	60	66
22	137	170	100	66	871	350	227	310	153	118	58	59
23	123	147	100	64	692	278	217	268	129	108	55	57
24	114	138	84	60	558	257	199	235	115	105	62	55
25	108	132	86	66	510	237	340	220	114	96	49	51
26	104	126	110	74	528	222	515	231	99	89	49	54
27	98	135	140	120	692	211	465	208	89	87	51	120
28	93	135	120	160	616	217	497	185	87	85	67	96
29	89	123	100	140	520	198	505	170	87	84	84	88
30	87	122	96	120	---	183	410	159	108	100	72	81
31	81	---	110	110	---	174	---	154	---	91	63	---
TOTAL	3699	3474	4078	2702	9372	11618	8271	7369	3422	4207	2341	2022
MEAN	119	116	132	87.2	323	375	276	238	114	136	75.5	67.4
MAX	207	176	235	160	871	851	515	512	239	372	111	120
MIN	81	74	84	60	78	174	127	151	77	71	49	41
CFSM	1.66	1.62	1.85	1.22	4.52	5.24	3.86	3.33	1.59	1.90	1.06	.94
IN.	1.92	1.81	2.12	1.41	4.88	6.04	4.30	3.83	1.78	2.19	1.22	1.05
CAL YR 1975	TOTAL	53502	MEAN 147	MAX 957	MIN 20	CFSM 2.06	IN 27.84					
WTR YR 1976	TOTAL	62575	MEAN 171	MAX 871	MIN 41	CFSM 2.39	IN 32.56					

SUSQUEHANNA RIVER BASIN

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01508803 WEST BRANCH TIOUGHNIOGA RIVER AT HOMER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957, 1970, 1972 to August 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT 07...	1200	124	372	7.5	12.0	9.1	84	81900	78
JAN 21...	1300	68	450	7.9	.0	12.4	85	87	26
FEB 14...	1130	74	430	7.6	.0	12.6	85	400	--
APR 06...	1130	196	310	7.3	7.5	9.4	78	8160	86
AUG 03...	1130	67	394	7.3	17.0	8.4	87	630	8140

DATE	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT 07...	47	160	20	43	12	8.9	1.3	167	0
JAN 21...	81	180	26	50	14	8.4	1.0	191	0
FEB 14...	--	170	18	49	12	10	1.1	187	0
APR 06...	85	150	17	44	10	8.0	.9	164	0
AUG 03...	100	160	17	46	12	9.3	.9	179	0

DATE	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)
OCT 07...	137	16	17	.0	4.6	185	1.3	140	40
JAN 21...	157	19	17	.1	4.9	209	2.0	150	20
FEB 14...	153	15	21	.1	4.9	205	2.0	130	20
APR 06...	135	18	17	.1	2.7	182	1.7	160	20
AUG 03...	147	17	17	.1	4.0	195	1.1	150	20

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

SUSQUEHANNA RIVER BASIN

01508962 OTTER CREEK AT MOUTH AT CORTLAND, NY

LOCATION.--Lat 42°36'32", long 76°10'51", Cortland County, Hydrologic Unit 02050102, on right bank 30 ft (9.1 m) downstream from walk bridge at Willow Street, 75 ft (23 m) upstream from mouth, and 900 ft (270 m) downstream from bridge on U.S. Highway 11 (Main Street) at Cortland. Water-quality sampling site at discharge station.

DRAINAGE AREA.--14.3 mi² (37.0 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1975 to December 1976 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,100.00 ft (335.28 m) above mean sea level.

REMARKS.--Records poor.

EXTREMES FOR CURRENT PERIOD.--December 1975 to September 1976: Maximum discharge during period, 248 ft³/s (7.02 m³/s) Feb. 22; maximum gage height, 7.23 ft (2.204 m) Apr. 26 (backwater from debris); no flow many days.
October to December 1976: Maximum discharge, 105 ft³/s (2.97 m³/s) Oct. 9, gage height, 6.77 ft (2.063 m); no flow Oct. 1-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			3.9	1.6	10	51	23	10	28	35	17	.82
2			5.6	1.4	9.8	47	19	14	21	23	12	.14
3			4.4	1.2	8.4	107	17	13	17	23	9.9	.01
4			4.0	1.0	8.4	82	16	12	14	19	8.8	0
5			3.9	.90	10	58	14	12	13	20	7.9	0
6			4.4	1.3	9.8	53	12	12	14	16	7.5	0
7			5.4	1.1	8.8	44	12	11	19	14	8.9	0
8			4.0	1.2	7.6	40	12	10	14	14	10	0
9			5.6	1.8	7.6	36	11	9.9	14	15	13	0
10			18	1.8	7.2	32	9.9	9.4	13	12	7.9	1.2
11			9.8	1.1	7.2	29	9.9	11	12	15	7.1	.11
12			7.4	1.8	7.8	26	9.9	18	10	63	6.4	0
13			6.6	2.2	8.4	26	8.8	9.4	10	54	6.0	0
14			7.0	3.0	9.2	24	8.3	12	10	43	6.0	0
15			7.0	2.2	8.6	21	8.0	13	9.4	31	6.0	0
16			7.6	2.2	17	20	21	14	9.1	28	5.6	.02
17			3.6	2.2	84	19	12	14	9.3	26	4.6	.55
18			2.7	2.8	87	17	10	15	7.9	21	3.7	0
19			2.4	2.8	153	18	9.9	20	8.6	20	3.2	0
20			2.6	3.2	82	20	11	64	15	18	2.4	0
21			2.6	4.0	70	22	12	43	16	19	2.0	0
22			2.6	2.2	178	21	12	32	12	18	1.7	0
23			1.8	.90	79	17	12	31	13	17	1.5	0
24			1.5	1.2	54	16	13	29	12	17	.97	0
25			1.3	1.5	52	15	20	28	12	17	.55	0
26			2.0	5.6	46	14	16	26	12	16	.26	.12
27			12	29	47	14	13	24	13	15	.24	.01
28			7.0	26	38	14	14	22	14	12	.09	0
29			4.0	17	36	12	13	21	15	13	1.4	0
30			2.0	12	---	11	11	23	24	13	.29	0
31			1.8	11	---	12	---	24	---	12	.06	---
TOTAL			154.5	147.20	1151.8	938	390.7	606.7	411.3	679	162.96	2.98
MEAN			4.98	4.75	39.7	30.3	13.0	19.6	13.7	21.9	5.26	.099
MAX			18	29	178	107	23	64	28	63	17	1.2
MIN			1.3	.90	7.2	11	8.0	9.4	7.9	12	.06	0
CFSM			.35	.33	2.78	2.12	.91	1.37	.96	1.53	.37	.006
IN.			.40	.38	3.00	2.44	1.02	1.58	1.07	1.77	.42	.008

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER TO DECEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	DAY	OCT	NOV	DEC	DAY	OCT	NOV	DEC
1	0	15	0.3	11	8.8	17	2.4	21	11	8.3	1.3
2	0	12	.2	12	5.3	14	2.6	22	4.3	7.1	.8
3	0	9.4	.3	13	3.4	14	2.6	23	3.2	6.7	1.1
4	0	11	.2	14	4.0	14	1.8	24	6.1	5.6	1.7
5	0	11	1.1	15	2.6	12	1.4	25	13	5.3	1.8
6	0	12	.6	16	2.4	7.9	1.2	26	9.4	4.6	2.2
7	0	14	6.4	17	2.6	7.1	1.1	27	7.5	5.0	1.3
8	.69	16	2.4	18	2.6	7.5	.9	28	6.7	4.6	.8
9	25	15	3.4	19	2.4	7.5	.9	29	6.7	4.3	1.0
10	28	15	7.0	20	3.3	7.1	1.8	30	6.0	1.1	.8
								31	17		.6
TOTAL									181.99	291.1	52.0
MEAN									5.87	9.70	1.68
MAX									28	17	7.0
MIN									0	1.1	.2
CFSM									.41	.68	.12
IN.									.47	.76	.14

CAL YR 1976 TOTAL 5,015.73 MEAN 13.7 MAX 178 MIN 0 CFSM 0.96 IN. 13.04

SUSQUEHANNA RIVER BASIN

01508962 OTTER CREEK AT MOUTH AT CORTLAND, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to June 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (CA, MG) (MG/L)	NUN- CAN- RONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
FEB 27...	1515	847	400	6.7	7.5	180	37	56
MAR 19...	1030	15	490	7.6	4.0	210	43	62
JUN 18...	1325	57.9	470	--	18.0	210	46	62

DATE	DIS- SOLVED MA- NE- SIUM (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINEITY AS CAC13 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
FEB 27...	10	1.3	176	144	19	24	3.6
MAR 19...	13	.9	202	166	21	28	3.8
JUN 18...	13	1.0	198	162	19	29	2.8

E Estimated.

SUSQUEHANNA RIVER BASIN

01509000 TIOUGHNIAGA RIVER AT CORTLAND, NY

LOCATION.--Lat 42°36'10", long 76°09'35", Cortland County, Hydrologic Unit 02050102, on right bank at east end of Elm Street at Cortland, 0.4 mi (0.6 km) downstream from confluence of East and West Branches. Water-quality sampling site at Cortland Sewage Treatment Plant, 0.4 mi (0.6 km) downstream from discharge station.

DRAINAGE AREA.--292 mi² (756 km²), including 14.0 mi² (36.3 km²), the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WRD NY 1968: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 1,084.92 ft (330.683 m) above mean sea level. Prior to Oct. 1, 1939, water-stage recorder at datum 4.00 ft (1.219 m) higher; Oct. 1, 1939 to Sept. 30, 1963, water-stage recorder at datum 3.00 ft (0.914 m) higher.

REMARKS.--Records good except those for winter periods, which are fair. Diurnal fluctuation at low and medium flow caused by powerplants in mills on West Branch. Slight diversion from East Branch for operation of Erie (Barge) Canal. A constant 2.8 ft³/s (0.079 m³/s) is diverted for manufacturing purposes from Gate House Pond on West Branch upstream from station into Onondaga Creek basin (St. Lawrence River basin).

AVERAGE DISCHARGE.--38 years, 495 ft³/s (14.02 m³/s), 23.02 in/yr (585 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Mar. 5, 1964, gage height, 12.49 ft (3.807 m); minimum, 9.8 ft³/s (0.28 m³/s) Sept. 20, 1939, Sept. 29, 1959; minimum daily, 17 ft³/s (0.48 m³/s) Sept. 26, 27, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4400 ft³/s (125 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 19	2115	4,910 139	8.58 2.615	April 16	2330	*5,660 160	*9.30 2.835

Minimum discharge, 105 ft³/s (2.97 m³/s) Sept. 9, 10, gage height, 2.95 ft (0.899 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	620	288	500	395	680	3040	1280	1230	584	900	312	161
2	800	274	490	340	620	2740	1400	1470	559	610	325	189
3	748	270	435	330	560	3430	1040	1280	470	490	248	164
4	576	310	400	300	560	3600	884	1120	413	432	218	138
5	490	315	370	290	520	3610	758	937	377	386	196	175
6	440	274	465	280	470	3480	685	805	359	346	185	157
7	395	258	565	340	450	2380	620	764	504	316	210	129
8	351	258	430	290	430	1700	565	741	427	372	342	120
9	320	258	425	270	420	1200	520	647	346	475	647	111
10	297	266	945	270	410	1100	485	579	308	337	490	236
11	279	351	807	270	430	1000	461	554	312	316	363	312
12	288	320	642	270	460	860	437	776	292	876	279	236
13	288	614	576	290	430	842	418	637	263	1200	244	182
14	311	582	582	260	420	806	395	539	248	1500	404	154
15	292	532	598	311	390	770	372	519	275	1270	610	138
16	311	526	659	311	470	691	2180	504	279	906	509	132
17	302	526	549	270	1900	600	3640	470	346	834	377	189
18	787	490	490	260	2900	595	1660	456	312	653	300	312
19	938	470	360	250	4350	615	1120	539	263	544	255	292
20	1180	445	380	240	3460	890	894	1820	499	465	229	240
21	1040	598	340	220	2190	1480	770	1910	529	427	207	225
22	814	807	340	210	3290	1870	719	1270	504	408	189	196
23	642	614	340	200	3370	1290	719	981	691	359	182	175
24	554	538	280	190	2250	1060	637	834	594	342	175	175
25	495	495	290	220	1890	932	1150	741	519	312	171	157
26	460	460	350	240	1890	884	2140	793	446	283	167	154
27	415	490	560	660	2620	824	1990	781	390	271	164	404
28	385	598	470	1200	2730	992	1890	663	363	263	171	346
29	360	485	410	980	2040	830	2030	574	372	248	418	275
30	338	455	390	840	---	718	1580	529	441	296	271	240
31	310	---	405	640	---	652	---	529	---	267	182	---
TOTAL	15826	13167	14843	11437	42600	45481	33439	25992	12285	16704	9040	6114
MEAN	511	439	479	369	1469	1467	1115	838	410	539	292	204
MAX	1180	807	945	1200	4350	3610	3640	1910	691	1500	647	404
MIN	279	258	280	190	390	595	372	456	248	248	164	111
CFSM	1.75	1.50	1.64	1.26	5.03	5.02	3.82	2.87	1.40	1.85	1.00	.70
IN.	2.02	1.68	1.89	1.46	5.43	5.79	4.26	3.31	1.57	2.13	1.15	.78

CAL YR 1975 TOTAL 203689 MEAN 558 MAX 6120 MIN 64 CFSM 1.91 IN 25.95
WTR YR 1976 TOTAL 246928 MEAN 675 MAX 4350 MIN 111 CFSM 2.31 IN 31.46

SUSQUEHANNA RIVER BASIN

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01509000 TIOUGHNIAGA RIVER AT CORTLAND, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1956 to current year.

COOPERATION.--Water-temperature records furnished by the city of Cortland.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 23.5°C July 22, 1957; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 20.5°C June 30, 1976; minimum, freezing point on several days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE DAILY AT 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	9.0	7.0	3.0	1.0	5.0	7.0	9.5	14.5	17.0	16.5	16.5
2	13.0	11.0	5.5	2.0	0.5	4.0	8.5	10.0	14.0	17.5	17.0	16.0
3	12.0	12.0	5.0	2.5	0.5	3.5	7.0	11.0	14.5	13.0	15.5	16.0
4	12.5	13.5	4.5	2.0	1.0	4.5	6.0	9.5	15.0	17.0	16.0	16.0
5	12.0	13.0	3.5	0.0	1.0	5.0	5.5	9.5	15.0	18.0	19.0	15.5
6	12.0	13.0	7.0	1.0	0.0	4.5	7.5	11.0	15.0	20.0	19.0	14.0
7	11.5	13.0	3.0	2.0	0.0	4.0	7.5	11.5	15.0	18.5	16.0	14.0
8	11.0	13.0	3.0	1.0	0.5	2.0	7.0	11.5	17.0	19.5	17.0	15.0
9	11.0	13.0	4.0	0.5	2.0	1.5	7.0	12.0	19.0	18.5	17.5	15.5
10	11.0	14.0	4.0	1.0	1.5	1.0	8.5	12.0	19.0	16.5	17.5	16.5
11	12.0	11.0	3.5	1.0	1.0	3.0	7.0	12.5	19.5	18.0	18.0	16.5
12	11.5	9.5	4.0	1.0	1.0	3.5	5.0	12.0	17.0	17.0	18.0	13.0
13	11.5	9.0	5.5	1.5	4.5	3.5	7.0	10.5	16.0	16.5	18.5	15.0
14	12.5	6.0	6.5	2.0	3.0	3.0	8.0	13.0	17.0	15.0	18.5	15.0
15	12.0	5.5	8.5	2.0	3.0	3.0	10.0	13.0	19.5	16.5	19.5	16.0
16	12.0	5.0	3.5	1.5	4.0	3.5	10.0	13.0	19.5	17.5	17.5	16.0
17	12.0	6.5	3.0	0.0	2.0	1.0	10.0	15.0	18.5	16.0	18.0	16.5
18	11.5	7.0	1.5	0.0	2.0	1.0	10.0	13.0	19.5	16.0	18.5	17.0
19	11.5	8.0	1.5	0.0	1.0	4.0	14.0	9.5	19.0	17.0	17.0	17.0
20	11.5	8.5	1.5	0.5	0.5	5.0	13.5	7.0	18.5	19.0	17.5	17.0
21	11.5	8.0	2.5	2.0	2.0	8.0	15.0	10.5	19.0	19.5	18.0	15.0
22	12.0	7.0	2.0	0.5	4.0	2.5	11.0	10.5	18.5	18.0	18.0	15.0
23	12.0	7.0	3.0	0.5	1.0	2.5	14.0	10.5	19.0	18.5	18.0	12.5
24	12.5	5.5	0.5	0.5	2.0	5.0	13.5	10.0	19.5	17.0	18.5	12.5
25	14.0	5.0	0.5	1.0	3.0	7.0	10.0	11.0	20.0	16.5	18.0	11.5
26	13.0	5.5	2.0	2.5	5.0	8.0	8.5	11.0	19.5	16.0	18.0	12.0
27	11.0	6.0	2.5	2.0	4.0	8.0	5.5	13.5	19.5	17.0	18.0	13.0
28	11.0	7.0	2.5	1.0	4.0	8.0	6.5	14.0	19.0	17.5	18.0	12.0
29	12.0	5.0	1.0	0.5	4.0	6.0	8.0	13.5	20.0	18.0	18.0	11.5
30	9.0	5.5	2.0	0.5	---	7.0	8.5	13.5	20.5	18.0	17.0	11.0
31	8.5	---	4.0	0.5	---	7.5	---	14.0	---	17.0	16.0	---
AVERAGE	11.5	8.5	3.5	1.0	2.0	4.5	9.0	11.5	18.0	17.5	17.5	14.5

SUSQUEHANNA RIVER BASIN

01509150 GRIDLEY CREEK ABOVE EAST VIRGIL, NY

LOCATION.--Lat 42°30'04", long 76°07'38", Cortland County, Hydrologic Unit 02050102, on right bank 100 ft (30 m) downstream from bridge on Tone Road, 250 ft (75 m) south of State Highway 90, 1.6 mi (2.6 km) northwest of East Virgil, 3.2 mi (5.1 km) northwest of Messengersville, and 3.5 mi (5.6 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--10.4 mi² (26.9 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge measurements, seepage investigation, water year 1974. July 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,270.00 ft (387.096 m) above mean sea level.

REMARKS.--Records fair except those for winter periods and those for periods of no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft³/s (71.6 m³/s) Sept. 26, gage height, 7.77 ft (2.368 m); minimum, 0.9 ft³/s (0.025 m³/s) Aug. 8, gage height, 4.74 ft (1.445 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 500 ft³/s (14.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
July 12	1200	*1,300 36.8	*7.29 2.222

Minimum discharge, 2.6 ft³/s (0.07 m³/s) Sept. 9, gage height, 4.94 ft (1.506 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	8.5	28	15	20	170	54	43	31	32	32	7.5
2	35	8.0	19	12	17	110	42	50	18	19	13	9.7
3	28	8.4	18	11	14	200	35	46	11	16	8.9	4.5
4	21	11	16	9.6	14	190	28	32	9.3	16	7.5	4.0
5	17	11	16	8.6	13	180	23	27	8.2	14	6.9	3.8
6	15	12	36	8.4	12	140	20	22	11	9.3	6.9	3.3
7	13	11	23	10	12	120	18	24	26	8.9	27	3.1
8	11	11	18	9.0	11	100	16	19	10	15	27	2.9
9	9.9	10	28	8.6	11	86	13	17	7.8	11	24	2.7
10	9.2	13	69	8.2	10	70	13	14	6.9	7.8	18	34
11	10	14	32	8.0	12	60	13	25	6.9	137	13	11
12	11	18	28	7.6	15	50	12	28	6.2	279	11	10
13	11	47	25	8.6	12	45	11	17	5.4	143	8.9	6.0
14	18	29	29	7.4	11	40	9.7	15	4.8	72	9.7	4.8
15	12	27	30	9.6	10	36	9.3	14	4.3	36	23	4.0
16	23	29	27	9.6	15	34	52	13	7.5	51	16	4.8
17	16	26	20	8.6	90	32	21	12	10	41	9.7	24
18	129	23	16	7.6	130	30	17	15	5.4	28	7.8	12
19	69	21	11	7.0	180	32	14	32	4.3	20	6.9	8.2
20	67	20	12	6.4	59	42	13	150	9.7	17	6.2	6.9
21	46	33	11	5.8	56	52	12	42	11	16	5.7	8.9
22	35	22	11	5.6	222	60	18	32	9.7	11	5.1	6.5
23	28	17	11	5.2	70	45	14	26	7.2	9.7	4.8	6.0
24	23	15	8.4	5.0	58	40	13	22	6.5	8.9	4.3	5.4
25	21	14	9.4	6.0	58	37	119	19	9.3	7.5	4.0	4.8
26	18	13	14	8.0	86	34	97	17	6.0	6.5	6.2	9.3
27	15	30	25	11	140	32	72	14	7.2	6.9	6.2	20
28	13	22	18	16	90	33	77	12	6.9	7.2	4.5	11
29	12	18	12	28	66	30	72	10	12	17	4.0	7.8
30	10	21	11	20	---	29	45	10	64	13	3.6	7.2
31	9.1	---	15	15	---	27	---	13	---	8.2	3.3	---
TOTAL	785.2	562.9	646.8	305.4	1514	2186	973.0	832	343.5	1084.9	335.1	254.1
MEAN	25.3	18.8	20.9	9.88	52.2	70.5	32.4	26.8	11.5	35.0	10.8	8.47
MAX	129	47	69	28	222	200	119	150	64	279	32	34
MIN	9.1	8.0	8.4	5.0	10	27	9.3	10	4.3	6.5	3.3	2.7
CFSM	2.43	1.81	2.01	.95	5.02	6.78	3.12	2.58	1.11	3.37	1.04	.81
IN.	2.81	2.01	2.31	1.10	5.41	7.82	3.48	2.98	1.23	3.88	1.20	.91

CAL YR 1975 TOTAL 8705.7 MEAN 23.9 MAX 621 MIN 1.2 CFSM 2.30 IN 31.14
WTR 1976 TOTAL 9823.9 MEAN 26.8 MAX 279 MIN 2.7 CFSM 2.58 IN 35.14

NOTE.--No gage-height record Dec. 24 to Feb. 19, Feb. 27 to Apr. 6.

SUSQUEHANNA RIVER BASIN

251

01509150 GRIDLEY CREEK ABOVE EAST VIRGIL, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to September 1976 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
OCT 07...	0930	14	179	7.7	10.0	9.4	83	230	54
NOV 21...	0900	21	140	7.5	9.0	9.2	--	270	130
DEC 18...	1000	17	148	7.6	1.0	12.6	92	310	B130
JAN 21...	0930	6.8	211	7.9	.0	12.2	84	610	210
FEB 19...	1030	123	95	7.7	1.0	13.4	94	B1100	73
APR 06...	0930	22	124	7.5	5.0	9.8	77	66	B13
MAY 06...	0900	23	140	7.5	11.0	9.2	83	170	50
JUN 02...	0930	17	148	8.0	12.0	9.8	91	660	340
JUL 13...	1430	177	85	7.1	16.0	9.0	91	3700	710
AUG 03...	0930	9.2	210	7.5	13.0	9.0	88	420	51
24...	1045	4.6	--	7.7	16.0	--	--	--	--
SEP 09...	1400	2.8	275	7.4	18.0	7.6	80	B170	88

DATE	STREP- TOCUCCT (COL- ONIES PER 100 ML)	HARD- NESS (CA.MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) - (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
OCT 07...	B140	75	19	22	4.8	7.3	1.1	68	0
NOV 21...	390	57	16	18	3.0	3.5	1.0	50	0
DEC 18...	210	55	15	16	3.7	6.6	.7	49	0
JAN 21...	130	76	14	22	5.0	5.0	.8	75	0
FEB 19...	89	29	13	8.5	2.0	3.4	.7	20	0
APR 06...	B10	55	19	16	3.6	5.4	.7	44	0
MAY 06...	B12	57	17	17	3.5	4.7	.6	49	0
JUN 02...	280	60	14	18	3.6	4.6	.7	56	0
JUL 13...	B1400	38	17	13	1.3	1.0	.9	25	0
AUG 03...	84	87	16	27	4.8	7.1	1.1	87	0
24...	--	110	18	32	6.9	5.5	1.0	110	--
SEP 09...	88	120	17	36	7.2	5.3	1.0	125	0

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

SUSQUEHANNA RIVER BASIN

01509150 GRIDLEY CREEK ABOVE EAST VIRGIL, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
OCT									
07...	56	13	7.9	.2	5.3	95	.46	230	20
NOV									
21...	41	14	6.3	.1	4.1	75	.43	340	30
DEC									
18...	40	15	5.4	.1	4.6	76	.57	140	0
JAN									
21...	62	14	7.5	.1	4.7	96	.75	120	10
FEB									
19...	16	11	4.8	.1	3.9	44	.63	1100	30
APR									
06...	36	13	6.9	.1	4.5	72	.59	140	10
MAY									
06...	40	12	5.4	.1	4.0	71	.42	100	0
JUN									
02...	46	11	5.9	.1	4.7	76	.35	220	1
JUL									
13...	21	12	2.1	.1	4.8	48	.38	1800	30
AUG									
03...	71	13	8.3	.1	5.2	110	.42	60	0
24...	90	13	8.1	--	--	--	.47	--	--
SEP									
09...	103	17	11	.1	5.4	145	.47	60	0

SUSQUEHANNA RIVER BASIN

253

01510000 OTSELIC RIVER AT CINCINNATUS, NY

LOCATION.--Lat 42°32'28", long 75°53'58", Cortland County, Hydrologic Unit 02050102, on right bank 150 ft (46 m) upstream from Mead Brook, and 300 ft (91 m) downstream from bridge on County Highway 159 at Cincinnatus.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--June 1938 to September 1964, October 1969 to current year.

REVISED RECORDS.--WRD NY 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,031.67 ft (314.328 m) above mean sea level.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--33 years (1939-64, 1970-76), 272 ft³/s (7.703 m³/s), 25.13 in/yr (638 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,390 ft³/s (238 m³/s) Dec. 30, 1942; maximum gage height, 10.68 ft (3.255 m) Apr. 4, 1950; minimum discharge, 3.8 ft³/s (0.11 m³/s) Sept. 25, 1939; minimum gage height, 0.35 ft (0.107 m) Sept. 5, 1973 (result of regulation).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (70.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 22	1400	2,860 81.0	6.89 2.100	Apr. 16	1745	*3,670 104	*7.77 2.368

Minimum discharge, 54 ft³/s (1.53 m³/s) Aug. 6; minimum gage height, 1.15 ft (0.351 m) Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	373	149	313	180	450	1860	1150	552	365	878	124	180
2	844	138	277	160	400	1240	805	751	271	386	130	249
3	583	134	263	160	350	1670	603	621	213	284	89	175
4	440	150	217	150	320	1750	487	544	181	238	70	137
5	370	143	200	150	300	2080	400	436	159	198	60	151
6	323	122	264	140	280	1790	346	368	150	166	55	129
7	279	110	310	150	260	1050	301	351	370	145	116	103
8	246	106	217	140	240	745	266	317	214	141	173	91
9	219	99	219	130	250	500	237	261	164	303	282	79
10	198	107	503	130	250	450	216	231	144	157	184	196
11	194	139	393	130	270	380	206	236	187	151	160	208
12	252	120	323	120	260	361	188	408	155	889	127	158
13	202	274	299	140	250	391	177	266	128	714	112	122
14	259	228	299	160	240	379	162	225	116	751	182	100
15	221	208	310	160	220	340	152	225	185	552	225	87
16	277	208	342	140	280	290	2280	202	150	464	254	82
17	237	196	262	130	1000	251	1280	192	248	467	167	173
18	983	196	237	120	1400	248	671	184	166	342	138	323
19	1010	185	166	110	2230	268	498	251	137	282	118	261
20	965	175	160	100	1480	543	400	1290	136	238	106	202
21	686	277	160	98	947	1130	331	899	174	221	95	210
22	537	367	150	94	2270	1180	303	563	207	200	84	169
23	437	264	140	92	1570	671	287	439	246	169	75	153
24	373	234	140	90	974	579	251	365	414	164	67	155
25	329	217	150	90	845	555	785	331	287	140	60	129
26	292	204	217	110	947	508	1190	382	214	115	79	148
27	252	274	387	768	1540	494	892	374	180	99	269	471
28	223	326	289	889	1350	667	914	279	147	96	354	328
29	204	248	220	714	974	466	940	239	149	91	771	259
30	185	232	210	580	---	391	655	229	291	130	331	227
31	162	---	210	450	---	343	---	227	---	105	223	---
TOTAL	12155	5830	7827	6775	22147	23570	17373	12238	6148	9276	5280	5455
MEAN	392	194	252	219	764	760	579	395	205	299	170	182
MAX	1010	367	503	889	2270	2080	2280	1290	414	889	771	471
MIN	162	99	140	90	220	248	152	184	116	91	55	79
CFSM	2.67	1.32	1.71	1.49	5.20	5.17	3.94	2.69	1.39	2.03	1.16	1.24
IN.	3.08	1.48	1.98	1.71	5.60	5.96	4.40	3.10	1.56	2.35	1.34	1.38

CAL YR 1975	TOTAL	106360	MEAN 291	MAX 3760	MIN 10	CFSM 1.98	IN 26.92
WTR YR 1976	TOTAL	134074	MEAN 366	MAX 2280	MIN 55	CFSM 2.49	IN 33.93

SUSQUEHANNA RIVER BASIN

01511000 WHITNEY POINT LAKE AT WHITNEY POINT, NY

LOCATION.--Lat 42°20'34", long 75°57'57", Broome County, Hydrologic Unit 02050102, on left bank at control-gate structure for Whitney Point Dam on Otselic River, 0.3 mi (0.5 km) upstream from spillway, 0.9 mi (1.4 km) upstream from mouth, and 1.0 mi (1.6 km) north of Whitney Point.

DRAINAGE AREA.--257 mi² (666 km²).

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

REVISED RECORDS.--WRD N.Y. 1968: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to October 1970, published as "Whitney Point Reservoir at Whitney Point."

REMARKS.--Lake is formed by earth-fill dam with concrete spillway, completed by Corps of Engineers in 1942 for flood control; first used for flood regulation on Mar. 9, 1942. Usable capacity, 86,440 acre-ft (107 hm³) between elevations 950.0 ft or 289.56 m (sill of gates) and 1,010.0 ft or 307.85 m (crest of spillway) above mean sea level. Dead storage, 28-acre-ft (34,500 m³). Figures given herein represent total contents. Discharge is controlled by operation of three gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,005.0 ft (306.32 m) Mar. 23, 1948, contents, 71,440 acre-ft (88.1 hm³); minimum, 950.4 ft (289.68 m) Sept. 2-4, 1953, contents, 36 acre-ft (44,400 m³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 989.50 ft (301.600 m) Feb. 24, contents, 38,070 acre-ft (46.9 hm³); minimum, 965.62 ft (294.321 m) Apr. 22, contents, 4,852 acre-ft (5.98 hm³).

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1937)

960.0	1,250	980.0	22,240
965.0	4,260	985.0	30,200
970.0	9,270	990.0	38,980
975.0	15,290	1,000.0	59,220

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	980.10	973.01	973.00	966.15	966.09	981.74	967.16	972.93	973.23	974.03	973.17	972.91
2	977.08	973.08	972.41	966.01	966.21	980.84	968.16	973.52	973.16	973.59	973.20	973.14
3	974.55	973.14	971.03	966.03	966.01	980.12	967.14	973.46	972.95	973.17	973.14	973.14
4	973.29	973.21	969.57	966.12	965.99	982.22	966.31	973.37	972.98	973.07	973.02	973.24
5	972.86	973.11	968.12	966.00	966.04	985.12	966.32	973.07	973.04	973.00	972.95	973.22
6	972.92	972.96	967.11	965.97	965.95	987.71	966.10	972.95	973.07	972.98	972.88	973.09
7	972.93	972.94	966.75	965.98	965.98	987.87	966.03	972.99	973.31	972.96	972.93	972.95
8	972.92	972.93	966.30	966.10	965.99	986.20	965.96	973.00	973.34	973.11	973.38	972.95
9	973.00	972.92	966.07	966.15	965.99	983.43	965.92	972.96	973.00	973.37	973.52	972.94
10	973.04	972.92	966.21	966.11	965.91	980.00	966.13	973.11	972.95	973.21	972.99	973.04
11	973.05	973.08	966.31	966.09	966.06	976.51	966.19	973.24	973.10	973.01	972.82	973.42
12	973.07	973.25	965.88	966.10	966.17	973.01	966.19	973.38	973.25	974.52	972.98	973.16
13	973.11	973.38	965.87	966.10	965.97	970.79	966.11	973.05	973.11	974.43	973.09	972.95
14	973.16	973.17	965.91	966.13	965.92	969.01	966.04	973.11	972.99	973.42	973.20	972.97
15	973.23	973.06	966.03	966.23	965.92	967.35	966.07	973.23	973.07	973.06	973.41	973.00
16	973.14	973.07	966.28	966.26	966.07	966.21	966.87	973.22	973.24	972.83	973.78	973.01
17	973.10	973.14	966.34	966.26	967.80	966.00	970.51	973.16	973.31	973.06	973.32	973.19
18	974.07	973.18	966.11	966.17	972.37	966.07	971.03	973.09	973.20	973.00	972.87	973.45
19	975.05	973.17	965.88	965.97	977.52	966.22	970.27	973.06	973.03	972.91	972.89	973.03
20	978.14	973.14	965.98	965.96	982.44	966.42	968.48	973.81	973.01	972.99	972.94	972.90
21	978.03	973.16	966.17	966.08	983.60	967.30	966.61	973.83	973.04	973.13	972.96	972.92
22	975.24	973.53	966.35	966.17	984.39	968.70	965.72	973.30	973.19	973.18	972.98	973.15
23	973.23	973.22	966.37	966.03	988.35	967.75	965.85	973.15	973.30	973.03	973.08	973.14
24	972.99	973.07	966.16	966.03	989.26	966.31	966.00	972.97	973.48	972.97	973.17	973.09
25	973.00	973.26	965.86	966.09	987.72	966.11	966.40	973.13	973.27	973.03	973.23	973.01
26	972.99	973.21	965.99	966.14	986.00	966.05	968.98	973.24	972.97	973.04	973.30	972.98
27	972.96	973.14	966.23	966.64	985.98	966.02	971.50	973.25	972.88	973.05	973.75	973.43
28	972.98	973.35	966.25	967.73	985.06	966.49	972.79	973.10	973.03	973.05	973.23	973.21
29	973.01	973.15	965.93	967.93	983.15	966.40	973.16	972.97	973.16	973.05	973.55	972.92
30	973.02	973.05	966.06	967.41	---	965.99	972.98	972.97	973.30	973.14	973.50	972.90
31	972.95	---	966.26	966.32	---	965.95	---	973.05	---	973.18	972.93	---
MEAN	973.94	973.13	966.93	966.27	973.45	972.77	967.77	973.18	973.13	973.21	973.17	973.08
MAX	980.10	973.53	973.00	967.93	989.26	987.87	973.16	973.83	973.48	974.52	973.78	973.45
MIN	972.86	972.92	965.86	965.96	965.91	965.95	965.72	972.93	972.88	972.83	972.82	972.90
†	12,649	12,710	5,432	5,177	25,415	5,264	12,565	12,825	13,231	12,876	12,541	12,529
‡	-206	+1.0	-118	-4.2	+352	-328	+123	+4.2	+6.8	-5.8	-5.5	-0.2

CAL YR 1975 MEAN 970.85 MAX 990.05 MIN 965.83 † + 0.3
WTR YR 1976 MEAN 971.66 MAX 989.26 MIN 965.72 ‡ - 17.6

† Contents, in acre-feet, at end of month.

‡ Change in contents, equivalent in cubic feet per second.

SUSQUEHANNA RIVER BASIN

255

01512500 CHENANGO RIVER NEAR CHENANGO FORKS, NY

LOCATION.--Lat 42°13'05", long 75°50'55", Broome County, Hydrologic Unit 02050102, on left bank in Chenango Valley State Park, and 1.2 mi (1.9 km) downstream from Tioughnioga River and village of Chenango Forks.

DRAINAGE AREA.--1,483 mi² (3,841 km²).

PERIOD OF RECORD.--November 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 871.73 ft (265.703 m) above mean sea level (levels by Corps of Engineers). Nov. 11, 1912 to Oct. 1, 1914, nonrecording gage and Oct. 2, 1914 to Aug. 2, 1936, water-stage recorder at site 300 ft (91 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. Since March 1942, flood flows partly regulated by Whitney Point Lake (see station 01511000). Slight diversion from upstream tributaries for operation of Erie (Barge) Canal.

AVERAGE DISCHARGE.--63 years (1913-76), 2,414 ft³/s (68.36 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 96,000 ft³/s (2,720 m³/s) July 8, 1935, gage height, 20.3 ft (6.19 m), from floodmarks, from rating curve extended above 32,000 ft³/s (906 m³/s) on basis of slope-area measurement of peak flow; minimum, 84 ft³/s (2.38 m³/s) Sept. 19, 25, 1939, gage height, 2.24 ft (0.683 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 18,000 ft³/s (510 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	2100	ice jam	*14.33 4.368	Feb. 19	2000	*20,800 589	10.09 3.075
Feb. 7	1200	ice jam	10.45 3.185				

Minimum discharge, 650 ft³/s (18.4 m³/s) Aug. 26, gage height, 3.12 ft (0.951 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6540	1610	2800	2000	4400	12200	6790	4660	2380	4710	1630	1420
2	7010	1560	3380	1700	4200	12100	7720	5540	2950	3940	1510	1480
3	7090	1540	3310	1600	3800	12900	6170	5630	2270	2600	1230	1670
4	4060	1640	3040	1500	3600	12700	4750	5510	1760	2320	1010	1190
5	3230	1730	2790	1400	3500	13400	3860	4420	1540	1910	876	1150
6	2650	1540	2700	1200	3400	13400	3360	3610	1430	1620	822	1230
7	2390	1380	3230	1400	3300	11800	2970	3220	2380	1390	1280	1060
8	2070	1350	2610	1300	3200	9690	2700	3120	2820	1310	2150	898
9	1840	1320	2250	1200	3100	8000	2390	2700	2080	1610	4240	843
10	1730	1270	3440	1200	3100	7200	2100	2330	1600	1740	3320	965
11	1640	1390	4060	1100	3300	6200	2070	2190	1490	1750	2340	1570
12	1660	1500	3190	1100	3500	5400	1980	3860	1630	6170	1690	1660
13	1670	3000	2650	1200	3600	4890	1880	3390	1480	6530	1440	1230
14	1750	3150	2540	1200	3100	4770	1730	2430	1270	5790	1820	909
15	1910	2650	2560	1600	3000	4350	1580	2250	1180	4600	2270	833
16	1960	2460	2840	1800	3500	3560	3860	2190	1600	3390	3760	801
17	2040	2410	2660	1500	6000	2860	10200	2080	2070	3280	2730	1180
18	7610	2250	2420	1400	12000	2490	7690	1970	2150	2810	1940	2590
19	9910	2140	1810	1300	18700	2660	5420	2170	1580	2190	1340	2120
20	9290	2040	1600	1400	18800	3540	4770	6350	1520	1750	1150	1580
21	9110	2300	1500	1200	14600	5650	3970	8090	2330	1560	1050	1380
22	7580	3700	1700	1100	15400	7610	2990	5670	2220	1570	931	1180
23	5180	3190	1800	1100	14400	6760	2580	4390	2150	1470	812	1120
24	3640	2530	1600	1000	11900	5350	2370	3620	2580	1260	750	1060
25	3230	2250	1500	1000	10800	4370	3420	3030	2600	1120	710	1020
26	2930	2240	1690	1900	9850	4020	8100	2950	2270	1020	740	931
27	2610	2350	3080	9000	11300	3600	7320	3020	1760	955	1940	2610
28	2290	3170	3110	7400	12800	4630	6490	2770	1470	954	1960	3210
29	2140	2840	2730	6800	10800	4260	6920	2320	1360	955	2170	2220
30	2010	2440	2300	6000	4000	3440	6120	2060	1890	1240	3360	1730
31	1780	---	2000	4500	---	3000	---	1970	---	1130	2140	---
TOTAL	120550	64940	78890	69100	222950	206800	134270	109510	57810	74644	55111	42840
MEAN	3889	2165	2545	2229	7688	6671	4476	3533	1927	2408	1778	1428
MAX	9910	3700	4060	9000	18800	13400	10200	8090	2950	6530	4240	3210
MIN	1640	1270	1500	1000	3000	2490	1580	1970	1180	954	710	801
CAL YR 1975 TOTAL	1021594			MEAN 2799	MAX 21800	MIN 234						
WTR YR 1976 TOTAL	1237415			MEAN 3381	MAX 18800	MIN 710						

SUSQUEHANNA RIVER BASIN

01513110 SUSQUEHANNA RIVER AT JOHNSON CITY, NY

LOCATION.--Lat 42°06'37", long 75°58'30", Broome County, Hydrologic Unit 02050103, at intake of the New York State Electric and Gas Corp., Goudey Station, at Johnson City, 100 ft (30 m) upstream from Little Choconut Creek, 0.5 mi (0.8 km) downstream from C.F.J. Memorial Bridge, 3.5 mi (5.6 km) downstream from Chenango River, and 4.8 mi (7.7 km) upstream from discontinued discharge station (01513500) at Vestal.

DRAINAGE AREA.--3,891 mi² (10,078 km²), below mouth of Chenango River.

PERIOD OF RECORD.--Water years 1956 to current year. Prior to October 1967, published as 01513500, "at Vestal"; however, all water-temperature records were collected at present site.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1955 to current year.

REMARKS.--During winter periods water is at times recirculated from inside the plant through the intake to prevent icing conditions, thus resulting in reported water temperatures that are slightly above actual river temperatures. No record June 13.

COOPERATION.--Water-temperature records furnished by the New York State Electric and Gas Corp.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 28.0°C July 29, 1963, Aug. 18, 1965, and July 18, 1968; minimum, freezing point on many days during winter periods, except 1967 and 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 23.0°C June 11, 20 and Aug. 23, 26, 27; minimum, 1.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE DAILY AT 0800)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	6.0	6.0	1.0	1.0	3.0	7.0	11.0	16.0	19.0	21.0	18.0
2	14.0	7.0	4.0	1.0	1.0	3.0	6.0	10.0	14.0	18.0	17.0	18.0
3	12.0	9.0	3.0	1.0	1.0	2.0	6.0	11.0	15.0	19.0	18.0	17.0
4	12.0	11.0	1.0	1.0	1.0	2.0	5.0	9.0	16.0	19.0	19.0	17.0
5	12.0	10.0	1.0	1.0	1.0	3.0	4.0	8.0	17.0	20.0	21.0	18.0
6	12.0	9.0	2.0	1.0	1.0	5.0	5.0	11.0	18.0	21.0	21.0	17.0
7	12.0	10.0	2.0	1.0	1.0	3.0	6.0	12.0	16.0	22.0	19.0	17.0
8	12.0	12.0	1.0	1.0	1.0	1.0	6.0	11.0	17.0	20.0	17.0	18.0
9	13.0	12.0	2.0	1.0	1.0	1.0	5.0	10.0	18.0	19.0	18.0	19.0
10	12.0	12.0	3.0	1.0	1.0	1.0	6.0	11.0	19.0	20.0	18.0	20.0
11	12.0	11.0	2.0	1.0	1.0	2.0	7.0	13.0	23.0	22.0	18.0	16.0
12	13.0	9.0	2.0	1.0	1.0	1.0	4.0	12.0	21.0	19.0	19.0	15.0
13	12.0	9.0	2.0	1.0	1.0	2.0	4.0	10.0	---	18.0	19.0	17.0
14	13.0	8.0	3.0	1.0	1.0	1.0	6.0	12.0	18.0	17.0	19.0	18.0
15	13.0	6.0	5.0	1.0	1.0	2.0	8.0	13.0	21.0	17.0	22.0	19.0
16	14.0	5.0	4.0	1.0	1.0	2.0	10.0	15.0	22.0	18.0	19.0	18.0
17	13.0	5.0	3.0	1.0	1.0	1.0	11.0	16.0	22.0	18.0	18.0	18.0
18	11.0	5.0	3.0	1.0	1.0	1.0	14.0	16.0	21.0	18.0	18.0	18.0
19	11.0	7.0	1.0	1.0	1.0	1.0	16.0	12.0	22.0	18.0	19.0	18.0
20	11.0	7.0	1.0	1.0	1.0	2.0	17.0	9.0	23.0	20.0	20.0	18.0
21	10.0	8.0	1.0	1.0	1.0	4.0	16.0	10.0	21.0	22.0	21.0	17.0
22	11.0	7.0	1.0	1.0	1.0	5.0	16.0	11.0	21.0	19.0	22.0	16.0
23	12.0	6.0	1.0	1.0	1.0	2.0	15.0	9.0	21.0	22.0	23.0	13.0
24	12.0	4.0	1.0	1.0	1.0	3.0	13.0	10.0	21.0	20.0	22.0	13.0
25	13.0	3.0	1.0	1.0	1.0	5.0	12.0	10.0	22.0	21.0	22.0	13.0
26	13.0	4.0	1.0	1.0	2.0	6.0	10.0	11.0	22.0	19.0	23.0	13.0
27	11.0	4.0	1.0	1.0	3.0	7.0	7.0	12.0	22.0	21.0	23.0	13.0
28	11.0	4.0	1.0	1.0	3.0	4.0	7.0	13.0	22.0	21.0	21.0	13.0
29	11.0	4.0	1.0	1.0	2.0	6.0	8.0	14.0	22.0	22.0	22.0	12.0
30	9.0	3.0	1.0	1.0	---	7.0	9.0	15.0	22.0	20.0	19.0	12.0
31	7.0	---	1.0	1.0	---	7.0	---	16.0	---	21.0	18.0	---
AVERAGE	12.0	7.0	2.0	1.0	1.0	3.0	9.0	11.5	20.0	19.5	20.0	16.5

SUSQUEHANNA RIVER BASIN

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01513720 EAST BRANCH NANTICOKE CREEK AT GLEN AUBREY, NY

LOCATION.--Lat 42°15'27", long 76°00'38", Broome County, Hydrologic Unit 02050103, on right bank at downstream side of bridge on State Highway 26 at Glen Aubrey, 100 ft (30 m) downstream from unnamed tributary, and 3.9 mi (6.3 km) upstream from mouth.

DRAINAGE AREA.--15.4 mi² (39.9 km²).

PERIOD OF RECORD.--March to July 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 990 ft (302 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period March to July 1976, 6,000 ft³/s (170 m³/s) July 11, from contracted-opening measurement of peak flow made at site 2 mi (3.2 km) upstream, adjusted for drainage area, gage height, 13.72 ft (4.182 m), from floodmark; minimum daily, 1.6 ft³/s (0.045 m³/s) June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						20	111	32	7.7	20		
2						30	57	66	9.0	9.1		
3						50	40	40	5.1	7.8		
4						100	30	29	3.7	48		
5						88	23	22	2.7	17		
6						60	19	18	5.0	9.3		
7						48	16	16	24	6.7		
8						39	13	14	7.6	7.8		
9						36	11	12	4.6	5.8		
10						31	9.8	11	4.4	4.1		
11						29	9.4	20	3.3	761		
12						23	8.6	39	2.6	343		
13						19	7.5	18	1.8	84		
14						15	6.5	14	1.6	49		
15						13	5.6	12	3.3	23		
16						12	9.8	9.6	2.7	15		
17						11	8.3	9.0	12	12		
18						13	6.4	8.5	4.4	8.5		
19						28	6.3	19	2.7	5.5		
20						36	6.6	75	2.9	3.3		
21						37	5.7	26	4.4	3.2		
22						22	5.2	18	4.1	3.2		
23						16	4.9	15	3.1	3.1		
24						18	4.7	12	3.1	3.0		
25						17	27	11	4.1	3.0		
26						14	64	9.9	2.6	2.9		
27						21	34	8.9	2.6	2.8		
28						29	24	6.9	2.0	2.8		
29						19	25	5.6	2.0	3.0		
30						16	18	5.2	31	6.0		
31						14	---	4.9	---	4.0		
TOTAL						924	617.3	607.5	170.1	1476.9		
MEAN						29.8	20.6	19.6	5.67	47.6		
MAX						100	111	75	31	761		
MIN						11	4.7	4.9	1.6	2.8		
CFSM						1.94	1.34	1.27	.37	3.09		
IN.						2.23	1.49	1.47	.41	3.57		

SUSQUEHANNA RIVER BASIN

01513790 NANTICOKE CREEK AT UNION CENTER, NY

LOCATION.--Lat 42°08'56", long 76°04'00", Broome County, Hydrologic Unit 02050103, on left bank 125 ft (38.1 m) upstream from bridge on County Highway 43 (Nanticoke Drive) at Union Center, and 0.2 mi (0.32 km) upstream from Bradley Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--90.6 mi² (234.7 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water years 1953, 1956, 1962-65, 1968, 1975, and annual maximum, water years 1956, 1963-64, 1966-68, 1970-75. September 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 849.58 ft (258.952 m) above mean sea level. July 1962 to July 1976, crest-stage gage at site 10 ft (3.05 m) upstream at different datum.

REMARKS.--Records fair except those for winter periods, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1955 reached a discharge of 9,900 ft³/s (280 m³/s), on basis of contracted-opening measurement of peak flow (no gage height referenced to current datum is available); maximum gage height, 14.5 ft (4.42 m) Oct. 12, 1962.

EXTREMES FOR SEPTEMBER 1975 TO SEPTEMBER 1976.--Peak discharges above base of 2,600 ft³/s (74 m³/s) and maximums (*) for 1975 and 1976 water years:

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Sept. 26, 1975	1300	*8,500 241	*14.25 4.343	Feb. 17	0900	2,760 78.2	8.86 2.701
Oct. 19	1330	2,670 75.6	8.72 2.658	July 12	0015	*8,240 233	*14.06 4.285
Jan. 27	0030	ice jam	9.96 3.036				

Minimum daily discharge, 6.5 ft³/s (0.18 m³/s) Sept. 8, 1976.

DISCHARGE, IN CUBIC FEET PER SECOND, SEPTEMBER 1975
MEAN VALUES

DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S
1	48	6	34	11	26	16	34	21	312	26	4,740
2	71	7	28	12	84	17	30	22	158	27	1,470
3	74	8	25	13	89	18	32	23	195	28	678
4	43	9	64	14	56	19	130	24	702	29	398
5	34	10	36	15	41	20	123	25	3,430	30	268
SEPTEMBER 1975		TOTAL 13,453		MEAN 448		MAX 4,740		MIN 25	CFSM 4.94		IN. 5.52

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	43	134	96	140	292	1100	98	37	153	456	15
2	296	41	107	64	120	250	434	340	48	81	195	16
3	176	41	86	68	110	930	284	179	36	54	103	17
4	115	46	74	54	100	780	190	143	29	171	60	13
5	89	42	67	49	94	480	141	109	24	113	46	11
6	76	39	83	56	88	324	111	80	22	67	39	8.6
7	66	36	94	54	84	219	92	74	92	52	284	7.4
8	55	36	66	54	82	176	80	69	46	59	424	6.5
9	51	33	66	50	80	120	73	59	33	67	616	6.8
10	48	35	179	49	80	110	64	52	27	56	264	11
11	42	43	117	48	96	94	60	57	20	678	160	22
12	43	55	87	46	110	84	57	195	19	2350	105	18
13	39	376	76	44	120	84	55	98	17	565	135	14
14	45	201	74	54	130	78	49	74	16	368	292	14
15	41	153	78	80	120	74	45	63	19	256	276	11
16	55	134	100	66	170	68	50	55	19	140	312	11
17	49	103	72	54	2100	66	51	54	62	95	142	64
18	1150	87	56	52	1250	62	44	51	36	67	92	107
19	1360	78	47	50	1470	89	39	80	24	53	68	125
20	768	71	52	54	822	173	35	480	19	41	57	59
21	430	176	56	50	564	173	32	182	26	37	48	75
22	268	190	54	48	1460	171	30	113	26	39	38	53
23	182	117	50	47	608	109	28	87	20	32	32	40
24	132	92	54	46	420	94	25	74	46	28	26	35
25	103	81	148	45	352	84	74	67	38	26	23	30
26	91	74	219	300	344	77	308	60	31	23	22	27
27	77	123	434	1400	384	86	173	55	30	21	38	232
28	73	125	168	548	296	198	125	46	23	20	30	125
29	64	91	107	394	213	109	113	40	20	22	22	75
30	56	94	99	260	---	91	91	37	103	71	18	59
31	48	---	107	182	---	80	---	35	---	41	16	---
TOTAL	6264	2856	3211	4462	12007	5825	4053	3206	1006	5846	4439	1308.3
MEAN	202	95.2	104	144	414	188	135	103	33.6	189	143	43.6
MAX	1360	376	434	1400	2100	930	1100	480	103	2350	616	232
MIN	39	33	47	44	80	62	25	35	16	20	16	6.5
CFSM	2.23	1.05	1.15	1.59	4.57	2.08	1.49	1.14	.37	2.09	1.58	.48
IN.	2.57	1.17	1.32	1.83	4.93	2.39	1.66	1.32	.41	2.40	1.82	.54

WTR YR 1976 TOTAL 54485.3 MEAN 149 MAX 2350 MIN 6.5 CFSM 1.64 IN 22.37

SUSQUEHANNA RIVER BASIN

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01513790 NANTICOKE CREEK AT UNION CENTER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to October 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)
OCT 20...	1330	920	77	6.8	11.5	20	9.2	84	28	11
DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT 20...	8.0	1.9	2.4	1.3	21	0	17	12	3.5	51
DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRATE PLUS NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
OCT 20...	53	.21	.00	.21	.00	.36	.36	.57	.11	.01

SUSQUEHANNA RIVER BASIN

01514000 OWEGO CREEK NEAR OWEGO, NY

LOCATION.--Lat 42°07'40", long 76°16'17", Tioga County, Hydrologic Unit 02050103, on right bank 300 ft (91 m) upstream from bridge on State Highway 96, 0.5 mi (0.8 km) upstream from Catatonk Creek, and 1.5 mi (2.4 km) north of Owego.

DRAINAGE AREA.--185 mi² (479 km²).

PERIOD OF RECORD.--January 1930 to current year.

REVISED RECORDS.--WRD N.Y. 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 819.82 ft (249.881 m) above mean sea level. Prior to July 8, 1935, water-stage recorder, and July 9, 1935 to Sept. 30, 1936, nonrecording gage at site 250 ft (76 m) downstream, and Oct. 1, 1936 to Oct. 1, 1962, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--46 years, 276 ft³/s (7.816 m³/s), 20.26 in/yr (515 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft³/s (666 m³/s) July 8, 1935, gage height, 11.50 ft (3.505 m) present datum, from floodmarks, from rating curve extended above 7,800 ft³/s (221 m³/s) on basis of slope-area measurement of peak flow; minimum, 8.1 ft³/s (0.23 m³/s) Aug. 13, 1965; minimum gage height, 0.21 ft (0.064 m) Aug. 21, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,800 ft³/s (108 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 17	1530	4160 118	6.37 1.942	July 12	0930	*6340 180	*8.08 2.463
Feb. 22	1500	4200 119	6.41 1.954				

Minimum discharge, 29 ft³/s (0.82 m³/s) Sept. 10, gage height, 0.46 ft (0.140 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	541	182	403	276	430	1490	1850	351	145	619	475	46
2	1140	168	360	220	380	1060	919	517	185	241	258	47
3	701	157	305	210	350	2110	658	383	135	177	147	48
4	517	163	276	190	320	1890	519	341	106	191	114	42
5	434	157	255	150	290	1610	415	272	90	154	96	40
6	377	137	272	170	270	1350	351	234	83	127	88	36
7	328	128	328	150	250	881	303	218	185	102	348	34
8	286	123	244	150	230	555	263	203	132	142	443	32
9	258	114	248	150	220	490	232	174	98	125	447	31
10	238	113	749	140	210	430	208	155	98	97	272	58
11	218	128	457	140	260	380	194	150	78	344	215	114
12	212	123	364	130	260	337	182	407	68	3810	171	74
13	200	540	320	130	277	342	170	231	60	1620	152	60
14	209	420	313	150	316	316	154	185	55	1360	222	47
15	200	364	309	190	263	286	140	168	61	743	177	41
16	215	368	390	170	341	256	146	152	55	475	261	40
17	212	332	280	150	3340	232	165	150	203	503	163	108
18	1740	294	230	140	2490	209	134	140	104	324	126	166
19	1400	268	180	130	2780	236	120	168	74	241	106	135
20	1420	251	150	140	1990	404	110	1550	79	188	94	98
21	1040	348	160	130	1290	512	103	695	150	177	85	102
22	719	443	170	130	3050	611	99	466	114	179	76	92
23	546	305	170	120	1870	394	110	356	86	132	69	74
24	447	268	150	120	1180	364	98	290	75	119	63	68
25	390	251	179	110	1030	320	239	248	81	102	57	60
26	348	234	234	160	1120	283	649	215	76	87	54	58
27	301	305	565	1800	1550	261	504	197	90	78	145	200
28	268	403	368	1260	1340	466	522	166	75	74	88	174
29	248	286	282	824	938	297	569	142	64	81	69	123
30	225	297	272	622	---	265	425	130	353	163	57	104
31	197	---	286	475	---	244	---	121	---	112	50	---
TOTAL	15575	7720	9269	9047	28635	18980	10551	9175	3258	12887	5188	2352
MEAN	502	257	299	292	987	612	352	296	109	416	167	78.4
MAX	1740	590	749	1800	3340	2110	1850	1550	353	3810	475	200
MIN	197	113	150	110	210	208	98	121	55	74	50	31
CFSM	2.71	1.39	1.62	1.58	5.34	3.31	1.90	1.60	.59	2.25	.90	.42
IN.	3.13	1.55	1.86	1.82	5.76	3.82	2.12	1.84	.66	2.59	1.04	.47

CAL YR 1975	TOTAL	129345	MEAN 354	MAX 9540	MIN 21	CFSM 1.91	IN 26.01
WTR YR 1976	TOTAL	132637	MEAN 362	MAX 3810	MIN 31	CFSM 1.96	IN 26.67

01515000 SUSQUEHANNA RIVER NEAR WAVERLY, NY

LOCATION.--Lat 41°59'05", long 76°30'05", Bradford County, Pa., Hydrologic Unit 02050103, on left bank 0.2 mi (0.3 km) upstream from Cayuta Creek, 0.4 mi (0.6 km) upstream from bridge on East Lockhart Street at Sayre, Pa., 1 mi (2 km) downstream from New York-Pennsylvania State line, and 2 mi (3 km) southeast of Waverly.

DRAINAGE AREA.--4,773 mi² (12,362 km²).

PERIOD OF RECORD.--February 1937 to current year.

REVISED RECORDS.--WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 743.96 ft (226.759 m) above mean sea level (levels by Corps of Engineers). Prior to November 1939, at datum 1.0 ft (0.30 m) higher.

REMARKS.--Records good except those for winter periods, which are fair. Minor regulation by upstream lakes and reservoirs. Slight diversion from upstream tributaries for operation of Erie (Barge) Canal.

AVERAGE DISCHARGE.--39 years, 7,519 ft³/s (213.0 m³/s), 21.39 in/yr (543 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121,000 ft³/s (3,430 m³/s) June 23, 1972, gage height, 21.24 ft (6.474 m); minimum daily, 237 ft³/s (6.71 m³/s) Sept. 22, 23, 1964; minimum gage height, 0.52 ft (0.158 m) Sept. 24, 25, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of about 21.4 ft (6.52 m), from flood profile (discharge, 128,000 ft³/s or 3,620 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 52,000 ft³/s (1,470 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 20	0300	52,800 1,490	12.64 3.853	Feb. 23	0400	53,600 1,520	12.76 3.889
Feb. 19	1300	*60,100 1,700	*13.73 4.185				

Minimum discharge, 2,060 ft³/s (58.3 m³/s) Sept. 10, gage height, 1.91 ft (0.582 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18600	6320	9240	7400	15000	28600	17600	15000	6520	14900	5400	4630
2	16300	5790	10000	6000	13000	28100	24600	14200	7060	14100	7350	3500
3	15900	5430	10400	5800	12000	35300	25100	15100	7990	12000	5100	3320
4	13500	5300	9860	5600	12000	35600	20000	15300	7230	8910	4010	3390
5	10300	5430	8920	4800	11000	38300	15700	15400	5730	7910	3180	3090
6	8640	5300	8330	4500	10000	37800	13300	13000	4830	6760	2600	2790
7	7550	4920	8640	4000	9400	35100	11500	10900	6060	5660	2960	2660
8	6720	4520	8990	4600	8600	29800	10200	9930	8850	5100	8260	2440
9	5930	4340	8230	4100	8000	23400	9210	9280	9820	4870	11000	2200
10	5360	4180	8710	3900	7800	19600	8230	8300	7750	5080	11400	2110
11	4950	4370	10200	3800	8000	18000	7510	7370	6060	5140	9890	2510
12	4700	4580	9930	3700	8600	16300	7090	8710	5310	16400	8370	3180
13	4730	8990	8640	4010	8800	13800	6720	10600	5240	14300	6920	3360
14	4950	12500	7690	4200	9200	12900	6220	9790	5290	13200	8310	2920
15	5300	12200	7340	5800	8800	12400	5690	7890	4670	11200	8230	2400
16	6120	11300	7650	6000	9030	11400	5270	7030	4190	9170	10300	2150
17	6250	10200	7890	5600	28400	9820	11400	6820	6010	7790	10000	2750
18	21500	9530	7480	4600	46500	8540	22400	6750	7350	7500	7990	4570
19	43200	9030	6520	4000	55300	8090	15000	6960	6980	6780	6040	6010
20	50700	8680	4920	4200	55900	9350	11700	12800	6030	5610	4810	5140
21	41800	8610	3300	3800	47000	11600	10200	21100	6340	4620	4060	4060
22	31400	11800	3400	3600	44600	17100	8750	22200	7330	4120	3530	3460
23	23100	14100	3600	3400	51300	18900	7510	18400	7800	3840	3120	2930
24	17300	12300	5400	3300	43000	16400	6890	15300	7110	3610	2700	2690
25	14200	10000	4600	3100	36200	13500	6790	12600	7790	3220	2380	2500
26	11900	9210	4300	3930	31400	12200	11800	10800	7920	2840	2410	2340
27	10200	8960	8640	18300	29700	11300	20400	10000	7050	2620	3180	3120
28	9170	10300	10400	27900	32800	12700	20100	9600	6100	2420	5100	6090
29	8260	10700	9570	29400	31000	14300	18200	9030	5700	2410	5350	6540
30	7550	9930	7920	23700	---	13400	17600	7650	7030	5770	5150	5480
31	6960	---	7580	17800	---	11200	---	6890	---	5390	5990	---
TOTAL	443040	248820	238290	234840	692330	584800	382680	354700	199140	223240	185090	104330
MEAN	14290	8294	7687	7575	23870	18860	12760	11440	6638	7201	5971	3478
MAX	50700	14100	10400	29400	55900	38300	25100	22200	9820	16400	11400	6540
MIN	4700	4180	3300	3100	7800	8090	5270	6750	4190	2410	2380	2110
CFSM	2.99	1.74	1.61	1.59	5.00	3.95	2.67	2.40	1.39	1.51	1.25	.73
IN.	3.45	1.94	1.86	1.83	5.40	4.56	2.98	2.76	1.55	1.74	1.44	.81

CAL YR 1975	TOTAL	3438713	MEAN	9421	MAX	96100	MIN	885	CFSM	1.97	IN	26.80
WTR YR 1976	TOTAL	3891300	MEAN	10630	MAX	55900	MIN	2110	CFSM	2.23	IN	30.33

SUSQUEHANNA RIVER BASIN

01515050 SUSQUEHANNA RIVER AT SAYRE, PA

LOCATION.--Lat 41°58'52", long 76°30'26", Bedford County, Hydrologic Unit 02050103, at bridge on East Lockhart Street in Sayre, 0.4 mi (2.0 km) downstream from gaging station (01515000) at Waverly, N.Y.

(NOTE: WATER-QUALITY DATA FOR 1976 FOR THIS STATION ARE NOT AVAILABLE AT TIME OF PUBLICATION OF THIS REPORT; THEY WILL BE PUBLISHED IN "WATER RESOURCES DATA FOR PENNSYLVANIA.")

SUSQUEHANNA RIVER BASIN

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01520500 TIOGA RIVER AT LINDLEY, NY

LOCATION.--Lat 42°01'44", long 77°07'57", Steuben County, Hydrologic Unit 02050104, on left bank just downstream from bridge on County Highway 120 at Lindley, and 6 mi (10 km) upstream from Canisteo River. Water-quality sampling site at discharge station.

DRAINAGE AREA.--771 mi² (1,997 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1930 to current year.

REVISED RECORDS.--WSP 871: 1938. WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 964.50 ft (293.980 m) above mean sea level. Prior to Feb. 9, 1937, nonrecording gage on bridge at same datum.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--46 years, 794 ft³/s (22.49 m³/s), 13.99 in/yr (355 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 128,000 ft³/s (3,620 m³/s) June 23, 1972, gage height, 26.27 ft (8.007 m), from floodmark in gage house, from rating curve extended above 31,000 ft³/s (878 m³/s) on basis of velocity-area and slope-area studies at gage height 19.2 ft (5.85 m) and conveyance study and slope-area measurements at gage heights 22.87 ft (6.971 m) and 26.27 ft (8.007 m); minimum, 6.1 ft³/s (0.17 m³/s) Sept. 1, 1939; minimum gage height, 2.80 ft (0.853 m) Sept. 11, 12, 1930.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,200 ft³/s (289 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 17	1130	21,300 603	15.63 4.764	June 20	1330	*25,700 728	*16.54 5.041
Mar. 3	1100	14,700 416	13.57 4.136				

Minimum discharge, 74 ft³/s (2.10 m³/s) Sept. 9, 10, 15, 16, gage height, 3.05 ft (0.930 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1190	456	748	933	1200	1150	2060	472	841	715	500	102
2	1380	440	722	680	840	1110	1570	715	1030	557	394	102
3	1110	425	598	600	760	6890	1480	628	671	451	285	100
4	851	404	528	540	720	4770	1210	534	534	404	235	97
5	712	379	522	500	660	3660	1060	483	451	384	197	97
6	616	354	592	500	640	2550	933	435	404	331	178	92
7	545	335	684	580	620	1930	855	419	1540	298	604	85
8	489	359	489	580	600	1560	761	425	767	425	2290	79
9	472	389	562	540	620	1200	684	379	562	409	983	77
10	592	814	2070	500	640	1100	622	354	580	331	646	88
11	506	1490	1500	490	2100	1000	580	364	430	290	483	110
12	489	904	1120	490	2170	960	540	690	359	321	384	102
13	446	2110	1000	520	1620	900	494	483	298	290	326	90
14	404	1420	1800	680	2290	840	451	404	264	308	335	79
15	369	1140	2290	720	1380	780	425	379	1260	281	364	77
16	369	983	2480	680	3490	720	440	1480	801	259	562	88
17	389	855	1670	600	16200	660	419	3900	1480	251	379	116
18	4690	767	1380	580	8600	600	374	2870	787	231	294	219
19	2520	696	880	520	7030	754	345	2390	1950	193	247	208
20	2690	646	840	500	4780	1150	317	1900	18800	171	215	147
21	2100	628	780	520	3140	1020	303	1320	10400	168	193	122
22	1540	646	740	580	4420	1460	298	998	4960	231	175	110
23	1220	562	720	660	3210	961	326	828	2800	204	161	100
24	1030	500	680	760	2210	918	294	703	1860	189	147	95
25	904	472	715	900	2000	848	399	622	1650	171	134	90
26	841	462	1100	1550	1780	801	940	787	1180	144	147	88
27	728	557	2270	12300	1660	741	828	671	828	131	193	134
28	652	848	1290	4030	1450	1360	628	534	671	125	154	208
29	592	610	1070	2730	1230	890	557	456	821	168	144	164
30	551	545	911	1950	---	801	506	574	703	551	131	131
31	500	---	969	1390	---	748	---	1090	---	340	110	---
TOTAL	31487	21196	33720	39103	78060	44432	20699	28287	59682	9322	11590	3397
MEAN	1016	707	1088	1261	2692	1446	690	912	1989	301	374	113
MAX	4690	2110	2480	12300	16200	6890	2060	3900	18800	715	2290	219
MIN	369	335	489	490	600	600	294	354	264	125	110	77
CFSM	1.32	.92	1.41	1.64	3.49	1.88	.89	1.18	2.58	.39	.49	.15
IN.	1.52	1.02	1.63	1.89	3.77	2.16	1.00	1.36	2.88	.45	.56	.16

CAL YR 1975 TOTAL 407366 MEAN 1116 MAX 51300 MIN 60 CFSM 1.45 IN 19.66
WTR YR 1976 TOTAL 381375 MEAN 1042 MAX 18800 MIN 77 CFSM 1.35 IN 18.40

SUSQUEHANNA RIVER BASIN

01520500 TIOGA RIVER AT LINDLEY, NY--Continued

(NOTE: WATER-QUALITY DATA FOR 1976 FOR THIS STATION ARE NOT AVAILABLE
AT TIME OF PUBLICATION OF THIS REPORT; THEY WILL BE PUBLISHED
IN "WATER RESOURCES DATA FOR PENNSYLVANIA.")

01521000 ARKPORT RESERVOIR NEAR ARKPORT, NY

LOCATION.--Lat 42°23'45", long 77°43'00", Steuben County, Hydrologic Unit 02050104, on right bank 1,000 ft (305 m) upstream from Arkport Dam on Canisteo River, 1.3 mi (2.1 km) west of Arkport, and 2.3 mi (3.7 km) upstream from small tributary.

DRAINAGE AREA.--30.5 mi² (79.0 km²).

PERIOD OF RECORD.--January 1951 to current year.

REVISED RECORDS.--WSP 1552: 1951-57. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in 1940 for flood control; first used for flood regulation on Mar. 31, 1940. Usable capacity, 7,936 acre-ft (9.79 hm³) between elevations 1,218.0 ft (371.25 m), sill of conduit, and 1,304.0 ft (397.46 m), crest of spillway. No dead storage. The flood-control works consist of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,304.04 ft (397.471 m) June 23, 1972, contents, 7,944 acre-ft (9.79 hm³); minimum, 1,226.6 ft (373.87 m) part of each day Nov. 4-6, 12-15, 18-25, 1963, contents, 1 acre-ft (1,230 m³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,255.13 ft (382.564 m) Feb. 19, contents, 1,432 acre-ft (1.77 hm³); minimum, 1,227.42 ft (374.118 m) Oct. 12-16, 17, contents, 4 acre-ft (4,930 m³).

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1937)

1,226.00	0	1,235.00	264	1,270.00	2,908
1,227.00	1	1,240.00	462	1,280.00	4,142
1,228.00	8	1,245.00	719	1,290.00	5,552
1,229.00	51	1,250.00	1,040	1,300.00	7,192
1,230.00	122	1,260.00	1,861	1,310.00	9,161

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1227.44	1227.44	1228.63	1228.47	1228.07	1231.16	1229.35	1229.84	1228.77	1228.79	1229.40	1228.77
2	1227.45	1227.44	1228.00	1228.01	1227.89	1230.61	1230.04	1231.04	1228.77	1228.79	1228.80	1228.77
3	1227.44	1227.44	1227.83	1227.86	1228.01	1241.24	1229.29	1228.93	1228.77	1228.79	1228.79	1228.67
4	1227.44	1227.44	1227.68	1227.75	1227.93	1236.10	1228.68	1228.83	1228.77	1228.79	1228.79	1228.39
5	1227.44	1227.44	1227.63	1227.71	1227.72	1230.21	1228.60	1228.78	1228.77	1228.79	1228.79	1228.28
6	1227.43	1227.44	1228.15	1227.70	1227.67	1228.97	1228.58	1228.77	1228.77	1228.80	1228.80	1228.26
7	1227.43	1227.44	1228.12	1227.70	1227.67	1228.76	1228.58	1228.79	1228.87	1228.80	1232.02	1228.26
8	1227.43	1227.44	1227.60	1227.72	1227.66	1228.75	1228.57	1228.78	1228.77	1228.99	1230.67	1228.26
9	1227.43	1227.44	1227.53	1227.78	1227.66	1228.67	1228.56	1228.77	1228.77	1228.81	1228.81	1228.27
10	1227.43	1227.69	1227.87	1227.79	1227.66	1228.63	1228.53	1228.77	1228.77	1228.79	1228.80	1228.29
11	1227.43	1227.73	1227.70	1227.80	1231.15	1228.64	1228.56	1228.77	1228.77	1228.79	1228.79	1228.31
12	1227.43	1227.49	1227.62	1227.82	1230.18	1228.57	1228.60	1228.78	1228.77	1228.79	1228.79	1228.31
13	1227.42	1227.62	1227.67	1227.82	1230.52	1228.66	1228.70	1228.77	1228.77	1228.78	1228.79	1228.31
14	1227.42	1227.46	1230.51	1227.84	1230.70	1228.69	1228.73	1228.77	1228.77	1228.78	1228.79	1228.33
15	1227.42	1227.45	1234.84	1227.86	1229.11	1228.66	1228.74	1228.77	1228.77	1228.78	1228.79	1228.34
16	1227.43	1227.45	1230.46	1227.80	1234.19	1228.70	1228.74	1228.77	1228.77	1228.78	1228.78	1228.35
17	1227.43	1227.44	1228.69	1227.78	1249.94	1228.50	1228.74	1229.17	1228.77	1228.78	1228.78	1228.37
18	1235.82	1227.44	1228.36	1227.80	1248.65	1228.61	1228.74	1229.65	1228.77	1228.78	1228.78	1228.39
19	1228.12	1227.44	1228.08	1228.07	1252.49	1229.77	1228.74	1228.88	1228.77	1228.78	1228.78	1228.40
20	1228.15	1227.44	1228.05	1228.01	1238.02	1230.83	1228.74	1230.46	1228.77	1228.78	1228.78	1228.42
21	1227.95	1227.44	1228.09	1227.83	1230.61	1231.89	1228.74	1228.78	1228.77	1228.78	1228.78	1228.45
22	1227.69	1227.44	1228.12	1227.78	1241.68	1229.63	1228.75	1228.77	1228.77	1228.78	1228.78	1228.47
23	1227.53	1227.44	1228.16	1227.96	1232.29	1228.76	1228.75	1228.78	1228.77	1228.78	1228.78	1228.48
24	1227.46	1227.44	1228.13	1227.96	1228.83	1228.75	1228.75	1228.77	1228.77	1228.78	1228.78	1228.46
25	1227.46	1227.44	1228.09	1227.83	1228.80	1228.75	1234.14	1228.77	1228.77	1228.78	1228.77	1228.43
26	1227.45	1227.44	1228.11	1228.75	1228.80	1228.62	1233.37	1228.77	1228.77	1228.78	1228.77	1228.41
27	1227.44	1227.44	1228.18	1232.93	1228.80	1228.59	1229.48	1228.77	1228.77	1228.78	1228.77	1228.42
28	1227.44	1227.44	1228.21	1230.40	1228.85	1228.79	1229.41	1228.77	1228.77	1228.78	1228.77	1228.44
29	1227.44	1227.44	1228.22	1229.06	1228.78	1228.77	1228.92	1228.77	1228.77	1229.69	1228.77	1228.46
30	1227.45	1227.53	1228.24	1228.26	---	1228.77	1228.78	1228.77	1228.77	1228.94	1228.77	1228.48
31	1227.45	---	1229.08	1228.15	---	1228.57	---	1228.77	---	1228.80	1228.77	---
MEAN	1227.78	1227.47	1228.44	1228.19	1232.08	1229.76	1229.16	1228.99	1228.77	1228.83	1228.97	1228.41
MAX	1235.82	1227.73	1234.84	1232.93	1252.49	1241.24	1234.14	1231.04	1228.87	1229.69	1232.02	1228.77
MIN	1227.42	1227.44	1227.53	1227.70	1227.66	1228.50	1228.53	1228.77	1228.77	1228.78	1228.77	1228.26
†	4.1	5.8	41.1	24.3	42.8	31.6	41.5	41.1	41.1	42.0	41.1	29.1
‡	0	0	+0.6	-0.3	+0.3	-0.2	+0.2	0	0	0	0	-0.2

CAL YR 1975 MEAN 1228.38 MAX 1250.64 MIN 1227.35 ‡ +0.1

WTR YR 1976 MEAN 1228.89 MAX 1252.49 MIN 1227.42 ‡ 0

† Contents, in acre-feet, at end of month.

‡ Change in contents, equivalent in cubic feet per second.

SUSQUEHANNA RIVER BASIN

01521500 CANISTEO RIVER AT ARKPORT, NY

LOCATION.--Lat 42°23'45", long 77°42'42", Steuben County, Hydrologic Unit 02050104, on left bank 0.2 mi (0.3 km) downstream from Arkport Dam, and 0.9 mi (1.4 km) west of Arkport.

DRAINAGE AREA.--30.6 mi² (79.3 km²).

PERIOD OF RECORD.--January 1937 to current year.

REVISED RECORDS.--WSP 1552: 1952-57. WRD NY 1969: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,202.85 ft (366.629 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Since November 1939, flows above 500 ft³/s (14.2 m³/s) controlled by detention in Arkport Reservoir (see station 01521000).

AVERAGE DISCHARGE.--39 years, 34.8 ft³/s (0.99 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s (56.6 m³/s) Mar. 5, 1938, Feb. 20, 1939; maximum gage height, 5.63 ft (1.716 m) Feb. 19, 1939 (ice jam); practically no flow July 30, 1938, Sept. 30, 1939 (result of construction operations).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1935, reached a discharge of 4,820 ft³/s (137 m³/s), on basis of slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 811 ft³/s (23.0 m³/s) Feb. 19, gage height, 3.19 ft (0.972 m); minimum, 2.2 ft³/s (0.06 m³/s) Aug. 26, Sept. 7, 8, 9, 10, gage height, 0.67 ft (0.204 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	9.6	113	35	40	172	61	70	29	26	67	3.7
2	23	9.6	39	30	50	156	72	151	21	13	20	4.7
3	19	10	29	22	60	599	59	61	15	10	14	3.4
4	15	12	22	18	50	487	42	50	12	8.3	9.3	3.1
5	12	12	24	17	38	130	32	37	9.9	7.3	7.3	3.1
6	11	10	123	17	26	74	28	28	9.3	6.4	25	2.8
7	9.6	9.6	67	16	23	52	25	36	29	7.8	213	2.5
8	8.5	9.6	32	16	20	45	22	33	16	27	158	2.5
9	10	11	33	16	18	42	20	25	10	25	37	2.5
10	14	45	52	16	19	41	19	22	8.3	10	21	3.4
11	11	41	44	18	191	46	18	21	7.3	17	14	3.4
12	10	29	39	16	93	32	17	32	6.4	12	10	3.4
13	9.0	39	42	13	126	44	17	22	6.0	20	10	3.1
14	11	28	241	18	104	37	15	19	5.5	19	12	2.8
15	11	24	623	20	80	33	15	18	5.5	12	10	2.8
16	33	27	165	25	415	27	16	17	5.5	9.9	9.9	2.8
17	29	23	67	34	730	34	14	51	8.3	7.8	7.3	5.1
18	577	19	44	31	746	39	14	62	6.4	6.4	6.0	7.3
19	86	17	28	28	773	85	12	47	6.0	5.1	5.5	5.1
20	104	15	25	25	493	117	12	92	14	4.7	4.7	4.4
21	59	16	23	26	144	149	11	38	13	9.9	4.4	6.4
22	39	18	22	28	602	87	23	26	12	8.8	4.0	5.5
23	29	16	21	30	246	47	21	22	7.8	6.0	3.7	4.7
24	23	13	20	32	73	39	17	19	6.8	5.1	3.4	4.0
25	20	13	18	33	101	36	331	20	12	4.4	3.4	3.7
26	17	12	17	135	120	32	314	36	9.3	4.0	5.5	4.0
27	15	16	20	375	129	42	113	30	6.8	3.7	6.4	12
28	13	21	25	104	74	64	107	19	6.0	3.7	4.4	11
29	12	17	18	60	59	36	67	15	7.8	55	3.7	6.8
30	11	34	20	35	---	31	40	14	15	44	3.4	5.5
31	10	---	25	66	---	28	---	20	---	17	3.1	---
TOTAL	1269.1	576.4	2081	1355	5643	2883	1574	1153	326.9	416.3	706.4	135.5
MEAN	40.9	19.2	67.1	43.7	195	93.0	52.5	37.2	10.9	13.4	22.8	4.52
MAX	577	45	623	375	773	599	331	151	29	55	213	12
MIN	8.5	9.6	17	13	18	27	11	14	5.5	3.7	3.1	2.5
CAL YR 1975	TOTAL	18110.8	MEAN	49.6	MAX	811	MIN	1.8				
WTR YR 1976	TOTAL	18119.6	MEAN	49.5	MAX	773	MIN	2.5				

SUSQUEHANNA RIVER BASIN

267

01523000 ALMOND LAKE NEAR ALMOND, NY

LOCATION.--Lat 42°20'50", long 77°42'20", Steuben County, Hydrologic Unit 02050104, at Almond Dam on Canacadea Creek, 2 mi (3 km) northeast of Almond, and 3 mi (5 km) upstream from mouth.

DRAINAGE AREA.--55.8 mi² (145 km²).

PERIOD OF RECORD.--July 1949 to September 1952 (monthly elevations and contents), October 1952 to current year. Prior to October 1970, published as "Almond Reservoir near Almond."

REVISED RECORDS.--WRD N.Y. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Lake is formed by earthfill dam with concrete spillway completed by Corps of Engineers in June 1949 for flood control; first used for flood regulation on Mar. 28, 1950. Usable capacity, 14,800 acre-ft (18.2 hm³) between elevations 1,229.0 ft or 374.60 m (sill of gates) and 1,300.0 ft or 396.24 m (crest of spillway). No dead storage. Figures given herein represent usable contents. Discharge is controlled by the operation of three gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,298.58 ft (395.807 m) June 23, 1972, contents, 14,100 acre-ft (17.4 hm³); no contents for many days each year 1949-65.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,280.33 ft (390.245 m) Feb. 19, contents, 6,679 acre-ft (8.24 hm³); minimum, 1,246.79 ft (380.022 m) Jan. 31, contents, 327 acre-ft (403,200 m³).

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1938)

1,240.00	80	1,260.00	1,750
1,245.00	230	1,270.00	3,750
1,250.00	570	1,280.00	6,570
1,255.00	1,080	1,290.00	10,300

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250.24	1250.17	1251.92	1250.31	1250.06	1255.35	1251.75	1255.07	1255.81	1255.51	1255.41	1254.75
2	1250.35	1250.02	1251.81	1249.91	1249.80	1254.57	1251.04	1254.91	1255.47	1255.55	1255.09	1254.76
3	1250.42	1249.97	1250.81	1250.41	1248.70	1259.17	1250.52	1254.67	1255.39	1255.12	1254.99	1254.73
4	1250.16	1250.25	1250.19	1250.50	1249.64	1258.62	1250.07	1254.80	1255.29	1255.09	1255.04	1254.67
5	1249.86	1250.56	1250.29	1250.43	1250.36	1255.60	1250.98	1254.75	1255.30	1255.04	1255.04	1254.63
6	1249.86	1250.74	1251.18	1250.28	1250.50	1251.59	1251.03	1254.81	1255.30	1254.92	1255.19	1254.57
7	1249.79	1250.79	1250.02	1250.25	1250.45	1250.82	1250.79	1254.94	1255.55	1254.96	1255.89	1254.50
8	1250.03	1250.62	1250.01	1250.23	1250.35	1250.63	1250.50	1255.25	1255.54	1255.51	1255.15	1254.42
9	1250.34	1250.41	1250.44	1250.02	1250.25	1250.62	1250.79	1255.22	1255.28	1256.29	1255.06	1254.34
10	1250.77	1250.62	1249.82	1249.98	1250.06	1250.87	1251.02	1255.08	1255.24	1256.24	1255.09	1254.33
11	1250.82	1250.61	1249.71	1249.96	1251.56	1251.38	1251.16	1255.04	1255.18	1256.26	1254.96	1254.42
12	1250.49	1250.04	1250.24	1249.99	1250.86	1251.20	1251.28	1255.67	1255.10	1255.85	1254.99	1254.51
13	1250.16	1250.09	1250.36	1250.01	1250.60	1250.76	1251.35	1255.81	1254.99	1255.28	1254.98	1254.55
14	1250.29	1250.02	1252.15	1250.44	1250.42	1250.77	1251.42	1255.76	1254.85	1254.97	1255.07	1254.57
15	1250.44	1250.08	1256.11	1250.93	1249.61	1250.52	1251.34	1255.68	1254.76	1255.03	1255.12	1254.60
16	1251.16	1250.17	1251.90	1250.74	1252.43	1250.30	1250.65	1255.58	1254.69	1255.09	1255.13	1254.64
17	1251.00	1250.17	1251.03	1250.45	1253.85	1249.90	1250.04	1255.83	1254.80	1255.04	1255.07	1254.75
18	1259.89	1250.05	1250.41	1250.42	1272.31	1249.36	1250.05	1255.93	1254.83	1254.96	1254.94	1254.99
19	1258.62	1250.03	1250.09	1250.37	1279.79	1249.84	1250.04	1255.60	1254.74	1254.92	1254.83	1254.91
20	1251.47	1249.97	1250.65	1250.41	1278.57	1251.39	1249.99	1255.77	1255.10	1254.91	1254.83	1254.68
21	1250.71	1249.93	1250.66	1250.49	1274.81	1255.09	1249.90	1255.09	1254.86	1255.01	1254.82	1254.27
22	1250.22	1250.24	1250.43	1250.53	1274.85	1251.62	1250.10	1255.11	1254.46	1255.20	1254.82	1253.78
23	1251.07	1250.45	1250.21	1250.38	1272.99	1250.32	1250.40	1255.08	1254.45	1255.24	1254.79	1253.17
24	1251.32	1250.54	1249.94	1250.30	1267.99	1250.69	1250.46	1255.02	1254.52	1255.26	1254.75	1252.52
25	1251.07	1250.62	1250.07	1250.22	1262.15	1250.84	1251.98	1255.10	1254.75	1255.26	1254.71	1251.85
26	1250.64	1250.66	1250.39	1250.70	1256.05	1250.85	1252.48	1255.26	1255.02	1255.23	1254.72	1251.58
27	1250.23	1250.69	1250.92	1250.30	1250.99	1250.77	1253.92	1255.64	1255.07	1255.19	1254.92	1251.45
28	1250.31	1250.68	1250.48	1252.86	1249.98	1251.84	1255.39	1255.73	1255.08	1255.17	1254.93	1250.80
29	1250.37	1250.46	1249.90	1250.88	1250.05	1251.99	1255.38	1255.70	1255.16	1255.64	1254.91	1250.49
30	1250.38	1250.47	1249.81	1249.24	---	1251.87	1254.99	1255.65	1255.29	1255.44	1254.86	1250.18
31	1250.30	---	1250.51	1248.00	---	1251.64	---	1255.71	---	1255.11	1254.81	---
MEAN	1251.06	1250.34	1250.72	1250.55	1257.24	1251.96	1251.36	1255.33	1255.06	1255.30	1255.00	1253.75
MAX	1259.89	1250.79	1256.11	1257.30	1279.79	1259.17	1255.39	1255.93	1255.81	1256.29	1255.89	1254.99
MIN	1249.79	1249.93	1249.71	1248.00	1248.70	1249.36	1249.90	1254.67	1254.45	1254.91	1254.71	1250.18
†	592	641	618	508	844	713	1,073	1,183	1,126	1,104	1,055	583
‡	+0.1	+0.8	-0.4	-1.8	+5.8	-2.1	+6.1	+1.8	-1.0	-0.4	-0.8	-7.9

CAL YR 1975 MEAN 1252.92 MAX 1274.73 MIN 1249.24 ‡ 0
WTR YR 1976 MEAN 1253.12 MAX 1279.79 MIN 1248.00 ‡ 0

† Contents, in acre-feet, at end of month.

‡ Change in contents, equivalent in cubic feet per second.

SUSQUEHANNA RIVER BASIN

01523500 CANACADEA CREEK NEAR HORNNELL, NY

LOCATION.--Lat 42°20'05", long 77°41'00", Steuben County, Hydrologic Unit 02050104, on right bank 35 ft (11 m) downstream from bridge on State Highway 21, 1.2 mi (1.9 km) west of Hornell, 1.5 mi (2.4 km) downstream from Almond Dam, and 2 mi (3 km) upstream from mouth.

DRAINAGE AREA.--57.9 mi² (150 km²).

PERIOD OF RECORD.--October 1940 to December 1942, October 1944 to current year.

REVISED RECORDS.--WRD NY 1969: Drainage area. WRD NY 1971: 1969(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,185.68 ft (361.395 m) above mean sea level. Oct. 23, 1940 to Dec. 31, 1942, at site 185 ft (56 m) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. Since October 1948, flood flows regulated by detention in Almond Lake (see station 01523000). Occasional regulation at low flows to clear debris from gates at Almond Lake. Monthly figures for 1952-66 water years adjusted for regulation.

AVERAGE DISCHARGE.--34 years (1940-42, 1944-76), 63.5 ft³/s (1.798 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,430 ft³/s (267 m³/s) May 17, 1945, gage height, 5.14 ft (1.567 m), from rating curve extended above 3,400 ft³/s (96.3 m³/s); maximum gage height, 6.65 ft (2.027 m) June 3, 1947; minimum discharge, 0.5 ft³/s (0.014 m³/s) May 29, 1965, gage height, 0.61 ft (0.186 m); minimum daily, 0.6 ft³/s (0.017 m³/s) May 30 to June 1, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1935, reached a stage of 16.61 ft (5.063 m), discharge, 21,000 ft³/s (595 m³/s), from floodmarks on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 810 ft³/s (22.9 m³/s) Dec. 15, July 29, gage height, 2.77 ft (0.844 m); minimum, 10 ft³/s (0.28 m³/s) part of each day Sept. 10-17, gage height, 0.92 ft (0.280 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	34	82	50	56	270	123	155	55	17	128	15
2	50	34	101	40	56	404	131	259	46	34	55	15
3	49	27	86	40	35	621	104	110	34	39	28	15
4	48	23	52	42	38	643	57	88	27	26	21	15
5	37	23	45	42	42	600	39	65	22	26	21	15
6	32	23	153	42	51	400	60	56	22	22	21	15
7	27	30	132	38	51	230	58	57	34	13	371	15
8	16	33	48	37	50	130	48	57	43	16	216	15
9	24	33	75	36	48	110	31	56	31	25	68	15
10	29	70	116	35	47	100	35	56	24	33	51	13
11	36	107	75	34	315	98	35	45	24	51	36	11
12	41	61	64	32	182	94	35	42	24	70	27	11
13	31	61	69	32	188	86	34	46	24	70	27	11
14	23	51	215	36	221	79	32	46	24	42	27	11
15	25	46	601	52	134	74	56	46	24	25	27	11
16	51	46	445	56	586	66	70	47	24	25	26	11
17	62	46	146	43	299	66	39	61	24	25	26	14
18	406	40	104	31	46	65	32	109	24	22	26	24
19	595	37	56	33	347	96	32	104	24	17	20	24
20	370	37	52	32	665	182	32	158	61	15	16	37
21	142	34	56	32	698	181	32	89	70	15	16	46
22	71	29	54	31	709	181	32	51	43	15	16	46
23	46	29	52	33	687	101	32	51	23	15	16	45
24	57	29	42	37	689	65	32	41	17	15	16	45
25	61	29	39	43	661	65	399	35	17	15	16	36
26	61	29	39	60	584	65	253	35	17	15	16	23
27	44	38	45	496	338	66	125	35	17	15	16	51
28	34	45	54	444	145	66	126	35	17	15	16	43
29	34	45	49	110	80	66	140	35	17	205	16	31
30	34	45	45	96	---	66	88	35	17	194	15	23
31	34	---	70	45	---	66	---	36	---	52	15	---
TOTAL	2620	1214	3262	2210	8048	5402	2342	2141	870	1184	1412	702
MEAN	84.5	40.5	105	71.3	278	174	78.1	69.1	29.0	38.2	45.5	23.4
MAX	595	107	601	496	709	643	399	259	70	205	371	51
MIN	16	23	39	31	35	65	31	35	17	13	15	11
CAL YR 1975	TOTAL	31130	MEAN 85.3	MAX 802	MIN 13							
WTR YR 1976	TOTAL	31407	MEAN 85.8	MAX 709	MIN 11							

SUSQUEHANNA RIVER BASIN

269

01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNNELL, NY

LOCATION.--Lat 42°18'50", long 77°39'05", Steuben County, Hydrologic Unit 02050104, on right bank 235 ft (72 m) upstream from Erie Railroad bridge in Hornell, 0.3 mi (0.5 km) upstream from Crosby Creek, and 1.5 mi (2.4 km) downstream from Canacadea Creek.

DRAINAGE AREA.--158 mi² (409 km²).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,131.32 ft (344.826 m) above mean sea level.

REMARKS.--Records fair. Diversion from Carrington Creek, a tributary upstream from station, by city of Hornell for municipal supply (1976 average, 3.7 ft³/s or 0.10 m³/s); sewage enters river downstream from gage. Since Nov. 1939, flood flows regulated by Arkport Reservoir (see station 01521000), and, since October 1948, by Almond Lake (see station 01523000); normal regulation occasionally sufficient to materially affect figures of monthly runoff.

COOPERATION.--Records of diversion from Carrington Creek furnished by city of Hornell.

AVERAGE DISCHARGE.--34 years, 157 ft³/s (4.446 m³/s), 13.49 in/yr (343 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,560 ft³/s (271 m³/s) June 23, 1972, gage height, 13.45 ft (4.100 m), from floodmark, from rating curve extended above 7,600 ft³/s (215 m³/s) on basis of critical-depth measurement of peak flow; minimum, 7.4 ft³/s (0.21 m³/s) Sept. 13, 14, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,370 ft³/s (95.4 m³/s) Feb. 17, gage height, 7.98 ft (2.432 m); minimum, 24 ft³/s (0.68 m³/s) Sept. 14, gage height, 0.57 ft (0.174 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	90	240	140	130	647	256	239	157	79	209	39
2	151	89	189	120	140	819	266	536	125	77	118	43
3	138	83	163	110	130	1810	233	246	98	82	75	38
4	125	80	119	98	120	1660	172	204	84	64	59	36
5	108	78	111	94	110	1130	136	167	74	62	53	36
6	96	74	300	92	100	625	148	144	71	60	76	35
7	88	77	269	84	94	348	141	153	170	51	593	35
8	73	81	127	82	90	296	129	150	117	70	570	34
9	88	81	153	78	86	240	105	136	88	94	175	34
10	100	146	241	80	82	245	106	130	74	68	124	35
11	96	215	190	74	778	245	105	123	69	87	93	31
12	97	137	166	70	443	223	100	135	65	108	74	30
13	88	161	170	68	486	234	100	121	62	128	73	29
14	79	135	550	76	528	210	93	114	61	105	80	26
15	80	120	1380	120	328	198	105	112	60	70	73	25
16	130	123	903	130	1470	183	126	115	56	64	71	31
17	131	117	324	110	2260	171	99	178	62	60	64	40
18	1340	105	230	94	1550	165	87	243	55	51	61	52
19	873	98	150	90	1790	248	84	227	57	48	54	48
20	695	95	150	84	1570	404	82	417	123	46	48	55
21	321	93	140	84	1160	397	81	219	123	56	47	68
22	216	91	140	86	1830	360	90	149	97	55	45	64
23	160	86	130	86	1310	232	91	136	64	47	45	62
24	153	83	120	88	1040	187	87	120	53	45	43	60
25	149	81	110	91	1020	178	759	111	61	42	42	52
26	140	79	110	166	955	171	739	129	55	41	45	40
27	120	96	130	1170	715	171	353	123	48	41	52	74
28	104	110	150	788	367	212	358	104	48	41	43	71
29	100	104	120	317	270	172	316	95	57	181	40	55
30	96	117	110	200	---	162	214	98	70	267	39	47
31	92	---	180	160	---	157	---	114	---	113	37	---
TOTAL	6376	3125	7565	5130	20952	12500	5761	5288	2404	2403	3221	1325
MEAN	206	104	244	165	722	403	192	171	80.1	77.5	104	44.2
MAX	1340	215	1380	1170	2260	1810	759	536	170	267	593	74
MIN	73	74	110	68	82	157	81	95	48	41	37	25

CAL YR 1975 TOTAL 78781 MEAN 216 MIN 28
WTR YR 1976 TOTAL 76050 MEAN 208 MAX 2080 MIN 25

SUSQUEHANNA RIVER BASIN

01526500 TIOGA RIVER NEAR ERWINS, NY

LOCATION.--Lat 42°07'15", long 77°07'45", Steuben County, Hydrologic Unit 02050104, on right bank 20 ft (6 m) downstream from bridge on Mulholland Road, 1.1 mi (1.8 km) northeast of Erwins, and 1.1 mi (1.8 km) downstream from Canisteo River.

DRAINAGE AREA.--1,377 mi² (3,566 km²).

PERIOD OF RECORD.--July 1918 to current year.

REVISED RECORDS.--WSP 891: 1935-38. WSP 1672: 1919(M), 1927(M), 1929(M). WRD N.Y. 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 931.24 ft (283.842 m) above mean sea level. Prior to June 21, 1931, nonrecording gage on highway bridge at same datum.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, which are fair. High flows slightly regulated by upstream reservoirs.

AVERAGE DISCHARGE.--58 years, 1,365 ft³/s (38.66 m³/s), 13.46 in/yr (342 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 190,000 ft³/s (5,380 m³/s) June 23, 1972, from rating curve extended above 44,000 ft³/s (1,250 m³/s) on basis of slope-area measurements at gage heights 18.82 ft (5.736 m) and 23.54 ft (7.175 m) and on computation of peak flow at Lindley and Canisteo River at Erwins, 7.2 mi (11.6 km) and 2.0 mi (3.2 km) upstream, respectively, adjusted for flow from intervening area, gage height, 26.74 ft (8.150 m), from floodmarks; minimum, 18 ft³/s (0.51 m³/s) Sept. 2, 3, 1939; minimum gage height, 0.40 ft (0.122 m) Sept. 8, 9, 1954, July 23, Aug. 10, 11, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 17,000 ft³/s (481 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	0900	ice jam	*16.03 4.886	Feb. 17	1400	*35,700 1010	15.05 4.587
Jan. 27	1200	22,500 637	11.85 3.612	Mar. 3	1300	24,300 688	12.31 3.752
				June 20	1400	29,800 844	13.66 4.164

Minimum daily discharge, 98 ft³/s (2.78 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2210	712	1190	1710	1800	3210	3070	1020	1510	1110	704	140
2	2150	674	1370	1300	1400	3270	2770	1760	1710	905	766	140
3	1870	659	1050	1200	1200	14200	2540	1440	1140	727	498	130
4	1440	629	914	1100	1100	9440	2090	1130	868	674	383	130
5	1210	586	855	1100	1100	7680	1780	985	720	615	316	130
6	1040	552	939	980	1100	5200	1550	856	629	538	287	120
7	922	525	1410	980	1000	3740	1420	798	2520	478	712	110
8	838	552	939	1100	960	3040	1260	839	1590	587	4270	100
9	798	622	897	1000	940	2400	1120	741	1050	644	1740	98
10	1000	1010	2740	900	900	2200	994	676	985	573	1020	120
11	922	2790	2430	900	2800	2100	937	674	721	478	737	150
12	847	1530	1840	900	4710	1800	886	1150	592	559	560	140
13	790	3030	1600	900	3290	1700	797	881	495	552	458	120
14	727	2210	2940	1100	4690	1600	734	717	442	637	447	110
15	674	1760	5220	1300	2980	1400	682	660	1400	545	476	100
16	681	1500	5850	1200	7200	1300	709	2190	1170	453	662	170
17	782	1310	3480	1100	29000	1200	716	5980	1830	423	495	250
18	7850	1170	2730	940	17500	1100	625	4450	1130	395	380	390
19	5200	1050	1750	720	14300	1390	566	4220	2300	335	324	317
20	4890	965	1500	720	9640	2370	523	3980	23700	292	286	220
21	3790	931	1400	740	6410	2050	493	2770	14000	278	254	190
22	2640	965	1300	780	9580	2920	486	1940	6770	330	232	180
23	2010	855	1200	860	7180	1930	533	1560	3820	340	213	160
24	1660	766	1190	1000	4750	1690	497	1290	2590	296	200	150
25	1460	712	1110	1200	4430	1540	718	1130	2280	282	180	140
26	1330	696	1310	2200	4150	1450	3310	1270	1830	278	200	140
27	1150	766	3140	15000	4020	1320	2350	1220	1280	278	250	220
28	1000	1220	2080	6000	3150	2160	1700	957	1220	237	210	318
29	905	939	2090	3800	2560	1580	1530	794	1270	237	190	299
30	838	847	1730	2900	---	1380	1210	809	1100	1260	170	229
31	774	---	1600	2100	---	1280	---	1770	---	735	150	---
TOTAL	54398	32533	59794	57730	153840	90040	38596	50657	82662	16071	17770	5211
MEAN	1755	1084	1929	1862	5305	2905	1287	1634	2755	518	573	174
MAX	7850	3030	5850	15000	29000	14200	3310	5980	23700	1260	4270	390
MIN	674	525	855	720	900	1100	486	660	442	237	150	98
CFSM	1.27	.79	1.40	1.35	3.85	2.11	.93	1.19	2.00	.38	.42	.13
IN.	1.47	.88	1.62	1.56	4.16	2.43	1.04	1.37	2.23	.43	.48	.14

CAL YR 1975 TOTAL 695727 MEAN 1906 MAX 64600 MIN 126 CFSM 1.38 IN 18.80
WTR YR 1976 TOTAL 659302 MEAN 1801 MAX 29000 MIN 98 CFSM 1.31 IN 17.81

Note.--No gage-height record Aug. 24-Sept. 27.

SUSQUEHANNA RIVER BASIN

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01527000 COHOCTON RIVER AT COHOCTON, NY

LOCATION.--Lat 42°30'00", long 77°30'02", Steuben County, Hydrologic Unit 02050105, on left bank 450 ft (137 m) downstream from bridge on U.S. Highway 15 at Cohocton, 800 ft (244 m) downstream from small tributary, and 1.4 mi (2.3 km) upstream from Reynolds Creek.

DRAINAGE AREA.--52.2 mi² (135 km²).

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

REVISED RECORDS.--WRD NY 1969: Drainage area. WRD NY 1972: 1970, 1971.

GAGE.--Water-stage recorder. Datum of gage is 1;275.49 ft (388.769 m) above mean sea level.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--26 years, 56.0 ft³/s (1.59 m³/s), 14.57 in/yr (370 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/s (64.0 m³/s) June 23, 1972, gage height, 9.82 ft (2.993 m); minimum, 0.1 ft³/s (0.003 m³/s) Oct. 6, 1954, gage height, 1.30 ft (0.396 m), result of regulation from unknown cause.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 18	2400	*686 19.4	*6.12 1.865	Mar. 5	1100	585 16.6	5.78 1.762

Minimum discharge, 13 ft³/s (0.368 m³/s) Sept. 26, gage height, 1.64 ft (0.500 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	50	44	58	86	238	89	136	99	52	67	21
2	106	46	44	52	80	243	96	131	115	49	86	23
3	90	45	42	48	74	374	96	123	114	44	72	21
4	76	46	37	45	64	518	92	111	100	40	53	20
5	63	43	37	42	64	576	86	97	86	35	40	21
6	54	40	46	41	60	504	81	87	76	31	36	20
7	47	36	49	39	56	390	77	82	110	28	44	18
8	41	34	45	42	52	299	72	78	117	28	50	16
9	42	32	49	41	50	237	67	72	105	28	51	15
10	41	36	63	38	54	196	62	64	89	23	45	19
11	38	43	67	37	78	172	60	60	78	27	37	23
12	39	41	66	35	90	149	56	61	68	34	35	21
13	38	46	65	39	109	133	54	59	60	53	35	18
14	36	47	82	43	121	122	51	53	55	66	36	16
15	35	43	129	48	125	113	49	50	51	56	45	14
16	40	41	164	44	199	105	51	50	47	46	93	14
17	41	40	177	40	449	96	51	62	50	39	98	15
18	129	38	174	37	544	87	45	73	43	33	80	17
19	157	37	155	35	668	93	40	89	35	28	64	23
20	161	36	136	35	620	104	37	155	58	25	51	21
21	150	37	110	35	493	118	35	190	57	29	44	22
22	136	38	100	37	455	120	37	188	51	28	39	21
23	119	36	92	38	419	118	39	162	44	24	35	18
24	104	33	80	41	376	113	36	135	38	21	32	16
25	92	32	74	41	315	109	65	117	38	19	29	14
26	82	31	70	51	271	103	102	118	38	16	27	14
27	77	34	74	100	253	98	127	116	51	15	29	24
28	76	38	68	120	234	95	136	103	61	15	29	27
29	71	36	64	125	219	92	145	90	59	19	27	20
30	64	36	62	110	---	85	143	83	55	33	26	16
31	56	---	64	100	---	79	---	85	---	46	23	---
TOTAL	2429	1171	2529	1637	6678	5879	2177	3080	2048	1030	1458	568
MEAN	78.4	39.0	81.6	52.8	230	190	72.6	99.4	68.3	33.2	47.0	18.9
MAX	161	50	177	125	668	576	145	190	117	66	98	27
MIN	35	31	37	35	50	79	35	50	35	15	23	14
CFSM	1.50	.75	1.56	1.01	4.41	3.64	1.39	1.90	1.31	.64	.90	.36
IN.	1.73	.83	1.80	1.17	4.76	4.19	1.55	2.19	1.46	.73	1.04	.40

CAL YR 1975	TOTAL	27101.7	MEAN 74.3	MAX 423	MIN	8.3	CFSM 1.42	IN 19.31
WTR YR 1976	TOTAL	30684.0	MEAN 83.8	MAX 668	MIN	14	CFSM 1.61	IN 21.87

SUSQUEHANNA RIVER BASIN

01528000 FIVEMILE CREEK NEAR KANONA, NY

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, Hydrologic Unit 02050105, on left bank just downstream from town of Wheeler highway bridge, 1.3 mi (2.1 km) upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 mi² (173 km²).

PERIOD OF RECORD.--February 1937 to current year.

REVISED RECORDS.--WRD N.Y. 1969: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,170.30 ft (356.707 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1973, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--39 years, 74.3 ft³/s (2.104 m³/s), 15.10 in/yr (384 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,110 ft³/s (145 m³/s) June 23, 1972, gage height, 6.95 ft (2.118 m) present datum; maximum gage height, 7.10 ft (2.164 m) present datum, Mar. 31, 1940 (ice jam); minimum discharge, 0.04 ft³/s (0.001 m³/s) Sept. 27, 29, 1941; minimum gage height, 0.72 ft (0.219 m) present datum, Sept. 4, 1973 (result of channel improvement).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 880 ft³/s (24.9 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	2230	ice jam	5.41 1.649	Feb. 22	1730	964 27.3	4.32 1.317
Feb. 17	0400	ice jam	*†6.90 2.103	Mar. 4	1300	1,230 34.8	4.69 1.430
Feb. 17	1800	*†2,200 62.3	†5.63 1.716				

† About.

‡ Backwater from ice.

Minimum discharge, 5.9 ft³/s (0.167 m³/s) Sept. 25, 26, gage height, 0.98 ft (0.299 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	44	77	82	92	285	166	93	337	69	92	10
2	102	42	70	80	84	264	145	109	334	47	56	11
3	90	42	60	66	74	773	108	90	139	39	34	8.6
4	75	43	52	58	68	1110	89	70	89	33	26	7.7
5	62	42	48	54	80	732	79	60	72	28	21	8.1
6	59	39	62	52	76	316	68	53	63	24	20	7.7
7	52	37	78	56	74	199	59	57	326	22	39	7.3
8	46	37	59	56	74	152	58	62	151	59	84	6.9
9	46	36	56	50	72	118	52	52	79	127	51	6.6
10	52	65	138	52	70	117	47	46	66	45	38	7.7
11	47	139	147	54	130	121	45	45	55	46	31	7.7
12	49	92	113	54	700	98	45	67	44	68	25	7.3
13	48	124	97	56	560	96	44	55	39	82	24	6.9
14	45	96	222	56	620	89	38	47	36	90	34	6.6
15	42	80	451	58	400	83	37	43	34	58	27	6.6
16	52	73	367	46	1000	78	43	58	32	43	26	6.9
17	55	68	181	40	1700	68	49	197	36	35	22	7.3
18	570	61	130	31	1800	62	43	243	31	30	19	7.7
19	493	55	80	30	1420	100	38	258	28	25	16	9.1
20	283	51	80	35	900	230	31	719	58	24	15	7.7
21	190	51	90	40	383	165	35	374	56	42	13	7.7
22	122	52	100	35	825	158	32	143	46	29	12	7.3
23	102	47	86	31	641	107	35	100	37	22	11	6.9
24	85	42	74	31	278	94	33	88	33	20	10	6.9
25	76	40	80	32	279	84	254	80	79	17	9.5	6.6
26	69	37	86	33	318	76	595	155	48	15	8.7	6.6
27	65	42	110	250	358	71	332	180	127	14	13	14
28	60	55	92	200	241	82	207	99	80	13	13	15
29	50	52	78	150	175	70	157	75	53	20	11	12
30	48	55	70	120	---	64	110	76	48	40	9.1	10
31	47	---	86	100	---	60	---	112	---	26	9.6	---
TOTAL	3301	1739	3520	2088	13492	6122	3074	3906	2656	1252	819.9	248.4
MEAN	106	58.0	114	67.4	465	197	102	126	88.5	40.4	26.4	8.28
MAX	570	139	451	250	1800	1110	595	719	337	127	92	15
MIN	42	36	48	30	68	60	31	43	28	13	8.7	6.6
CFSM	1.59	.87	1.71	1.01	6.96	2.95	1.53	1.89	1.32	.60	.40	.12
IN.	1.84	.97	1.96	1.16	7.51	3.41	1.71	2.18	1.48	.70	.46	.14

CAL YR 1975 TOTAL 40411.1 MEAN 111 MAX 2840 MIN 2.8 CFSM 1.66 IN 22.50
WTR YR 1976 TOTAL 42218.3 MEAN 115 MAX 1800 MIN 6.6 CFSM 1.72 IN 23.51

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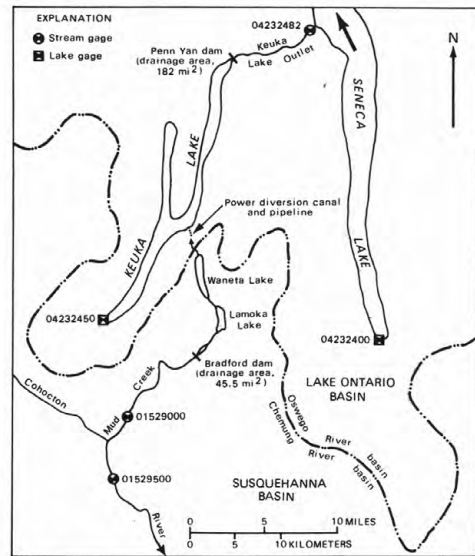


Figure 8.--Gaging stations and transbasin diversion, Cohocton River-Keuka Lake area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	60	24	42	55	69	42	48	34	60	0	0
2	55	60	10	42	60	30	42	48	34	60	0	0
3	66	60	23	42	60	24	42	48	42	60	30	0
4	66	60	42	42	60	69	42	48	55	60	69	0
5	66	42	42	42	60	69	42	48	55	60	69	0
6	63	42	42	42	60	69	42	48	55	60	45	0
7	63	48	42	42	60	69	42	48	60	60	0	0
8	63	48	42	42	60	66	42	48	66	0	0	0
9	60	48	42	42	60	60	42	48	66	0	33	0
10	55	48	42	42	60	60	42	48	68	0	69	0
11	0	48	42	42	60	60	42	48	68	0	69	0
12	0	48	42	37	60	60	42	48	68	0	69	0
13	0	48	42	12	60	60	42	48	68	0	55	0
14	32	48	42	20	60	60	18	31	68	0	48	0
15	55	48	42	12	60	60	0	0	68	0	48	0
16	55	48	42	20	60	60	0	0	58	0	41	37
17	55	27	48	0	60	60	0	0	58	0	41	68
18	33	0	48	0	60	60	0	33	34	0	22	66
19	0	24	48	20	60	60	0	69	0	0	0	66
20	33	36	48	35	60	60	0	69	0	0	0	55
21	55	31	48	36	68	60	0	69	37	0	0	48
22	55	48	42	36	68	60	0	69	66	0	0	42
23	55	48	42	36	69	60	0	69	66	0	0	42
24	60	48	42	36	69	60	0	66	45	0	0	42
25	60	48	42	36	69	60	0	66	66	0	0	42
26	60	48	42	36	69	60	8.8	66	45	0	0	42
27	60	48	42	36	69	60	25	66	0	0	0	37
28	60	48	42	37	69	60	48	50	39	0	0	34
29	60	24	42	42	69	50	48	50	45	0	0	34
30	60	0	42	55	---	21	48	50	45	0	0	34
31	60	---	42	55	---	36	---	50	---	0	0	---
TOTAL	1533	1282	1263	1059	1814	1772	741.8	1497	1479	420	708	689
MEAN	49.5	42.7	40.7	34.2	62.6	57.2	24.7	48.3	49.3	13.5	22.8	23.0
MAX	68	60	48	55	69	69	48	69	68	60	69	68
MIN	0	0	10	0	55	21	0	0	0	0	0	0
CAL YR 1975	TOTAL	10570.00	MEAN	29.0	MAX	71	MIN	0				
WTR YR 1976	TOTAL	14257.80	MEAN	39.0	MAX	69	MIN	0				

SUSQUEHANNA RIVER BASIN

01529000 MUD CREEK NEAR SAVONA, NY

LOCATION.--Lat 42°18'30", long 77°11'50", Steuben County, Hydrologic Unit 02050105, on left bank just upstream from small tributary entering from east, 2.4 mi (3.9 km) upstream from Savona, and 3.3 mi (5.3 km) upstream from mouth.

DRAINAGE AREA.--76.6 mi² (198 km²).

PERIOD OF RECORD.--July 1918 to December 1919 (published as "at Savona"), March 1937 to current year.

REVISED RECORDS.--WRD N.Y. 1969: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,049.63 ft (319.927 m) above mean sea level (levels by Corps of Engineers). Prior to December 1919, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Lake Lamoka-Waneta System. Diversion table for station 01528700 represents discharge from 45.5 mi² (118 km²) of drainage area from the Susquehanna River basin to the St. Lawrence River basin through the Keuka power diversion canal of New York State Electric and Gas Corp. Monthly records of diversion for January 1951 to September 1966 available in files of the Geological Survey.

COOPERATION.--Records of diversion furnished by New York State Electric and Gas Corp.

AVERAGE DISCHARGE.--39 years (1937-76), 41.3 ft³/s (1.17 m³/s) unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft³/s (173 m³/s) June 23, 1972, gage height, 8.66 ft (2.640 m), from rating curve extended above 1,350 ft³/s (38.2 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.04 ft³/s (0.001 m³/s) Sept. 21-23, 1941, gage height, 0.53 ft (0.162 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 718 ft³/s (20.3 m³/s) Feb. 17, gage height, 4.61 ft (1.405 m); minimum, 3.4 ft³/s (0.096 m³/s) Aug. 31, Sept. 9, 24, gage height, 0.73 ft (0.222 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	15	30	30	56	104	68	30	155	22	16	3.7
2	33	14	28	24	43	177	59	54	143	19	13	4.2
3	28	14	24	21	37	360	47	39	68	18	10	4.0
4	22	14	20	18	33	391	41	30	48	14	8.3	3.7
5	19	13	19	17	30	456	35	26	38	13	7.4	4.5
6	16	12	22	15	30	453	31	24	32	12	7.0	5.2
7	15	12	22	15	28	408	30	29	123	10	18	5.5
8	13	20	20	16	27	372	27	29	130	11	24	5.5
9	13	18	20	14	26	123	26	24	100	20	24	5.2
10	18	24	58	13	25	60	24	21	89	13	22	5.9
11	15	45	55	13	48	50	24	22	81	17	17	6.6
12	14	34	42	14	77	45	22	40	30	25	13	5.9
13	15	59	37	15	64	41	21	29	20	22	12	5.2
14	14	48	60	17	73	41	20	23	17	22	13	4.8
15	12	37	59	17	54	40	20	22	17	15	13	4.8
16	16	30	61	16	115	37	20	52	18	13	16	5.5
17	16	27	47	15	541	35	19	165	30	12	10	6.2
18	130	24	38	14	517	35	18	108	22	10	8.3	5.9
19	119	22	27	13	661	35	16	122	18	9.2	7.4	5.9
20	71	20	21	13	601	42	15	149	125	7.8	6.6	4.0
21	57	22	21	15	477	50	14	89	145	14	6.2	4.2
22	43	22	20	14	520	52	16	57	79	18	5.5	4.2
23	35	19	19	13	490	42	16	47	42	12	5.2	4.0
24	29	17	19	13	188	40	15	41	30	9.7	4.5	3.7
25	26	16	20	17	93	38	49	39	35	7.8	4.2	3.7
26	24	16	26	23	84	35	125	52	27	7.0	4.2	3.7
27	21	20	38	40	94	33	88	52	39	6.2	5.9	5.9
28	20	28	31	50	74	38	52	37	32	6.2	5.9	7.4
29	18	24	26	60	61	32	40	30	23	10	4.5	5.9
30	17	22	24	58	---	30	33	39	22	27	4.0	4.5
31	16	---	30	58	---	29	---	69	---	14	3.7	---
TOTAL	940	708	984	691	5167	3724	1031	1590	1778	436.9	319.8	149.4
MEAN	30.3	23.6	31.7	22.3	178	120	34.4	51.3	59.3	14.1	10.3	4.98
MAX	130	59	61	60	661	456	125	165	155	27	24	7.4
MIN	12	12	19	13	25	29	14	21	17	6.2	3.7	3.7
CAL YR 1975	TOTAL	15400.3	MEAN	42.2	MAX	739	MIN	3.0				
WTR YR 1976	TOTAL	17519.1	MEAN	47.9	MAX	661	MIN	3.7				

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DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	554	228	331	300	700	1380	569	453	1070	224	248	90
2	475	216	306	260	640	1400	525	536	1140	200	222	109
3	399	210	273	250	580	3610	448	444	740	185	177	93
4	344	210	252	240	580	3900	402	383	581	171	149	88
5	300	204	240	220	600	3180	373	459	483	157	128	86
6	271	193	279	190	540	2190	348	409	424	141	123	84
7	246	182	331	220	500	1650	324	415	1390	129	222	80
8	225	193	264	220	450	1320	303	425	851	131	516	75
9	222	188	270	200	420	994	285	368	620	250	320	72
10	261	267	462	200	400	783	270	337	530	157	258	80
11	231	430	471	200	1400	680	261	317	399	154	222	93
12	228	331	402	190	1880	540	252	411	278	229	193	88
13	222	448	369	200	1660	490	243	358	238	229	184	80
14	207	380	660	220	2000	460	228	313	217	262	210	73
15	193	334	1220	240	1600	430	219	295	216	213	190	70
16	246	310	1180	220	5800	410	228	426	213	182	196	75
17	237	289	820	200	6720	370	231	1260	260	160	204	80
18	1830	270	653	180	6060	366	213	1050	208	141	187	93
19	1420	255	466	170	5930	422	198	1240	184	127	166	101
20	1070	243	420	180	4150	679	182	2270	581	116	149	95
21	828	246	390	190	2520	598	179	1430	573	158	139	95
22	622	249	360	180	3580	586	182	997	392	169	127	93
23	505	231	340	180	2870	480	184	796	284	126	118	86
24	426	213	330	190	1730	448	176	668	234	114	112	80
25	380	204	350	200	1410	418	453	602	271	105	105	77
26	345	198	380	300	1350	394	1220	814	232	94	103	77
27	313	213	360	800	1480	376	882	829	280	87	125	109
28	296	258	350	1000	1190	414	686	593	271	84	118	137
29	273	243	320	900	962	362	622	498	225	100	105	112
30	255	243	290	800	---	341	510	522	207	285	95	95
31	240	---	300	740	---	324	---	692	---	168	91	---
TOTAL	13664	7679	13439	9780	59702	29995	11196	20610	13592	5048	5502	2666
MEAN	441	256	434	315	2059	968	373	665	453	163	177	88.9
MAX	1830	448	1220	1000	6720	3900	1220	2270	1390	285	516	137
MIN	193	182	240	170	400	324	176	295	184	84	91	70
CAL YR 1975	TOTAL	196594	MEAN	539	MAX	13600	MIN	55				
WTR YR 1976	TOTAL	192873	MEAN	527	MAX	6720	MIN	70				

01530380 NEWTOWN CREEK AT BREESPORT, NY

LOCATION.--Lat 42°10'23", long 76°43'56", Chemung County, Hydrologic Unit 02050105, on right bank adjacent to State Highway 223 at Breesport, 300 ft (90 m) upstream from bridge on Church Street, and 600 ft (180 m) upstream from Jackson Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--20.6 mi² (53.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1975 to current year (no winter records).

GAGE.--Water-stage recorder. Datum of gage is 1,090.95 ft (332.522 m) above mean sea level.

REMARKS.--Records poor.

EXTREMES FOR CURRENT PERIOD.--August to September 1975: Maximum discharge during period, 2,200 ft³/s (62.3 m³/s) Sept. 26, gage height, 7.00 ft (2.134 m), on basis of slope-area measurement of peak flow; minimum daily, 3.4 ft³/s (0.10 m³/s), Aug. 23.

Water year 1976: Maximum discharge, 475 ft³/s (13.5 m³/s) June 20; maximum gage height, 3.09 ft (0.942 m) May 20; minimum recorded daily discharge, 2.0 ft³/s (0.06 m³/s) July 28.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST AND SEPTEMBER 1975
MEAN VALUES

AUGUST						SEPTEMBER					
DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S
1	10	11	4.6	21	3.6	1	11	11	6.6	21	12
2	6.0	12	6.0	22	3.6	2	12	12	41	22	9.0
3	5.0	13	5.2	23	3.4	3	17	13	26	23	8.3
4	6.0	14	4.2	24	9.4	4	8.6	14	16	24	34
5	8.0	15	3.6	25	7.2	5	7.2	15	12	25	436
6	8.0	16	7.6	26	5.4	6	6.9	16	9.4	26	884
7	7.6	17	10	27	4.6	7	5.7	17	7.9	27	169
8	6.6	18	6.0	28	4.0	8	5.4	18	7.9	28	76
9	5.2	19	4.4	29	3.8	9	12	19	14	29	39
10	3.8	20	3.8	30	29	10	6.6	20	11	30	25
				31	18						
TOTAL				213.6		TOTAL				1,936.5	
MEAN				6.89		MEAN				64.6	
MAX				29		MAX				884	
MIN				3.4		MIN				5.4	
CFSM				.33		CFSM				3.14	
IN.				.39		IN.				3.50	

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	7.0				43	69	11	6.0	11	7.9	2.6
2	40	6.7				42	42	33	5.7	7.2	4.9	2.6
3	27	6.6				137	38	22	5.7	6.3	7.2	2.6
4	21	6.4				91	31	15	4.7	25	12	2.6
5	17	5.6				60	26	12	3.8	11	12	2.6
6	18	5.2				45	21	10	3.2	6.9	14	2.8
7	13	5.2				28	17	9.8	4.2	9.0	34	3.2
8	12	5.0				22	14	9.0	4.2	37	61	3.2
9	12	4.6				16	12	7.9	4.7	13	25	3.0
10	14	5.0				18	11	7.2	5.2	6.6	17	5.7
11	12	5.4				22	10	18	6.9	7.2	13	3.5
12	11	7.4				12	9.0	37	4.9	9.0	9.4	5.4
13	12	34				14	8.3	19	3.8	21	12	8.6
14	11	23				15	7.6	12	4.4	28	38	9.4
15	9.8	18				14	7.2	10	23	13	14	9.8
16	9.8	16				12	6.9	7.6	31	8.6	13	10
17	12	14				10	6.3	11	36	7.2	9.0	13
18	120	12				13	6.0	9.0	16	5.7	6.9	11
19	57	11				22	5.7	11	26	4.7	5.7	9.4
20	57	9.0				31	5.4	118	170	4.4	4.9	11
21	43	13				31	5.2	32	87	5.4	4.4	16
22	32	16				20	5.4	20	65	5.2	4.0	12
23	26	12				13	6.0	15	20	3.8	3.8	10
24	20	8.9				18	5.4	12	16	4.0	3.5	8.3
25	18	8.0				16	20	9.8	15	2.6	3.5	6.9
26	16	8.6				14	20	9.0	12	2.3	3.5	7.2
27	13	17				14	43	8.6	18	2.2	6.3	20
28	11	19				25	18	12	24	2.0	3.3	12
29	10	14				14	18	27	15	7.6	3.0	6.3
30	8.4	12				14	12	23	11	14	2.8	4.7
31	7.6	---				14	---	6.3	---	5.4	2.6	---
TOTAL		709.6	335.6			860	506.4	564.2	652.4	296.3	361.6	225.4
MEAN		22.9	11.2			27.7	16.9	18.2	21.7	9.56	11.7	7.51
MAX		120	34			137	69	118	170	37	61	20
MIN		7.6	4.6			10	5.2	6.3	3.2	2.0	2.6	2.6
CFSM		1.11	.54			1.34	.82	.88	1.05	.46	.57	.36
IN.		1.28	.61			1.55	.91	1.02	1.18	.54	.65	.41

SUSQUEHANNA RIVER BASIN

01530380 NEWTOWN CREEK AT BREESEPORT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to October 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	
OCT 09...	1330	11	178	7.2	10.5	20	10.4	93	68	20	
DATE		DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	
OCT 09...	19		4.9	7.0	1.6	58	0	48	16	108	
DATE		TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
OCT 09...	20		.47	.01	.48	.01	.04	.05	.53	.04	.02

01530500 NEWTOWN CREEK AT ELMIRA, NY

LOCATION.--Lat 42°06'11", long 76°47'54", Chemung County, Hydrologic Unit 02050105, on left bank 200 ft (61 m) downstream from bridge on Linden Place in Elmira, and 1.5 mi (2.4 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--77.5 mi² (201 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 1502: 1956. WRD NY 1969: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 838.35 ft (255.529 m) above mean sea level.

REMARKS.--Records fair. Diurnal fluctuation at low flow caused by operations of sand and gravel plant and wastewater treatment plant upstream.

AVERAGE DISCHARGE.--38 years, 87.2 ft³/s (2.470 m³/s), 15.28 in/yr (388 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 4,000 ft³/s (113 m³/s) June 23, 1972; maximum gage height, 19.28 ft (5.877 m) June 23, 1972, from floodmarks (backwater from Chemung River); minimum daily discharge, 5.0 ft³/s (0.14 m³/s) Aug. 22, Sept. 19, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	0915	1,290 36.5	10.31 3.142	Mar. 3	0900	1,260 35.7	10.19 3.106
Feb. 17	1030	*2,080 58.9	*12.93 3.941				

Minimum discharge, 21 ft³/s (0.59 m³/s) July 29; minimum gage height, 4.90 ft (1.493 m) Sept. 7, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	44	50	90	120	167	438	75	61	36	41	28
2	281	39	45	64	110	148	217	173	59	33	34	30
3	147	39	41	58	92	743	177	104	49	33	28	27
4	105	38	40	52	82	518	140	81	43	113	25	25
5	84	36	37	47	76	366	115	70	39	46	23	24
6	76	35	46	43	70	250	99	62	36	34	22	24
7	66	34	40	41	64	186	87	59	50	39	55	24
8	60	34	47	40	60	152	76	55	42	71	550	25
9	59	34	90	43	60	120	69	50	40	46	133	25
10	63	45	120	44	64	110	63	48	40	34	77	31
11	60	36	130	47	110	100	59	99	39	30	57	32
12	63	49	93	48	130	90	56	241	36	31	46	27
13	59	80	82	49	150	84	53	106	33	67	42	25
14	54	70	90	64	130	70	50	78	36	119	159	26
15	50	56	86	64	120	68	48	67	111	50	67	26
16	60	48	143	54	281	62	46	65	79	37	64	27
17	63	43	86	49	1590	62	43	83	169	34	48	31
18	509	40	80	45	1000	70	41	103	70	30	41	36
19	237	37	54	42	823	99	39	111	53	27	36	32
20	225	35	50	48	501	163	39	376	439	27	34	28
21	176	39	47	49	344	133	39	156	314	29	32	34
22	123	43	45	46	531	141	41	109	217	30	30	32
23	96	38	42	42	314	98	42	88	105	26	30	28
24	81	35	40	44	227	90	40	76	67	26	29	26
25	73	32	37	43	209	84	98	69	61	23	27	24
26	66	36	78	170	198	78	218	90	47	22	28	26
27	59	42	186	942	198	76	141	74	55	23	36	49
28	54	50	116	381	161	101	128	61	42	22	30	43
29	50	41	88	268	131	80	109	86	45	32	27	33
30	48	45	84	196	---	73	87	83	37	84	26	29
31	47	---	93	140	---	72	---	66	---	36	27	---
TOTAL	3317	1273	2306	3353	7946	4654	2898	3064	2514	1290	1904	877
MEAN	107	42.4	74.4	108	274	150	96.6	98.8	83.8	41.6	61.4	29.2
MAX	509	80	186	942	1590	743	438	376	439	119	550	49
MIN	47	32	37	40	60	62	39	48	33	22	22	24
CFSM	1.38	.55	.96	1.39	3.54	1.94	1.25	1.27	1.08	.54	.79	.38
IN.	1.59	.61	1.11	1.61	3.81	2.23	1.39	1.47	1.21	.62	.91	.42
CAL YR 1975 TOTAL	35992.6			MEAN 98.6	MAX 3030	MIN 9.6	CFSM 1.27	IN 17.28				
WTR YR 1976 TOTAL	35396.0			MEAN 96.7	MAX 1590	MIN 22	CFSM 1.25	IN 16.99				

Note.--No gage-height record Nov. 10 to Dec. 11.

SUSQUEHANNA RIVER BASIN

01530500 NEWTOWN CREEK AT ELMIRA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972, May to October 1975 (discontinued).

REMARKS.--Unpublished chemical analyses for 1954 water year are available in files of district office.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
OCT 09...	1000	80	520	7.6	12.0	8.8	180	28	54	12	24
DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
OCT 09...	2.2	190	0	156	32	39	1.3	.14	1.4	.06	.03

01531000 CHEMUNG RIVER AT CHEMUNG, NY

LOCATION.--Lat 42°00'08", long 76°38'06", Chemung County, Hydrologic Unit 02050105, on right bank 100 ft (30 m) upstream from bridge on State Highway 427, 0.7 mi (1.1 km) southwest of Chemung, and 12.2 mi (19.6 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--2,506 mi² (6,491 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1903 to current year (gage heights only for some winter periods).

REVISED RECORDS.--WSP 891: 1935-39. WSP 1432: 1904, 1907, 1915. WRD NY 1969: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 778.63 ft (237.326 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 10, 1930, nonrecording gage on highway bridge 60 ft (18 m) upstream at same datum.

REMARKS.--Records good except those for winter periods, which are fair. High flows slightly regulated by upstream reservoirs. During each year a large part of flow from 45.5 mi² (118 km²) of drainage area is diverted from Mud Creek, an upstream tributary, into Keuka Lake (Oswego River basin) for power development. For table of diversion, see station 01528700.

AVERAGE DISCHARGE.--70 years (1905-13, 1914-76), 2,517 ft³/s (71.28 m³/s), 13.64 in/yr (346 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 189,000 ft³/s (5,350 m³/s) June 23, 1972, gage height, 31.62 ft (9.638 m), from floodmark, from rating curve extended above 65,000 ft³/s (1,840 m³/s) on basis of slope-area and velocity-area studies at gage height 19.57 ft (5.965 m) and slope-area and contracted opening measurements at gage heights 23.97 (7.306 m) and 31.62 ft (9.638 m); minimum, 49 ft³/s (1.39 m³/s) Aug. 14, 1911, gage height, 1.47 ft (0.448 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30,000 ft³/s (850 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 18	0200	*52,500 1490	*17.07 5.203	June 20	2400	41,200 1,170	15.27 4.654
Mar. 3	2100	32,200 912	13.64 4.157				

Minimum discharge, 336 ft³/s (9.52 m³/s) Sept. 19; minimum gage height, 3.90 ft (1.189 m) Sept. 16-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4980	1580	1910	2910	4200	5640	5000	2450	2880	2150	1150	391
2	4610	1480	2710	2500	3100	6140	5770	2930	3350	1960	1440	391
3	4170	1430	2260	2100	2400	19400	4580	3390	2950	1620	1520	383
4	3220	1370	2000	1800	2300	20700	3960	2570	2140	1570	1500	383
5	2690	1320	1760	1700	2300	17500	3420	2210	1730	1410	1480	383
6	2320	1220	1740	1500	2200	11300	2970	1990	1460	1200	1460	375
7	2020	1130	2200	1600	2100	8010	2710	1790	2210	1100	1440	367
8	1800	1120	2300	1700	2000	6200	2450	1810	4250	1150	6800	367
9	1670	1220	1800	1500	1900	5200	2220	1710	2310	1350	4680	367
10	1760	1230	4000	1400	1900	4500	1980	1560	2080	1370	2510	360
11	1910	3500	4950	1400	2700	4200	1830	1630	1700	1120	1800	360
12	1780	2970	3820	1400	7950	3800	1740	2740	1360	1270	1370	352
13	1710	4430	3270	1400	5430	3400	1600	2280	1080	1460	1100	352
14	1550	4290	3750	1600	6880	3200	1480	1820	932	1810	1150	352
15	1410	3440	6630	1900	5560	2900	1350	1640	1350	1600	1030	352
16	1370	2930	8550	2200	6940	2700	1300	2150	2490	1250	1090	352
17	1460	2610	6300	1800	33100	2400	1340	10500	2730	1090	1170	344
18	9920	2350	4800	1400	40900	2200	1270	6740	2420	986	905	344
19	11400	2150	3570	1100	31200	2500	1120	7910	1580	905	755	439
20	7980	1980	2910	1100	23400	3980	1010	8170	25500	790	665	491
21	7740	1930	2500	1200	14500	4000	945	6380	28000	709	590	415
22	5430	1940	2300	1300	14900	4950	932	4410	12800	743	535	360
23	4340	1870	2200	1400	17200	3860	945	3490	6970	778	526	352
24	3570	1780	2000	1500	9640	3330	959	2920	4710	698	526	344
25	3100	1760	1800	1570	8010	3080	1130	2550	3800	611	448	337
26	2810	1690	2200	1870	7370	2890	4560	2600	3500	562	407	337
27	2510	1640	4340	17100	7250	2710	5430	2850	2610	517	491	337
28	2240	2000	4170	15300	6490	3330	3820	2470	2410	491	491	399
29	2020	2320	3290	8550	5280	3200	3350	1980	2610	553	473	482
30	1850	1810	2750	6440	---	2690	2890	1740	2430	1280	431	482
31	1720	---	2730	4900	---	2510	---	2520	---	2020	407	---
TOTAL	107060	62490	101510	95140	279100	172420	74061	101900	136342	36123	40340	11350
MEAN	3454	2083	3275	3069	9624	5562	2469	3287	4545	1165	1301	378
MAX	11400	4430	8550	17100	40900	20700	5770	10500	28000	2150	6800	491
MIN	1370	1120	1740	1100	1900	2200	932	1560	932	491	407	337
CFSM	1.38	.83	1.31	1.22	3.84	2.22	.99	1.31	1.81	.46	.52	.15
IN.	1.59	.93	1.51	1.41	4.14	2.56	1.10	1.51	2.02	.54	.60	.17

CAL YR 1975	TOTAL	1294888	MEAN	3548	MAX	82300	MIN	278	CFSM	1.42	IN	19.22
WTR YR 1976	TOTAL	1217836	MEAN	3327	MAX	40900	MIN	337	CFSM	1.33	IN	18.08

SUSQUEHANNA RIVER BASIN

01531000 CHEMUNG RIVER AT CHEMUNG, NY--Continued

(NOTE: WATER-QUALITY DATA FOR 1976 FOR THIS STATION ARE NOT AVAILABLE AT TIME OF PUBLICATION OF THIS REPORT; THEY WILL BE PUBLISHED IN "WATER RESOURCES DATA FOR PENNSYLVANIA.")

SUSQUEHANNA RIVER BASIN

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LAKES AND RESERVOIRS IN SUSQUEHANNA RIVER BASIN

- 01496450 CANADARAGO LAKE AT SCHUYLER LAKE, NY (see station for daily mean elevation).
- 01499500 EAST SIDNEY LAKE AT EAST SIDNEY, NY (see station for daily mean elevation, skeleton capacity table, monthly change in contents, and change in contents).
- 01511000 WHITNEY POINT LAKE AT WHITNEY POINT, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).
- 01521000 ARKPORT RESERVOIR NEAR ARKPORT, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).
- 01523000 ALMOND LAKE NEAR ALMOND, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

DIVERSION OF WATER AFFECTING THE SUSQUEHANNA RIVER BASIN

- 01528700 Diversion from Waneta Lake to Keuka Lake at Keuka, NY (see station for daily discharge).

03011020 ALLEGHENY RIVER AT SALAMANCA, NY

LOCATION.--Lat 42°09'23", long 78°42'56", Cattaraugus County, Hydrologic Unit 05010001, on left bank 230 ft (70 m) upstream from Main Street bridge in Salamanca, 1.3 mi (2.1 km) downstream from Great Valley Creek, and 1.6 mi (2.6 km) upstream from Little Valley Creek.

DRAINAGE AREA.--1,608 mi² (4,165 km²).

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1964, published as "at Red House."

REVISED RECORDS.--WSP 1385: 1907, 1909-12, 1913(M), 1914-15, 1916-17(M), 1925, 1927. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,358.00 ft (413.918 m) above mean sea level (Corps of Engineers bench mark). Prior to Sept. 3, 1917, nonrecording gage and Sept. 4, 1917 to Sept. 30, 1964, water-stage recorder at site 7.5 mi (12.1 km) downstream at different datum. Oct. 1, 1964 to Sept. 30, 1967, at present site at datum 0.04 ft (0.012 m) lower.

REMARKS.--Records good.

AVERAGE DISCHARGE.--73 years, 2,777 ft³/s (78.64 m³/s), 23.45 in/yr (596 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,000 ft³/s (2,070 m³/s) June 23, 1972, gage height, 24.01 ft (7.318 m), from floodmarks; minimum daily, 79 ft³/s (2.24 m³/s) Sept. 10, 11, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 17,000 ft³/s (481 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 19	1400	*31,900 903	*14.39 4.386	Mar. 3	1900	20,500 581	11.15 3.399
Feb. 23	0100	22,700 643	11.82 3.603				

Minimum discharge, 248 ft³/s (7.02 m³/s) Sept. 9, 15, 16, gage height, 3.04 ft (0.927 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2920	1420	4490	3420	2500	11000	3480	3040	2050	2660	3250	384
2	2920	1340	4590	2700	2300	9710	3810	3040	2110	2220	2450	416
3	2660	1300	3720	2400	2200	17300	3650	2880	1890	1720	1670	384
4	2160	1250	3280	2200	2300	19200	3360	2750	1590	1420	1230	368
5	1840	1170	2960	1900	2200	18100	3190	2540	1390	1190	983	352
6	1620	1060	4410	1600	2100	14700	2980	2270	1250	1050	1220	328
7	1440	1010	5750	1800	2000	11000	2770	2270	1300	917	1610	304
8	1260	996	4340	1900	2200	8180	2520	2380	1450	970	3300	280
9	1220	970	3720	1600	2200	5860	2290	2160	1160	1110	2940	256
10	1410	1380	3720	1300	2600	4770	2090	1960	996	943	2240	288
11	1280	3130	3440	1400	3200	4340	1960	1840	904	2000	1810	400
12	1120	3050	3070	1500	4400	3700	1880	1960	817	2090	1470	416
13	1040	3280	2790	1500	4500	3540	1720	1790	743	1860	1330	360
14	1010	3280	3400	2200	5000	3420	1560	1590	680	1480	1840	296
15	943	3050	9380	2800	4700	3130	1480	1510	917	1770	2740	256
16	1330	2830	13800	2500	8470	2900	1660	1620	841	2090	2540	249
17	1380	2570	10900	2200	19700	2740	1510	3500	1170	1750	1770	1250
18	6980	2320	8850	1900	24900	2550	1360	3910	1120	1480	1340	1280
19	8910	2090	6610	2200	31100	2770	1250	3810	807	1260	1060	904
20	6300	1910	4800	1500	28100	4150	1170	4240	1170	1060	892	753
21	5100	1890	3900	1400	21900	4590	1190	5100	1930	1390	775	743
22	4070	2050	3200	1300	22600	5550	5750	4360	3650	1750	701	732
23	3400	1880	2800	1200	19800	4740	5100	3610	2900	1300	630	680
24	2940	1670	2500	1100	13700	4220	3460	3170	2070	1090	590	599
25	2640	1560	2300	1100	10900	3840	4510	2810	2830	943	531	503
26	2380	1500	2500	3500	9770	3500	6890	3020	2720	785	493	930
27	2130	1530	2700	4000	9440	3280	5780	3050	1890	701	521	1700
28	1890	1820	2700	3700	8470	4220	4690	2590	1500	650	503	1620
29	1720	1740	2500	3700	7570	3650	3930	2250	1960	722	540	1110
30	1560	1930	2400	3200	---	3250	3380	2090	2520	1810	440	841
31	1510	---	3360	2800	---	3110	---	2070	---	1670	424	---
TOTAL	79083	56976	138880	67520	280820	197010	90370	85180	48325	43851	43833	18982
MEAN	2551	1899	4480	2178	9683	6355	3012	2748	1611	1415	1414	633
MAX	8910	3280	13800	4000	31100	19200	6890	5100	3650	2660	3300	1700
MIN	943	970	2300	1100	2000	2550	1170	1510	680	650	424	249
CFSM	1.59	1.18	2.79	1.35	6.02	3.95	1.87	1.71	1.00	.88	.88	.39
IN.	1.83	1.32	3.21	1.56	6.50	4.56	2.09	1.97	1.12	1.01	1.01	.44

CAL YR 1975 TOTAL 1173585 MEAN 3215 MAX 25100 MIN 180 CFSM 2.00 IN 27.15
WTR YR 1976 TOTAL 1150830 MEAN 3144 MAX 31100 MIN 249 CFSM 1.96 IN 26.62

ALLEGHENY RIVER BASIN

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03012834 CONEWANGO CREEK BELOW SOUTH DAYTON, NY

LOCATION.--Lat 42°20'12", long 79°02'28", Cattaraugus County, Hydrologic Unit 05010002, on left bank 75 ft (23 m) downstream from bridge on Kysor Road, 1.5 mi (2.4 km) downstream from Slab Creek, 1.5 mi (2.4 km) upstream from West Branch, and 1.7 mi (2.7 km) south of South Dayton. Water-quality sampling site at discharge station.
DRAINAGE AREA.--63.3 mi² (164 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1975 to current year (no winter records).

GAGE.--Water-stage recorder. Altitude of gage is 1,280 ft (390.1 m), from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT PERIOD.--August to September 1975: Maximum daily discharge during period, 443 ft³/s (12.5 m³/s); Aug. 31; minimum daily, 11 ft³/s (0.31 m³/s) Aug. 21-23.

Water year 1976: Maximum daily discharge, 840 ft³/s (23.8 m³/s) Mar. 4; minimum recorded daily discharge, 8.7 ft³/s (0.25 m³/s) Sept. 9,10.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST AND SEPTEMBER 1975
MEAN VALUES

AUGUST						SEPTEMBER					
DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S
1	16	11	19	21	11	1	402	11	24	21	99
2	16	12	17	22	11	2	168	12	26	22	61
3	16	13	16	23	11	3	80	13	32	23	47
4	19	14	17	24	13	4	56	14	35	24	48
5	33	15	16	25	29	5	43	15	30	25	70
6	80	16	16	26	35	6	40	16	25	26	56
7	76	17	16	27	65	7	39	17	26	27	46
8	54	18	13	28	48	8	31	18	27	28	41
9	34	19	13	29	26	9	29	19	61	29	34
10	24	20	12	30	262	10	27	20	76	30	30
				31	443						
TOTAL					1,477	TOTAL					1,809
MEAN					47.6	MEAN					60.3
MAX					443	MAX					402
MIN					11	MIN					24
CFSM					.75	CFSM					.95
IN.					.87	IN.					1.06

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	32				336	200	116	41	39	179	12
2	25	32				540	223	110	38	34	139	12
3	25	33				700	164	101	31	28	77	11
4	25	39				840	125	111	27	23	45	10
5	23	44				759	106	90	23	18	32	9.7
6	22	42				578	96	73	21	14	120	9.7
7	20	38				311	85	75	20	19	201	9.7
8	20	35				171	74	97	20	25	203	9.7
9	20	37				137	67	75	18	20	147	8.7
10	20	52				125	62	62	17	15	93	8.7
11	20	147				118	58	63	16	36	68	12
12	20	109				108	62	177	15	57	53	18
13	20	83				106	59	126	14	35	45	14
14	22	79				107	53	79	13	34	44	12
15	21	79				107	64	65	14	36	46	11
16	25	81				99	106	58	14	41	63	9.9
17	28	87				87	87	123	17	30	51	15
18	140	74				87	68	210	15	23	32	120
19	220	62				68	55	280	15	17	24	104
20	180	55				189	49	290	17	15	21	48
21	170	54				193	44	300	18	58	18	52
22	99	74				204	103	290	17	115	16	70
23	61	79				164	159	162	18	52	15	76
24	45	69				121	122	103	17	51	14	62
25	39	61				104	210	68	23	43	14	42
26	35	57				102	380	85	25	28	13	34
27	35	60				90	410	75	18	23	14	136
28	33	82				116	360	58	13	20	14	194
29	32	81				106	266	47	15	29	15	111
30	32	93				98	158	42	25	161	14	67
31	32	---				100	---	39	---	209	13	---
TOTAL	1537	1950				6971	4075	3650	595	1348	1843	1309.1
MEAN	49.6	65.0				225	136	118	19.8	43.5	59.5	43.6
MAX	220	147				840	410	300	41	209	203	194
MIN	20	32				68	44	39	13	14	13	8.7
CFSM	.78	1.03				3.55	2.15	1.86	.31	.69	.94	.69
IN.	.90	1.15				4.10	2.39	2.14	.35	.79	1.08	.77

ALLEGHENY RIVER BASIN

03012834 CONEWANGO CREEK BELOW SOUTH DAYTON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to October 1975 (discontinued).

REMARKS.--Unpublished chemical analyses for 1952 water year are available in files of district office.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA.MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	
OCT 22...	0930	102	240	7.2	11.0	1	7.6	68	77	9	
DATE		DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CAC03 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT 22...	22		5.3	12	2.6	83	0	68	6.8	23	141
DATE		TOTAL NON-FILTERABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT 22...	6		.21	.00	.21	.01	.55	.56	.77	.06	.02

ALLEGHENY RIVER BASIN

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03013000 CONEWANGO CREEK AT WATERBORO, NY

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, Hydrologic Unit 05010002, on right bank 300 ft (91 m) downstream from bridge on State Highway 394 at Waterboro, 0.2 mi (0.3 km) downstream from Davis Brook, 0.4 mi (0.6 km) upstream from Harris Brook, and 1.9 mi (3.1 km) northeast of Kennedy.

DRAINAGE AREA.--290 mi² (751 km²).

PERIOD OF RECORD.--September 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,255.30 ft (382.615 m) above mean sea level (Corps of Engineers bench mark). Prior to Nov. 7, 1939, nonrecording gages at site 1,300 ft (396 m) upstream at various datums. Nov. 7, 1939 to Nov. 4, 1940, nonrecording gage at site 1,100 ft (335 m) upstream at datum 0.79 ft (0.241 m) higher, and Nov. 5, 1940 to May 28, 1948, nonrecording gage at site 700 ft (213 m) downstream at present datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--38 years, 513 ft³/s (14.53 m³/s), 24.02 in/yr (610 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,600 ft³/s (244 m³/s) Apr. 7, 1947; maximum gage height, 11.58 ft (3.530 m) Mar. 8, 1956; minimum discharge observed, 22 ft³/s (0.62 m³/s) Aug. 18, 1940, Sept. 27, 29, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,300 ft³/s (65.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 20	0700	*7,280 206	*11.45 3.490	Mar. 5	1900	4,200 119	10.32 3.146

Minimum discharge, 60 ft³/s (1.70 m³/s) Sept. 9, 10, gage height, 3.23 ft (0.985 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	160	961	1090	860	1970	895	530	240	166	373	85
2	185	176	930	975	500	2310	965	448	224	187	322	90
3	178	195	769	880	360	2920	920	423	195	153	229	81
4	158	208	551	620	320	3590	845	452	170	126	168	74
5	145	207	457	430	280	4110	723	423	153	113	136	73
6	137	194	1080	420	261	3930	578	356	140	113	224	69
7	132	180	1220	401	246	3410	475	352	134	103	328	73
8	127	179	1210	330	238	2760	412	383	126	120	423	66
9	133	193	975	270	232	2080	380	345	118	120	387	60
10	143	283	811	279	232	1450	352	305	113	101	286	65
11	142	519	710	270	562	1000	339	295	109	190	213	94
12	138	437	570	261	830	885	335	475	101	279	170	115
13	137	368	434	258	920	801	322	444	96	218	153	96
14	136	344	714	594	1070	745	302	349	92	168	157	79
15	136	337	1220	820	1080	674	279	308	90	478	200	73
16	171	335	1500	830	1440	598	369	292	90	362	258	74
17	187	331	1550	760	2200	518	359	398	103	261	210	90
18	877	306	1360	620	3310	475	305	718	97	173	166	187
19	887	276	955	480	6170	578	267	855	92	126	136	258
20	964	254	723	408	7140	945	240	875	105	103	118	187
21	855	267	526	362	6170	980	221	900	109	190	105	178
22	615	319	398	322	6080	1030	362	860	113	339	97	267
23	432	319	349	290	5510	950	482	723	105	270	92	279
24	337	296	289	289	4490	865	441	518	101	289	86	238
25	283	273	295	279	3710	759	670	401	144	238	81	185
26	245	263	315	452	3090	648	970	412	157	168	81	155
27	219	294	486	1200	2620	570	1040	416	122	134	92	376
28	199	359	506	1380	2220	692	980	356	103	120	86	506
29	185	338	426	1390	1860	652	865	289	101	118	159	398
30	177	439	416	1270	---	652	727	249	115	282	138	276
31	168	---	945	1000	---	562	---	238	---	339	97	---
TOTAL	8987	8649	23651	19230	64001	44109	16420	14388	3758	6147	5771	4847
MEAN	290	288	763	620	2207	1423	547	464	125	198	186	162
MAX	964	519	1550	1390	7140	4110	1040	900	240	478	423	506
MIN	127	160	289	258	232	475	221	238	90	101	81	60
CFSM	1.00	.99	2.63	2.14	7.61	4.91	1.89	1.60	.43	.68	.64	.56
IN.	1.15	1.11	3.03	2.47	8.21	5.66	2.11	1.85	.48	.79	.74	.62

CAL YR 1975 TOTAL 196437 MEAN 538 MAX 3190 MIN 64 CFSM 1.86 IN 25.20
WTR YR 1976 TOTAL 219958 MEAN 601 MAX 7140 MIN 60 CFSM 2.07 IN 28.22

ALLEGHENY RIVER BASIN

03013946 CHAUTAUQUA LAKE AT BEMUS POINT, NY

LOCATION.--Lat 42°09'23", long 79°23'39". Chautauqua County, Hydrologic Unit 05010002, 6 ft (1.8 m) east of lake shore, 30 ft (9.1 m) south of the intersection of Pauline Avenue and Lakeside Avenue, and 950 ft (290 m) south-east of the ferry landing, at Bemus Point.

DRAINAGE AREA.--189 mi² (490 km²).

PERIOD OF RECORD.--October 1972 to September 1973; November 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage (revised) is at mean sea level. Prior to Nov. 1974 at site 950 ft (290 m) northwest at same datum.

REMARKS.--Lake regulated for flood control by Warner Dam. Area of water surface, 20.98 mi² (54.34 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,311.23 ft (399.663 m) Mar. 5, 1976; minimum, 1,307.50 ft (398.526 m) Mar. 2, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,311.23 ft (399.663 m) Mar. 5; minimum, 1,307.52 ft (398.532 m) Feb. 11.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1308.04	1307.86	1307.84	1308.21	1307.59	1310.21	1308.49	1308.24	1308.25	1308.12	1308.35	1308.00
2	1308.04	1307.84	1307.86	1308.18	1307.65	1310.43	1308.52	1308.26	1308.23	1308.12	1308.34	1307.99
3	1308.01	1307.84	1307.87	1308.18	1307.68	1310.85	1308.48	1308.25	1308.22	1308.10	1308.31	1307.97
4	1307.99	1307.86	1307.86	1308.17	1307.76	1311.07	1308.42	1308.28	1308.21	1308.09	1308.27	1307.95
5	1307.99	1307.88	1307.84	1308.13	1307.76	1311.16	1308.33	1308.35	1308.19	1308.07	1308.26	1307.93
6	1307.97	1307.88	1307.95	1308.09	1308.00	1311.04	1308.25	1308.31	1308.18	1308.06	1308.27	1307.91
7	1307.97	1307.89	1308.05	1308.03	1308.83	1310.86	1308.20	1308.32	1308.18	1308.06	1308.28	1307.89
8	1307.96	1307.87	1308.02	1307.99	1307.64	1310.67	1308.15	1308.31	1308.17	1308.06	1308.30	1307.87
9	1307.98	1307.83	1308.00	1307.97	1307.59	1310.48	1308.09	1308.29	1308.16	1308.04	1308.30	1307.86
10	1307.98	1307.86	1308.02	1307.90	1307.56	1310.30	1308.03	1308.28	1308.15	1308.02	1308.24	1307.89
11	1307.97	1307.92	1308.01	1307.88	1307.53	1310.13	1307.92	1308.30	1308.13	1308.12	1308.22	1307.94
12	1307.97	1307.89	1308.00	1307.85	1307.63	1309.97	1307.93	1308.33	1308.12	1308.10	1308.20	1307.94
13	1307.96	1307.85	1307.97	1307.83	1307.66	1309.82	1307.88	1308.36	1308.09	1308.05	1308.18	1307.94
14	1307.96	1307.83	1307.99	1307.94	1307.71	1309.67	1307.84	1308.36	1308.09	1308.06	1308.20	1307.93
15	1307.96	1307.78	1308.16	1308.02	1307.74	1309.53	1307.82	1308.35	1308.07	1308.15	1308.27	1307.92
16	1307.99	1307.74	1308.33	1308.04	1307.98	1309.42	1307.81	1308.40	1308.07	1308.17	1308.27	1307.95
17	1308.00	1307.70	1308.31	1308.01	1308.81	1309.29	1307.79	1308.40	1308.09	1308.15	1308.25	1308.03
18	1308.20	1307.66	1308.28	1307.99	1309.24	1309.18	1307.76	1308.45	1308.07	1308.13	1308.24	1308.16
19	1308.24	1307.62	1308.28	1307.96	1309.75	1309.09	1307.75	1308.40	1308.08	1308.11	1308.22	1308.17
20	1308.29	1307.58	1308.29	1307.93	1309.83	1309.12	1307.75	1308.43	1308.08	1308.10	1308.20	1308.15
21	1308.27	1307.58	1308.25	1307.80	1309.86	1309.12	1307.75	1308.41	1308.08	1308.19	1308.18	1308.11
22	1308.29	1307.61	1308.22	1307.88	1310.33	1309.10	1307.83	1308.35	1308.09	1308.26	1308.16	1308.06
23	1308.30	1307.62	1308.18	1307.83	1310.42	1309.01	1307.87	1308.27	1308.08	1308.26	1308.14	1307.99
24	1308.29	1307.62	1308.16	1307.80	1310.32	1308.91	1307.90	1308.20	1308.07	1308.30	1308.12	1307.92
25	1308.21	1307.62	1308.11	1307.80	1310.23	1308.81	1308.00	1308.20	1308.12	1308.30	1308.10	1307.83
26	1308.13	1307.63	1308.12	1307.75	1310.18	1308.72	1308.16	1308.24	1308.10	1308.27	1308.08	1307.77
27	1308.05	1307.65	1308.12	1307.72	1310.12	1308.64	1308.20	1308.24	1308.09	1308.26	1308.07	1307.81
28	1308.03	1307.66	1308.11	1307.70	1310.04	1308.58	1308.22	1308.24	1308.08	1308.25	1308.05	1307.80
29	1308.02	1307.66	1308.07	1307.63	1309.98	1308.50	1308.23	1308.24	1308.10	1308.27	1308.10	1307.76
30	1307.99	1307.70	1308.06	1307.59	---	1308.42	1308.23	1308.23	1308.10	1308.29	1308.06	1307.73
31	1307.92	---	1308.19	1307.54	---	1308.38	---	1308.24	---	1308.30	1308.02	---
MEAN	1308.06	1307.75	1308.08	1307.91	1308.74	1309.63	1308.05	1308.31	1308.12	1308.16	1308.20	1307.94
MAX	1308.30	1307.92	1308.33	1308.21	1310.42	1311.16	1308.52	1308.45	1308.25	1308.30	1308.35	1308.17
MIN	1307.92	1307.58	1307.84	1307.54	1307.53	1308.38	1307.75	1308.20	1308.07	1308.02	1308.02	1307.73
WTR YR 1976	MEAN	1308.25	MAX	1311.16	MIN	1307.53						
CAL YR 1975	MEAN	1308.29	MAX	1309.53	MIN	1307.53						

Note.--No gage-height record Dec. 20 to Feb. 18, June 14 to July 13, and July 24 to Aug. 24.

ALLEGHENY RIVER BASIN

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03013990 CHAUTAUQUA LAKE NEAR MAYVILLE, NY

LOCATION.--Lat 42°14'20", long 79°29'50", Chautauqua County, Hydrologic Unit 05010002, on right bank of outlet of Mud Creek, 25 ft (8 m) upstream from bridge on State Highway 394, 0.1 mi (0.2 km) upstream from lake, and 1 mi (2 km) south of Mayville.

DRAINAGE AREA.--189 mi² (490 km²).

PERIOD OF RECORD.--November 1949 to current year (discontinued).

GAGE.--Water-stage recorder. Datum of gage (revised) is at mean sea level. Prior to Dec. 21, 1956, nonrecording gage at site near mouth of Big Inlet at same datum.

REMARKS.--Lake regulated for flood control by Warner Dam. Area of water surface, 20.98 mi² (54.34 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,311.19 ft (399.651 m) Mar. 5, 1976; minimum daily, 1,306.29 ft (398.157 m) Nov. 17, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,311.19 ft (399.651 m) Mar. 5; minimum, 1,307.49 ft (398.523 m) Feb. 11.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1308.02	1307.87	1307.82	1308.20	1307.95	1310.12	1308.47	1308.21	1308.21	1308.10	1308.37	1307.97
2	1307.98	1307.83	1307.87	1308.17	1307.89	1310.33	1308.48	1308.23	1308.21	1308.07	1308.36	1307.95
3	1308.00	1307.83	1307.80	1308.17	1307.85	1310.84	1308.44	1308.21	1308.19	1308.05	1308.31	1307.95
4	1307.99	1307.83	1307.87	1308.16	1307.81	1311.04	1308.37	1308.24	1308.17	1308.05	1308.29	1307.93
5	1308.00	1307.86	1307.85	1308.12	1307.76	1311.10	1308.28	1308.31	1308.16	1308.04	1308.28	1307.87
6	1307.95	1307.87	1307.92	1308.08	1307.71	1310.98	1308.21	1308.26	1308.14	1308.03	1308.29	1307.87
7	1307.95	1307.88	1308.05	1308.02	1307.67	1310.78	1308.15	1308.27	1308.14	1308.03	1308.30	1307.86
8	1307.95	1307.85	1308.02	1307.98	1307.63	1310.62	1308.10	1308.27	1308.14	1308.01	1308.32	1307.84
9	1307.99	1307.83	1308.01	1307.94	1307.58	1310.47	1308.04	1308.25	1308.13	1308.00	1308.32	1307.84
10	1307.97	1307.85	1307.99	1307.89	1307.55	1310.28	1307.98	1308.25	1308.12	1308.01	1308.26	1307.83
11	1307.96	1307.91	1308.00	1307.87	1307.52	1310.09	1307.88	1308.26	1308.10	1308.04	1308.24	1307.90
12	1307.92	1307.89	1307.99	1307.84	1307.62	1310.03	1307.87	1308.29	1308.09	1308.03	1308.22	1307.92
13	1307.96	1307.82	1307.99	1307.82	1307.65	1309.76	1307.83	1308.33	1308.11	1308.08	1308.20	1307.91
14	1307.94	1307.73	1308.02	1307.93	1307.70	1309.64	1307.82	1308.33	1308.08	1308.08	1308.22	1307.91
15	1307.94	1307.77	1308.15	1308.01	1307.73	1309.48	1307.80	1308.32	1308.06	1308.18	1308.29	1307.90
16	1307.95	1307.72	1308.31	1308.03	1307.97	1309.36	1307.77	1308.35	1308.05	1308.19	1308.29	1307.93
17	1307.98	1307.70	1308.29	1308.00	1308.80	1309.19	1307.75	1308.36	1308.05	1308.18	1308.27	1308.03
18	1308.19	1307.65	1308.21	1307.98	1309.21	1309.17	1307.73	1308.41	1308.05	1308.15	1308.26	1308.13
19	1308.23	1307.61	1308.27	1307.95	1309.72	1309.08	1307.70	1308.36	1308.05	1308.15	1308.24	1308.13
20	1308.29	1307.59	1308.28	1307.91	1309.73	1309.12	1307.70	1308.39	1308.03	1308.13	1308.22	1308.11
21	1308.27	1307.57	1308.24	1307.86	1309.78	1309.05	1307.71	1308.36	1308.04	1308.24	1308.20	1308.07
22	1308.28	1307.57	1308.21	1307.85	1310.30	1309.05	1307.79	1308.31	1308.05	1308.28	1308.18	1308.02
23	1308.30	1307.60	1308.17	1307.84	1310.34	1308.98	1307.81	1308.23	1308.05	1308.28	1308.16	1307.97
24	1308.31	1307.61	1308.15	1307.83	1310.25	1308.90	1307.87	1308.17	1308.06	1308.32	1308.10	1307.88
25	1308.21	1307.62	1308.10	1307.79	1310.16	1308.77	1307.96	1308.18	1308.07	1308.32	1308.06	1307.80
26	1308.11	1307.63	1308.11	1307.74	1310.10	1308.71	1308.07	1308.21	1308.07	1308.29	1308.05	1307.75
27	1308.04	1307.68	1308.11	1307.74	1310.04	1308.63	1308.12	1308.22	1308.05	1308.28	1308.05	1307.78
28	1308.02	1307.65	1308.10	1307.75	1309.94	1308.52	1308.15	1308.23	1308.05	1308.27	1308.04	1307.76
29	1307.98	1307.71	1308.06	1308.03	1309.86	1308.49	1308.18	1308.24	1308.06	1308.29	1308.03	1307.73
30	1307.94	1307.73	1308.05	1308.02	---	1308.43	1308.20	1308.22	1308.08	1308.31	1308.00	1307.70
31	1307.93	---	1308.18	1307.99	---	1308.34	---	1308.22	---	1308.32	1308.00	---
MEAN	1308.05	1307.74	1308.07	1307.96	1308.68	1309.59	1308.01	1308.27	1308.10	1308.15	1308.21	1307.91
MAX	1308.31	1307.91	1308.31	1308.20	1310.34	1311.10	1308.48	1308.41	1308.21	1308.32	1308.37	1308.13
MIN	1307.92	1307.57	1307.80	1307.74	1307.52	1308.34	1307.70	1308.17	1308.03	1308.00	1308.00	1307.70

WTR YR 1976 MEAN 1308.23 MAX 1311.10 MIN 1307.52
CAL YR 1975 MEAN 1308.21 MAX 1309.26 MIN 1307.44

Note.--No gage-height record July 13 to Aug. 24.

ALLEGHENY RIVER BASIN

03014500 CHADAKOIN RIVER AT FALCONER, NY

LOCATION.--Lat 42°06'45", long 79°12'15", Chautauqua County, Hydrologic Unit 05010002, on left bank 10 ft (3 m) downstream from South Dow Street Bridge in Falconer, 2.1 mi (3.4 km) upstream from mouth, and 6 mi (10 km) downstream from Chautauqua Lake.

DRAINAGE AREA.--194 mi² (502 km²).

PERIOD OF RECORD.--October 1934 to current year.

REVISED RECORDS.--WSP 803: 1936(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,256.41 ft (382.954 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Chautauqua Lake (see station 03013990). Diurnal fluctuation caused by mills upstream from station. Monthly figures for 1951-66 water years adjusted for regulation.

AVERAGE DISCHARGE.--41 years (1935-76), 342 ft³/s (9.685 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,070 ft³/s (58.6 m³/s) Mar. 5, 1976, gage height, 4.67 ft (1.423 m); minimum, 2.7 ft³/s (0.076 m³/s) Nov. 20, 21, 1960, gage height, 0.15 ft (0.046 m); minimum daily, 3.0 ft³/s (0.085 m³/s) Nov. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,070 ft³/s (58.6 m³/s) Mar. 5, gage height, 4.67 ft (1.423 m); minimum, 23 ft³/s (0.65 m³/s) July 12, gage height, 0.47 ft (0.143 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	480	295	720	660	1390	800	165	138	138	94	84
2	111	460	335	710	605	1480	800	165	141	92	200	69
3	114	235	340	725	535	1750	800	165	141	65	266	69
4	89	97	335	720	540	1810	800	165	117	65	186	67
5	69	97	335	715	590	1970	680	165	71	63	114	69
6	69	94	550	700	595	2020	520	172	67	63	108	69
7	67	172	695	695	585	1980	520	244	67	65	105	67
8	65	470	545	695	545	1920	520	280	65	67	102	67
9	67	465	485	635	540	1760	520	275	87	69	325	67
10	63	480	490	550	535	1670	520	172	97	55	360	75
11	63	470	485	545	560	1620	520	126	84	48	114	77
12	61	465	480	560	550	1480	520	120	73	48	111	61
13	61	460	480	605	565	1510	400	162	73	57	126	59
14	61	460	480	635	585	1400	190	186	87	48	111	57
15	67	460	540	625	595	1340	230	186	87	73	114	55
16	61	455	690	625	665	1290	270	186	92	50	111	67
17	94	450	735	625	905	1270	280	305	84	48	111	94
18	262	445	745	615	1170	1090	280	545	79	47	111	186
19	485	440	390	610	1370	1160	169	680	73	47	132	285
20	785	350	480	610	1330	1150	73	740	69	61	114	365
21	395	105	485	605	1220	1230	73	765	87	99	123	565
22	105	99	530	605	1450	1170	94	750	75	67	120	735
23	105	97	580	600	1490	1110	82	740	73	77	123	690
24	440	97	580	595	1430	1070	84	390	79	79	120	685
25	700	97	575	590	1420	1050	99	162	102	77	120	620
26	695	97	595	615	1420	985	123	150	99	79	120	575
27	420	150	605	680	1400	950	169	144	73	77	120	580
28	200	189	600	685	1380	960	165	141	97	77	135	480
29	200	189	600	680	1420	860	165	138	111	126	114	295
30	350	200	610	680	---	820	165	138	135	172	111	295
31	450	---	665	670	---	820	---	138	---	114	108	---
TOTAL	6879	8825	16335	19925	26655	42085	10631	8860	2723	2313	4329	7529
MEAN	222	294	527	643	919	1358	354	286	90.8	74.6	140	251
MAX	785	480	745	725	1490	2020	800	765	141	172	360	735
MIN	61	94	295	545	535	820	73	120	65	47	94	55

CAL YR 1975 TOTAL 153836 MEAN 421 MAX 1140 MIN 40
WTR YR 1976 TOTAL 157089 MEAN 429 MAX 2020 MIN 47

ALLEGHENY RIVER BASIN

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Lakes and reservoirs in Allegheny River basin

03012520 ALLEGHENY RESERVOIR.--Lat 41°50'17", long 79°00'15", Warren County, PA, Hydrologic Unit 05010001, in Allegheny National Forest, at control house at Kinzua Dam on Allegheny River, 3 mi (5 km) upstream from Hemlock Run, and 7 mi (11 km) east of Warren. DRAINAGE AREA, 2,180 mi² (5,646 km²). PERIOD OF RECORD, October 1965 to current year. Prior to October 1966 published as Allegheny River Reservoir. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by a concrete gravity dam with a gated spillway and with an earthfill section, rock-faced, at right side. Storage began during construction and reservoir acted as retention basin from October 1965 to December 1966. Dam became operational in January 1967. Reservoir first reached minimum pool elevation during period of construction. Capacity, 1,180,000 acre-ft (1,450 hm³) between elevations 1,205.0 ft or 367.28 m (invert of low level sluices) and 1,365.0 ft or 416.05 m (full pool). Dead storage is 128 acre-ft (158,000 m³). Minimum pool elevation, 1,240 ft or 378.0 m (capacity, 24,240 acre-ft or 29.9 hm³). Winter low-water pool elevation, 1,292 ft or 393.8 m (capacity, 239.780 acre-ft or 296 hm³). Summer low-water pool elevation, 1,328 ft or 404.8 m (capacity, 572,610 acre-ft or 706 hm³). Storage to summer pool normally occurs during period April to May. Depletion of low-water storage for augmenting flow in Allegheny River normally occurs during period July to December. Figures given herein represent total contents. Reservoir is used for flood control, low-flow augmentation and water-quality control of Allegheny River and downstream rivers, power generation, and recreation. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 1,121,120 acre-ft (1,380 hm³) June 27, 1972 (elevation, 1,362.20 ft or 415.199 m); minimum (after first filling), 113,310 acre-ft (140 hm³) Jan. 26, 1968 (elevation, 1,268.68 ft or 386.694 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 876,990 acre-ft (1,080 hm³) Feb. 23 (elevation, 1,349.17 ft or 411.227 m); minimum, 322,670 acre-ft (398 hm³) Jan. 12 (elevation, 1,303.19 ft or 397.212 m).

03013946 Chautauqua Lake at Bemus Point, NY (see station for daily mean stages).

03013990 Chautauqua Lake near Mayville, NY (see station for daily mean stages).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre- feet)	Change in contents (equivalent in ft ³ /s)
<u>03012520 Allegheny Reservoir</u>			
Sept. 30	1,326.99	560,510	-----
Oct. 31	1,314.20	422,330	-2,250
Nov. 30	1,310.50	386,950	- 595
Dec. 31	1,306.90	354,370	- 530
CAL YR 1975	-	-	+ 1.4
Jan. 31	1,317.61	456,740	+1,660
Feb. 29	1,344.28	796,360	+5,900
Mar. 31	1,317.55	456,120	-5,530
Apr. 30	1,331.80	619,920	+2,750
May 31	1,328.75	581,740	- 621
June 30	1,328.50	578,690	- 51.3
July 31	1,327.52	566,860	- 192
Aug. 31	1,322.99	514,450	- 852
Sept. 30	1,319.19	473,230	- 693
WTR YR 1976	-	-	- 120

STREAMS TRIBUTARY TO LAKE ERIE

04213440 FRANKS CREEK NEAR WEST VALLEY, NY

LOCATION.--Lat 42°26'59", long 78°38'56", Cattaraugus County, Hydrologic Unit 04120102, on left bank near eastern perimeter of Nuclear Fuels Service, Inc. compound, 0.2 mi (0.3 km) upstream from unnamed tributary, 1.1 mi (1.8 km) upstream from mouth, and 3.4 mi (5.6 km) northwest of West Valley.

DRAINAGE AREA.--0.28 mi² (0.73 km²).

PERIOD OF RECORD.--December 1975 to September 1976.

GAGE.--Water-stage recorder. Altitude of gage is 1,340 ft (408 m), from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

EXTREMES FOR DECEMBER 1975 TO SEPTEMBER 1976.--Peak discharges above base of 15 ft³/s (0.42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 14	0545	+15	0.42	Mar. 3	0530	21	0.59
Jan. 26	1345	+20	.57	Apr. 25	1030	15	.42
Feb. 16	2330	*+33	.93	July 21	0745	25	.71
Feb. 21	1515	20	.57				

† About.

‡ Backwater from ice.

No flow, many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			3.0	.81	.57	4.2	2.0	.39	.57	1.3	3.6	0
2			1.5	.46	.52	8.9	.85	.44	.26	.67	.57	0
3			.90	2.7	.42	8.7	.62	.52	.09	.20	.32	0
4			.90	1.0	.30	6.7	.52	.39	.05	.13	.23	0
5			1.1	.70	.27	3.0	.39	.26	.04	.08	.17	0
6			3.3	.66	.25	1.2	.29	.20	.03	.06	1.0	0
7			.97	.61	.23	.79	.26	1.0	.15	.08	.32	0
8			.49	.58	.23	.62	.23	.92	.04	.57	.29	0
9			1.4	.54	.21	.48	.23	.39	.02	.15	.20	0
10			2.0	.40	.40	.48	.20	.26	.02	.05	.15	0
11			.98	.38	7.7	.52	.23	1.2	.01	.05	.09	.32
12			.69	.38	1.4	.36	.20	.79	0	.05	.08	.05
13			1.8	.40	3.6	.79	.17	.39	0	.15	.09	.01
14			2.6	7.6	2.0	.92	.15	.32	0	.06	.08	0
15			5.0	2.1	1.9	.62	.15	.29	0	.36	.36	0
16			1.6	1.0	8.5	.39	.17	.36	0	.09	.09	0
17			.86	.90	11	.48	.11	1.2	.08	.05	.05	.67
18			.69	.80	7.0	.48	.08	3.3	.01	.02	.03	1.4
19			.63	.70	3.3	3.9	.06	4.0	0	.01	.02	.17
20			.56	.60	1.1	1.2	.06	3.1	.05	0	.01	.13
21			.45	.50	5.6	3.9	.26	1.2	.13	6.0	.01	.36
22			.40	.42	4.8	1.2	2.4	.57	.13	.57	0	.44
23			.38	.36	1.0	.67	1.2	.36	.03	.23	0	.39
24			.31	.38	.90	.44	1.2	.29	.03	.23	0	.17
25			.40	.34	.80	.67	8.2	.29	.26	.08	0	.09
26			1.6	10	.76	.44	3.3	.29	.03	.05	0	.85
27			1.4	9.0	.74	1.1	1.9	.23	0	.05	0	1.8
28			.54	2.5	.51	.73	1.5	.15	0	.05	0	.52
29			.40	1.2	1.9	.44	.67	.11	2.0	3.9	0	.23
30			1.7	.81	---	.32	.44	.11	2.1	1.9	0	.15
31			2.8	.66	---	1.5	---	.15	---	4.7	0	---
TOTAL			41.35	49.49	67.91	56.14	28.04	23.47	6.13	21.89	7.76	7.75
MEAN			1.33	1.60	2.34	1.81	.93	.76	.20	.71	.25	.26
MAX			5.0	10	11	8.9	8.2	4.0	2.1	6.0	3.6	1.8
MIN			.31	.34	.21	.32	.06	.11	0	0	0	0
CFSM			4.73	5.69	8.33	6.44	3.31	2.70	.71	2.53	.89	.93
IN.			5.45	6.53	8.96	7.41	3.70	3.10	.81	2.89	1.02	1.02

STREAMS TRIBUTARY TO LAKE ERIE

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04213500 CATTARAUGUS CREEK AT GOWANDA, NY

LOCATION.--Lat 42°27'50", long 78°56'10", Erie County, Hydrologic Unit 04120102, on right bank 380 ft (116 m) downstream from bridge on State Highways 39 and 62 at Gowanda, and 4.2 mi (6.8 km) downstream from South Branch. Water-quality sampling site at discharge station.

DRAINAGE AREA.--432 mi² (1,119 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1939 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1971: 1956(M). WRD NY 1974: 1940-42 (M, P).

GAGE.--Water-stage recorder. Datum of gage is 738.85 ft (225.201 m) above mean sea level. Prior to Oct. 1, 1969, at datum 0.11 ft (0.034 m) lower.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by several industrial plants upstream from station. Diurnal fluctuation at low and medium flow caused by industrial plants at Gowanda and by powerplant 20 mi (32 km) upstream from station.

AVERAGE DISCHARGE.--36 years (1940-76), 723 ft³/s (20.48 m³/s), 22.73 in/yr (577 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,600 ft³/s (980 m³/s) Mar. 7, 1956, gage height, 14.14 ft (4.310 m); minimum, about 6 ft³/s (0.17 m³/s) Aug. 21, 1941, result of regulation; minimum gage height, 0.90 ft (0.274 m) Oct. 26, 1951; minimum daily discharge, 52 ft³/s (1.47 m³/s) Sept. 13, 1945, Aug. 1, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,000 ft³/s (227 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 17	0600	*19,000 538	*10.69 3.258	Mar. 3	0800	14,900 422	9.55 2.911
Feb. 22	0800	10,800 306	8.20 2.499				

Minimum discharge, 137 ft³/s (3.88 m³/s) Sept. 9, 10, gage height, 1.51 ft (0.460 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	183	1760	1110	760	5130	1730	773	482	717	3260	155
2	263	208	888	657	580	6020	1260	773	580	437	1010	157
3	227	219	632	982	480	12400	1090	741	395	316	593	155
4	196	402	496	678	540	7250	889	733	332	269	437	150
5	178	318	484	596	490	4730	765	620	304	242	356	157
6	168	249	1850	540	470	2600	686	541	292	246	1160	152
7	154	220	1490	520	450	1900	620	741	361	296	664	150
8	151	229	743	480	460	1510	573	873	356	351	620	144
9	154	214	628	420	470	1200	541	642	289	372	554	137
10	181	481	939	420	491	1200	508	548	265	246	419	152
11	164	791	777	480	1740	1100	522	709	250	413	340	277
12	161	434	669	500	1530	1000	495	1060	239	356	292	265
13	161	394	636	520	1760	980	475	694	218	367	289	180
14	174	418	1910	1530	1960	940	443	548	211	312	316	155
15	168	377	3790	1120	1460	900	495	502	205	372	450	150
16	284	397	2550	958	5900	840	600	554	211	361	340	148
17	251	362	1270	660	14100	800	535	1530	269	289	269	606
18	1830	314	923	540	8020	760	450	2420	218	246	235	1390
19	850	283	640	500	8230	1500	407	1820	208	211	218	419
20	633	261	580	470	3180	2310	384	2890	296	194	202	273
21	485	295	540	450	4270	2420	361	1470	289	1700	197	407
22	375	354	500	430	8630	2020	1270	967	469	642	191	401
23	308	317	470	390	3040	1280	1250	790	332	351	180	340
24	261	285	420	450	2070	1070	865	664	257	320	178	300
25	244	264	480	500	2140	1000	3470	606	372	261	172	239
26	232	259	660	1520	2270	915	3620	649	332	225	172	242
27	224	306	960	3240	2760	949	1880	671	242	205	180	941
28	210	376	740	1850	1930	1250	1690	529	218	202	175	613
29	204	341	600	1300	1560	906	1230	450	281	1470	175	389
30	204	461	686	988	---	782	923	413	679	3180	165	304
31	185	---	1800	700	---	949	---	407	---	1160	157	---
TOTAL	9461	10012	31511	25499	81741	68611	30027	27328	9452	16329	13966	9548
MEAN	305	334	1016	823	2819	2213	1001	882	315	527	451	318
MAX	1830	791	3790	3240	14100	12400	3620	2890	679	3180	3260	1390
MIN	151	183	420	390	450	760	361	407	205	194	157	137
CFSM	.71	.77	2.35	1.91	6.53	5.12	2.32	2.04	.73	1.22	1.04	.74
IN.	.81	.86	2.71	2.20	7.04	5.91	2.59	2.35	.81	1.41	1.20	.82

CAL YR 1975	TOTAL	291886	MEAN 800	MAX	10300	MIN 114	CFSM 1.85	IN 25.13
WTR YR 1976	TOTAL	333485	MEAN 911	MAX	14100	MIN 137	CFSM 2.11	IN 28.72

STREAMS TRIBUTARY TO LAKE ERIE

04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1972 to current year.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)
OCT 21...	430	8.0	13.0	25	8.1	76	12	--	--	--
NOV 19...	260	8.1	10.0	4	10.2	90	7	52	9.4	11
DEC 16...	2250	7.5	3.0	130	11.2	83	23	--	--	--
JAN 19...	480	8.1	.0	15	12.1	83	7	--	--	--
FEB 24...	1700	7.7	1.0	65	13.0	90	10	41	6.2	4.7
MAR 30...	660	7.8	11.0	25	9.4	86	8	--	--	--
APR 21...	300	7.3	18.0	3	8.2	87	9	--	--	--
MAY 25...	510	8.2	13.0	4	10.2	96	10	44	7.3	6.4
JUL 21...	3700	7.4	16.0	2300	8.6	87	490	--	--	--

DATE	TOTAL PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT 21...	--	--	--	--	--	--	206	.28	42
NOV 19...	1.7	155	0	127	33	16	182	.25	8
DEC 16...	--	--	--	--	--	--	130	.18	290
JAN 19...	--	--	--	--	--	--	220	.30	26
FEB 24...	1.4	97	0	80	23	8.8	143	.19	121
MAR 30...	--	--	--	--	--	--	175	.24	44
APR 21...	--	--	--	--	--	--	210	.29	8
MAY 25...	1.3	137	0	112	27	11	203	.28	9
JUL 21...	--	--	--	--	--	--	185	.25	148

STREAMS TRIBUTARY TO LAKE ERIE

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04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
OCT 21...	.55	.17	.33	.50	1.1	.05	1	0	90
NOV 19...	.59	.25	.19	.44	1.0	.01	0	0	0
DEC 16...	.86	.02	.72	.74	1.6	.20	3	2	10
JAN 19...	1.3	.12	.19	.31	1.6	.04	1	1	30
FEB 24...	1.7	.04	.57	.61	2.3	.10	3	1	10
MAR 30...	1.6	.09	.44	.53	2.1	.05	0	1	60
APR 21...	1.4	.26	.29	.55	2.0	.02	0	0	80
MAY 25...	.84	.11	.37	.48	1.3	.03	0	0	20
JUL 21...	.70	.12	6.3	6.4	7.1	3.3	120	10	110

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	CHLORO- PHYLL A (UG/L)	CHLORO- PHYLL B (UG/L)
OCT 21...	10	1400	4	<.5	20	5.6	0	.000	.000
NOV 19...	10	440	1	<.5	20	2.3	0	.000	.000
DEC 16...	10	11000	17	<.5	60	5.1	3	.000	.000
JAN 19...	10	1000	3	<.5	10	2.2	0	.000	.000
FEB 24...	10	4100	7	<.5	20	2.2	1	.000	.000
MAR 30...	0	1600	4	<.5	20	2.4	1	.000	.000
APR 21...	0	310	4	<.5	20	4.3	0	--	--
MAY 25...	0	380	3	<.5	0	2.2	1	.000	.000
JUL 21...	180	90000	130	<.5	590	35	0	--	--

STREAMS TRIBUTARY TO LAKE ERIE

04214020 CATTARAUGUS CREEK AT IRVING, NY

LOCATION.--Lat 42°34'12", long 79°06'45", at Chautauqua-Erie County line, Hydrologic Unit 04120102, at bridge on Buffalo Road in Irving, 0.4 mi (0.6 km) downstream from bridge on U.S. Highway 20 and State Highway 5, and 1.5 mi (2.4 km) upstream from mouth.

DRAINAGE AREA.--554 mi² (1,435 km²) at mouth.

PERIOD OF RECORD.--Water years 1972 to current year.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG)	TOTAL SODIUM (NA) (MG/L)	TOTAL POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT 21...	684	7.6	13.0	25	8.7	82	12	--	--	--	--	--
NOV 19...	350	7.9	10.5	4	10.1	89	8	51	9.6	9.8	2.0	157
DEC 16...	2800	7.6	3.5	160	10.8	80	26	--	--	--	--	--
JAN 19...	600	7.5	.0	7	11.7	80	6	--	--	--	--	--
FEB 24...	2100	7.4	1.0	70	12.8	91	12	40	6.5	5.6	1.5	100
MAR 30...	1000	7.6	11.0	20	8.8	81	8	--	--	--	--	--
APR 21...	400	7.3	17.5	1	8.1	85	6	--	--	--	--	--
MAY 25...	840	8.0	13.5	3	9.8	92	10	49	7.8	7.0	1.3	140
JUL 21...	4600	7.2	18.0	300	9.0	95	100	--	--	--	--	--
DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT 21...	--	--	--	--	203	.28	4	.53	.09	.42	.51	1.0
NOV 19...	0	129	35	16	191	.26	5	.55	.10	.17	.27	.82
DEC 16...	--	--	--	--	140	.19	344	.84	.03	.82	.85	1.7
JAN 19...	--	--	--	--	225	.31	16	1.2	.12	.22	.34	1.5
FEB 24...	0	82	27	12	165	.22	148	1.6	.05	.43	.48	2.1
MAR 30...	--	--	--	--	183	.25	48	1.4	.08	.35	.43	1.8
APR 21...	--	--	--	--	199	.27	4	1.2	.10	.20	.30	1.5
MAY 25...	0	115	.3	.3	201	.27	16	.83	.04	.24	.28	1.1
JUL 21...	--	--	--	--	195	.27	61	.73	.01	2.3	2.3	3.0
DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)	CHLORO-PHYLL A (UG/L)	CHLORO-PHYLL B (UG/L)
OCT 21...	.05	1	0	0	1500	3	<.5	20	3.4	0	.000	.000
NOV 19...	.01	0	0	10	300	2	<.5	10	2.1	0	.000	.000
DEC 16...	.19	3	1	10	9500	8	<.5	30	5.8	2	.000	.000
JAN 19...	.04	1	0	10	560	0	<.5	10	2.2	0	.000	.000
FEB 24...	.11	2	0	10	4600	6	<.5	20	2.5	0	.000	.000
MAR 30...	.04	0	0	10	1600	5	<.5	10	2.0	0	.000	.000
APR 21...	.02	0	0	10	450	3	<.5	20	2.0	0	--	--
MAY 25...	.03	0	0	0	590	4	<.5	10	3.0	0	.000	.000
JUL 21...	.60	18	2	30	28000	36	<.5	110	6.0	0	26.6	11.2

STREAMS TRIBUTARY TO LAKE ERIE

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04214500 BUFFALO CREEK AT GARDENVILLE, NY

LOCATION.--Lat 42°51'16", long 78°45'22", Erie County, Hydrologic Unit 04120103, on left bank 300 ft (91 m) downstream from bridge on Union Road in Gardenville, and 2 mi (3 km) upstream from Cayuga Creek.

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1337: 1939-52. WSP 1912: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.04 ft (184.111 m) above mean sea level, unadjusted. Prior to Sept. 26, 1968, water-stage recorder at site 400 ft (122 m) downstream at same datum.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--38 years, 192 ft³/s (5.437 m³/s), 18.11 in/yr (460 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Mar. 1, 1955, Mar. 7, 1956, from rating curve extended above 3,200 ft³/s (90.6 m³/s) on basis of slope-area measurement at gage height 7.07 ft (2.155 m); maximum gage height, 14.11 ft (4.301 m) Feb. 16, 1976 (ice jam); minimum discharge, 0.2 ft³/s (0.006 m³/s) Sept. 1, 1964, gage height, 0.81 ft (0.247 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,200 ft³/s (119 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 16	0800	ice jam	*14.11 4.301	Mar. 3	1530	*9,630 273	8.38 2.554
Feb. 17	0830	5,540 157	6.57 2.003	July 30	0200	5,980 169	6.78 2.067
Feb. 22	0900	6,280 178	6.92 2.109				

Minimum discharge, 20 ft³/s (0.57 m³/s) Oct. 8, 9, July 27-29; minimum gage height, 1.01 ft (0.308 m) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	33	484	400	170	933	630	153	234	94	1360	29
2	30	40	243	160	150	1340	320	153	555	71	247	32
3	28	75	199	190	140	6060	235	147	148	53	128	29
4	28	355	149	170	130	3810	179	136	97	43	90	27
5	26	161	170	150	120	1560	149	118	76	38	72	30
6	25	98	1540	140	110	574	125	104	65	33	78	27
7	22	75	646	140	100	365	114	297	111	31	76	26
8	21	89	202	120	100	260	102	307	110	55	82	25
9	21	114	189	100	180	220	96	158	67	49	92	23
10	24	451	678	100	310	250	89	121	54	35	70	26
11	26	518	360	120	420	230	98	153	48	862	58	42
12	25	152	247	140	540	200	107	430	42	195	50	74
13	26	107	202	150	760	280	102	213	39	121	254	43
14	31	94	726	260	960	220	92	139	36	96	179	32
15	36	87	1370	230	1300	200	94	123	55	128	176	29
16	30	87	798	200	2600	170	123	128	48	110	134	26
17	44	78	300	160	3600	140	123	320	64	74	76	32
18	275	64	210	140	2080	140	89	881	55	55	58	65
19	173	58	100	160	2090	489	75	457	49	41	48	115
20	100	53	140	170	588	702	70	1380	43	34	43	65
21	78	64	140	150	1150	536	65	311	50	33	39	72
22	62	152	140	120	3670	425	170	199	238	37	37	80
23	50	120	130	94	616	235	247	155	101	30	34	61
24	43	92	120	100	405	199	155	126	62	29	32	70
25	39	78	120	130	462	170	1600	114	158	26	31	51
26	36	75	130	310	385	176	1580	150	131	22	30	54
27	35	98	130	1700	500	189	560	182	65	20	29	342
28	34	109	130	800	320	340	567	119	46	20	30	217
29	34	92	140	420	263	192	291	94	46	526	39	103
30	34	87	160	330	---	155	190	83	65	1750	37	70
31	33	---	1100	250	---	219	---	85	---	240	30	---
TOTAL	1501	3756	11393	7804	24219	20979	8437	7536	2958	4951	3739	1917
MEAN	48.4	125	368	252	835	677	281	243	98.6	160	121	63.9
MAX	275	518	1540	1700	3670	6060	1600	1380	555	1750	1360	342
MIN	21	33	100	94	100	140	65	83	36	20	29	23
CFSM	.34	.87	2.56	1.75	5.80	4.70	1.95	1.69	.68	1.11	.84	.44
IN.	.39	.97	2.94	2.02	6.26	5.42	2.18	1.95	.76	1.28	.97	.50
CAL YR 1975	TOTAL	79725	MEAN 218	MAX 3760	MIN 14	CFSM 1.51	IN 20.60					
WTR YR 1976	TOTAL	99190	MEAN 271	MAX 6060	MIN 20	CFSM 1.88	IN 25.62					

STREAMS TRIBUTARY TO LAKE ERIE

04215000 CAYUGA CREEK NEAR LANCASTER, NY

LOCATION.--Lat 42°53'24", long 78°38'45", Erie County, Hydrologic Unit 04120103, on right bank 150 ft (46 m) upstream from low dam in Como Lake Park, 700 ft (210 m) downstream from bridge on Bowen Road, 800 ft (240 m) downstream from Little Buffalo Creek, and 2 mi (3.2 km) southeast of Lancaster.

DRAINAGE AREA.--94.9 mi² (246 km²).

PERIOD OF RECORD.--September 1938 to September 1968. October 1971 to April 1974 (peak discharges only). May 1974 to current year.

GAGE.--Water-stage recorder and low concrete dam as control. Datum of gage is 672.80 ft (205.069 m) above mean sea level, unadjusted.

REMARKS.--Records fair except those for winter periods, which are poor. Since August 1962, undetermined amount of flow diverted by Lancaster Country Club for irrigation upstream from station. Concrete dam configuration modified in September 1974 resulting in a lower point of zero flow.

AVERAGE DISCHARGE.--32 years (1938-68, 1975-76) 124 ft³/s (3.512 m³/s), 17.74 in/yr (451 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,800 ft³/s (249 m³/s) June 23, 1972, gage height, 10.09 ft (3.075 m); maximum gage height, 12.58 ft (3.834 m) Mar. 30, 1960 (ice jam); practically no flow part of Aug. 8, 9, 1939, when stoplogs were installed in the dam.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,800 ft³/s (79.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	0530	ice jam	*9.68 2.950	Mar. 4	1200	4,190 119	7.47 2.277
Feb. 22	0730	1,280 121	7.52 2.292	July 11	1015	*4,980 141	7.88 2.402

Minimum discharge, 7.5 ft³/s (0.21 m³/s) Sept. 10, gage height, 2.75 ft (0.838 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	22	349	340	120	439	465	105	217	107	428	11
2	28	31	208	150	100	429	214	108	315	54	123	18
3	26	95	177	240	92	2560	169	101	105	32	59	15
4	23	367	144	170	84	3060	132	93	62	26	39	11
5	21	164	167	110	76	811	103	74	45	21	30	11
6	19	93	1190	96	70	293	85	63	37	17	38	10
7	17	69	450	98	68	200	73	301	85	15	45	9.4
8	16	98	176	82	68	169	64	200	65	30	59	8.7
9	16	170	182	64	68	183	58	113	34	26	59	8.1
10	16	486	597	66	100	191	55	79	29	17	37	9.0
11	16	429	302	82	380	169	68	132	24	1990	27	13
12	21	156	212	90	360	197	78	320	23	405	22	28
13	21	115	196	100	450	239	79	146	18	207	637	15
14	30	99	546	500	500	197	61	93	18	128	183	11
15	31	87	903	440	780	156	94	90	37	93	271	9.0
16	26	84	507	260	1100	100	161	84	31	69	124	8.7
17	25	78	232	170	1300	98	101	183	33	63	64	14
18	366	66	160	130	1100	120	65	422	24	44	42	217
19	166	58	86	96	1230	450	51	330	21	33	31	200
20	100	52	92	110	380	600	43	1020	20	27	25	55
21	71	64	92	100	729	440	39	203	23	28	21	76
22	53	178	92	92	2270	360	110	136	84	27	19	53
23	41	146	90	74	330	170	174	106	45	21	17	60
24	33	111	80	80	280	140	126	85	29	22	15	56
25	29	96	84	82	308	110	1190	74	119	19	13	30
26	27	86	90	150	244	114	1010	158	73	15	12	51
27	28	118	88	1000	263	130	377	141	63	15	12	598
28	25	130	90	500	192	228	361	79	45	14	12	194
29	24	88	98	300	206	136	188	55	29	366	17	94
30	26	82	100	200	---	110	132	46	38	411	15	58
31	23	---	600	150	---	243	---	52	---	117	11	---
TOTAL	1395	3918	8380	6122	13248	12842	5926	5192	1791	4459	2507	1951.9
MEAN	45.0	131	270	197	457	414	198	167	59.7	144	80.9	65.1
MAX	366	486	1190	1000	2270	3060	1190	1020	315	1990	637	598
MIN	16	22	80	64	68	98	39	46	18	14	11	8.1
CFSM	.47	1.38	2.85	2.08	4.82	4.36	2.09	1.76	.63	1.52	.85	.69
IN.	.55	1.54	3.28	2.40	5.19	5.03	2.32	2.04	.70	1.75	.98	.77

CAL YR 1975 TOTAL 60609.3 MEAN 166 MAX 3090 MIN 5.4 CFSM 1.75 IN 23.76
WTR YR 1976 TOTAL 67731.9 MEAN 185 MAX 3060 MIN 8.1 CFSM 1.95 IN 26.55

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DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	30	620	400	200	1300	875	181	152	115	1340	20
2	30	37	275	210	160	1840	502	177	200	74	280	24
3	28	134	227	340	140	5930	338	177	99	51	137	19
4	26	471	181	250	130	3500	246	162	71	39	92	18
5	25	181	223	160	120	1630	201	137	59	34	67	18
6	24	106	1850	130	110	696	169	121	52	29	74	1
7	23	82	670	130	100	430	147	370	66	27	61	17
8	22	103	260	110	100	338	131	294	68	39	59	17
9	22	115	232	90	100	260	118	177	49	46	55	17
10	23	614	664	90	180	284	109	137	44	33	47	22
11	24	519	343	110	500	308	124	303	41	74	41	57
12	23	177	241	120	580	241	124	589	38	47	35	55
13	25	127	223	150	760	353	124	246	35	38	173	29
14	27	131	762	900	900	240	103	169	38	41	74	22
15	25	118	1610	760	1100	210	112	158	63	51	137	20
16	30	131	811	450	1900	160	127	177	46	53	131	19
17	49	127	340	250	2700	160	147	696	51	38	65	35
18	453	92	170	180	2100	170	109	1130	51	31	44	106
19	181	77	140	140	2400	525	89	651	53	26	35	61
20	103	70	130	160	749	722	79	1410	42	23	30	41
21	87	95	130	150	1420	776	74	405	46	25	28	61
22	63	197	130	130	4200	508	181	248	189	38	25	53
23	49	121	120	100	797	289	241	192	70	28	23	44
24	41	92	110	110	514	241	177	155	44	35	22	49
25	39	79	110	160	571	227	1810	138	137	25	20	35
26	35	79	120	1500	589	227	1650	137	118	20	20	82
27	33	92	120	1800	942	255	620	145	55	19	20	402
28	31	112	120	1100	489	471	651	111	39	18	24	165
29	31	109	130	600	353	232	354	90	39	1520	35	79
30	31	112	140	400	---	189	227	81	65	1410	27	51
31	30	---	700	260	---	348	---	91	---	542	21	---
TOTAL	1664	4530	11902	11440	24904	23060	9959	9255	2120	4589	3242	1656
MEAN	53.7	151	384	369	859	744	332	299	70.7	148	105	55.2
MAX	453	614	1850	1800	4200	5930	1810	1410	200	1520	1340	402
MIN	22	30	110	90	100	160	74	81	35	18	20	17
CFSM	.40	1.13	2.87	2.75	6.41	5.55	2.48	2.23	.53	1.10	.78	.41
IN.	.46	1.26	3.30	3.18	6.91	6.40	2.76	2.57	.59	1.27	.90	.46
CAL YR 1975	TOTAL	188133	MEAN 241	MAX 4350	MIN 15	CFSM 1.80	IN 24.47					
WTR YR 1976	TOTAL	108321	MEAN 296	MAX 5930	MIN 17	CFSM 2.21	IN 30.07					

LOCATION.--Lat 42°52'39", long 78°53'26", Erie County, Hydrologic Unit 04120200, near outer end of Buffalo River South Pier, at Buffalo.

REVISID RECORDS.--WRD NY 1975. 1974.

GAGE.--Water-stage recorder. Elevations are in feet above mean water level at Father Point, Quebec, International Great Lakes Datum (1955). Prior to Feb. 5, 1899, nonrecording gages.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 579.09 ft (176.507 m) Nov. 3, 1955; minimum, 564.17 ft (171.959 m) Mar. 10, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 578.84 ft (176.430 m) Nov. 10; minimum elevation, 569.56 ft (173.602 m) Oct. 18.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	572.47	572.68	573.66	571.42	571.65	571.50	572.89	572.76	572.64	573.41	572.63	572.62
2	572.19	571.93	572.14	571.64	572.18	570.96	572.96	573.02	572.57	573.16	572.58	571.97
3	572.91	572.08	571.86	572.80	571.48	572.03	572.74	573.57	572.58	572.96	572.60	572.20
4	572.28	572.12	571.28	573.05	571.63	572.32	572.44	573.11	572.63	572.69	572.61	572.65
5	572.17	571.89	571.67	572.06	571.19	573.49	572.95	573.15	572.66	572.75	572.87	572.21
6	572.50	571.80	571.49	571.99	571.51	573.30	572.87	572.40	572.85	572.71	572.32	572.13
7	571.94	571.85	570.94	571.79	571.79	573.42	572.73	572.66	572.91	572.76	571.87	572.26
8	571.74	571.94	571.29	571.95	571.85	572.70	572.71	573.13	572.82	572.86	572.52	572.26
9	571.95	571.71	571.53	573.13	571.32	572.41	572.76	573.04	572.79	572.65	572.56	572.08
10	572.19	573.89	572.18	571.97	571.38	572.79	572.94	572.87	572.75	572.86	572.69	572.78
11	572.38	571.98	571.55	572.02	571.66	572.66	572.81	572.96	573.00	573.13	572.53	572.53
12	572.13	572.09	570.84	572.02	571.37	572.42	572.90	573.00	572.33	573.09	572.75	572.25
13	572.14	571.84	571.48	571.50	571.39	573.86	572.86	572.70	572.65	573.02	572.85	572.14
14	572.14	572.02	571.81	573.17	571.30	573.08	572.69	572.88	572.76	572.74	572.49	572.06
15	572.42	572.53	571.77	571.95	571.53	572.75	572.73	572.55	572.79	572.77	572.71	572.00
16	572.25	571.79	571.80	572.02	571.29	572.61	572.71	572.75	572.85	573.08	572.69	571.73
17	570.93	571.87	572.24	571.43	571.85	573.21	572.65	572.88	572.71	573.08	572.61	571.92
18	570.40	571.76	572.75	571.53	571.54	572.70	572.64	572.85	572.57	573.02	572.50	572.37
19	571.92	571.65	572.45	571.73	572.46	572.82	572.73	573.31	572.76	572.97	572.44	572.30
20	572.47	571.55	571.18	572.02	571.80	572.70	572.58	573.16	572.65	572.91	572.44	572.44
21	572.46	572.54	571.35	571.96	571.80	573.36	572.52	573.03	572.42	572.72	572.43	572.33
22	571.94	572.06	571.89	571.69	572.20	572.67	572.98	572.91	572.56	572.44	572.54	572.72
23	571.96	571.73	571.72	571.15	572.12	572.70	572.87	572.85	572.63	572.75	572.43	572.63
24	571.91	571.42	571.50	571.24	572.15	572.72	572.10	572.71	572.66	572.79	572.13	572.00
25	572.23	571.66	571.62	570.96	572.09	572.78	571.47	572.75	573.14	572.63	572.30	572.05
26	571.97	571.48	571.29	571.73	572.06	572.58	572.91	572.80	572.96	572.83	572.38	571.76
27	571.87	572.54	571.79	571.66	572.13	573.31	573.12	572.75	572.83	572.88	572.49	571.71
28	572.11	572.00	571.66	571.77	572.31	572.65	573.14	572.65	572.79	572.56	572.66	571.97
29	571.											

CAL YR 1975	MEAN 572.32	MAX 574.47	MIN 570.40
WTR YR 1976	MEAN 572.34	MAX 573.89	MIN 570.40

04216000 NIAGARA RIVER AT BUFFALO, NY

LOCATION.--Lat 42°52'40", long 78°53'25", Erie County, Hydrologic Unit 04120200, at head of Niagara River at Buffalo.

DRAINAGE AREA.--264,000 mi² (683,760 km²).

PERIOD OF RECORD.--January 1860 to September 1960 (monthly discharges only published in WSP 1912), October 1960 to current year. Records of January 1926 to September 1960 daily discharges available in files of U.S. Department of Commerce.

REVISED RECORDS.--WSP 1912: 1862(M), 1955 (M), 1936(M). WRD NY 1971: Drainage area.

GAGE.--Discharge determined from several powerplants at Niagara Falls and discharge over the falls. Discharge before 1926 determined from records of Corps of Engineers gages at Buffalo and Cleveland.

REMARKS.--Records do not include water diverted from Lake Michigan by Illinois and Michigan Canal during period of its operation prior to 1910 and by Chicago Sanitary and Ship Canal, which began operation in 1900, and from Lake Erie by Welland and New York State Canals before 1918. Records include water diverted into Lake Superior from Hudson Bay drainage by the Long Lake project, which began operation in July 1939, and by the Ogoki project, which began operation in July 1943. Figures of monthly mean discharge for 1860 to 1965; published in WSP 1912; are the official records of the U.S. Lake Survey, and have been coordinated with and concurred in by the counterpart Canadian agencies.

COOPERATION.--Provisional records of daily discharge furnished by Detroit District Corps of Engineers and Canada Department of the Environment.

AVERAGE DISCHARGE.--116 years, 203,000 ft³/s (5,749 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 299,000 ft³/s (8,470 m³/s) Nov. 17, 1955; minimum daily, 90,000 ft³/s (2,550 m³/s) Jan. 13, 1964. Maximum monthly mean discharge, 264,700 ft³/s (7,500 m³/s) June 1973; minimum monthly mean, 116,000 ft³/s (3,290 m³/s) February 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 280,000 ft³/s (7,930 m³/s) Mar. 7; minimum discharge, 192,000 ft³/s (5,437 m³/s) Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	239000	242000	276000	219000	224000	223000	255000	256000	247000	258000	238000	241000
2	235000	233000	233000	220000	223000	201000	261000	259000	246000	257000	238000	226000
3	247000	229000	232000	244000	225000	229000	254000	269000	247000	253000	239000	231000
4	240000	232000	217000	261000	226000	245000	243000	269000	249000	245000	238000	243000
5	233000	229000	222000	234000	216000	273000	251000	260000	228000	247000	242000	231000
6	244000	227000	227000	231000	216000	278000	263000	248000	251000	245000	231000	229000
7	228000	226000	212000	227000	221000	280000	257000	253000	253000	243000	218000	234000
8	226000	231000	215000	224000	235000	254000	253000	268000	252000	248000	234000	233000
9	226000	228000	220000	245000	220000	245000	259000	268000	250000	242000	236000	230000
10	237000	265000	232000	216000	218000	250000	264000	258000	250000	247000	237000	245000
11	237000	237000	230000	201000	224000	248000	267000	260000	252000	252000	236000	244000
12	234000	231000	211000	232000	218000	234000	262000	259000	239000	249000	240000	236000
13	233000	234000	218000	217000	222000	270000	262000	254000	245000	250000	243000	232000
14	236000	226000	227000	245000	221000	272000	262000	255000	247000	246000	237000	231000
15	239000	241000	228000	210000	221000	255000	255000	249000	246000	244000	242000	228000
16	238000	236000	228000	212000	226000	244000	265000	253000	249000	248000	240000	221000
17	211000	227000	238000	198000	232000	249000	254000	254000	247000	253000	240000	223000
18	192000	228000	243000	204000	228000	240000	256000	257000	243000	251000	237000	238000
19	227000	225000	247000	209000	245000	253000	248000	264000	247000	247000	235000	238000
20	241000	223000	224000	227000	239000	249000	245000	269000	243000	247000	236000	239000
21	244000	240000	214000	225000	236000	259000	244000	258000	239000	242000	236000	238000
22	230000	237000	222000	220000	243000	247000	256000	259000	242000	238000	237000	246000
23	229000	229000	227000	217000	232000	248000	254000	256000	241000	242000	236000	246000
24	229000	220000	222000	208000	242000	247000	242000	251000	242000	244000	227000	232000
25	239000	221000	223000	209000	238000	246000	224000	251000	253000	218000	231000	232000
26	231000	224000	216000	228000	236000	233000	260000	250000	251000	243000	233000	226000
27	228000	239000	228000	225000	237000	255000	269000	252000	248000	243000	236000	223000
28	234000	235000	226000	223000	236000	254000	268000	248000	247000	238000	240000	229000
29	226000	225000	222000	228000	236000	246000	261000	249000	247000	240000	240000	224000
30	223000	231000	228000	217000	---	240000	252000	249000	245000	238000	235000	229000
31	228000	---	224000	225000	---	246000	---	252000	---	243000	236000	---
TOTAL	7184000	6951000	7032000	6901000	6636000	7713000	7666000	7957000	7386000	7601000	7324000	7016000
MEAN	231700	231700	226800	222600	228800	248800	255500	267000	246200	256200	236300	233900
MAX	247000	265000	276000	261000	245000	280000	269000	269000	253000	258000	243000	246000
MIN	192000	220000	211000	198000	216000	201000	224000	248000	228000	218000	218000	221000
CAL YR 1975 TOTAL	86671000	MEAN	237500	MAX	278000	MIN	192000					
WTR YR 1976 TOTAL	87367000	MEAN	238700	MAX	280000	MIN	192000					

NIAGARA RIVER BASIN

04216200 SCAJAQUADA CREEK AT BUFFALO, NY

LOCATION.--Lat 42°54'41", long 78°47'48", Erie County, Hydrologic Unit 04120104, on right bank 58 ft (18 m) upstream from point where stream goes underground in concrete-lined tunnel, 86 ft (26 m) upstream from Pine Ridge Road, and 0.2 mi (0.3 km) east of boundary line of city of Buffalo.

DRAINAGE AREA.--15.9 mi² (41.2 km²).

PERIOD OF RECORD.--February 1957 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 626.26 ft (190.884 m) above mean sea level (city of Buffalo bench mark).

REMARKS.--Records good. Discharge includes flow diverted from Lake Erie and Niagara River as sewage-plant effluent entering basin upstream from station.

COOPERATION.--Town of Cheektowaga maintains records of sewage-plant discharge.

AVERAGE DISCHARGE.--19 years, 33.7 ft³/s (0.954 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft³/s (74.2 m³/s) Aug. 7, 1963, gage height, 14.38 ft (4.383 m); minimum, 4.1 ft³/s (0.12 m³/s) Sept. 27, 1959; minimum gage height, 1.49 ft (0.454 m) Sept. 2, 1957 (may have been lower during period of partially obstructed intake).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 22	0400	744 21.1	5.82 1.774	Apr. 25	1345	*848 24.0	*6.34 1.932
Mar. 4	0930	846 24.0	6.33 1.929	May 7	0715	676 19.1	5.48 1.670

Minimum discharge, 6.5 ft³/s (0.18 m³/s) Sept. 3, 6, 7, gage height, 1.58 ft (0.482 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	74	72	23	53	90	18	33	30	80	13
2	14	13	28	38	20	78	37	19	21	17	30	13
3	13	40	21	110	17	330	25	21	16	18	16	12
4	13	41	18	42	16	555	19	17	14	14	14	12
5	12	19	18	28	15	279	18	16	14	12	14	11
6	13	16	231	22	15	59	17	45	12	14	17	11
7	13	35	66	23	14	31	15	279	23	37	24	13
8	12	50	28	20	13	23	15	47	15	23	41	13
9	12	25	101	17	15	20	14	24	14	16	25	14
10	13	176	188	15	132	26	14	21	14	13	14	22
11	13	48	73	15	135	33	22	67	14	146	14	21
12	13	20	43	16	72	34	15	51	13	31	13	12
13	28	18	40	34	158	88	14	24	11	19	183	13
14	17	17	52	104	50	41	14	24	14	21	31	13
15	16	15	228	45	148	32	62	28	13	25	18	13
16	14	14	71	34	115	23	24	124	29	25	16	13
17	20	15	35	24	163	21	17	131	17	16	14	192
18	80	16	30	19	176	20	14	122	14	12	14	65
19	19	14	22	17	134	85	15	143	61	14	13	22
20	17	14	19	18	47	53	15	118	21	13	13	86
21	15	30	18	19	159	77	14	34	19	26	13	34
22	13	39	20	16	341	40	83	22	21	14	12	22
23	13	22	21	16	48	25	85	18	16	13	13	22
24	12	18	19	15	33	21	47	17	18	13	13	16
25	12	17	18	14	34	23	448	16	55	11	13	14
26	11	22	21	302	27	19	187	15	17	12	13	122
27	12	38	24	152	24	65	54	15	23	14	13	133
28	12	26	22	63	20	50	32	15	16	13	15	38
29	12	20	24	40	34	25	23	13	16	88	13	21
30	11	34	121	29	---	20	19	13	81	23	13	16
31	12	---	192	21	---	74	---	34	---	18	13	---
TOTAL	501	890	1886	1400	2198	2323	1468	1551	665	761	748	1022
MEAN	16.2	29.7	60.8	45.2	75.8	74.9	48.9	50.0	22.2	24.5	24.1	34.1
MAX	80	176	231	302	341	555	448	279	81	146	183	192
MIN	11	13	18	14	13	19	14	13	11	11	12	11
CAL YR 1975	TOTAL	13332	MEAN 36.5	MAX 1090	MIN 11							
WTR YR 1976	TOTAL	15413	MEAN 42.1	MAX 555	MIN 11							

04217000 TONAWANDA CREEK AT BATAVIA, NY

LOCATION.--Lat 42°59'51", long 78°11'20", Genesee County, Hydrologic Unit 04120104, on right bank 150 ft (46 m) downstream from municipal dam, 500 ft (152 m) upstream from bridge on Walnut Street in Batavia, and 5.0 mi (8.0 km) downstream from Little Tonawanda Creek.

DRAINAGE AREA.--171 mi² (443 km²).

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

REVISED RECORDS.--WSP 1627: 1956-57. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 876.33 ft (267.105 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair. Diversion upstream from station by city of Batavia for municipal supply; sewage, which may include water from municipal and industrial wells upstream from gage, enters creek downstream from gage.

COOPERATION.--City of Batavia maintains records of diversion.

AVERAGE DISCHARGE.--32 years, 202 ft³/s (5.721 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,200 ft³/s (204 m³/s) Mar. 31, 1960, gage height, 12.70 ft (3.871 m); maximum gage height, 13.85 ft (4.221 m) Apr. 6, 1947; minimum discharge, 0.4 ft³/s (0.011 m³/s) Aug. 5-7, 1955; minimum gage height, 0.59 ft (0.180 m) July 26, 27, 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 14.5 ft (4.42 m) in March 1942, from records of city of Batavia.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft³/s (51 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 18	0030	3,950 112	9.14 2.786	Mar. 5	0200	*5,660 160	*11.31 3.447
Feb. 19	1630	3,300 93.5	8.16 2.487	Apr. 26	1300	2,860 81.0	7.47 2.277
Feb. 22	2230	4,290 121	9.64 2.938				

Minimum discharge, 21 ft³/s (0.595 m³/s) Sept. 16, 17, gage height, 1.48 ft (0.451 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	46	265	510	220	617	548	285	204	269	558	32
2	41	48	277	270	190	597	425	265	384	193	449	44
3	40	60	227	250	160	768	333	252	227	132	215	36
4	39	219	182	230	160	4700	269	240	151	105	138	32
5	38	186	171	210	150	5130	223	208	118	90	102	31
6	37	107	572	200	140	1990	186	178	102	71	90	31
7	35	88	924	200	130	828	168	289	142	64	107	27
8	32	86	449	170	120	504	151	469	182	121	118	24
9	30	126	257	140	120	384	142	277	110	92	126	23
10	31	112	474	130	129	402	132	215	88	69	92	23
11	32	510	484	140	388	402	138	186	75	227	79	27
12	32	223	338	150	658	320	165	388	65	729	69	57
13	32	138	277	154	684	356	154	328	62	943	273	39
14	34	118	658	277	828	365	142	223	57	444	597	29
15	41	118	1210	499	868	351	129	196	67	244	397	25
16	36	112	1580	425	1320	298	219	178	62	186	285	23
17	49	95	812	324	3060	236	200	252	77	165	168	23
18	196	83	379	236	2980	227	148	440	79	129	118	86
19	285	81	200	190	3000	315	123	658	58	97	90	115
20	142	79	180	180	1600	817	110	853	62	81	73	67
21	110	79	160	160	758	695	102	1070	77	77	62	52
22	90	123	150	150	2560	689	370	444	189	86	57	64
23	75	112	140	140	2470	444	587	294	161	71	51	52
24	65	92	130	130	782	338	342	240	123	67	45	57
25	58	86	140	130	653	277	520	208	158	64	44	46
26	53	81	160	196	572	269	2280	298	204	55	40	44
27	52	86	180	674	597	240	1370	272	215	48	39	219
28	49	112	170	967	515	338	833	196	193	46	37	215
29	48	100	150	848	384	285	612	158	121	57	36	105
30	49	95	140	499	---	236	375	138	244	510	35	69
31	48	---	384	300	---	231	---	142	---	365	32	---
TOTAL	1941	3601	11820	9079	26196	23649	11496	9840	4057	5897	4622	1717
MEAN	62.6	120	381	293	903	763	383	317	135	190	149	57.2
MAX	285	510	1580	967	3060	5130	2280	1070	384	943	597	219
MIN	30	46	130	130	120	227	102	138	57	46	32	23

CAL YR 1975 TOTAL 85738.5 MEAN 235 MAX 3740 MIN 9.5
WTR YR 1976 TOTAL 113915.0 MEAN 311 MAX 5130 MIN 23

NIAGARA RIVER BASIN

04217500 TONAWANDA CREEK NEAR ALABAMA, NY

LOCATION.--Lat 43°05'28", long 78°27'15", Genesee County, Hydrologic Unit 04130001, on right bank 15 ft (5 m) downstream from bridge on Meadville Road, 0.4 mi (0.6 km) downstream from inoperable canal feeder connecting Tonawanda and Oak Orchard Creeks, 1.1 mi (1.8 km) upstream from small tributary, and 3.2 mi (5.1 km) west of Alabama.

DRAINAGE AREA.--231 mi² (598 km²).

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1974: 1973. WRD NY 1975: 1959 (P).

GAGE.--Water-stage recorder. Datum of gage is 605.93 ft (184.687 m) above mean sea level. Prior to October 1965, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--21 years, 272 ft³/s (7.703 m³/s), 15.99 in/yr (406 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft³/s (226 m³/s) Mar. 31, 1960, gage height, 14.28 ft (4.353 m); maximum gage height, 15.95 ft (4.862 m) Jan. 23, 1959 (ice jam); minimum daily, 7.7 ft³/s (0.22 m³/s) Sept. 14, 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,100 ft³/s (59.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 17	1400	†3,500 99.1	†12.79 3.898	Mar. 5	1630	*5,420 153	*13.26 4.042
Feb. 20	0400	3,250 92.0	11.75 3.581	Apr. 27	0130	3,080 87.2	11.58 3.530
Feb. 23	1200	3,870 110	12.27 3.740				

† About.

‡ Backwater from ice.

Minimum daily discharge, 29 ft³/s (0.821 m³/s) Sept. 9, 10, 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	52	141	900	360	613	659	392	198	404	664	41
2	46	53	385	540	270	835	698	334	366	338	846	56
3	45	56	275	380	240	770	461	322	345	207	350	47
4	44	112	235	330	210	2810	372	292	192	147	203	41
5	43	267	208	300	190	5110	295	256	143	119	141	39
6	42	149	409	270	170	4130	243	233	120	99	112	39
7	41	107	1060	280	170	1480	212	362	120	83	112	36
8	39	97	863	240	170	857	188	659	206	88	123	30
9	35	116	365	210	170	613	170	449	145	120	151	29
10	35	143	446	190	180	540	157	298	108	92	125	29
11	36	409	734	190	270	532	157	259	90	106	100	34
12	38	409	516	210	360	480	177	382	78	629	85	76
13	39	200	382	250	600	468	172	500	71	1220	287	50
14	43	164	586	540	800	548	170	313	67	765	908	37
15	42	143	1340	1100	1000	484	161	254	64	338	600	32
16	49	131	1740	580	1400	424	198	233	75	239	465	29
17	43	137	1390	440	3000	325	251	256	74	205	256	29
18	88	119	640	320	3500	292	191	446	87	165	168	110
19	372	103	420	260	2940	382	153	885	80	122	125	140
20	203	93	290	240	2570	902	135	1200	67	97	102	88
21	139	92	240	230	1260	1070	121	1480	73	90	87	74
22	114	109	220	210	1850	874	184	818	96	84	76	64
23	93	145	200	190	3360	688	749	427	233	85	68	67
24	79	119	190	180	1390	457	516	325	368	72	61	58
25	73	105	200	190	949	378	635	270	286	68	56	63
26	64	98	230	260	807	340	2140	270	308	62	53	58
27	58	97	250	900	729	316	2300	368	419	57	52	129
28	57	107	230	1300	729	385	1280	258	417	51	48	313
29	54	125	220	1100	536	416	955	198	223	55	45	166
30	53	112	200	680	---	313	578	167	265	343	45	102
31	53	---	620	440	---	316	---	160	---	591	40	---
TOTAL	2207	4169	15225	13450	30180	28148	14678	13066	5384	7141	6554	2106
MEAN	71.2	139	491	434	1041	908	489	421	179	230	211	70.2
MAX	372	409	1740	1300	3500	5110	2300	1480	419	1220	908	313
MIN	35	52	141	180	170	292	121	160	64	51	40	29
CFSM	.31	.60	2.13	1.88	4.51	3.93	2.12	1.82	.77	1.00	.91	.30
IN.	.36	.67	2.45	2.17	4.86	4.53	2.36	2.10	.87	1.15	1.06	.34
CAL YR 1975	TOTAL	109382	MEAN 300	MAX 3400	MIN 20	CFSM 1.30	IN 17.61					
WTR YR 1976	TOTAL	142308	MEAN 389	MAX 5110	MIN 29	CFSM 1.68	IN 22.92					

NIAGARA RIVER BASIN

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04218518 ELLICOTT CREEK BELOW WILLIAMSVILLE, NY

LOCATION.--Lat 42°58'40", long 78°45'50", Erie County, Hydrologic Unit 04120104, on right bank 15 ft (5 m) upstream from bridge on State Highway 324 (Sheridan Drive), 0.8 mi (1.3 km) upstream from sewage treatment plant, and 1.4 mi (2.3 km) northwest of Williamsville.

DRAINAGE AREA.--77.6 mi² (201 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 586.41 ft (178.738 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Regulation by intermittent pumping from stone quarry into stream upstream from station. Records at medium and high flows may be comparable with those obtained at station 04218500 between October 1955 to September 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,250 ft³/s (63.7 m³/s) Mar. 5, 1976, gage height, 8.62 ft (2.627 m); no flow for part of July 27, 1976, gage height, 0.73 ft (0.222 m), result of pipeline construction.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 18	0915	ice jam	5.48 1.670	Mar. 5	1330	*2,250 63.7	*8.62 2.627
Feb. 19	1615	1,050 29.7	5.36 1.634	Apr. 26	1615	1,350 38.2	6.24 1.902
Feb. 23	0545	1,410 39.9	6.40 1.951	July 13	0500	1,160 32.9	5.67 1.728

No flow for part of July 27, gage height, 0.73 ft (0.222 m), result of pipeline construction.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	19	121	310	130	176	392	120	57	71	330	7.2
2	22	15	193	270	110	255	400	99	84	73	543	7.2
3	21	18	131	220	90	388	194	104	57	48	195	20
4	20	51	97	180	72	1330	126	96	36	31	83	23
5	17	120	85	160	64	2050	95	84	26	24	58	19
6	16	88	234	130	52	1570	71	84	19	17	48	13
7	16	75	556	110	49	528	66	317	25	24	33	14
8	16	72	338	94	48	252	50	407	24	16	46	15
9	15	63	178	82	48	180	50	217	31	14	48	15
10	16	144	317	72	50	172	44	115	28	14	50	19
11	15	261	460	78	70	172	45	120	23	474	42	19
12	12	280	296	84	96	176	45	184	24	874	38	16
13	17	118	197	92	130	222	53	265	15	951	142	16
14	16	80	240	120	170	302	50	131	9.1	360	287	15
15	20	65	429	160	220	250	96	93	7.2	162	157	15
16	20	56	612	220	290	188	112	141	17	133	100	12
17	21	54	388	180	400	130	117	242	22	106	63	26
18	71	49	200	150	700	114	74	275	23	99	42	118
19	125	31	120	110	972	162	71	362	32	83	34	99
20	104	40	100	82	663	528	52	600	30	75	28	80
21	66	49	92	72	398	415	44	696	23	73	25	84
22	51	63	84	62	936	332	84	242	29	53	22	57
23	40	134	88	52	1140	220	144	136	27	56	20	48
24	31	105	80	56	380	152	170	104	28	53	12	42
25	29	85	70	62	305	133	445	80	34	44	23	32
26	20	75	64	130	251	115	1160	74	35	36	19	60
27	16	96	62	270	184	128	829	75	44	41	17	380
28	8.2	99	66	540	164	217	388	74	47	46	17	200
29	21	93	68	350	144	202	280	56	44	68	16	100
30	19	82	80	200	---	118	168	47	53	118	12	50
31	17	---	140	170	---	126	---	47	---	235	7.8	---
TOTAL	923.2	2580	6186	4868	8326	11303	5915	5687	953.3	4472	2557.8	1621.4
MEAN	29.8	86.0	200	157	287	365	197	183	31.8	144	82.5	54.0
MAX	125	280	612	540	1140	2050	1160	696	84	951	543	380
MIN	8.2	15	62	52	48	114	44	47	7.2	14	7.8	7.2
CFSM	.38	1.11	2.58	2.02	3.70	4.70	2.54	2.36	.41	1.86	1.06	.70
IN.	.44	1.24	2.97	2.33	3.99	5.42	2.84	2.73	.46	2.14	1.23	.78

CAL YR 1975 TOTAL 41940.2 MEAN 115 MAX 1320 MIN 4.7 CFSM 1.48 IN 20.11
WTR YR 1976 TOTAL 55392.7 MEAN 151 MAX 2050 MIN 7.2 CFSM 1.95 IN 26.55

NIAGARA RIVER BASIN

04219000 ERIE (BARGE) CANAL AT LOCK 30, MACEDON, NY

LOCATION.--Lat 43°04'20", long 77°17'45", Wayne County, Hydrologic Unit 04140201, on left bank at Lock 30, in Macedon, 500 ft (152 m) downstream from headgate in old Erie Canal, 700 ft (213 m) downstream from bridge on State Highway 350, and 2.6 mi (4.2 km) upstream from Ganargua Creek.

PERIOD OF RECORD.--November 1919 to December 1920 (navigation seasons only), October 1950 to current year. Prior to October 1956, published as "Barge Canal at Lock 30, Macedon."

REVISED RECORDS.--WSP 1237: 1951.

GAGE.--Water-stage recorder. Datum of gage is 447.58 ft (136.422 m) above mean sea level. Nov. 1, 1919 to Dec. 28, 1920, nonrecording gage at same site at different datum.

REMARKS.--Records fair except those for non-navigation season, which are poor. This record represents net diversion from Niagara River basin into Oswego River basin through Erie (Barge) Canal. During the period of no navigation, from Dec. 12 to Apr. 27, discharge consists chiefly of leakage through guard gates and runoff from small areas tributary to canal upstream from station.

COOPERATION.--Records of gate openings, lockages, lock-value openings, and elevations of water surface in Erie (Barge) Canal upstream and downstream from Lock 30 furnished by New York State Department of Transportation.

AVERAGE DISCHARGE.--26 years (1950-76), 201 ft³/s (5.692 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 874 ft³/s (24.8 m³/s) Dec. 3, 1969; minimum daily, 0.8 ft³/s (0.023 m³/s) Feb. 25, 26, 1962.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	83	79	100	88	72	120	3.6	74	125	307	258
2	107	83	79	66	68	92	140	11	83	156	299	271
3	104	83	80	68	52	240	130	12	123	155	285	263
4	107	80	82	52	40	280	94	13	122	156	276	276
5	116	80	85	40	34	260	76	11	87	168	303	266
6	110	83	86	44	28	230	54	17	97	107	292	283
7	112	83	86	44	24	160	46	67	89	90	290	267
8	117	80	87	36	23	120	47	175	88	130	301	266
9	109	84	698	30	24	100	45	14	86	163	289	267
10	107	81	757	27	31	100	40	55	128	154	268	276
11	125	78	570	27	180	98	47	91	151	181	268	271
12	113	78	280	30	180	80	44	132	148	296	282	281
13	104	78	92	31	260	84	38	130	145	352	287	269
14	104	84	170	72	280	72	34	101	106	362	282	266
15	104	78	230	84	200	68	35	68	105	229	283	270
16	104	81	180	68	310	62	280	74	104	143	279	273
17	107	77	110	44	350	54	180	81	98	149	287	286
18	107	80	84	38	350	54	110	111	104	166	288	270
19	107	77	49	34	340	120	86	137	110	146	278	281
20	107	77	47	38	260	210	64	272	130	159	291	275
21	113	84	40	34	190	150	66	282	128	158	288	275
22	110	77	44	24	310	120	78	105	128	155	294	270
23	104	77	44	22	240	88	84	76	135	153	107	266
24	116	115	35	23	160	72	72	73	129	157	106	268
25	104	141	37	27	140	64	260	68	144	166	277	276
26	57	129	35	62	110	58	330	84	146	151	267	277
27	47	81	35	230	96	58	200	73	150	160	275	271
28	44	81	36	220	80	68	2.4	83	132	152	273	265
29	93	80	40	160	70	56	2.4	93	97	155	279	267
30	127	79	50	110	---	68	2.3	88	85	253	272	268
31	83	---	100	94	---	94	---	82	---	322	259	---
TOTAL	3176	2552	4427	1979	4518	3452	2807.1	2682.6	3452	5569	8432	8138
MEAN	102	85.1	143	63.8	156	111	93.6	86.5	115	180	272	271
MAX	127	141	757	230	350	280	330	282	151	362	307	286
MIN	44	77	35	22	23	54	2.3	3.6	74	90	106	258
CAL YR 1975	TOTAL	15301.0	MEAN	41.9	MAX	757	MIN	1.1				
WTR YR 1976	TOTAL	51184.7	MEAN	140	MAX	757	MIN	2.3				

ST. LAWRENCE RIVER MAIN STEM

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04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY
(National stream-quality accounting network station)

LOCATION.--Lat 43°15'40", long 79°03'47", Niagara County, Hydrologic Unit 04120200, on U.S. Coast Guard wharf at Old Fort Niagara, at mouth of Niagara River, and 1.0 mi (1.6 km) northwest of Youngstown.

DRAINAGE AREA.--265,000 mi² (686,350 km²).

PERIOD OF RECORD.--Water years 1971, 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September to December 1973, December 1974 to current year.

WATER TEMPERATURES: September to December 1973, December 1974 to current year.

INSTRUMENTATION.--Water-quality monitor since September 1973.

REMARKS.--Discharge is estimated on the basis of records for station 04216000 Niagara River at Buffalo. Published in 1971 as "at Youngstown;" sampling site 4 mi (6.4 km) upstream from present sampling site. Additional water-quality data available from New York State Department of Environmental Conservation. Interruptions in the record were due to instrument malfunctions.

EXTREMES FOR PERIOD OF DAILY RECORD.--

Extremes not reported due to the extent of missing record caused by instrument malfunctions.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 359 micromhos Nov. 4; minimum recorded, 252 micromhos Mar. 4.

WATER TEMPERATURES: Minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT										
15...	1400	286000	370	8.0	15.5	2	10.0	96	B120	58
MAY										
04...	1300	279000	305	6.8	8.0	15	--	--	B120	25
20...	0900	275000	310	7.6	8.5	6	11.8	101	370	530
JUN										
09...	1400	257000	320	8.1	15.0	2	10.4	102	B19	83
29...	1400	251000	310	7.4	19.0	2	8.7	97	56	B12
JUL										
26...	1400	251000	300	7.7	20.5	1	7.8	88	B11	83
AUG										
24...	1400	241000	310	8.2	22.0	1	9.2	105	42	84
SEP										
14...	1400	238000	320	7.9	19.5	2	8.0	89	37	84

DATE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT										
15...	130	35	39	8.5	13	1.4	119	0	98	25
MAY										
04...	130	34	37	8.0	11	1.4	111	0	91	26
20...	130	38	41	7.8	10	1.4	118	0	97	26
JUN										
09...	130	39	39	8.6	14	1.6	114	0	94	24
29...	130	33	37	7.9	11	1.4	112	0	92	24
JUL										
26...	130	37	39	7.9	10	1.4	113	0	93	26
AUG										
24...	130	40	39	8.9	10	1.3	115	0	94	26
SEP										
14...	130	37	38	8.4	10	1.3	113	0	93	32

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

ST. LAWRENCE RIVER MAIN STEM

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
OCT 15...	24	.2	.1	196	170	.07	.31	.38	.04
MAY 04...	21	.1	.1	179	159	.42	.53	.95	.06
20...	22	.1	.2	159	167	.27	.43	.70	.04
JUN 09...	25	.2	.1	106	169	.24	.43	.67	.04
29...	22	.1	.2	198	159	.25	.40	.65	.04
JUL 26...	23	.1	.3	195	163	.14	.40	.54	.00
AUG 24...	22	.1	.2	200	164	.15	.35	.50	.02
SEP 14...	27	.1	.2	214	173	.07	.30	.37	.04

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDED CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
MAY 20...	0	0	0	1	1	0	<10	0	<10	1	1
JUN 29...	0	--	0	2	1	1	<10	0	<10	0	0
AUG 24...	0	0	0	0	0	2	<10	0	<10	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDED MANGANESE (MN) (UG/L)
MAY 20...	0	0	0	0	300	20	24	19	5	10	10
JUN 29...	0	10	10	0	70	10	38	24	14	10	7
AUG 24...	1	10	10	0	80	20	20	13	7	0	0

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUS-PENDED SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)
MAY 20...	0	<.5	.0	<.5	10	10	0	0	0	0
JUN 29...	3	<.5	.0	<.5	10	0	10	0	0	0
AUG 24...	0	<.5	.0	<.5	10	0	10	0	0	0

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04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Oct. 15	1400	CHLOROPHYTA			May 4	1300	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		COELASTRACEAE					HYDRODICTYACEAE		
		COELASTRUM	1,000	11			PEDIASTRUM	L	0
		HYDRODICTYACEAE					OCCYSTACEAE		
		PEDIASTRUM	5,800	63			ANKISTRODESMUS	300	7
		OCCYSTACEAE					DICTYOSPHAERIUM	960	22
		CLOSTERIOPSIS	L	0			SCENEDESMACEAE		
		OCCYSTIS	120	1			ACTINASTRUM	240	5
		SCENEDESMACEAE					SCENEDESMUS	240	5
		SCENEDESMUS	690	7			TETRASTRUM	360	8
		ZYGNEMATALES					TETRASPORALES		
		DESMIDIACEAE					PALMELLACEAE		
		COSMARIUM	L	0			GLOEOCYSTIS	240	5
		STAUSTRUM	190	2			VOLVOCALES		
		CHRYSOPHYTA					CHLAMYDOMONADACEAE		
		BACILLARIOPHYCEAE					CHLAMYDOMONAS	150	3
		CENTRALES					ZYGNEMATALES		
		COSCINODISCAEAE					DESMIDIACEAE		
		CYCLOTELLA	L	0			COSMARIUM	L	0
		MELOSIRA	160	2			STAUSTRUM	30	1
		STEPHANODISCUS	L	0			CHRYSOPHYTA		
		PENNALES					BACILLARIOPHYCEAE		
		FRAGILARIACEAE					CENTRALES		
		ASTERIONELLA	62	1			COSCINODISCAEAE		
		FRAGILARIA	590	6			CYCLOTELLA	270	6
		NAVICULACEAE					MELOSIRA	750	17
		NAVICULA	L	0			STEPHANODISCUS	30	1
		NITZSCHACEAE					PENNALES		
		NITZSCHIA	93	1			ACHNANTHACEAE		
		CYANOPHYTA					COCCONEIS	30	1
		MYXOPHYCEAE					FRAGILARIACEAE		
		OSCILLATORIALES					ASTERIONELLA	30	1
		NOSTOCAEAE					FRAGILARIA	540	12
		ANABAENA	370	4			NAVICULACEAE		
		TOTAL	9,200				NAVICULA	60	1
							NITZSCHACEAE		
							NITZSCHIA	30	1
							TABELLARIACEAE		
							TABELLARIA	L	0
							CYANOPHYTA		
							MYXOPHYCEAE		
							CHROOCOCCALES		
							CHROOCOCCACEAE		
							ANACYSTIS	60	1
							PYRRHOPHYTA		
							DINOPHYCEAE		
							GYMNODINIALES		
							GYMODINIACEAE		
							GYMODINIUM	90	2
							PERIDINIALES		
							PERIDINIACEAE		
							PERIDINIUM	30	1
							TOTAL	4,500	

L - less than 1%, may not have been actually counted.

ST. LAWRENCE RIVER MAIN STEM

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
May 20	0900	CHLOROPHYTA			June 9	1400	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					VOLVOCALES		
		OCCYSTACEAE					CHLAMYDOMONADACEAE		
		ANKISTRODESMUS	230	21			CHLAMYDOMONAS	190	57
		KIRCHNERIELLA	75	7			CHRYSOPHYTA		
		SCENEDESMACEAE					BACILLARIOPHYCEAE		
		SCENEDESMUS	200	19			CENTRALES		
		TETRASTRUM	100	9			COSCINODISCAEAE		
		CHRYSOPHYTA					MELOSIRA	47	14
		BACILLARIOPHYCEAE					EUGLENOPHYTA		
		CENTRALES					CRYPTOPHYCEAE		
		COSCINODISCAEAE					CRYPTOMONIDALES		
		MELOSIRA	300	28			CRYPTOCHRYSIDACEAE		
		PENNALES					CHROOMONAS	47	14
		ACHNANTHACEAE					CRYPTOMONODACEAE		
		ACHNANTHES	50	5			CRYPTOMONAS	47	14
		FRAGILARIACEAE					TOTAL	330	
		SYNEDRA	50	5					
		NAVICULACEAE							
		NAVICULA	25	2					
		CYANOPHYTA							
		MYXOPHYCEAE							
		CHROOCOCCALES							
		CHROCOCCACEAE							
		ANACYSTIS	50	5					
		TOTAL	1,100						
June 29	1400	CHLOROPHYTA			July 26	1400	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		CHARACIACEAE					HYDRODICTYACEAE		
		SCHROEDERIA	26	13			PEDIASTRUM	150	8
		TETRASPORALES					OCCYSTACEAE		
		PALMELLACEAE					ANKISTRODESMUS	50	3
		GLOBOCYSTIS	5	3			KIRCHNERIELLA	L	0
		VOLVOCALES					OCCYSTIS	20	1
		CHLAMYDOMONADACEAE					WESTELLA	20	1
		CHLAMYDOMONAS	5	3			ZYGNEMATALES		
		ZYGNEMATALES					DESMIDIACEAE		
		DESMIDIACEAE					STAUSTRUM	L	0
		STAUSTRUM	10	5			CHRYSOPHYTA		
		CHRYSOPHYTA					BACILLARIOPHYCEAE		
		BACILLARIOPHYCEAE					CENTRALES		
		CENTRALES					COSCINODISCAEAE		
		COSCINODISCAEAE					CYCLOTELLA	55	3
		CYCLOTELLA	5	3			MELOSIRA	190	10
		MELOSIRA	36	18			STEPHANODISCUS	L	0
		PENNALES					PENNALES		
		NAVICULACEAE					ACHNANTHACEAE		
		NAVICULA	5	3			COCCONEIS	15	1
		NITZSCHACEAE					FRAGILARIACEAE		
		NITZSCHIA	5	3			FRAGILARIA	330	17
		EUGLENOPHYTA					NAVICULACEAE		
		CRYPTOPHYCEAE					NAVICULA	L	0
		CRYPTOMONIDALES					CHRYSOPHYCEAE		
		CRYPTOMONODACEAE					CHRYSONOMADACEAE		
		CRYPTOMONAS	97	50			OCHROMONAS	25	1
		TOTAL	190				CYANOPHYTA		
							MYXOPHYCEAE		
							OSCILLATORIALES		
							NOSTOCACEAE		
							ANABAENOPSIS	240	12
							APHANIZOMENON	750	38
							OSCILLATORIACEAE		
							LYNGBYA	25	1
							EUGLENOPHYTA		
							CRYPTOPHYCEAE		
							CRYPTOMONIDALES		
							CRYPTOMONODACEAE		
							CRYPTOMONAS	45	2
							PYRRHOPHYTA		
							DINOPHYCEAE		
							PERIDINIALES		
							CERATIAEAE		
							CERATIUM	25	1
							TOTAL	2,000	

L - less than 1%, may not have been actually counted.

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Aug. 24	1400	CHLOROPHYTA			Sep. 14	1400	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		MICRACTINIACEAE					HYDRODICTYACEAE		
		MICRACTINIUM	28	2			PEDIASTRUM	1,500	18
		OCCYSTACEAE					OCCYSTACEAE		
		ANKISTRODESMUS	28	2			DICTYOSPHAERIUM	1,300	17
		CHODATELLA	7	1			OCCYSTIS	130	2
		KIRCHNERIELLA	21	2			SCENEDESMACEAE		
		OCCYSTIS	43	4			SCENEDESMUS	89	1
		SCENEDESMACEAE					VOLVOCALES		
		SCENEDESMUS	50	4			POLYBLEPHARIDACEAE		
		VOLVOCALES					PYRAMIMONAS	78	1
		CHLAMYDOMONADACEAE					VOLVOCAEAE		
		CHLAMYDOMONAS	7	1			GONIUM	310	4
		PHACOTACEAE					ZYGNEMATALES		
		PHACOTUS	21	2			DESMIDIACEAE		
		ZYGNEMATALES					COSMARIVM	L	0
		DESMIDIACEAE					STAUSTRUM	L	0
		COSMARIVM	7	1			CHRYSOPHYTA		
		STAUSTRUM	14	1			BACILLARIOPHYCEAE		
		CHRYSOPHYTA					CENTRALES		
		BACILLARIOPHYCEAE					COSCINODISCAEAE		
		PENNALES					MELOSIRA	120	2
		ACHNANTHACEAE					PENNALES		
		COCCONEIS	28	2			FRAGILARIACEAE		
		FRAGILARIACEAE					FRAGILARIA	2,600	33
		FRAGILARIA	85	7			NITZSCHIAEAE		
		NITZSCHIAEAE					NITZSCHIA	L	0
		NITZSCHIA	21	2			CYANOPHYTA		
		CHRYSOPHYCEAE					MYXOPHYCEAE		
		CHRYSONOMADALE					OSCILLATORIALES		
		OCHROMONADACEAE					NOSTOCACEAE		
		DINOBRYON	7	1			ANABAENA	1,800	23
		OCHROMONAS	21	2			PYRRHOPHYTA		
		CYANOPHYTA					DINOPHYCEAE		
		MYXOPHYCEAE					PERIDINIALES		
		CHROOCOCCALES					CERATIACEAE		
		CHROOCOCCACEAE					CERATIUM	L	0
		ANACYSTIS	350	30			TOTAL	8,100	
		OSCILLATORIALES							
		NOSTOCACEAE							
		ANABAENA	180	15					
		OSCILLATORIAEAE							
		OSCILLATORIA	210	19					
		EUGLENOPHYTA							
		CRYPTOPHYCEAE							
		CRYPTOMONIDALE							
		CRYPTOCHRYSIDACEAE							
		CHROOMONAS	14	1					
		CRYPTOMONODACEAE							
		CRYPTOMONAS	7	1					
		TOTAL	1,200						

L - less than 1%, may not have been actually counted.

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
June 6	32	16.5	13.4	18.9	1.39	170	Polyethylene strip
June 29	24	32.8	27.4	31.0	0.00	170	Polyethylene strip
Aug. 24	57	12.0	3.77	13.7	4.30	600	Polyethylene strip

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04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										---	---	---
14										---	---	---
15										316	294	314
16										314	291	308
17										315	296	310
18										316	294	308
19										314	295	308
20										310	295	306
21										313	293	305
22										313	293	308
23										---	---	---
24										---	---	---
25										---	---	---
26										---	---	---
27										---	---	---
28										---	---	---
29										---	---	---
30										---	---	---
31										---	---	---
MONTH										---	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCTOBER				NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	14.0	14.0	14.0	8.0	7.0	7.5	2.0	2.0	2.0
2	---	---	---	14.0	14.0	14.0	7.0	6.5	7.0	2.0	1.5	1.5
3	---	---	---	14.0	14.0	14.0	6.5	6.0	6.0	2.0	2.0	2.0
4	---	---	---	14.0	14.0	14.0	6.0	5.5	5.5	2.0	1.5	1.5
5	---	---	---	14.0	14.0	14.0	6.0	5.5	6.0	1.5	0.0	0.5
6	---	---	---	14.0	14.0	14.0	6.5	6.0	6.0	0.0	0.0	0.0
7	---	---	---	14.0	14.0	14.0	6.0	5.0	5.5	0.0	0.0	0.0
8	---	---	---	14.0	14.0	14.0	5.0	5.0	5.0	0.0	0.0	0.0
9	---	---	---	14.0	14.0	14.0	5.0	5.0	5.0	0.0	0.0	0.0
10	---	---	---	14.0	13.5	13.5	5.0	5.0	5.0	0.0	0.0	0.0
11	---	---	---	13.0	12.5	13.0	5.0	5.0	5.0	0.0	0.0	0.0
12	---	---	---	13.0	12.5	12.5	5.0	4.5	5.0	0.0	0.0	0.0
13	---	---	---	12.5	12.0	12.5	5.0	4.5	4.5	0.5	0.0	0.0
14	---	---	---	12.0	11.0	11.0	5.5	4.5	5.0	0.5	0.5	0.5
15	---	---	---	11.0	10.5	10.5	5.5	4.5	5.0	0.5	0.0	0.5
16	---	---	---	10.5	10.5	10.5	5.0	4.5	4.5	---	---	---
17	---	---	---	10.5	10.5	10.5	5.0	4.0	4.5	---	---	---
18	---	---	---	10.5	10.5	10.5	4.0	3.5	3.5	---	---	---
19	---	---	---	10.5	10.5	10.5	3.5	2.5	3.0	---	---	---
20	---	---	---	10.5	10.0	10.5	2.5	2.0	2.5	---	---	---
21	---	---	---	10.5	10.5	10.5	2.0	2.0	2.0	0.0	0.0	0.0
22	---	---	---	10.5	9.5	10.0	2.0	2.0	2.0	1.0	0.0	0.5
23	---	---	---	9.5	9.5	9.5	2.5	2.0	2.0	1.0	0.5	0.5
24	---	---	---	9.5	9.0	9.0	2.0	1.5	2.0	1.0	0.0	0.5
25	---	---	---	9.0	8.5	9.0	2.0	2.0	2.0	0.0	0.0	0.0
26	---	---	---	8.5	8.5	8.5	2.0	2.0	2.0	0.5	0.0	0.5
27	---	---	---	8.5	8.0	8.0	2.0	1.5	2.0	0.5	0.5	0.5
28	---	---	---	8.0	7.5	7.5	2.0	1.5	1.5	0.5	0.0	0.5
29	---	---	---	7.5	7.5	7.5	2.0	2.0	2.0	0.5	0.0	0.5
30	15.0	14.0	14.5	8.5	7.5	8.0	2.5	2.0	2.5	0.5	0.5	0.5
31	14.5	14.0	14.0	---	---	---	2.5	2.0	2.5	0.5	0.5	0.5
MONTH	---	---	---	14.0	7.5	11.5	8.0	1.5	4.0	2.0	0.0	0.5
FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.5	0.5	1.5	1.0	1.5	---	---	---	---	---	---
2	1.0	0.5	1.0	1.5	1.0	1.0	---	---	---	---	---	---
3	0.5	0.0	0.5	1.5	1.0	1.5	---	---	---	---	---	---
4	0.5	0.0	0.0	1.5	1.5	1.5	---	---	---	---	---	---
5	1.0	0.0	0.5	2.0	1.5	1.5	---	---	---	---	---	---
6	0.5	0.0	0.5	1.5	1.0	1.5	---	---	---	9.5	8.0	9.0
7	1.0	0.0	0.5	1.5	1.0	1.0	---	---	---	9.5	9.0	9.0
8	0.5	0.0	0.0	1.5	1.0	1.0	---	---	---	10.0	9.5	9.5
9	0.5	0.5	0.5	1.5	1.0	1.5	---	---	---	9.5	8.5	9.5
10	1.0	0.0	0.5	1.5	1.5	1.5	---	---	---	9.5	9.0	9.5
11	1.0	0.5	1.0	1.5	1.0	1.5	---	---	---	10.0	9.5	10.0
12	1.0	0.5	1.0	2.0	1.0	1.5	---	---	---	10.5	10.0	10.0
13	1.5	0.5	1.0	2.0	1.0	1.5	---	---	---	11.0	10.5	10.5
14	1.0	0.5	1.0	1.5	1.5	1.5	---	---	---	11.0	10.0	10.5
15	1.0	0.5	1.0	---	---	---	---	---	---	11.5	10.0	10.5
16	1.0	1.0	1.0	---	---	---	---	---	---	10.5	9.0	10.0
17	1.5	1.0	1.0	---	---	---	---	---	---	---	---	---
18	1.0	1.0	1.0	---	---	---	---	---	---	---	---	---
19	1.0	1.0	1.0	---	---	---	---	---	---	---	---	---
20	1.0	1.0	1.0	---	---	---	---	---	---	---	---	---
21	1.0	1.0	1.0	---	---	---	---	---	---	12.5	12.0	12.0
22	1.5	1.0	1.0	---	---	---	---	---	---	12.5	12.0	12.5
23	1.5	1.0	1.0	---	---	---	10.0	8.5	8.5	12.5	11.5	12.0
24	1.0	1.0	1.0	---	---	---	10.0	9.0	9.5	12.5	12.0	12.0
25	2.0	1.0	1.5	---	---	---	9.0	8.5	9.0	12.5	12.0	12.5
26	1.5	1.5	1.5	---	---	---	8.5	7.0	8.0	---	---	---
27	1.5	1.5	1.5	---	---	---	7.0	6.5	7.0	---	---	---
28	2.0	1.0	1.5	---	---	---	8.0	7.0	8.0	---	---	---
29	1.5	1.0	1.5	---	---	---	9.5	8.0	8.5	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	2.0	0.0	1.0	---	---	---	---	---	---	---	---	---

ST. LAWRENCE RIVER MAIN STEM

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04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

TEMPERATURE(DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1										---	---	---
2										---	---	---
3										---	---	---
4										---	---	---
5										---	---	---
6										---	---	---
7										---	---	---
8										---	---	---
9										---	---	---
10										---	---	---
11										---	---	---
12										---	---	---
13										---	---	---
14										---	---	---
15										20.5	19.0	19.5
16										20.0	19.5	19.5
17										20.0	18.5	19.5
18										19.5	18.0	19.0
19										18.0	16.5	17.0
20										17.5	16.5	17.5
21										17.5	16.5	17.0
22										17.0	16.5	16.5
23										---	---	---
24										---	---	---
25										---	---	---
26										---	---	---
27										---	---	---
28										---	---	---
29										---	---	---
30										---	---	---
31										---	---	---
MONTH										---	---	---

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						JUL					
15...	1400	286000	3	2320	70	26...	1400	251000	5	3390	82
MAY						AUG					
04...	1300	279000	43	32400	95	24...	1400	241000	9	5860	90
20...	0900	275000	13	9650	91	SEP					
JUN						14...	1400	238000	14	9000	89
09...	1400	257000	20	13900	56						
29...	1400	251000	5	3390	75						

STREAMS TRIBUTARY TO LAKE ONTARIO

04219940 MANNING MUCKLAND CREEK NEAR BARRE CENTER, NY

LOCATION.--Lat 43°10'13", long 78°08'04", Orleans County, Hydrologic Unit 04130001, on left bank 40 ft (12.2 m) upstream from bridge on McNamar Road, 200 ft (60 m) east of Angevine Road, 1.5 mi (2.41 km) north of South Barre, and 3.2 mi (5.15 km) east of Barre Center.

DRAINAGE AREA.--5.28 mi² (13.68 km²).

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 639.38 ft (194.883 m) above mean sea level.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 78 ft³/s (2.21 m³/s) Mar. 5, 1976, gage height, 5.73 ft (1.747 m); minimum, 0.01 ft³/s (0.003 m³/s) many days in 1975; minimum gage height, 0.95 ft (0.289 m) Sept. 16-18, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40 ft³/s (1.13 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 19	0100	51 1.44	4.68 1.426	Apr. 25	2145	51 1.44	4.70 1.433
Feb. 22	1130	49 1.39	4.62 1.408	May 20	0200	50 1.42	4.60 1.402
Mar. 5	2015	*78 2.21	*5.73 1.747				

Minimum discharge, 0.08 ft³/s (0.002 m³/s) Oct. 13, gage height, 1.09 ft (0.332 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.29	2.5	4.0	3.4	11	20	13	7.1	2.9	6.6	1.4
2	.11	.31	2.5	3.3	3.0	10	14	12	6.4	2.6	4.6	1.3
3	.11	.31	1.1	3.0	2.7	13	12	10	5.6	2.3	3.7	1.3
4	.12	.34	1.0	2.7	2.6	35	10	8.9	5.0	2.2	3.3	1.2
5	.11	.31	1.5	2.5	2.5	61	8.7	8.0	4.6	2.0	2.9	1.2
6	.12	.29	2.1	2.1	2.4	70	7.8	8.4	4.3	1.8	2.7	1.2
7	.11	.31	2.0	1.9	2.4	46	7.2	22	4.8	1.7	2.7	1.1
8	.11	.37	1.5	1.8	2.3	25	6.7	18	4.5	1.7	2.9	.98
9	.11	.34	1.2	1.7	2.3	18	6.2	13	4.0	1.5	2.8	.94
10	.12	.46	1.0	1.7	3.8	18	5.9	10	3.6	1.5	2.5	.98
11	.11	.72	1.0	1.6	7.9	18	6.3	10	3.4	2.1	2.3	.98
12	.12	.76	1.4	1.6	8.6	15	5.9	12	3.2	2.5	2.3	.91
13	.12	.68	2.0	2.0	16	21	5.8	9.6	3.0	4.4	2.5	.83
14	.14	.64	3.0	2.9	17	19	5.5	8.5	2.8	4.4	2.4	.76
15	.13	.56	4.0	2.9	20	16	6.2	7.7	2.7	3.4	2.4	.72
16	.13	.56	3.5	2.8	41	13	9.4	7.5	2.6	3.3	2.1	.72
17	.14	.56	3.1	2.5	47	12	8.8	9.5	2.8	3.3	2.0	.72
18	.46	.53	3.0	2.1	44	11	7.4	11	2.5	2.7	1.9	.80
19	.55	.53	2.8	2.0	44	18	6.4	16	2.6	2.4	1.7	.76
20	.52	.52	2.6	1.9	29	24	5.8	41	3.0	2.2	1.5	.80
21	.52	.58	2.5	1.9	25	21	5.3	24	2.9	2.1	1.4	.80
22	.46	.62	2.4	1.9	45	16	7.9	16	3.1	1.9	1.4	.76
23	.43	.62	2.3	1.8	32	13	9.9	12	2.7	2.3	1.3	.83
24	.40	.60	2.3	1.7	22	12	8.4	10	2.4	3.1	1.2	.83
25	.40	.58	2.2	2.5	20	11	27	9.2	3.1	2.5	1.1	.76
26	.37	.56	2.3	3.9	17	9.5	50	8.3	2.8	2.2	1.1	1.1
27	.34	.58	2.1	6.5	15	9.6	40	6.9	2.6	2.0	1.1	1.3
28	.31	.60	2.0	6.0	13	11	28	6.7	2.3	1.8	1.1	1.2
29	.29	.58	2.0	5.2	12	9.4	19	6.2	2.2	3.1	1.4	1.2
30	.27	.60	2.3	4.5	---	8.6	15	5.8	2.3	4.3	1.3	1.2
31	.27	---	3.8	3.7	---	13	---	6.4	---	4.8	1.3	---
TOTAL	7.63	15.31	69.0	86.6	502.9	608.1	376.5	367.6	104.9	81.0	69.5	29.58
MEAN	.25	.51	2.23	2.79	17.3	19.6	12.6	11.9	3.50	2.61	2.24	.99
MAX	.55	.76	4.0	6.5	47	70	50	41	7.1	4.8	6.6	1.4
MIN	.11	.29	1.0	1.6	2.3	8.6	5.3	5.8	2.2	1.5	1.1	.72
CFSM	.05	.10	.42	.53	3.28	3.71	2.39	2.25	.66	.49	.42	.19
IN.	.05	.11	.49	.61	3.54	4.28	2.65	2.59	.74	.57	.49	.21

CAL YR 1975 TOTAL 2004.63 MEAN 5.49 MAX 64 MIN .01 CFSM 1.04 IN 14.12
WTR YR 1976 TOTAL 2318.62 MEAN 6.34 MAX 70 MIN .11 CFSM 1.20 IN 16.33

STREAMS TRIBUTARY TO LAKE ONTARIO

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04219950 MANNING MUCKLAND CREEK TRIBUTARY NEAR ELBA, NY

LOCATION.--Lat 43°07'56", long 78°09'53", Genesee County, Hydrologic Unit 04130001, on left bank 125 ft (38 m) upstream from bridge on Oak Orchard Road, and 3.9 mi (6.28 km) north of Elba.

DRAINAGE AREA.--21.9 mi² (56.7 km²).

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 621.31 ft (189.375 m) above mean sea level.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 340 ft³/s (9.63 m³/s) Mar. 5, 1976, gage height, about 9.2 ft (2.804 m); minimum 0.03 ft³/s (0.001 m³/s) Aug. 24, 1975, Sept. 15, 16, 1976; minimum gage height, 1.18 ft (0.360 m) Aug. 24, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 190 ft³/s (5.38 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 19	0430	195 5.52	6.49 1.978	Apr. 26	0100	206 5.83	6.73 2.051
Mar. 5	Unknown	*†340 9.63	*†9.2 2.80				

† About.

Minimum discharge, 0.03 ft³/s (0.001 m³/s) Sept. 15, 16; minimum gage height, 1.29 ft (0.393 m) Oct. 7, 8, 9, 10 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	.67	4.0	46	36	47	91	36	14	38	27	3.0
2	.67	.67	3.5	35	24	53	61	29	13	25	18	2.8
3	.52	.67	2.5	20	19	68	42	22	9.6	13	9.3	2.5
4	.46	.83	2.1	15	16	166	30	18	7.8	7.3	5.2	1.7
5	.46	1.0	2.0	13	14	322	23	15	6.4	5.0	3.2	1.2
6	.40	1.0	15	11	14	236	19	14	5.7	3.6	2.7	.92
7	.35	.92	25	9.6	14	161	17	72	8.3	3.2	2.3	.59
8	.35	.92	7.0	8.4	14	111	16	70	7.5	3.0	4.0	.34
9	.30	.83	4.0	7.6	47	81	15	44	5.7	3.0	5.4	.25
10	.30	1.2	5.2	7.0	40	72	14	29	4.8	2.8	5.0	.25
11	.35	2.3	7.0	7.1	50	71	13	23	4.2	2.5	3.2	.34
12	.40	2.0	7.0	7.5	80	54	12	39	4.2	2.0	2.7	.52
13	.46	1.3	4.0	7.5	95	79	11	28	3.8	14	7.8	.46
14	.52	1.1	10	11	133	80	10	20	4.0	17	27	.14
15	.59	1.0	35	13	163	67	11	17	3.8	13	18	.08
16	.52	.92	45	13	180	51	15	14	4.0	11	14	.06
17	.40	.92	35	11	180	50	13	27	5.9	10	11	.09
18	1.8	.83	30	10	162	53	11	36	4.6	8.6	8.3	.34
19	3.6	.83	28	9.0	177	92	9.8	56	4.2	5.2	6.8	1.3
20	2.7	.83	14	8.4	99	79	9.1	156	4.4	3.4	5.7	1.3
21	2.0	1.0	11	8.0	111	73	8.6	96	4.6	2.7	4.8	2.3
22	1.7	1.0	11	7.6	179	54	21	67	5.7	2.5	3.8	2.2
23	1.3	.92	9.8	7.4	146	35	27	43	6.1	3.4	3.4	.92
24	1.1	1.0	8.6	7.2	100	25	21	29	64	8.8	3.0	.59
25	.92	.92	7.8	10	91	24	98	21	67	4.6	2.5	.46
26	.83	1.0	7.3	35	77	36	197	16	45	2.3	2.3	1.0
27	.75	1.0	7.5	116	67	26	151	13	32	1.7	2.7	8.3
28	.67	1.1	7.8	92	57	24	107	11	25	1.2	2.5	12
29	.67	1.0	7.5	77	46	23	78	10	10	3.8	13	6.1
30	.59	1.5	9.8	64	---	22	53	9.3	8.0	13	7.8	3.0
31	.52	---	33	40	---	40	---	10	---	9.8	3.8	---
TOTAL	26.95	31.18	406.4	734.3	2431	2375	1204.5	1090.3	393.3	244.4	236.2	55.05
MEAN	.87	1.04	13.1	23.7	83.8	76.6	40.2	35.2	13.1	7.88	7.62	1.84
MAX	3.6	2.3	45	116	180	322	197	156	67	38	27	12
MIN	.30	.67	2.0	7.0	14	22	8.6	9.3	3.8	1.2	2.3	.06
CFSM	.04	.05	.60	1.08	3.83	3.50	1.84	1.61	.60	.36	.35	.08
IN.	.05	.05	.69	1.25	4.13	4.03	2.05	1.85	.67	.42	.40	.09
CAL YR 1975	TOTAL	7171.28	MEAN	19.6	MAX	295	MIN	.04	CFSM	.89	IN	12.18
WTR YR 1976	TOTAL	9228.58	MEAN	25.2	MAX	322	MIN	.06	CFSM	1.15	IN	15.68

STREAMS TRIBUTARY TO LAKE ONTARIO

04221000 GENESEE RIVER AT WELLSVILLE, NY

LOCATION.--Lat 42°07'20", long 77°57'27", Allegany County, Hydrologic Unit 04130002, on left bank 35 ft (11 m) upstream from concrete weir at Wellsville, 0.6 mi (1.0 km) upstream from Crowner Brook and sewage treatment plant, and 0.6 mi (1.0 km) downstream from Dyke Creek. Water-quality sampling site at bridge on State Highway 17, 0.5 mi (0.8 km) downstream from discharge station.

DRAINAGE AREA.--289 mi² (749 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1955 to September 1958, October 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,470.00 ft (448.056 m) above mean sea level. October 1957 to September 1958, nonrecording gage at site 0.4 mi (0.6 km) upstream at datum 3.00 ft (0.91 m) higher. August 1955 to September 1957, at same site at datum 8.00 ft (2.438 m) higher.

REMARKS.--Records good except those for winter periods, which are fair. Record for station 04221500 Genesee River at Scio, 5.2 mi (8.4 km) downstream, published for June 1916 to September 1972.

AVERAGE DISCHARGE.--7 years (1955-58, 1972-76), 422 ft³/s (11.95 m³/s), 19.83 in/yr (504 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s (447 m³/s) Mar. 8, 1956, gage height, 12.65 ft (3.856 m) site and datum then in use, from graph based on gage readings; minimum daily, 18 ft³/s (0.51 m³/s) Sept. 9, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since before June 1916, 38,500 ft³/s (1,090 m³/s) June 23, 1972, gage height, 20.7 ft (6.31 m) present datum, from floodmark, on basis of contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s (102 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0630	3,600 102	8.00 2.438	Feb. 22	0900	4,460 126	8.57 2.612
Feb. 17	0700	*8,100 229	*10.54 3.213	Mar. 3	0600	5,380 152	9.13 2.783

Minimum discharge, 42 ft³/s (1.19 m³/s) Sept. 9, 14, 15, 16, gage height, 4.34 ft (1.323 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	525	201	469	314	600	1090	584	435	244	363	334	56
2	511	196	308	230	430	1030	525	592	228	260	166	60
3	403	187	291	250	470	3530	539	469	177	205	121	59
4	336	178	275	190	380	2430	476	409	153	185	100	55
5	291	165	291	190	320	1710	442	360	137	165	87	56
6	260	156	469	160	280	1250	416	319	127	145	86	54
7	229	148	435	180	260	1030	390	341	214	145	517	50
8	205	178	325	160	260	882	354	316	156	237	628	48
9	254	161	372	140	270	700	325	275	125	216	307	46
10	275	483	511	140	280	640	297	251	115	147	252	57
11	220	504	429	150	1040	540	291	243	103	185	207	60
12	196	396	390	160	765	500	260	276	94	177	177	53
13	182	547	378	170	828	470	244	221	86	184	162	48
14	174	455	792	240	873	420	229	199	83	167	246	46
15	165	416	2110	230	722	390	239	191	245	244	200	44
16	254	403	1650	210	2190	360	275	187	145	188	190	47
17	215	360	1080	190	6810	350	234	267	206	183	142	61
18	2200	325	837	210	5060	348	201	351	128	151	121	90
19	891	302	580	230	4320	490	187	319	134	132	107	63
20	783	286	520	250	2480	500	174	379	820	119	98	55
21	639	291	470	210	1770	540	169	320	557	175	91	61
22	525	286	420	160	3200	520	229	265	418	176	85	59
23	449	249	380	130	1750	500	205	246	321	123	79	55
24	396	229	310	140	1310	480	192	224	279	115	75	53
25	360	220	320	140	1180	469	449	214	361	99	70	49
26	325	210	350	350	1090	429	783	246	264	90	99	51
27	291	244	430	1800	1090	449	584	224	200	85	94	131
28	270	254	320	1150	910	525	576	187	247	82	77	119
29	249	220	290	947	919	396	525	165	371	224	68	81
30	229	254	270	739	---	372	435	196	345	285	62	67
31	210	---	350	580	---	354	---	229	---	156	58	---
TOTAL	12512	8504	16422	10340	41857	23694	10829	8916	7083	5408	5106	1834
MEAN	404	283	530	334	1443	764	361	288	236	174	165	61.1
MAX	2200	547	2110	1800	6810	3530	783	592	820	363	628	131
MIN	165	148	270	130	260	348	169	165	83	82	58	44
CFSM	1.40	.98	1.83	1.16	4.99	2.64	1.25	1.00	.82	.60	.57	.21
IN.	1.61	1.09	2.11	1.33	5.39	3.05	1.39	1.15	.91	.70	.66	.24

CAL YR 1975	TOTAL	175749	MEAN	482	MAX	6290	MIN	40	CFSM	1.67	IN	22.62
WTR YR 1976	TOTAL	152505	MEAN	417	MAX	6810	MIN	44	CFSM	1.44	IN	19.63

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04221000 GENESEE RIVER AT WELLSVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972, 1975 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April 1975 to current year.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.
 Dashes (---) in mean suspended-sediment concentration column infer a concentration of less than or equal to 0.5 mg/L.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,280 mg/L June 5, 1975; minimum daily mean, 0 mg/L Apr. 2, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 15,200 tons (13,800 tonnes) Feb. 17, 1976; minimum daily, 0 ton (0 tonne) Apr. 2, 1975.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 780 mg/L Feb. 17; minimum daily mean, less than or equal to 0.5 mg/L on many days during October to December.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 15,200 tons (13,800 tonnes) Feb. 17; minimum daily, 0.08 ton (0.07 tonne) Nov. 7.

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	525	5	7.1	201	---	.11	469	12	15
2	511	3	4.1	196	---	.11	308	2	1.7
3	403	2	2.2	187	---	.10	291	---	.17
4	336	1	.91	178	1	.29	275	---	.16
5	291	1	.39	165	1	.45	291	1	.79
6	260	---	.14	156	1	.42	469	9	11
7	229	1	.31	148	---	.08	435	10	12
8	205	1	.39	178	1	.48	325	6	5.3
9	254	4	2.7	161	1	.43	372	7	7.0
10	275	5	3.7	483	52	124	511	7	9.7
11	220	6	3.6	504	36	60	429	1	1.2
12	196	3	1.6	396	18	19	390	1	.53
13	182	2	.98	547	27	49	378	1	.51
14	174	3	1.4	455	4	7.4	792	56	120
15	165	5	2.2	416	4	4.5	2110	212	1030
16	254	11	7.5	403	4	4.4	1650	46	229
17	215	8	4.6	360	3	2.9	1080	16	47
18	2200	203	1490	325	2	1.8	837	8	18
19	891	13	31	302	2	1.6	580	4	6.3
20	783	15	32	286	2	1.5	520	2	2.8
21	639	12	21	291	2	1.6	470	4	5.1
22	525	7	9.9	286	2	1.5	420	2	2.3
23	449	8	4.7	249	1	.67	380	3	3.1
24	396	8	8.6	229	1	.62	310	5	4.2
25	360	4	3.9	220	1	.30	320	4	3.5
26	325	2	1.8	210	---	.11	350	4	3.8
27	291	4	3.1	244	2	1.3	430	2	2.3
28	270	3	2.2	254	1	.69	320	3	2.6
29	249	1	.67	220	---	.12	290	4	3.1
30	229	3	1.9	254	1	.69	270	3	2.2
31	210	1	.57	---	---	---	350	2	1.9
TOTAL	12512	---	1660.16	8504	---	286.17	16422	---	1552.26

STREAMS TRIBUTARY TO LAKE ONTARIO

04221000 GENESEE RIVER AT WELLSVILLE, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	314	2	1.7	600	3	4.9	1090	21	62
2	230	1	.62	430	3	3.5	1030	14	39
3	250	3	2.0	470	4	5.1	3530	381	4060
4	190	4	2.1	380	4	4.1	2430	280	1840
5	190	2	1.0	320	4	3.5	1710	25	115
6	160	2	.86	280	5	3.8	1250	19	64
7	180	2	.97	260	3	2.1	1030	13	36
8	160	1	.43	260	4	2.8	882	9	21
9	140	3	1.1	270	5	3.6	700	10	19
10	140	2	.76	280	5	3.8	640	10	17
11	150	1	.41	1040	5	14	540	8	12
12	160	2	.86	765	17	35	500	10	13
13	170	4	1.8	828	37	83	470	4	5.1
14	240	2	1.3	873	40	94	420	6	6.8
15	230	2	1.2	722	15	29	390	10	11
16	210	2	1.1	2190	60	355	360	8	7.8
17	190	2	1.0	6810	780	15200	350	11	10
18	210	4	2.3	5060	377	5250	348	8	7.5
19	230	4	2.5	4320	150	1750	490	15	20
20	250	4	2.7	2480	60	402	500	13	18
21	210	11	6.2	1770	45	215	540	9	13
22	160	41	18	3200	39	337	520	6	8.4
23	130	30	11	1750	24	113	500	4	5.4
24	140	9	3.4	1310	18	64	480	4	5.2
25	140	4	1.5	1180	14	45	469	4	5.1
26	350	7	6.6	1090	15	44	429	2	2.3
27	1800	4	19	1090	15	44	449	18	26
28	1150	6	19	910	11	27	525	14	20
29	947	3	7.7	919	15	37	396	2	2.1
30	739	3	6.0	---	---	---	372	6	6.0
31	580	5	7.8	---	---	---	354	10	9.6
TOTAL	10340	---	132.91	41857	---	24175.2	23694	---	6487.3
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	584	21	33	435	10	12	244	33	21
2	525	10	14	592	15	24	228	48	28
3	539	9	13	469	5	6.3	177	11	5.3
4	476	10	13	409	3	3.3	153	11	4.5
5	442	9	11	360	374	368	137	11	4.1
6	416	10	11	319	564	487	127	9	3.1
7	390	5	5.3	341	14	13	214	21	12
8	354	7	6.7	316	610	515	156	17	7.2
9	325	12	11	275	20	15	125	17	5.7
10	297	8	6.4	251	250	169	115	7	2.2
11	291	10	7.9	243	50	33	103	11	3.1
12	260	25	18	276	70	52	94	18	4.6
13	244	7	4.6	221	40	24	86	11	2.6
14	229	5	3.1	199	37	20	83	19	4.3
15	239	3	1.9	191	36	19	245	28	19
16	275	7	5.2	187	45	23	145	18	7.0
17	234	9	5.7	267	14	10	206	45	25
18	201	5	2.7	351	36	34	128	30	10
19	187	18	9.1	319	17	15	134	46	17
20	174	12	5.6	379	10	10	820	186	443
21	169	8	3.7	320	7	6.0	557	70	105
22	229	14	8.7	265	8	5.7	418	55	62
23	205	25	14	246	6	4.0	321	70	61
24	192	10	5.2	224	8	4.8	279	50	38
25	449	33	51	214	5	2.9	361	65	63
26	783	83	175	246	12	8.0	264	20	14
27	584	12	19	224	16	9.7	200	35	19
28	576	6	9.3	187	9	4.5	247	75	50
29	525	10	14	165	23	10	371	117	117
30	435	10	12	196	34	18	345	45	42
31	---	---	---	229	26	16	---	---	---
TOTAL	10829	---	500.1	8916	---	1942.2	7083	---	1199.7

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04221000 GENESEE RIVER AT WELLSVILLE, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	363	37	36	334	55	50	56	34	5.1
2	260	68	48	166	28	13	60	31	5.0
3	205	36	20	121	27	8.8	59	37	5.9
4	185	9	4.5	100	16	4.3	55	19	2.8
5	165	8	3.6	87	13	3.1	56	17	2.6
6	145	9	3.5	86	19	4.4	54	15	2.2
7	145	17	6.7	517	120	262	50	16	2.2
8	237	41	26	628	97	164	48	19	2.5
9	216	28	16	307	30	25	46	35	4.3
10	147	13	5.2	252	18	12	57	75	12
11	185	14	7.0	207	23	13	60	30	4.9
12	177	13	6.2	177	14	6.7	53	16	2.3
13	184	11	5.5	162	16	7.0	48	15	1.9
14	167	17	7.7	246	26	17	46	38	4.7
15	244	24	16	200	8	4.3	44	30	3.6
16	188	21	11	190	12	6.2	47	40	5.1
17	183	26	13	142	8	3.1	61	43	7.1
18	151	11	4.5	121	7	2.3	90	48	12
19	132	13	4.6	107	9	2.6	63	41	7.0
20	119	12	3.9	98	24	6.4	55	29	4.3
21	175	23	11	91	47	12	61	50	8.2
22	176	20	9.5	85	23	5.3	59	58	9.2
23	123	15	5.0	79	18	3.8	55	54	8.0
24	115	24	7.5	75	23	4.7	53	33	4.7
25	99	15	4.0	70	25	4.7	49	16	2.1
26	90	20	4.9	99	42	11	51	14	1.9
27	85	57	13	94	31	7.9	131	46	16
28	82	47	10	77	12	2.5	119	28	9.0
29	224	47	55	68	23	4.2	81	60	13
30	285	64	49	62	32	5.4	67	18	3.3
31	156	27	11	58	36	5.6	---	---	---
TOTAL	5408	---	428.8	5106	---	682.3	1834	---	172.9

STREAMS TRIBUTARY TO LAKE ONTARIO

04221000 GENESEE RIVER AT WELLSVILLE, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
FEB							
17...	0800	7940	1050	22500	--	--	--
17...	1130	7610	701	14400	--	--	--
17...	1430	7340	724	14300	15	20	28
17...	1745	6430	538	9340	--	--	--
18...	0940	5610	444	6730	--	--	--
18...	1150	5700	585	9000	--	--	--
18...	1715	5050	283	3860	16	22	28
19...	0940	4320	164	1910	--	--	--
APR							
26...	0950	910	103	253	--	--	--
MAY							
08...	1100	319	2000	1720	21	29	40
08...	1110	319	1690	1460	34	38	48
10...	1305	249	743	500	--	--	--
10...	1310	249	622	418	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
FEB						
17...	--	--	60	--	--	--
17...	--	--	66	--	--	--
17...	37	48	64	82	97	100
17...	--	--	58	--	--	--
18...	--	--	55	--	--	--
18...	--	--	36	--	--	--
18...	36	46	57	78	95	100
19...	--	--	59	--	--	--
APR						
26...	--	--	45	--	--	--
MAY						
08...	52	66	85	95	96	100
08...	66	79	95	99	100	--
10...	--	--	89	--	--	--
10...	--	--	90	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

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04221990 RUSHFORD LAKE AT CANEADEA DAM, NY

04221991 CANEADEA CREEK AT CANEADEA DAM, NY

LOCATION.--Lat 42°22'49", long 78°11'00", Allegany County, Hydrologic Unit 04130002, in control structure of Caneadea Dam at outlet of Rushford Lake, and 2.4 mi (3.9 km) upstream from mouth.

DRAINAGE AREA.--60.7 mi² (157 km²).

PERIOD OF RECORD.--October 1968 to current year. July 1928 to current year in files of Rochester Gas & Electric Corp.

GAGE.--Water-stage recorder. Elevation of gage is 1,440 ft (439 m) above mean sea level (furnished by Rochester Gas & Electric Corp.).

REMARKS.--Outflow from Rushford Lake (capacity, 1,106 mil ft³ or 31.3 hm³) used for power generation. Discharge computed by orifice and (or) weir formula. Flow regulated by gates at dam completed in 1928. Area of water surface, 0.89 mi² (2.31 km²). Daily discharge record at a site 2 miles (3.2 km) downstream is published for July 1949 to September 1968 as 04222000 Caneadea Creek at Caneadea, NY.

AVERAGE DISCHARGE.--8 years, 93.9 ft³/s (2.66 m³/s), 21.01 in/yr (534 mm/yr), unadjusted.

MONTHEND ELEVATION, CONTENTS, AND MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCT. 1975 TO SEPT. 1976

04221990 RUSHFORD LAKE				04221991 CANEADEA CREEK AT CANEADEA DAM			
	* Elevation FT	Contents FT ³	Change in contents FT ³ /S	Observed discharge MEAN	† Adjusted for change in contents in Rushford Lake MEAN	CFSM	IN.
October	1,411.3	547.78	-156	221	65.1	1.07	1.24
November	1,419.6	680.31	+ 51.1	0	51.1	0.84	0.94
December	1,404.2	446.69	- 87.2	235	148	2.44	2.82
CAL YR 1975			+ 6.42	93.9	100	1.65	22.44
January	1,411.8	555.47	+ 40.6	69.1	110	1.81	2.08
February	1,433.9	962.32	+162	236	398	6.56	7.07
March	1,437.0	1,034.12	+ 26.8	208	235	3.87	4.46
April	1,434.5	975.37	- 22.7	144	121	1.99	2.23
May	1,440.1	1,108.34	+ 49.6	47.9	97.6	1.61	1.85
June	1,440.5	1,118.02	+ 3.73	46.1	49.8	.82	.92
July	1,440.3	1,113.18	- 1.81	39.2	37.4	.62	.71
August	1,440.4	1,115.60	+ .90	58.4	59.3	.98	1.13
September	1,440.3	1,113.18	- .93	20.5	19.6	.32	.36
WTR YR 1976			+ 4.63	110	115	1.89	25.81

* Elevation at 2400 hrs last day of month.

† Adjustments by Geological Survey.

NOTE.--All figures of contents expressed in millions.

04223000 GENESSEE RIVER AT PORTAGEVILLE, NY

LOCATION.--Lat 42°34'13", long 78°02'33", Wyoming County, Hydrologic Unit 04130002, on left bank at Portageville, 500 ft (152 m) downstream from bridge on State Highway 436, 800 ft (244 m) upstream from abandoned railroad bridge piers, and 0.9 mi (1.4 km) upstream from Upper Falls. Water-quality sampling site at bridge on Bailey Road, 2.3 mi (3.7 km) upstream from discharge station.

DRAINAGE AREA.--981 mi² (2,541 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1908 to current year. Prior to December 1945, published as "at St. Helena". Records published for both sites December 1945 to September 1950.

REVISED RECORDS.--WSP 264: 1908. WSP 564: 1916(M). WRD NY 1966: Drainage area. WRD NY 1972: 1950(M), 1951(M), 1956(M), 1959(M), 1964(M), 1967(M).

GAGE.--Water-stage recorder. Datum of gage is 1,080.00 ft (329.184 m) above mean sea level (levels by Corps of Engineers). Prior to Aug. 24, 1911, nonrecording gage and Aug. 24, 1911 to Sept. 30, 1946, water-stage recorder at site 8 mi (13 km) downstream at different datum. Oct. 1, 1946 to June 21, 1972, water-stage recorder at site 1,200 ft (366 m) downstream at datum 2.60 ft (0.792 m) higher (destroyed by flood of June 1972). July 12, 1972 to May 18, 1973, nonrecording gage at site 500 ft (152 m) upstream at datum 11.48 ft (3.499 m) higher.

REMARKS.--Records fair. Since July 1928, some seasonal regulation by Rushford Lake. Diurnal fluctuation at low flow caused by powerplant. Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake.

AVERAGE DISCHARGE.--68 years, 1,236 ft³/s (35.00 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 90,000 ft³/s (2,550 m³/s) June 23, 1972, gage height, 35.25 ft (10.744 m) site and datum then in use, from high-water mark, from rating curve extended above 25,000 ft³/s (708 m³/s) on basis of contracted-opening measurement of 71,000 ft³/s (2,010 m³/s) at highway bridge 0.4 mi (0.6 km) upstream and contracted-opening measurement of 98,200 ft³/s (2,780 m³/s) 0.7 mi (1.1 km) downstream from gage; minimum, 18 ft³/s (0.51 m³/s) Oct. 5, 17, 1913, gage height, 1.70 ft (0.518 m) site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s (425 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	0730	20,400 578	17.21 5.246	Feb. 22	1630	19,800 561	17.03 5.191
Feb. 17	1600	*28,600 810	*20.05 6.111	Mar. 3	1630	25,200 714	18.89 5.758

Minimum discharge, 189 ft³/s (5.35 m³/s) Sept. 9, 10; minimum gage height, 8.64 ft (2.633 m) Nov. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1350	474	2140	1400	1800	8530	2220	1820	916	1960	3220	228
2	1400	462	1910	1100	1300	6940	2680	2460	994	1220	1570	239
3	1330	474	1370	1100	820	17900	2550	2030	712	1040	818	234
4	1060	501	1160	960	1200	16500	2060	1500	557	741	617	223
5	935	480	1150	900	1100	10500	1760	1210	485	635	515	223
6	850	438	2190	960	960	6610	1540	968	437	561	658	212
7	785	408	2870	1000	900	5110	1390	1070	1300	450	1480	207
8	739	390	1580	800	860	4330	1250	1390	955	432	5320	199
9	722	408	1440	740	860	3560	1130	1010	566	619	2430	193
10	881	450	1720	740	860	2810	1050	833	468	505	1360	200
11	831	1790	1790	760	4600	2850	981	754	427	1400	803	248
12	739	1030	1640	780	4390	2200	968	1040	390	1200	583	282
13	722	1310	1530	860	3560	2000	890	879	365	666	515	236
14	785	1200	3780	1000	4560	1900	833	702	341	601	718	265
15	687	1030	12000	1500	2870	1700	712	642	334	618	1190	268
16	892	960	8090	1300	8820	1400	856	632	529	725	960	247
17	979	880	3930	1200	22700	1200	844	2920	730	601	616	249
18	8210	781	2770	1100	18400	1000	712	2460	718	529	472	343
19	4470	709	1960	1000	19400	1800	651	2480	454	474	404	386
20	2770	652	1900	1000	9430	4550	604	3420	1170	387	365	326
21	2340	636	1700	940	6840	3740	530	2200	1950	513	336	310
22	1780	727	1500	880	15500	4070	2500	1480	4800	676	315	327
23	1470	676	1300	820	8480	2460	1850	1210	1320	509	296	303
24	1240	599	1200	860	4890	1990	1010	1010	805	431	282	261
25	860	557	1100	960	4840	1660	6140	821	1190	377	271	238
26	754	536	1200	1100	4990	1520	7290	1150	1230	339	263	228
27	676	557	1600	7800	5690	1390	4690	1270	657	318	271	388
28	615	709	1400	5650	4790	3100	3630	844	530	304	283	613
29	563	668	1100	3950	3900	1890	3120	661	773	992	265	493
30	536	754	1000	2800	---	1680	2310	604	1610	5770	249	354
31	508	---	1500	1900	---	1480	---	733	---	1490	239	---
TOTAL	42479	21246	71520	47860	169310	128370	58751	42203	27713	27083	27684	8513
MEAN	1370	708	2307	1544	5838	4141	1958	1361	924	874	893	284
MAX	8210	1790	12000	7800	22700	17900	7290	3420	4800	5770	5320	613
MIN	508	390	1000	740	820	1000	530	604	334	304	239	193

CAL YR 1975 TOTAL 595856 MEAN 1632 MAX 18200 MIN 151
WTR YR 1976 TOTAL 672732 MEAN 1838 MAX 22700 MIN 193

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04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1965, 1971, 1972, 1975 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April 1975 to current year.

REMARKS.--Operated as a suspended-sediment partial-record station in 1964 and 1965, 2.2 mi (3.5 km) downstream from present site. Unpublished miscellaneous chemical analyses for water years 1952 and 1954 are available in files of district office. Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 5,160 mg/L May 7, 1975; minimum daily mean, 1 mg/L July 2, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 222,000 tons (201,000 tonnes) Feb. 17, 1976; minimum daily, 0.96 ton (0.87 tonne) July 2, 1975.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 3,370 mg/L Feb. 17; minimum daily mean, 2 mg/L Nov. 5, 7, 8, 24-27.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 222,000 tons (201,000 tonnes) Feb. 17; minimum daily, 2.1 tons (1.9 tonnes) November 8.

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1350	67	244	474	4	5.1	2140	216	1340
2	1400	78	295	462	4	5.0	1910	81	458
3	1330	57	205	474	4	5.1	1370	29	107
4	1060	41	117	501	4	5.4	1160	18	56
5	935	39	98	480	2	2.6	1150	13	40
6	850	31	71	438	3	3.5	2190	100	775
7	785	28	59	408	2	2.2	2870	152	1280
8	739	28	56	390	2	2.1	1580	30	128
9	722	15	29	408	3	3.3	1440	16	62
10	881	33	78	450	7	8.5	1720	25	116
11	831	21	47	1790	201	1070	1790	30	145
12	739	16	32	1030	32	89	1640	25	111
13	722	18	35	1310	43	152	1530	24	99
14	785	15	32	1200	23	75	3780	357	5150
15	687	12	22	1030	11	31	12000	1660	53900
16	892	25	60	960	8	21	8090	533	12700
17	979	17	45	880	6	14	3930	202	2140
18	8210	960	28300	781	5	11	2770	112	838
19	4470	441	5800	709	4	7.7	1960	62	328
20	2770	150	1120	652	4	7.0	1900	37	190
21	2340	87	550	636	5	8.6	1700	19	87
22	1780	51	245	727	7	14	1500	12	49
23	1470	39	155	676	3	5.5	1300	14	49
24	1240	32	107	599	2	3.2	1200	21	68
25	860	17	39	557	2	3.0	1100	23	68
26	754	15	31	536	2	2.9	1200	16	52
27	676	9	16	557	2	3.0	1600	11	48
28	615	7	12	709	7	13	1400	12	45
29	563	5	7.6	668	4	7.2	1100	20	59
30	536	6	8.7	754	11	22	1000	17	46
31	508	5	6.9	---	---	---	1500	60	243
TOTAL	42479	---	37923.2	21246	---	1602.9	71520	---	80777

STREAMS TRIBUTARY TO LAKE ONTARIO

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1400	18	68	1800	134	651	8530	803	20500
2	1100	10	30	1300	56	197	6940	320	6000
3	1100	14	42	820	32	71	17900	1500	84300
4	960	13	34	1200	50	162	16500	1050	47400
5	900	15	36	1100	28	83	10500	435	12800
6	960	29	75	960	25	65	6610	240	4280
7	1000	25	67	900	28	68	5110	140	1930
8	800	18	39	860	30	70	4330	100	1170
9	740	15	30	860	25	60	3560	105	1010
10	740	19	38	860	36	84	2810	67	508
11	760	21	43	4600	1100	18000	2850	69	531
12	780	13	27	4390	350	4150	2200	50	297
13	860	6	14	3560	378	4240	2000	49	264
14	1000	26	70	4560	554	7660	1900	45	231
15	1500	72	292	2870	60	465	1700	38	174
16	1300	26	91	8820	1240	31900	1400	36	136
17	1200	19	62	22700	3370	222000	1200	34	110
18	1100	17	50	18400	2590	135000	1000	30	81
19	1000	24	65	19400	2540	148000	1800	117	930
20	1000	27	73	9430	530	13500	4550	272	3660
21	940	24	61	6940	450	8310	3740	167	2070
22	880	15	36	15500	2420	108000	4070	161	1970
23	820	12	27	8480	602	15500	2460	43	286
24	860	17	39	4890	300	3960	1990	33	177
25	960	24	62	4840	240	3140	1660	35	157
26	1100	23	93	4990	230	3100	1520	27	111
27	7800	1140	27200	5690	235	3610	1390	38	143
28	5650	305	4650	4790	110	1420	3100	226	1970
29	3950	165	1970	3900	92	969	1890	44	225
30	2800	115	869	---	---	---	1680	19	86
31	1900	80	410	---	---	---	1480	17	68
TOTAL	47860	---	36663	169310	---	734435	128370	---	193575
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2220	32	192	1820	20	98	916	30	74
2	2680	36	260	2460	31	206	994	34	91
3	2550	39	269	2030	20	110	712	14	27
4	2060	19	106	1500	16	65	557	12	18
5	1760	22	105	1210	12	39	485	11	14
6	1540	13	54	968	11	29	437	28	33
7	1390	11	41	1070	14	40	1300	177	734
8	1250	9	30	1390	22	83	955	90	232
9	1130	9	27	1010	19	52	566	48	73
10	1050	10	28	833	15	34	468	32	40
11	981	11	29	754	10	20	427	31	36
12	968	8	21	1040	11	31	390	15	16
13	890	10	24	879	8	19	365	23	23
14	833	10	22	702	7	13	341	13	12
15	712	7	13	642	6	10	334	15	14
16	856	7	16	632	13	22	529	30	43
17	844	11	25	2920	239	2150	730	49	97
18	712	13	25	2460	98	651	718	31	60
19	651	15	26	2480	52	348	454	15	18
20	604	10	16	3420	127	1170	1170	150	617
21	530	25	36	2200	27	160	1950	206	1600
22	2500	239	1850	1480	21	84	4800	606	8420
23	1850	63	315	1210	10	33	1320	130	463
24	1010	22	60	1010	10	27	805	53	115
25	6140	968	25200	821	9	20	1190	135	434
26	7290	360	7090	1150	27	84	1230	205	681
27	4690	128	1620	1270	36	123	657	40	71
28	3630	99	970	844	15	34	530	36	52
29	3120	74	623	661	14	25	773	75	385
30	2310	25	156	604	26	42	1610	228	1050
31	---	---	---	733	80	158	---	---	---
TOTAL	54751	---	39249	42203	---	5980	27713	---	15543

STREAMS TRIBUTARY TO LAKE ONTARIO

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04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1960	170	900	3220	270	2350	228	27	17
2	1720	80	254	1570	83	352	239	102	66
3	1040	75	211	818	45	99	224	20	12
4	741	53	106	617	40	67	223	17	10
5	635	42	72	515	30	42	223	26	16
6	561	31	47	558	43	76	212	32	18
7	450	24	29	1400	166	1540	207	25	14
8	432	17	20	5320	724	12200	199	15	8.1
9	612	25	42	2430	144	945	193	33	17
10	505	18	25	1360	18	66	200	20	11
11	1490	302	1430	803	38	82	248	40	27
12	1200	99	321	583	160	252	282	154	117
13	666	48	86	515	45	63	236	15	9.6
14	601	35	57	718	160	310	265	15	11
15	618	36	60	1190	60	193	268	59	43
16	725	39	76	960	15	39	247	17	11
17	601	26	42	616	40	67	249	23	15
18	522	30	43	472	25	32	343	29	27
19	474	15	19	404	18	20	386	32	33
20	387	16	17	365	16	16	326	17	15
21	513	52	72	336	18	16	310	52	44
22	676	57	104	315	16	14	327	90	79
23	504	26	36	296	37	30	303	50	41
24	431	19	22	282	15	11	261	10	7.0
25	377	24	24	271	20	15	238	15	9.6
26	339	24	22	283	7	5.0	228	92	57
27	318	21	18	271	12	8.8	388	28	29
28	304	20	16	253	13	9.9	613	40	66
29	492	180	2070	265	20	14	493	16	21
30	5770	722	13300	249	14	9.4	354	29	28
31	1490	130	523	239	16	10	---	---	---
TOTAL	27083	---	20074	27684	---	18954.1	8513	---	879.3

STREAMS TRIBUTARY TO LAKE ONTARIO

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
18...	1645	12200	1490	49100	26	34	48
DEC							
15...	1430	13000	1897	66600	--	--	--
16...	1040	8170	499	11000	--	--	--
16...	1400	7110	419	8040	--	--	--
JAN							
27...	1005	12600	1540	52400	24	31	41
27...	1500	10600	1070	30600	22	30	40
28...	1300	5470	189	2790	--	--	--
28...	1400	4930	248	3300	--	--	--
28...	1430	5110	218	3010	20	26	36
29...	1600	3640	195	1920	--	--	--
30...	1100	3020	114	930	--	--	--
31...	1300	2000	77	416	--	--	--
FEB							
01...	1405	2160	170	991	--	--	--
11...	1515	7640	1730	35700	32	40	49
11...	1600	8140	1637	36000	--	--	--
12...	1150	4050	244	2670	--	--	--
12...	1300	3820	299	3080	--	--	--
13...	1100	3060	241	1990	--	--	--
14...	1200	4310	345	4020	--	--	--
17...	0830	22900	4740	293000	25	27	34
17...	1200	26000	5790	406000	24	24	33
17...	1240	26400	4880	348000	25	29	37
17...	1350	27800	4390	330000	24	29	36
17...	1520	28600	3630	280000	18	24	35
17...	1600	28600	3710	286000	22	32	41
17...	1700	28400	3690	283000	42	48	52
17...	1800	27600	3110	232000	--	--	--
17...	1915	26300	2600	185000	20	31	39
18...	0800	14400	1770	68800	19	25	36
18...	1400	17800	2500	120000	17	24	32
18...	1435	18500	2920	146000	--	--	--
18...	1515	19400	3620	190000	16	21	29
19...	0915	24700	2700	180000	21	29	39
19...	1245	20500	1830	101000	21	28	39
22...	1000	16400	2570	114000	20	26	37
24...	1450	4220	781	8700	--	--	--
25...	1000	4930	201	2680	--	--	--
25...	1740	4530	225	2750	--	--	--
27...	0945	6460	318	5550	--	--	--
27...	1140	6280	274	4550	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

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04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
OCT						
18...	61	77	88	98	100	--
DEC						
15...	--	--	71	--	--	--
16...	--	--	78	--	--	--
16...	--	--	79	--	--	--
JAN						
27...	53	65	82	95	99	100
27...	51	63	78	93	99	100
28...	--	--	88	--	--	--
28...	--	--	75	--	--	--
28...	47	60	74	86	91	100
29...	--	--	85	--	--	--
30...	--	--	89	--	--	--
31...	--	--	93	--	--	--
FEB						
01...	--	--	89	--	--	--
11...	60	73	84	93	98	--
11...	--	--	71	--	--	--
12...	--	--	85	--	--	--
12...	--	--	72	--	--	--
13...	--	--	80	--	--	--
14...	--	--	76	--	--	--
17...	47	63	79	93	98	100
17...	46	61	76	90	96	100
17...	52	66	80	92	98	--
17...	50	66	79	90	97	--
17...	49	62	78	90	98	100
17...	53	65	78	90	97	--
17...	54	75	83	93	98	--
17...	--	--	80	91	97	100
17...	54	69	83	94	98	100
18...	48	62	81	94	100	--
18...	44	57	77	92	99	100
18...	--	--	72	90	98	100
18...	40	53	74	90	98	100
19...	52	66	82	93	98	100
19...	51	67	84	96	99	100
22...	49	64	83	96	100	--
24...	--	--	77	--	--	--
25...	--	--	82	--	--	--
25...	--	--	84	--	--	--
27...	--	--	80	--	--	--
27...	--	--	80	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
MAR								
03...	1435	24400	3600	237000	17	23	32	44
03...	1615	25200	2810	191000	14	21	30	43
03...	1810	24800	1959	131000	--	--	--	--
04...	1205	15700	1008	42700	--	--	--	--
04...	1600	15800	208	8870	23	30	39	53
05...	1330	9540	388	9990	--	--	--	--
05...	1500	9410	367	9320	--	--	--	--
05...	1630	9360	362	9150	--	--	--	--
05...	1730	9280	353	8850	--	--	--	--
25...	1355	1640	1770	7840	--	--	--	--
25...	1515	1620	2900	12700	--	--	--	--
APR								
22...	0900	2840	436	3340	--	--	--	--
22...	1330	3360	358	3250	42	51	60	73
22...	1800	3450	222	2070	--	--	--	--
23...	0815	1940	70	367	--	--	--	--
23...	1800	1460	38	150	--	--	--	--
25...	1250	10500	1140	32300	34	35	40	54
25...	1300	6700	1168	21100	--	--	--	--
25...	1350	12900	1790	62300	28	31	42	59
25...	1355	12300	1770	58800	--	--	--	--
25...	1410	13200	1960	69900	24	33	44	58
25...	1415	13600	1990	73100	--	--	--	--
25...	1430	14000	2040	77100	--	--	--	--
25...	1440	14200	2220	85100	--	--	--	--
25...	1515	15300	2900	120000	--	--	--	--
25...	1530	16000	3830	165000	16	20	28	38
25...	1540	16200	2690	118000	--	--	--	--
25...	1545	16500	2880	128000	--	--	--	--
25...	1600	16700	2790	126000	--	--	--	--
25...	1720	18100	2170	106000	--	--	--	--
25...	1730	18200	2340	115000	23	30	42	55
25...	1740	18300	2230	110000	--	--	--	--
25...	1800	11600	3870	121000	--	--	--	--
25...	1810	18400	2400	119000	--	--	--	--
25...	1835	18400	1920	95400	--	--	--	--
25...	1845	18400	1940	96400	24	31	42	57
25...	1855	18400	1750	86900	--	--	--	--
25...	1905	18400	3690	183000	10	14	20	29
26...	1110	8840	317	5850	--	--	--	--
MAY								
17...	1245	4580	396	4900	--	--	--	--

04223000 GENESEE RIVER AT PORTAGEVILLE, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAR							
03...	57	73	90	78	100	--	--
03...	55	75	90	98	100	--	--
03...	--	81	--	--	--	--	--
04...	--	69	--	--	--	--	--
04...	67	80	94	100	--	--	--
05...	--	80	--	--	--	--	--
05...	--	78	--	--	--	--	--
05...	--	79	--	--	--	--	--
05...	--	79	--	--	--	--	--
25...	--	87	97	100	--	--	--
25...	--	74	90	98	100	--	--
APR							
22...	--	95	--	--	--	--	--
22...	83	93	98	100	--	--	--
22...	--	93	--	--	--	--	--
23...	--	95	--	--	--	--	--
23...	--	89	--	--	--	--	--
25...	67	80	90	97	100	--	--
25...	--	84	--	--	--	--	--
25...	72	86	95	99	--	--	--
25...	--	87	97	100	--	--	--
25...	72	88	96	100	--	--	--
25...	--	88	96	100	--	--	--
25...	--	86	96	100	--	--	--
25...	--	83	94	99	100	--	--
25...	--	74	90	98	100	--	--
25...	49	66	85	96	99	100	--
25...	--	77	90	98	100	--	--
25...	--	75	90	98	100	--	--
25...	--	74	88	96	100	--	--
25...	--	86	96	100	--	--	--
25...	68	86	96	99	100	--	--
25...	--	85	96	97	100	--	--
25...	--	64	84	97	100	--	--
25...	--	80	94	99	100	--	--
25...	--	85	96	100	--	--	--
25...	70	86	96	100	--	--	--
25...	--	89	97	--	--	--	--
25...	39	55	69	80	84	0	90
26...	--	86	--	--	--	--	--
MAY							
17...	--	90	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENED SEDIM- MENT (MG/L)	SUS- PENED SEDIM- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
MAY					
17...	1455	3950	220	2350	95
17...	1635	3470	242	2270	93
17...	1805	3250	250	2190	94
17...	2005	2910	209	1640	95
JUN					
11...	1315	428	25	30	67
29...	2005	1010	310	845	92
30...	0715	2620	355	2510	95
JUL					
01...	0710	2000	207	1120	98
01...	1230	2170	124	727	98
12...	1330	1060	119	341	99
29...	1605	405	204	223	99
30...	0730	6840	811	15000	94
30...	0735	7490	565	11400	93
30...	1050	6070	517	8470	95
30...	1155	5740	393	6090	99
30...	1310	5540	588	8800	91
30...	1425	5060	427	5830	98
30...	1530	4830	515	6720	97
31...	0915	1110	126	378	94
AUG					
01...	1050	4410	347	4130	89
01...	1905	3450	237	2670	94
08...	1035	5540	704	10500	89
14...	2005	862	301	701	99
15...	0955	1040	765	2150	10
SEP					
26...	1900	234	175	111	98

STREAMS TRIBUTARY TO LAKE ONTARIO

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY

LOCATION.--Lat 42°44'00", long 77°54'40", Livingston County, Hydrologic Unit 04130002, at Mount Morris Dam on Genesee River, 2.0 mi (3.2 km) northwest of Mount Morris, 5 mi (8 km) upstream from Canaseraga Creek, and 40 mi (64 km) upstream from mouth.

DRAINAGE AREA.--1,075 mi² (2,784 km²).

PERIOD OF RECORD.--January 1952 to current year. Prior to October 1970, published as "Mount Morris Reservoir near Mount Morris."

REVISED RECORDS.--WSP 1437: 1955. WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Apr. 8, 1952, reference point at same site and datum.

REMARKS.--Lake is formed by a concrete gravity-type dam with overflow spillway, completed by Corps of Engineers in 1951 for flood control; first used for flood regulation on Nov. 24, 1951. Usable capacity, 336,800 acre-ft (415 hm³) between elevation 585.0 ft (178.31 m), sill of conduits, and 760.0 ft (231.65 m), crest of spillway. Dead storage, 609 acre-ft (751,000 m³). Discharge is controlled by the operation of nine gates. Water is stored during high flows and released when downstream conditions warrant.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 755.46 ft (230.264 m) June 25, 1972, contents, 322,600 acre-ft (398 hm³); minimum, 584.23 ft (178.073 m) Sept. 2, 1976, contents, 475.8 acre-ft (587,000 m³).

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 744.12 ft (226.808 m) Mar. 6, contents, 286,800 acre-ft (354 hm³); minimum, 584.23 ft (178.073 m) Sept. 2, contents, 475.8 acre-ft (587,000 m³).

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Furnished by Corps of Engineers in 1953)

584.00	436	600.00	5,610	640.00	43,700
586.00	782	605.00	8,250	660.00	78,200
588.00	1,210	610.00	11,600	680.00	119,800
590.00	1,730	620.00	19,800	700.00	166,300
595.00	3,410	630.00	30,500	730.00	245,200
				750.00	305,100

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	592.93	598.14	604.57	608.01	639.97	709.25	624.02	625.34	585.16	599.79	600.67	584.27
2	585.23	599.46	608.95	608.09	639.54	709.92	620.44	621.13	585.32	597.68	601.40	584.27
3	585.21	600.42	607.22	606.50	639.28	717.52	617.22	617.15	585.20	600.69	588.62	584.43
4	585.01	601.35	604.58	605.07	639.48	731.06	613.20	609.72	584.97	598.15	584.55	584.45
5	584.86	602.13	603.15	601.98	639.90	739.75	607.84	592.77	584.85	597.55	584.53	584.45
6	584.74	602.54	606.40	601.65	638.68	743.52	600.26	585.28	584.78	599.91	584.53	584.45
7	584.68	602.65	613.96	604.52	636.66	742.82	592.48	585.71	600.88	584.55	584.50	584.50
8	584.65	602.56	617.67	607.04	633.62	739.98	588.05	585.58	585.88	600.26	596.35	584.44
9	584.64	602.36	617.03	607.58	630.31	736.26	585.30	585.39	584.96	600.90	593.67	584.54
10	584.71	602.38	614.72	607.09	627.35	733.12	585.27	585.26	584.77	601.39	591.69	584.55
11	584.81	605.29	613.68	606.65	625.54	729.03	585.22	585.20	584.66	601.06	590.31	584.85
12	584.69	609.39	612.43	606.53	629.34	724.89	585.22	585.19	584.63	599.74	589.34	585.19
13	584.65	606.59	610.83	606.63	630.80	721.01	585.17	585.31	584.60	600.21	589.20	584.79
14	588.86	601.48	610.59	607.22	632.98	715.80	585.14	585.26	584.60	600.63	589.32	584.50
15	599.73	589.85	622.65	609.87	634.32	710.40	585.04	585.18	584.66	600.46	590.89	584.91
16	602.48	589.09	635.64	613.04	637.48	704.94	585.05	585.15	584.72	600.41	590.78	585.92
17	605.48	588.90	637.63	614.81	655.05	699.43	585.26	588.85	584.77	594.02	589.53	585.76
18	612.12	588.22	636.42	615.43	677.29	693.78	585.11	587.98	585.03	589.16	588.28	586.07
19	623.16	587.72	634.06	615.09	695.74	688.26	585.03	589.90	584.74	586.17	585.29	586.42
20	622.62	587.38	630.94	614.75	706.57	684.28	584.90	591.56	584.89	584.67	585.26	586.36
21	620.54	587.11	627.68	614.89	711.48	680.42	584.82	589.15	595.33	584.62	585.23	586.26
22	617.47	587.35	624.01	615.01	718.93	676.91	586.37	586.45	606.94	584.58	585.16	586.32
23	613.17	587.45	619.91	613.95	726.58	672.59	586.23	585.57	601.35	584.59	585.07	589.18
24	608.33	587.04	615.17	610.68	725.19	667.60	585.27	585.42	595.03	584.58	585.08	594.01
25	605.06	586.73	610.68	607.44	722.12	662.44	594.80	585.26	588.63	584.58	584.96	599.31
26	601.92	593.07	608.53	605.01	719.52	657.13	621.86	585.28	593.52	584.57	584.90	601.34
27	602.22	598.37	607.50	613.97	716.80	651.71	629.95	585.37	597.31	584.50	584.84	603.12
28	598.43	599.69	607.78	632.15	714.21	646.82	632.23	585.33	601.27	584.52	584.78	605.79
29	590.50	601.22	606.98	637.37	711.03	642.03	631.48	585.14	600.15	584.72	584.72	606.36
30	593.18	601.88	605.66	640.05	---	636.44	628.94	585.07	600.52	607.12	584.66	605.62
31	595.76	---	605.39	640.45	---	630.31	---	585.03	---	602.42	584.31	---
MEAN	597.16	596.59	615.56	612.86	667.44	696.76	598.91	590.50	589.30	594.34	588.14	589.21
MAX	623.16	609.39	637.63	640.45	726.58	743.52	632.23	625.34	606.94	607.12	601.40	606.36
MIN	584.64	586.73	603.15	601.65	625.54	630.31	584.82	585.03	584.60	584.50	584.31	584.27
†	4,647	6,909	9,443	43,960	189,500	27,050	27,290	616	5,469	4,036	486	8,220
‡	-85	+38	+41	+561	+2,530	-2,640	+4.0	-434	+82	-23	-58	+130

CAL YR 1975 MEAN 596.89 MAX 665.28 MIN 584.51 † +12
WTR YR 1976 MEAN 611.29 MAX 743.52 MIN 584.27 † -2.3

† Contents, in acre-feet, at end of month.

‡ Change in contents, equivalent in cubic feet per second.

STREAMS TRIBUTARY TO LAKE ONTARIO

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04224775 CANASERAGA CREEK ABOVE DANSVILLE, NY

LOCATION.--Lat 42°32'08", long 77°42'16", Livingston County, Hydrologic Unit 04130002, on right bank on Poags Hole Road, 0.7 mi (1.1 km) upstream from Stony Brook, and 1.7 mi (2.7 km) south of Dansville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--90.0 mi² (233 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 722 ft (220.1 m) above mean sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,570 ft³/s (72.8 m³/s) Feb. 17, 1976, gage height, 5.22 ft (1.591 m); minimum, 7.4 ft³/s (0.21 m³/s) Sept. 11, 1975, gage height, 1.20 ft (0.366 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 17	0630	*2,570 72.8	*5.22 1.591	Mar. 3	1345	2,230 63.2	4.88 1.487
Feb. 22	0815	1,910 54.1	4.56 1.390				

Minimum discharge, 8.0 ft³/s (0.23 m³/s) Sept. 8, 11, gage height, 1.00 ft (0.305 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	33	125	100	130	577	153	150	111	72	265	13
2	90	32	93	88	100	549	147	242	153	52	96	14
3	70	33	83	90	98	1500	141	147	84	47	62	13
4	50	34	76	80	96	1080	119	130	66	39	44	12
5	42	33	73	82	94	666	108	108	55	35	35	12
6	36	31	113	86	90	404	96	93	48	31	45	11
7	31	32	100	90	80	302	87	114	108	30	135	10
8	28	31	84	80	78	242	80	106	74	29	220	9.8
9	30	30	86	76	76	198	76	87	52	27	78	9.8
10	32	56	116	70	74	191	70	76	42	23	60	13
11	30	80	100	74	240	140	70	76	38	29	48	10
12	29	71	90	80	187	130	66	108	34	33	39	13
13	27	90	98	74	208	140	64	80	31	44	36	11
14	25	80	264	100	215	130	59	70	27	42	39	10
15	20	73	882	90	177	120	57	66	26	30	138	10
16	60	78	378	80	749	110	57	62	29	27	57	10
17	50	76	160	76	1930	100	54	114	66	24	38	13
18	260	66	130	70	1440	90	48	160	36	20	31	27
19	108	62	120	66	1480	190	45	156	52	18	25	22
20	119	57	110	74	672	257	41	195	178	16	22	17
21	95	59	100	70	544	257	41	130	116	76	20	22
22	73	59	94	66	1260	206	66	103	171	44	19	19
23	59	55	90	60	606	153	70	87	72	27	18	16
24	51	51	86	70	384	138	62	76	93	24	16	14
25	44	46	90	90	346	130	495	70	114	20	15	13
26	40	44	96	110	328	122	475	98	72	16	20	14
27	38	53	110	656	360	130	337	103	57	16	21	41
28	37	64	92	244	269	181	306	72	48	15	18	39
29	37	57	80	218	224	127	224	60	48	66	15	23
30	35	76	90	167	---	116	162	57	50	127	13	19
31	34	---	130	130	---	108	---	68	---	60	13	---
TOTAL	1733	1642	4339	3507	12535	8784	3876	3264	2151	1159	1701	480.6
MEAN	55.9	54.7	140	113	432	283	129	105	71.7	37.4	54.9	16.0
MAX	260	90	882	656	1930	1500	495	242	178	127	265	41
MIN	20	30	73	60	74	90	41	57	26	15	13	9.8
CFSM	.62	.61	1.56	1.26	4.80	3.14	1.43	1.17	.80	.42	.61	.18
IN.	.72	.68	1.79	1.45	5.18	3.63	1.60	1.35	.89	.48	.70	.20

CAL YR 1975	TOTAL	41020.9	MEAN	112	MAX	1500	MIN	7.9	CFSM	1.24	IN	16.96
WTR YR 1976	TOTAL	45171.6	MEAN	123	MAX	1930	MIN	9.8	CFSM	1.37	IN	18.67

STREAMS TRIBUTARY TO LAKE ONTARIO
04224775 CANASERAGA CREEK ABOVE DANSVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SED- MENT (MG/L)	SUS- PENDE SED- MENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
JAN							
27...	1145	680	361	663	--	--	--
27...	1315	650	252	442	--	--	--
27...	1445	608	210	345	--	--	--
28...	1115	226	63	38	--	--	--
FEB							
11...	1210	323	530	462	--	--	--
11...	1615	297	536	430	20	28	39
17...	1230	2050	2650	14700	24	27	31
17...	1740	1560	1330	5600	--	--	--
18...	1445	1660	1530	6860	17	22	30
19...	1700	1110	600	1800	19	28	39
20...	1145	654	229	404	--	--	--
MAR							
04...	1510	1120	409	1240	--	--	--
05...	1400	636	195	335	--	--	--
APR							
25...	1245	733	3020	5980	--	--	--
25...	1620	895	1260	3050	22	27	39
JUL							
29...	1845	70	366	69	--	--	--
30...	1037	108	132	38	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
JAN							
27...	--	--	82	--	--	--	--
27...	--	--	83	--	--	--	--
27...	--	--	89	--	--	--	--
28...	--	--	85	--	--	--	--
FEB							
11...	--	--	86	--	--	--	--
11...	54	70	88	96	99	100	--
17...	41	56	72	86	93	98	--
17...	--	--	73	--	--	--	--
18...	40	53	72	84	91	--	--
19...	54	68	84	92	97	100	--
20...	--	--	89	--	--	--	--
MAR							
04...	--	--	86	--	--	--	--
05...	--	--	90	--	--	--	--
APR							
25...	--	--	84	--	--	--	--
25...	52	67	83	92	97	99	100
JUL							
29...	--	--	98	--	--	--	--
30...	--	--	93	--	--	--	--

04225000 CANASERAGA CREEK NEAR DANSVILLE, NY

LOCATION.--Lat 42°33'36", long 77°42'57", Livingston County, Hydrologic Unit 04130002, on left bank 200 ft (61 m) upstream from bridge on State Highway 436 (Ossian Street), 0.5 mi (0.8 km) downstream from Mill Creek, and 1 mi (2 km) west of Dansville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--153 mi² (396 km²). October 1917 to September 1919, October 1938 to September 1940, 155 mi² (401 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1910 to December 1912, July 1915 to June 1917, October 1917 to September 1919 (published as "at Cumminsville"), March 1919 to September 1968, July 1970 to September 1976 (discontinued). Monthly discharge only for some periods, published in WSP 1307.

REVISED RECORDS.--WSP 604: 1923-24. WSP 759 Drainage Area. WSP 894: 1935. WSP 1387: 1919. WRD NY 1972: 1967, 1968.

GAGE.--Water-stage recorder. Datum of gage is 640.00 ft (195.072 m) above mean sea level (levels by New York State Conservation Commission). Prior to Oct. 19, 1920, nonrecording gage at or within 1 mi (2 km) of present site at various datums. Oct. 19, 1920 to Sept. 30, 1938, water-stage recorder at present site and datum, and Oct. 1, 1938 to Oct. 8, 1940, water-stage recorder at site 0.9 mi (1.4 km) downstream at datum 15.70 ft (4.785 m) lower.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--59 years (1910-12, 1915-16, 1917-19, 1920-68, 1971-76), 154 ft³/s (4.361 m³/s), 13.67 in/yr (347 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge at present site, 9,600 ft³/s (272 m³/s) June 23, 1972, gage height, 14.85 ft (4.526 m), from floodmarks, from rating curve extended on basis of contracted-opening measurement of peak flow; minimum daily, 3 ft³/s (0.085 m³/s) Apr. 28, 1912.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 17	0515	*3,800 108	*9.85 3.002	Mar. 3	1400	2,760 78.2	9.42 2.871
Feb. 22	0745	2,560 72.5	8.80 2.682				

Minimum discharge, 35 ft³/s (0.99 m³/s) Oct. 15, gage height, 4.92 ft (1.500 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	76	236	195	345	814	285	261	170	111	358	50
2	155	74	163	140	250	837	270	390	244	90	149	51
3	112	76	147	150	210	2080	257	252	167	82	116	50
4	89	79	127	130	200	1630	223	219	125	75	98	49
5	74	76	123	120	190	1140	201	190	100	70	88	49
6	62	71	204	130	170	748	187	173	96	67	90	48
7	54	74	204	140	160	595	177	197	180	67	152	46
8	51	71	151	110	150	492	167	187	123	70	285	45
9	54	71	171	98	140	417	155	164	102	65	138	44
10	60	112	227	94	130	411	152	152	90	59	114	51
11	52	147	204	96	628	395	152	155	84	70	96	48
12	52	123	195	100	496	330	144	190	77	88	88	46
13	49	155	222	96	529	341	144	152	73	152	88	45
14	49	135	581	183	529	310	138	141	68	109	111	43
15	39	123	1770	180	438	289	144	136	68	78	170	42
16	95	135	614	170	1950	270	146	130	73	73	109	43
17	76	131	351	140	2370	235	144	177	109	67	86	46
18	818	115	245	110	1710	212	136	230	75	61	70	62
19	345	108	183	90	2020	330	130	212	102	58	64	59
20	345	102	170	130	961	433	128	336	208	55	62	51
21	255	105	160	120	733	422	123	204	158	118	59	58
22	213	102	150	100	1790	352	144	167	208	90	58	53
23	183	95	140	86	861	280	144	149	128	67	56	46
24	151	92	130	110	562	257	136	136	141	64	55	45
25	123	89	140	160	524	240	635	128	152	58	53	43
26	112	82	150	220	511	223	726	149	111	55	68	44
27	102	99	160	1800	556	231	511	146	118	54	70	73
28	95	112	140	568	428	299	511	121	96	53	58	68
29	92	105	120	529	369	227	390	111	96	108	54	55
30	85	131	135	457	---	208	285	107	92	161	51	50
31	79	---	236	357	---	201	---	121	---	111	50	---
TOTAL	4226	3066	7949	7109	19910	15249	7085	5583	3634	2506	3164	1503
MEAN	136	102	256	229	687	492	236	180	121	80.8	102	50.1
MAX	818	155	1770	1800	2370	2080	726	390	244	161	358	73
MIN	39	71	120	86	130	201	123	107	68	53	50	42
CFSM	.89	.67	1.67	1.50	4.49	3.22	1.54	1.18	.79	.53	.67	.33
IN.	1.03	.75	1.93	1.73	4.84	3.71	1.72	1.36	.88	.61	.77	.37

CAL YR 1975 TOTAL 66522 MEAN 182 MAX 1900 MIN 36 CFSM 1.19 IN 16.17
WTR YR 1976 TOTAL 80984 MEAN 221 MAX 2370 MIN 39 CFSM 1.44 IN 19.69

STREAMS TRIBUTARY TO LAKE ONTARIO

04225000 CANASERAGA CREEK NEAR DANSVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-73, 1975 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
JAN								
27...	1100	2000	406	2190	--	--	--	--
27...	1230	1080	303	884	--	--	--	--
27...	1535	922	212	528	28	38	48	61
FEB								
11...	1315	826	559	1250	--	--	--	--
11...	1650	761	544	1120	--	--	--	--
17...	1330	2060	3340	18600	17	22	27	38
17...	1800	1620	2090	9140	--	--	--	--
18...	1030	1930	2700	14100	14	20	26	42
19...	1815	2520	968	6590	--	--	--	--
20...	0955	992	369	988	--	--	--	--
MAR								
05...	1300	1120	361	1090	--	--	--	--
05...	1615	1620	726	3180	--	--	--	--
APR								
25...	1402	1160	5600	17500	--	--	--	--
25...	1710	1170	1840	5810	--	--	--	--
26...	1055	745	299	601	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
JAN							
27...	--	72	--	--	--	--	--
27...	--	79	--	--	--	--	--
27...	73	89	97	100	100	--	--
FEB							
11...	--	74	--	--	--	--	--
11...	--	78	--	--	--	--	--
17...	52	70	84	94	--	--	--
17...	--	68	--	--	--	--	--
18...	61	86	89	92	95	98	100
19...	--	79	--	--	--	--	--
20...	--	75	--	--	--	--	--
MAR							
05...	--	76	--	--	--	--	--
05...	--	70	--	--	--	--	--
APR							
25...	--	45	--	--	--	--	--
25...	--	62	--	--	--	--	--
26...	--	59	--	--	--	--	--

04226000 KESHEQUA CREEK AT CRAIG COLONY, SONYEA, NY

LOCATION.--Lat 42°40'50", long 77°49'45", Livingston County, Hydrologic Unit 04130002, on left bank 150 ft (46 m) upstream from bridge on private road, on grounds of Craig Colony at Sonyea, 700 ft (213 m) upstream from bridge on State Highway 36, and 2.5 mi (4.0 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--68.8 mi² (178.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1911 to December 1913 (published as "at Sonyea"), September 1915 to December 1917 (published as "near Sonyea") seasonal records only. August 1917 to September 1932, November 1974 to current year. Occasional discharge measurements, water years 1954, 1957-62, 1964, and 1965.

REVISED RECORDS.--WRD NY 1975: Drainage area.

GAGE.--Water-stage recorder and concrete dam. Altitude of gage is 604 ft (184.1 m), from topographic map. Prior to Sept. 30, 1932, nonrecording gages at different sites and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--16 years (1917-32, 1976), 51.9 ft³/s (1.470 m³/s), 10.24 in/yr (260 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,940 ft³/s (168 m³/s) Mar. 14, 1918, May 22, 1919, gage height 5.9 ft (1.80 m) site and datum then in use; maximum gage height, 7.74 ft (2.359 m), Feb. 11, 1976 (ice jam); minimum discharge, about 0.1 ft³/s (0.003 m³/s) Sept. 8-21, 1932, at site then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 26	1800	ice jam	5.92 1.804	Feb. 17	0200	5,260 149	6.12 1.865
Jan. 27	0230	1,590 45.0	3.49 1.064	Feb. 22	0700	1,630 46.2	3.53 1.076
Feb. 2	2015	ice jam	3.37 1.027	Mar. 3	1315	*5,920 168	6.49 1.978
Feb. 11	0330	ice jam	*7.74 2.359	April 25	1315	3,010 85.2	4.71 1.436

Minimum discharge, 4.8 ft³/s (0.136 m³/s) Sept. 8, 9, gage height 0.19 ft (0.058 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	12	54	26	64	400	94	69	78	32	205	6.2
2	21	12	33	22	60	500	99	84	99	21	39	6.7
3	18	13	26	25	56	3120	84	63	41	19	26	6.2
4	14	14	20	22	54	1440	67	57	30	16	18	6.2
5	12	14	22	21	52	580	54	47	25	14	14	6.7
6	11	12	47	20	52	249	50	41	22	13	13	6.2
7	9.4	12	56	23	52	164	44	67	138	12	23	5.7
8	9.4	12	30	21	52	130	41	60	48	12	112	5.2
9	9.4	12	33	26	52	112	38	45	30	12	34	4.8
10	11	16	92	35	68	118	36	39	24	9.9	22	6.2
11	9.4	28	69	33	160	80	36	47	20	23	16	11
12	9.4	19	54	30	140	72	32	99	17	30	13	9.4
13	9.4	23	65	27	200	80	34	51	15	17	14	6.7
14	10	20	364	80	180	68	30	41	16	14	13	5.7
15	9.4	19	382	70	170	65	30	38	14	13	20	5.7
16	12	19	170	62	678	59	36	36	17	12	17	5.7
17	14	19	80	42	1590	60	32	179	31	11	12	7.7
18	188	17	56	30	768	57	28	201	17	9.4	9.9	16
19	54	15	38	32	753	252	26	120	20	8.0	8.9	14
20	53	15	40	38	285	227	24	179	46	7.0	8.0	9.4
21	40	15	38	37	425	201	26	84	47	20	7.0	13
22	28	18	36	36	768	136	182	60	73	19	6.6	11
23	22	15	35	45	228	94	94	51	34	11	6.2	8.8
24	19	14	32	70	201	82	65	44	41	11	5.9	8.2
25	17	14	45	64	172	71	1100	41	63	8.4	7.7	7.7
26	16	14	52	120	152	63	574	50	33	7.5	7.2	7.7
27	15	15	58	740	218	76	256	41	52	6.6	8.2	21
28	14	19	47	200	179	128	176	32	22	6.6	7.7	18
29	14	19	37	130	141	73	115	29	19	56	7.2	12
30	13	19	36	80	---	63	82	29	25	80	6.2	9.4
31	12	---	100	70	---	57	---	36	---	63	5.7	---
TOTAL	707.8	485	2247	2277	7970	8877	3585	2060	1157	594.4	713.4	268.2
MEAN	22.8	16.2	72.5	73.5	275	286	120	66.5	38.6	19.2	23.0	8.94
MAX	188	28	382	740	1590	3120	1100	201	138	80	205	21
MIN	9.4	12	20	20	52	57	24	29	14	6.6	5.7	4.8
CFSM	.33	.24	1.05	1.07	4.00	4.16	1.74	.97	.56	.28	.33	.13
IN.	.38	.26	1.21	1.23	4.31	4.80	1.94	1.11	.63	.32	.39	.15

CAL YR 1975 TOTAL 23646.9 MEAN 64.8 MAX 1060 MIN 3.6 CFSM .94 IN 12.79
WTR YR 1976 TOTAL 30941.8 MEAN 84.5 MAX 3120 MIN 4.8 CFSM 1.23 IN 16.73

STREAMS TRIBUTARY TO LAKE ONTARIO

04226000 KESHEQUA CREEK AT CRAIG COLONY, SONYEA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
JAN								
14...	0910	90	332	81	--	--	--	--
14...	1530	98	366	97	39	44	56	64
14...	1825	88	91	22	--	--	--	--
27...	1610	432	267	311	--	--	--	--
27...	1620	432	242	282	--	--	--	--
27...	1815	374	188	190	--	--	--	--
28...	1000	188	56	28	--	--	--	--
FEB								
11...	0900	194	1100	576	29	39	49	62
11...	1815	38	868	89	--	--	--	--
17...	1550	702	1460	2770	--	--	--	--
17...	1705	654	1340	2370	34	40	52	68
18...	0935	920	2760	6860	18	23	28	38
18...	1410	976	3830	10100	14	20	27	36
19...	1115	572	853	1320	--	--	--	--
19...	1415	485	1300	1700	--	--	--	--
20...	0850	289	183	143	--	--	--	--
MAR								
05...	1045	440	472	561	--	--	--	--
05...	1900	430	280	325	--	--	--	--
APR								
22...	0930	220	369	219	--	--	--	--
25...	1300	3000	6470	52400	19	25	33	45
25...	1755	1510	2369	9660	26	34	46	59
26...	0920	682	519	956	27	33	41	51
26...	1630	470	219	278	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
JAN							
14...	--	85	--	--	--	--	--
14...	81	94	97	99	--	--	--
14...	--	92	--	--	--	--	--
27...	--	92	--	--	--	--	--
27...	--	94	--	--	--	--	--
27...	--	95	--	--	--	--	--
28...	--	95	--	--	--	--	--
FEB							
11...	74	85	92	100	--	--	--
11...	--	52	--	--	--	--	--
17...	--	91	--	--	--	--	--
17...	82	92	96	98	100	--	--
18...	52	74	86	93	100	--	--
18...	45	55	61	65	67	72	86
19...	--	90	--	--	--	--	--
19...	--	44	47	53	73	91	96
20...	--	86	--	--	--	--	--
MAR							
05...	--	67	--	--	--	--	--
05...	--	81	--	--	--	--	--
APR							
22...	--	94	--	--	--	--	--
25...	58	70	82	89	95	98	--
25...	72	87	94	98	100	--	--
26...	56	66	69	72	89	96	99
26...	--	88	--	--	--	--	--

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LOCATION.--Lat 42°44'13", long 77°50'26", Livingston County, Hydrologic Unit 04130002, on left bank 30 ft (9 m) upstream from bridge on State Highway 408 at Shakers Crossing, 1.3 mi (2.1 km) upstream from mouth, and 1.5 mi (2.4 km) northeast of Mount Morris. Water-quality sampling site at discharge station.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Datum of gage is 545.52 ft (166.274 m) above mean sea level. Prior to October 1974, at site 30 ft (9 m) downstream at same datum. Prior to November 1958, at site 40 ft (12 m) downstream at datum 5.52 ft (1.682 m) lower. April 1968 to September 1970, and since October 1974, auxiliary water-stage recorder 0.6 mi (1.0 km) downstream from base gage.

EXTREMES FOR PERIODS OF RECORD.--Maximum discharge, 5,270 ft³/s (149 m³/s) Mar. 4, 1976, gage height, 13.33 ft (4.063 m); maximum gage height, 23.62 ft (7.199 m) present datum, May 17, 1916 (backwater from Genesee River); minimum discharge, 4.5 ft³/s (0.12 m³/s) Aug. 19, 1970, gage height, 2.26 ft (0.689 m), result of temporary regulation.

Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)		Date	Time	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
Feb. 19	1400	3,890	110	11.72	3.572	Mar. 4	1700	*5,270	149	*13.33	4.063
Feb. 22	2030	3,050	86.4	10.59	3.228						

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	113	263	350	620	1200	673	498	278	214	1160	73
2	187	110	236	290	450	1800	555	658	541	181	564	76
3	187	110	198	280	410	3470	539	526	351	155	341	75
4	146	113	163	240	420	4970	461	488	267	138	242	73
5	123	110	158	210	390	4510	428	463	200	124	196	73
6	113	104	198	190	370	3190	403	319	178	113	172	71
7	104	104	319	220	350	2540	324	344	349	107	181	69
8	100	103	204	210	340	1220	293	397	326	113	420	68
9	101	101	196	180	340	1640	276	317	218	110	314	61
10	110	110	427	180	360	1270	267	280	180	99	234	66
11	103	226	423	200	1400	1340	254	269	162	109	179	79
12	99	156	343	220	2070	1100	246	404	146	182	153	76
13	98	206	332	230	1860	920	240	324	133	234	165	69
14	97	168	740	380	2000	720	226	269	126	222	161	63
15	91	169	1390	420	1420	706	222	252	123	148	278	61
16	115	165	1300	330	1980	723	230	234	126	127	200	64
17	118	169	600	240	3290	727	232	445	200	121	151	66
18	709	153	300	200	3590	672	200	504	155	101	121	91
19	690	139	240	170	3850	860	198	631	136	92	108	109
20	617	133	220	250	3010	1500	194	650	342	87	104	87
21	574	131	200	260	2040	1200	194	552	269	123	98	92
22	438	138	190	210	2760	1230	343	392	401	170	94	84
23	361	129	200	140	2290	971	367	333	412	102	91	70
24	254	123	170	110	1450	886	254	297	242	97	82	66
25	172	118	190	160	1300	814	1400	269	263	85	79	61
26	156	115	230	460	1100	763	2200	286	234	78	79	61
27	143	120	300	1500	1000	728	1270	295	333	74	120	98
28	138	146	250	1600	952	721	1030	244	210	74	94	120
29	128	149	250	1000	689	705	939	212	200	282	84	87
30	123	146	260	680	---	629	650	198	189	538	79	75
31	118	---	350	540	---	584	---	212	---	191	75	---
TOTAL	6680	4077	10840	11650	42101	44309	15108	11562	7290	4591	6419	2284
MEAN	215	136	350	376	1452	1429	504	373	243	148	207	76.1
MAX	709	226	1390	1600	3850	4970	2200	658	541	538	1160	120
MIN	91	101	158	110	340	584	194	198	123	74	75	61
CFSM	.65	.41	1.05	1.13	4.36	4.29	1.51	1.12	.73	.44	.62	.23
IN.	.75	.46	1.21	1.30	4.70	4.95	1.69	1.29	.81	.51	.72	.26
CAL YR 1975	TOTAL	121728	MEAN	334	3100	MIN	30	CFSM	1.00	IN	13.60	
WTR YR 1976	TOTAL	166911	MEAN	456	4970	MIN	61	CFSM	1.37	IN	18.65	

STREAMS TRIBUTARY TO LAKE ONTARIO

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1965, 1972, 1975 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: March 1975 to current year.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,940 mg/L May 6, 1975; minimum daily mean, 3 mg/L Dec. 21, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 35,900 tons (32,600 tonnes) Mar. 4, 1976; minimum daily, 0.90 ton (0.81 tonne) July 10, 1975.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,820 mg/L April 25; minimum daily mean, 3 mg/L Dec. 21.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 35,900 tons (32,600 tonnes) Mar. 4; minimum daily, 1.6 tons (1.4 tonnes) Dec. 21.

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	167	43	19	113	46	14	263	34	24
2	187	57	29	110	28	8.3	236	30	19
3	187	55	28	110	40	12	198	20	11
4	146	44	17	113	21	6.4	163	17	7.5
5	123	64	21	110	28	8.3	158	16	6.8
6	113	42	13	104	41	12	198	22	12
7	104	33	9.3	104	38	11	319	64	55
8	100	36	9.7	103	27	7.5	204	23	13
9	101	40	11	101	20	5.5	196	22	12
10	110	33	9.8	110	21	6.2	427	121	150
11	103	32	8.9	226	78	48	423	42	48
12	99	34	9.1	156	64	27	343	38	35
13	98	36	9.5	206	66	37	332	41	37
14	97	36	9.4	168	32	15	740	687	1590
15	91	28	6.9	169	20	9.1	1390	1040	3890
16	115	62	19	165	34	15	1300	615	2160
17	118	45	14	169	31	14	600	205	332
18	709	1520	3750	153	20	8.3	300	75	61
19	690	1170	2220	139	32	12	240	39	25
20	617	285	475	133	33	12	220	8	4.8
21	574	135	209	131	19	6.7	200	3	1.6
22	438	114	135	138	30	11	190	6	3.1
23	361	102	99	129	31	11	200	16	8.6
24	254	83	57	123	19	6.3	170	13	6.0
25	172	63	29	118	33	11	190	12	6.2
26	156	48	20	115	27	8.4	230	23	14
27	143	35	14	120	21	6.8	300	17	14
28	138	52	19	146	35	14	250	44	30
29	128	36	12	149	30	12	250	100	67
30	123	40	13	146	28	11	260	440	309
31	118	22	7.0	---	---	---	350	480	454
TOTAL	6680	---	7302.6	4077	---	386.8	10840	---	9406.6

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	350	61	58	620	11	18	1200	765	2850
2	290	42	33	450	10	12	1800	915	4500
3	280	78	59	410	12	13	3470	1470	15300
4	240	101	65	420	12	14	4970	2710	35900
5	210	100	57	390	11	12	4510	570	6940
6	190	55	28	370	1020	984	3190	425	3660
7	220	24	14	350	1840	1750	2540	455	3120
8	210	20	11	340	966	869	1220	1650	5440
9	180	20	9.7	340	813	748	1640	332	1470
10	180	20	9.7	360	709	691	1270	257	881
11	200	10	5.4	1400	1330	5340	1340	170	615
12	220	8	4.8	2070	1680	9390	1100	90	267
13	230	7	4.3	1860	2250	11300	920	170	407
14	380	36	50	2000	1040	5620	720	270	525
15	420	51	62	1420	624	2420	706	85	162
16	330	20	18	1980	727	3840	723	54	105
17	240	11	7.1	3290	562	4980	727	46	90
18	200	11	5.9	3590	720	6980	672	41	74
19	170	11	5.0	3850	1100	11500	860	56	130
20	250	12	8.1	3010	573	4660	1500	163	660
21	260	14	9.8	2040	613	3350	1200	54	175
22	210	6	3.4	2760	1080	8160	1230	62	206
23	140	22	8.3	2290	759	4720	971	56	147
24	110	19	5.6	1450	330	1330	886	55	132
25	160	28	12	1300	344	1210	814	55	121
26	460	83	130	1100	183	497	763	50	103
27	1500	295	1230	1000	99	266	728	49	96
28	1600	158	696	952	75	194	721	63	123
29	1000	392	1060	689	64	119	705	49	93
30	680	610	1120	---	---	---	629	45	76
31	540	288	420	---	---	---	584	40	63
TOTAL	11650	---	5210.1	42101	---	90987	44309	---	84431
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	673	31	56	498	61	82	278	44	33
2	555	22	33	658	80	142	541	103	156
3	539	20	29	526	55	78	351	34	32
4	461	17	21	488	38	50	267	28	20
5	428	22	25	463	30	38	200	23	12
6	403	22	24	319	34	29	178	25	12
7	324	24	21	344	27	25	349	120	137
8	293	25	20	397	21	23	326	92	81
9	276	25	19	317	22	19	218	47	28
10	267	25	18	280	30	23	180	34	17
11	254	26	18	269	26	19	162	33	14
12	246	25	17	404	41	45	146	32	13
13	240	31	20	324	22	19	133	30	11
14	226	25	15	269	31	23	126	30	10
15	222	25	15	252	52	35	123	29	9.6
16	230	28	17	234	54	34	126	30	10
17	232	31	19	445	118	148	200	67	36
18	200	29	16	504	136	210	155	30	13
19	198	44	24	631	161	287	136	27	9.9
20	194	54	28	650	190	335	342	124	119
21	194	56	29	552	52	78	269	47	34
22	343	95	88	392	58	61	401	219	244
23	367	59	58	333	29	26	412	135	153
24	254	60	41	297	29	23	242	40	26
25	1400	2820	14100	269	28	20	263	46	33
26	2200	1270	8860	286	31	24	234	25	16
27	1270	170	607	295	25	20	333	68	61
28	1030	142	395	244	25	16	210	27	15
29	939	112	284	212	27	15	200	30	16
30	650	72	126	198	26	14	189	28	14
31	---	---	---	212	26	15	---	---	---
TOTAL	15108	---	25043	11562	---	1976	7290	---	1385.5

STREAMS TRIBUTARY TO LAKE ONTARIO

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	214	30	17	1160	1580	5030	73	29	5.7
2	181	25	12	564	1070	1630	76	34	7.0
3	155	24	10	341	615	566	75	40	8.1
4	138	25	9.3	242	310	203	73	37	7.3
5	124	26	8.7	196	182	96	73	39	7.7
6	113	26	7.9	172	130	60	71	35	6.7
7	107	27	7.8	181	98	48	69	27	5.0
8	113	28	8.5	420	178	214	68	27	5.0
9	110	28	8.3	314	57	61	61	39	6.4
10	99	29	7.8	234	62	39	66	36	6.4
11	109	36	11	179	54	26	79	28	6.0
12	182	59	29	153	45	19	76	32	6.6
13	234	70	44	165	46	20	69	30	5.6
14	222	50	30	161	38	17	63	34	5.8
15	148	32	13	278	198	159	61	38	6.3
16	127	30	10	200	177	96	64	37	6.4
17	121	30	9.8	151	67	27	66	42	7.5
18	101	27	7.4	121	44	14	91	74	18
19	92	27	6.7	108	41	12	109	39	11
20	87	27	6.3	104	43	12	87	38	8.9
21	123	40	13	98	41	11	92	36	8.9
22	170	32	15	94	40	10	84	24	5.4
23	102	25	6.9	91	39	9.6	70	16	3.0
24	97	26	6.8	82	33	7.3	66	20	3.6
25	85	27	6.2	79	38	8.1	61	22	3.6
26	78	27	5.7	79	25	5.3	61	25	4.1
27	74	27	5.4	120	42	14	98	27	7.1
28	74	29	5.8	94	41	10	120	24	7.8
29	282	412	814	84	31	7.0	87	11	2.6
30	538	706	1120	79	41	8.7	75	44	8.9
31	191	349	323	75	32	6.5	---	---	---
TOTAL	4591	---	2586.3	6419	---	8446.5	2284	---	202.4

STREAMS TRIBUTARY TO LAKE ONTARIO

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04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIMENT (MG/L)	SUS- PENDED SEDIMENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
18...	1155	929	2386	5990	--	--	--
18...	1520	797	1519	3270	--	--	--
19...	1645	640	1114	1930	--	--	--
DEC							
15...	0830	1340	1060	3840	--	--	--
15...	1130	1560	1110	4680	--	--	--
15...	1348	1460	1220	4810	--	--	--
JAN							
26...	1515	164	498	221	33	44	60
27...	0800	2220	310	1860	--	--	--
27...	1330	1500	371	1500	34	45	53
27...	1620	1860	428	2150	--	--	--
27...	1650	1850	464	2320	--	--	--
28...	1640	1490	140	752	--	--	--
29...	0900	1860	462	2320	--	--	--
29...	1610	1840	442	2200	--	--	--
30...	0900	1610	648	2820	--	--	--
30...	1600	1550	659	2750	--	--	--
31...	0930	1270	333	1140	--	--	--
31...	1630	1130	73	223	--	--	--
FEB							
06...	0730	620	2380	3980	18	20	27
06...	1630	455	1870	2300	20	27	36
07...	0720	615	2110	3500	20	24	32
07...	1620	491	1870	2490	22	24	32
08...	0900	544	722	1060	53	62	72
08...	1620	97	1120	293	46	48	53
09...	0730	462	845	1050	63	67	69
09...	1600	453	735	899	--	--	--
10...	0730	398	745	801	--	--	--
10...	1500	305	651	536	51	53	63
11...	0725	255	1250	861	--	--	--
11...	1640	2290	1580	9770	16	25	33
12...	0730	2170	1250	7320	44	58	67
12...	1630	1850	2140	10700	16	22	29
13...	0730	1790	2510	12100	--	--	--
14...	0730	2150	1180	6850	31	42	51
14...	1620	1920	813	4220	--	--	--
15...	0730	1510	698	2850	52	59	63
15...	1640	1260	546	1860	58	69	69
16...	0720	1570	820	3480	64	77	85
16...	1620	3530	556	5300	--	--	--
16...	1630	2150	688	3990	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT						
18...	--	--	79	--	--	--
18...	--	--	81	--	--	--
19...	--	--	88	--	--	--
DEC						
15...	--	--	66	--	--	--
15...	--	--	63	--	--	--
15...	--	--	56	--	--	--
JAN						
26...	72	83	94	97	100	--
27...	--	--	91	--	--	--
27...	72	86	95	99	100	--
27...	--	--	94	--	--	--
27...	--	--	71	--	--	--
28...	--	--	87	--	--	--
29...	--	--	91	--	--	--
29...	--	--	95	--	--	--
30...	--	--	93	--	--	--
30...	--	--	91	--	--	--
31...	--	--	91	--	--	--
31...	--	--	89	--	--	--
FEB						
06...	36	48	72	89	99	100
06...	47	64	82	95	99	100
07...	43	55	73	88	98	100
07...	46	60	83	96	99	100
08...	82	91	99	100	--	--
08...	58	71	83	92	99	100
09...	77	90	99	100	--	--
09...	--	--	100	--	--	--
10...	--	--	99	100	--	--
10...	67	84	96	100	--	--
11...	--	--	90	100	--	--
11...	40	55	75	90	98	100
12...	78	88	97	84	97	100
12...	41	55	75	92	99	100
13...	--	--	67	--	--	--
14...	63	76	92	99	100	--
14...	--	--	99	100	--	--
15...	74	89	99	100	--	--
15...	72	83	98	100	--	--
16...	91	96	93	100	--	--
16...	--	--	99	100	--	--
16...	--	--	97	100	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

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04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
FEB							
17...	0720	3190	551	4750	--	--	--
18...	0730	3420	783	7230	--	--	--
18...	1025	3510	2400	22700	19	23	28
18...	1620	3650	663	6530	--	--	--
19...	0730	3450	1060	11000	43	56	57
19...	0930	3860	2720	28300	21	27	37
19...	1620	3880	801	8390	--	--	--
20...	1115	3030	834	6820	--	--	--
MAR							
05...	0915	4760	527	6770	--	--	--
05...	1630	4240	530	6070	26	33	40
APR							
25...	1030	239	3130	2020	35	42	52
25...	1430	832	4732	10600	36	43	56
25...	1600	2460	3790	25200	27	36	48
25...	1830	2970	5020	40300	22	29	38
26...	1030	2320	428	2680	28	36	45
26...	1630	693	165	309	--	--	--
26...	1650	1870	302	1530	--	--	--
27...	0630	1410	226	860	--	--	--
27...	1030	1300	162	569	--	--	--
27...	1200	1240	139	465	--	--	--
28...	0900	1030	139	387	--	--	--
28...	1200	1030	155	431	--	--	--
28...	1830	1030	150	417	--	--	--
29...	0930	913	117	288	--	--	--
29...	1230	916	111	275	--	--	--
29...	1740	909	93	228	--	--	--
30...	0655	670	90	163	--	--	--
30...	1230	647	60	105	--	--	--
30...	1730	628	61	103	--	--	--
MAY							
01...	0630	511	58	80	--	--	--
01...	1530	492	64	85	--	--	--
18...	0930	382	66	68	--	--	--
AUG							
16...	1400	189	192	98	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
FER						
17...	--	--	99	--	--	--
18...	--	--	97	99	100	--
18...	36	48	68	84	95	100
18...	--	--	96	10	--	--
19...	59	67	77	86	98	100
19...	47	59	72	83	90	--
19...	--	--	97	99	100	--
20...	--	--	66	--	--	--
MAR						
05...	--	--	72	--	--	--
05...	48	57	67	80	89	100
APR						
25...	70	86	98	99	100	--
25...	56	74	90	99	100	--
25...	64	78	92	96	--	--
25...	50	62	83	98	100	--
26...	59	70	87	97	100	--
26...	--	--	90	--	--	--
26...	--	--	78	--	--	--
27...	--	--	70	--	--	--
27...	--	--	90	--	--	--
27...	--	--	89	--	--	--
28...	--	--	89	--	--	--
28...	--	--	87	--	--	--
28...	--	--	90	--	--	--
29...	--	--	86	--	--	--
29...	--	--	90	--	--	--
29...	--	--	87	--	--	--
30...	--	--	84	--	--	--
30...	--	--	88	--	--	--
30...	--	--	90	--	--	--
MAY						
01...	--	--	81	--	--	--
01...	--	--	82	--	--	--
16...	--	--	84	--	--	--
JUN						
16...	--	--	100	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

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04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY

LOCATION.--Lat 42°46'00", long 77°50'21", Livingston County, Hydrologic Unit 04130002, on right bank 100 ft (30 m) north of Jones Bridge Road, 0.8 mi (1.3 km) downstream from Canaseraga Creek, and 2.8 mi (4.5 km) northeast of Mount Morris. Water-quality sampling site at bridge on U.S. Highway 20A (State Highway 39), 1.5 mi (2.4 km) east of Cuylerville, and 1.2 mi (1.9 km) downstream from discharge station.

DRAINAGE AREA.--1,417 mi² (3,670 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1903 to April 1906, August 1908 to April 1914, July 1915 to current year. Prior to 1968, published as "at Jones Bridge."

REVISED RECORDS.--WSP 1277: 1952. WSP 1387: 1913. WSP 1437: 1955. WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 540.12 ft (164.629 m) above mean sea level. Prior to Sept. 11, 1915, nonrecording gage on bridge at datum 2.85 ft (0.869 m) lower.

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake (see station 04221991) since July 1928, and at high flows since November 1951 by Mount Morris Lake (see station 04224000). Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake and Mount Morris Lake.

AVERAGE DISCHARGE.--66 years (1908-13, 1915-76), 1,637 ft³/s (46.36 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,100 ft³/s (1,560 m³/s) May 17, 1916, gage height, 25.44 ft (7.754 m); minimum, 12 ft³/s (0.34 m³/s) July 23, 1955, gage height, 0.22 ft (0.067 m), partially obstructed intake; minimum daily, 30 ft³/s (0.85 m³/s) Aug. 8, 1909.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,980 ft³/s (283 m³/s) Mar. 14, gage height, 15.04 ft (4.584 m); maximum gage height, 16.18 ft (4.932 m) Mar. 10 (backwater from ice jam); minimum discharge, 72 ft³/s (2.04 m³/s) Sept. 26, gage height, 1.41 ft (0.430 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3920	536	1110	2300	3500	8800	5550	4820	1410	2340	3280	278
2	1750	485	1820	2300	3200	6600	4520	4820	2030	1670	3650	278
3	1830	505	2260	2100	1400	4800	4310	4680	1510	1470	1900	278
4	1440	515	2130	2000	1400	6000	4050	4580	1080	1530	1270	261
5	1230	520	1540	1700	1800	5600	3750	3270	814	942	942	264
6	1100	520	1080	1300	2700	5600	3210	1690	705	652	792	261
7	988	520	1380	920	3100	8800	2170	1680	1420	635	1160	232
8	932	515	1280	900	3300	8200	1950	2160	1960	693	3950	235
9	884	510	1960	880	3300	8600	1770	1760	1100	596	3410	222
10	972	520	2830	920	3100	7800	1640	1460	814	699	2140	222
11	1080	675	2760	940	4000	5600	1550	1320	670	950	1440	244
12	932	1300	2620	980	4700	5400	1490	1660	613	2070	1040	306
13	860	2120	2570	1100	4500	8200	1420	1610	526	1250	888	313
14	820	2440	3170	1200	4700	9940	1350	1250	484	1010	828	271
15	553	1550	4150	1300	4200	9880	1240	1110	474	896	1590	288
16	531	1240	4750	1400	4800	9670	1200	1040	607	989	1440	295
17	733	1210	4950	1300	5000	9200	1410	2770	873	1420	1080	285
18	2780	1060	4500	1300	4400	9000	1200	3160	1130	757	747	313
19	4050	948	4200	1200	5000	9000	1070	3590	741	729	607	474
20	4160	852	4100	1300	4300	9560	972	3940	1200	569	526	469
21	4050	799	4000	1300	3300	9130	860	3280	1740	521	474	417
22	3790	852	3900	1200	4800	8890	2310	2440	3740	966	430	399
23	3530	876	3700	1700	6000	8450	2890	1950	3370	821	373	403
24	2730	771	3300	1900	7800	8140	1760	1690	1750	647	380	324
25	2100	704	2400	1800	8600	7860	3850	1420	1580	542	340	85
26	1410	580	2100	1900	8800	7570	5670	1590	1790	474	328	73
27	908	580	2100	2400	8600	7300	3140	1840	1310	403	360	98
28	1250	675	2000	2200	8600	7230	3480	1530	705	382	356	146
29	932	738	2000	2100	8200	6860	4620	1150	1170	515	336	717
30	681	757	2000	2700	---	6530	5080	1060	1880	3120	310	711
31	564	---	2100	3500	---	6180	---	1040	---	4620	288	---
TOTAL	53490	25873	84760	50040	137100	240390	79482	71360	39196	34878	36655	9162
MEAN	1725	862	2734	1614	4728	7755	2649	2302	1307	1125	1182	305
MAX	4160	2440	4950	3500	8800	9940	5670	4820	3740	4620	3950	717
MIN	531	485	1080	880	1400	4800	860	1040	474	382	288	73
CAL YR 1975	TOTAL	766089	MEAN	2099	MAX	7780	MIN	155				
WTR YR 1976	TOTAL	862386	MEAN	2356	MAX	9940	MIN	73				

STREAMS TRIBUTARY TO LAKE ONTARIO

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955, 1956, 1964, 1965, 1972, 1975 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April 1975 to current year.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,530 mg/L Mar. 8, 1976; minimum daily mean, 5 mg/L July 23, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 55,900 tons (50,700 tonnes) Mar. 8, 1976; minimum daily, 2.0 tons (1.8 tonnes) Sept. 26, 1976.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,530 mg/L Mar. 8; minimum daily mean, 8 mg/L Sept. 27.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 55,900 tons (50,700 tonnes) Mar. 8; minimum daily, 2.0 tons (1.8 tonnes) Sept. 26.

SUSPENDED SEDIMENT, OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3920	920	9740	536	43	62	1110	110	330
2	1750	1120	5290	465	15	20	1820	103	506
3	1830	1400	6920	505	11	15	2260	100	610
4	1440	1270	4940	515	14	19	2130	52	299
5	1230	600	1990	520	21	29	1540	21	87
6	1100	80	238	520	13	18	1080	28	82
7	988	290	774	520	12	17	1380	90	335
8	932	240	604	515	17	24	1280	40	138
9	864	230	549	510	13	18	1960	91	566
10	972	56	147	520	20	28	2830	177	1350
11	1080	40	117	675	55	100	2760	120	894
12	932	27	68	1300	115	404	2620	100	707
13	860	22	51	2120	195	1120	2570	120	833
14	820	27	60	2440	105	692	3170	1090	9590
15	553	20	30	1550	80	335	4150	791	8690
16	531	13	19	1240	50	167	4750	470	6030
17	733	27	53	1210	43	140	4950	500	6680
18	2780	849	8320	1060	43	123	4500	420	5100
19	4050	1140	12500	948	31	79	4200	320	3630
20	4160	780	8760	852	30	69	4100	152	1680
21	4050	155	1690	799	22	47	4000	127	1370
22	3740	115	1180	852	25	58	3900	100	1050
23	3530	105	1000	876	22	52	3700	53	529
24	2730	75	553	771	22	46	3300	35	312
25	2100	55	312	704	20	38	2400	40	259
26	1410	33	126	560	13	20	2100	44	249
27	904	37	91	580	24	38	2100	48	272
28	1250	40	135	675	33	60	2000	68	367
29	932	62	156	738	57	114	2000	43	232
30	681	63	116	757	92	188	2000	87	470
31	564	40	122	---	---	---	2100	115	652
TOTAL	53490	---	66651	25873	---	4140	84760	---	53899

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JANUARY				FEBRUARY				MARCH	
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2300	97	602	3500	63	595	8800	970	23000
2	2300	80	497	3200	52	449	6600	650	11600
3	2100	49	278	1400	25	94	4800	382	5270
4	2000	39	211	1400	24	91	6000	860	13900
5	1700	42	193	1800	70	340	5600	660	9980
6	1300	21	74	2700	92	671	5600	729	11400
7	920	18	45	3100	49	410	8800	963	23600
8	900	32	78	3300	85	757	8200	2530	55900
9	880	45	107	3300	25	223	8600	1480	34400
10	920	15	37	3100	34	285	7800	1160	24400
11	940	12	30	4000	215	2320	5600	840	12700
12	980	19	50	4700	165	2090	5400	640	9330
13	1100	17	50	4500	55	668	8200	600	13300
14	1200	28	91	4700	26	330	9940	740	19900
15	1300	32	112	4200	70	794	9880	480	12800
16	1400	40	151	4800	1180	15800	9670	260	6790
17	1300	51	179	5000	1200	16800	9200	195	4840
18	1300	42	147	4400	260	3090	9000	165	4010
19	1200	20	65	5000	64	864	9000	163	3960
20	1300	37	130	4300	43	499	9560	225	5810
21	1300	32	112	3300	25	223	9130	153	3770
22	1200	22	71	4800	105	1360	8890	150	3600
23	1700	26	119	6000	417	7370	8450	115	2620
24	1900	11	56	7800	772	16300	8140	107	2350
25	1800	18	87	8600	675	15700	7860	97	2060
26	1900	84	446	8800	690	16400	7570	102	2080
27	2400	338	2210	8600	580	13500	7300	105	2070
28	2200	193	1150	8600	700	16300	7230	122	2380
29	2100	160	907	8200	805	17800	6860	143	2650
30	2700	110	802	---	---	---	6530	181	3190
31	3500	72	680	---	---	---	6180	173	2890
TOTAL	50040	---	9767	137100	---	152123	240390	---	336550
APRIL				MAY				JUNE	
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5550	172	2580	4820	95	1240	1410	113	430
2	4520	145	1770	4820	85	1110	2030	185	1010
3	4310	168	1960	4680	90	1140	1510	82	334
4	4050	155	1690	4580	115	1420	1080	38	111
5	3750	153	1550	3270	175	1550	814	28	62
6	3210	127	1100	1690	150	684	705	26	49
7	2170	119	697	1580	80	363	1420	160	803
8	1950	96	505	2160	110	642	1960	135	714
9	1770	115	550	1760	65	309	1100	45	134
10	1640	99	438	1460	60	237	814	32	70
11	1550	93	389	1320	50	178	670	27	49
12	1490	106	426	1660	50	224	613	37	61
13	1420	95	364	1610	39	170	526	28	40
14	1350	99	361	1250	25	84	484	33	43
15	1240	98	328	1110	27	81	474	42	54
16	1200	77	249	1040	87	244	607	45	74
17	1410	82	312	2770	270	2020	873	68	160
18	1200	64	207	3160	266	2270	1130	90	275
19	1070	49	142	3590	256	2480	741	53	106
20	972	40	105	3940	244	2600	1200	64	207
21	860	38	88	3280	130	1150	1740	112	526
22	2310	1060	7170	2440	70	461	3740	423	4820
23	2890	628	5340	1950	30	158	3370	543	5340
24	1760	138	656	1690	35	160	1750	246	1160
25	3850	1170	17000	1420	61	234	1580	215	917
26	5670	939	16000	1590	78	335	1790	182	880
27	3140	320	2710	1840	92	457	1310	78	276
28	3480	285	2680	1530	35	145	705	50	95
29	4620	410	5110	1150	18	56	1170	55	174
30	5080	200	2740	1060	20	57	1880	198	1010
31	---	---	---	1040	18	51	---	---	---
TOTAL	79482	---	75217	71360	---	22310	39196	---	19984

STREAMS TRIBUTARY TO LAKE ONTARIO

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2340	210	1330	3280	245	2170	278	18	14
2	1870	150	676	3650	290	2860	278	21	16
3	1470	87	345	1900	135	693	278	21	16
4	1530	78	322	1270	98	336	261	24	17
5	942	37	94	942	80	203	264	35	25
6	652	20	35	792	57	122	261	33	23
7	635	35	60	1160	83	260	232	26	16
8	693	40	75	3950	580	7120	235	17	11
9	596	14	31	3410	460	4240	222	19	11
10	699	37	70	2140	280	1620	222	19	11
11	950	45	115	1440	150	583	244	28	18
12	2070	310	1890	1040	83	233	306	35	29
13	1250	88	297	488	85	204	313	36	30
14	1010	55	150	828	77	172	271	36	26
15	896	32	77	1590	207	889	288	36	28
16	989	21	56	1440	208	809	295	44	35
17	1420	29	111	1080	97	283	285	46	35
18	757	19	39	747	10	20	313	72	61
19	729	19	37	607	33	54	474	111	142
20	569	12	18	526	33	47	469	110	139
21	521	13	18	474	23	29	417	97	109
22	966	30	78	430	23	27	399	86	93
23	821	18	40	373	22	22	403	75	82
24	647	12	21	380	24	25	324	47	41
25	542	10	15	340	23	21	85	16	3.7
26	474	9	12	328	24	21	73	10	2.0
27	403	11	12	360	29	28	98	8	2.1
28	382	10	10	356	22	21	146	12	4.7
29	515	100	139	336	19	17	717	24	46
30	3120	1060	9910	310	23	19	711	24	46
31	4620	971	13400	288	24	19	---	---	---
TOTAL	34878	---	29483	36655	---	23167	9162	---	1132.5

STREAMS, TRIBUTARY TO LAKE ONTARIO

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04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. \geq 0.002 MM	SUS. SED. FALL DIAM. \geq 0.004 MM	SUS. SED. FALL DIAM. \geq 0.008 MM
OCT							
15...	1230	3520	1051	9990	--	--	--
16...	1445	5510	1145	20100	--	--	--
DEC							
15...	1640	4300	426	4950	--	--	--
17...	1000	4970	506	6790	--	--	--
17...	1305	4920	401	5330	--	--	--
17...	1600	4880	431	5680	--	--	--
JAN							
26...	1400	6110	180	2970	--	--	--
29...	1045	6190	160	2670	--	--	--
FEB							
19...	1220	5150	2220	30900	20	27	36
27...	1310	9410	646	16400	--	--	--
MAR							
04...	1350	13100	711	25100	34	48	61
04...	1445	7850	723	15300	37	47	58
04...	1730	7720	711	14800	38	48	58
05...	0945	6350	641	11000	--	--	--
05...	1515	5840	698	11000	23	30	38
05...	1520	5840	585	9220	--	--	--
13...	1330	8900	465	11200	--	--	--
30...	1315	6520	185	3260	--	--	--
APR							
12...	1400	1480	109	436	--	--	--
19...	0630	1080	455	1330	--	--	--
20...	0620	981	703	1850	--	--	--
21...	0630	903	650	1590	--	--	--
21...	1530	828	623	1390	--	--	--
21...	1600	807	919	2000	--	--	--
22...	0630	1530	825	3410	--	--	--
22...	1530	2940	830	6590	--	--	--
23...	1600	2540	178	1220	--	--	--
24...	0930	1750	162	765	--	--	--
24...	1600	1590	107	459	--	--	--
25...	0830	2000	128	691	--	--	--
25...	1000	2240	1750	10600	7	20	37
25...	1555	5570	2314	34800	--	--	--
25...	1630	5410	2510	39400	26	31	41
25...	1800	6470	2110	36900	--	--	--
25...	2015	6660	2510	45100	28	30	40
26...	1000	5540	1030	18200	37	50	64
26...	1630	5220	389	5480	29	53	68
27...	0930	3190	459	3950	--	--	--
27...	1030	3160	354	3050	--	--	--
27...	1215	3100	428	3580	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FIVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
OCT						
18...	--	--	94	--	--	--
18...	--	--	76	--	--	--
DEC						
15...	--	--	68	--	--	--
17...	--	--	64	--	--	--
17...	--	--	81	--	--	--
17...	--	--	79	--	--	--
JAN						
28...	--	--	93	--	--	--
29...	--	--	93	--	--	--
FEB						
19...	46	59	78	95	100	--
27...	--	--	72	--	--	--
MAR						
04...	76	85	92	95	10	--
04...	69	92	89	98	--	--
04...	68	81	91	98	--	--
05...	--	--	77	--	--	--
05...	46	57	72	84	100	--
05...	--	--	78	--	--	--
13...	--	--	73	--	--	--
30...	--	--	71	--	--	--
APR						
12...	--	--	88	--	--	--
19...	--	--	100	--	--	--
20...	--	--	85	--	--	--
21...	--	--	84	--	--	--
21...	--	--	93	--	--	--
21...	--	--	72	--	--	--
22...	--	--	75	--	--	--
22...	--	--	73	--	--	--
23...	--	--	78	--	--	--
24...	--	--	81	--	--	--
24...	--	--	93	--	--	--
25...	--	--	91	--	--	--
25...	58	76	95	99	100	--
25...	--	--	84	--	--	--
25...	58	74	90	96	100	--
25...	--	--	96	100	--	--
25...	50	64	76	82	92	100
26...	72	42	94	98	100	--
26...	78	64	90	96	100	--
27...	--	--	87	94	99	100
27...	--	--	90	--	--	--
27...	--	--	95	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

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04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIFVE DIAM. % FINER THAN .062 MM
APR					
27...	1400	3050	322	2650	85
27...	1630	2980	318	2560	79
28...	1015	3230	295	2580	76
28...	1215	3580	293	2830	80
29...	1015	4400	346	4110	91
29...	1300	4700	361	4580	91
30...	0715	5120	234	3240	94
30...	1230	5070	100	1370	84
MAY					
05...	1630	2540	199	1370	95
06...	0930	1710	198	914	100
17...	0930	2080	300	1690	89
17...	1610	39800	242	26000	99
18...	0910	2850	294	2190	99
18...	1300	2780	286	2150	87
18...	1620	3020	265	2160	12
19...	0935	3440	297	3080	93
19...	1630	3360	221	2010	93
20...	1000	4010	225	2450	91
21...	0915	3410	120	1110	95
21...	1640	3000	109	893	96
22...	0900	2510	109	739	95
JUL					
13...	1440	753	75	152	97
30...	1430	3250	1181	10400	92
AUG					
09...	1515	3030	425	3490	94
11...	0915	1430	158	610	89
16...	1220	1530	362	1500	99
16...	1430	1560	241	1020	93

STREAMS TRIBUTARY TO LAKE ONTARIO

04227980 CONESUS LAKE NEAR LAKEVILLE, NY

LOCATION.--Lat 42°47'39", long 77°43'15", Livingston County, Hydrologic Unit 04130003, on west shore of Conesus Lake at Geneseo Water Works pumping station, 300 ft (91 m) east of State Highway 256, and 3.0 mi (4.8 km) south of Lakeville.

DRAINAGE AREA.--69.7 mi² (181 km²).

PERIOD OF RECORD.--July 1963 to current year. Since 1930 in files of village of Geneseo.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage (revised) is at mean sea level. Oct. 1, 1970 to Sept. 30, 1975, at datum 800.00 ft (243.840 m) higher. Prior to Oct. 1, 1970, nonrecording gage at site 200 ft (61 m) downstream at datum 796.59 ft (242.801 m) higher.

REMARKS.--Lake level maintained by plank and pile dam at outlet. Area of water surface, 5.08 mi² (13.2 km²). Daily average of about 2 ft³/s (0.057 m³/s) diverted from lake for water supply for Avon, Geneseo, and Lakeville Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 822.50 ft (250.698 m) June 24, 1972; minimum observed, 816.33 ft (248.817 m) present datum, Nov. 3-8, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 822.08 ft (250.570 m) Mar. 5; minimum, 817.37 ft (249.134 m) Dec. 6.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	818.05	817.82	817.43	818.17	818.79	820.19	819.73	819.33	819.16	818.95	819.08	818.07
2	818.07	817.80	817.42	818.18	818.78	820.27	819.71	819.32	819.18	818.92	819.23	818.04
3	818.06	817.80	817.41	818.20	818.75	820.76	819.67	819.29	819.17	818.88	819.27	818.00
4	818.04	817.79	817.40	818.20	818.72	821.65	819.62	819.26	819.15	818.85	819.26	817.95
5	818.04	817.77	817.39	818.19	818.69	822.05	819.56	819.22	819.12	818.82	819.23	817.92
6	818.02	817.74	817.40	818.18	818.67	822.03	819.50	819.18	819.08	818.78	819.21	817.88
7	818.01	817.73	817.42	818.17	818.63	821.93	819.43	819.17	819.11	818.74	819.18	817.84
8	818.00	817.71	817.42	818.16	818.60	821.79	819.37	819.15	819.10	818.72	819.19	817.81
9	818.00	817.69	817.44	818.15	818.57	821.65	819.31	819.11	819.07	818.71	819.15	817.78
10	817.99	817.70	817.56	818.13	818.54	821.52	819.24	819.07	819.04	818.67	819.10	817.79
11	817.99	817.69	817.60	818.12	818.61	821.40	819.19	819.06	819.01	818.64	819.04	817.76
12	817.99	817.68	817.65	818.11	818.69	821.27	819.13	819.07	818.96	818.62	818.99	817.73
13	818.00	817.66	817.69	818.10	818.76	821.13	819.07	819.05	818.91	818.65	818.99	817.70
14	818.00	817.65	817.77	818.14	818.84	821.00	819.01	819.03	818.87	818.65	818.97	817.68
15	818.00	817.63	817.91	818.15	818.87	820.87	818.97	819.01	818.87	818.66	818.93	817.65
16	817.98	817.61	818.04	818.15	818.95	820.77	818.94	819.00	818.87	818.66	818.88	817.63
17	817.95	817.59	818.10	818.14	819.33	820.67	818.90	819.07	818.88	818.64	818.82	817.63
18	818.01	817.58	818.14	818.13	819.71	820.55	818.86	819.10	818.84	818.60	818.76	817.66
19	818.03	817.57	818.14	818.11	820.08	820.46	818.82	819.14	818.82	818.56	818.70	817.65
20	818.07	817.56	818.14	818.10	820.20	820.44	818.78	819.26	818.84	818.52	818.65	817.63
21	818.08	817.55	818.13	818.08	820.24	820.40	818.75	819.31	818.84	818.52	818.60	817.61
22	818.08	817.54	818.12	818.07	820.41	820.36	818.77	819.32	818.88	818.49	818.55	817.58
23	818.08	817.52	818.10	818.06	820.47	820.28	818.76	819.32	818.88	818.46	818.50	817.55
24	818.06	817.50	818.09	818.05	820.44	820.20	818.74	819.30	818.86	818.43	818.45	817.52
25	818.05	817.48	818.07	818.04	820.39	820.12	818.86	819.28	818.88	818.39	818.40	817.49
26	818.02	817.47	818.10	818.10	820.34	820.05	819.09	819.29	818.85	818.35	818.36	817.48
27	818.00	817.46	818.11	818.48	820.31	819.98	819.22	819.27	818.92	818.31	818.32	817.50
28	817.97	817.45	818.10	818.66	820.26	819.93	819.29	819.24	818.94	818.28	818.28	817.49
29	817.93	817.44	818.09	818.74	820.20	819.86	819.33	819.21	818.96	818.34	818.23	817.47
30	817.89	817.43	818.10	818.78	---	819.80	819.34	819.18	818.96	818.55	818.16	817.45
31	817.86	---	818.14	818.79	---	819.74	---	819.16	---	818.66	818.11	---
MEAN	818.01	817.62	817.83	818.22	819.37	820.75	819.17	819.19	818.97	818.61	818.79	817.70
MAX	818.08	817.82	818.14	818.79	820.47	822.05	819.73	819.33	819.18	818.95	819.27	818.07
MIN	817.86	817.43	817.39	818.04	818.54	819.74	818.74	819.00	818.82	818.28	818.11	817.45
WTR YR 1976	MEAN 818.68		MAX 822.05	MIN 817.39								
CAL YR 1975	MEAN 818.40		MAX 819.75	MIN 817.39								

STREAMS TRIBUTARY TO LAKE ONTARIO

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04228500 GENESEE RIVER AT AVON, NY

LOCATION.--Lat 42°55'04", long 77°45'27", Livingston County, Hydrologic Unit 04130003, on right bank 250 ft (76 m) downstream from bridge on U.S. Highway 20 (State Highway 5), 0.3 mi (0.5 km) west of Avon, and 0.8 mi (1.3 km) downstream from Conesus Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--1,667 mi² (4,318 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1955 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 500.11 ft (152.433 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake (see station 04221990), at high flows by Mount Morris Lake (see station 04224000), and by Conesus Lake (see station 04227980). Monthly figures of discharge and runoff August 1955 to September 1965 adjusted for change in contents in Rushford Lake and Mount Morris Lake.

AVERAGE DISCHARGE.--21 years, 1,890 ft³/s (53.52 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s (467 m³/s) June 25, 1972, gage height, 40.67 ft (12.396 m); minimum, 56 ft³/s (1.59 m³/s) Oct. 5, 1955, gage height, 13.73 ft (4.185 m), from graph based on gage readings.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,200 ft³/s (289 m³/s) Mar. 20, gage height 32.36 ft (9.863 m); maximum gage height, 35.63 ft (10.860 m) Mar. 4 (backwater from ice jam); minimum discharge, 138 ft³/s (3.91 m³/s) Sept. 26, gage height, 14.08 ft (4.292 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5170	663	926	2400	3900	9000	6000	4760	1330	2100	5140	377
2	2220	627	1280	2600	3900	9600	4940	4590	1820	2160	4140	367
3	1680	618	1950	2600	2900	6400	4300	4470	1810	1340	2960	369
4	1530	642	1950	2400	1600	7800	4000	4470	1390	1520	1610	353
5	1280	642	1810	2200	1600	8200	3670	3920	1100	1240	1210	343
6	1150	639	1200	1800	2100	7000	3290	2280	942	932	1020	340
7	1050	636	1330	1400	3000	6600	2510	1750	1010	731	1110	331
8	976	639	1330	1000	3300	9000	1990	2010	1930	784	2660	297
9	936	633	1380	960	3700	9400	1830	2000	1550	763	4110	301
10	923	648	2430	920	3700	9400	1710	1670	1100	749	2420	294
11	1050	732	2750	960	3500	8600	1640	1480	915	775	1700	299
12	1010	831	2560	1000	4500	6600	1570	1570	826	1680	1250	336
13	926	1710	2420	1100	5200	6600	1520	1760	748	1520	1180	396
14	914	1930	3040	1200	5000	9200	1450	1540	682	1120	1200	355
15	786	2000	4360	1400	5200	10100	1380	1320	658	1030	1460	336
16	639	1320	4930	1500	4700	9940	1320	1230	645	944	1630	354
17	672	1230	5190	1600	5400	9610	1430	1700	857	1250	1340	365
18	1350	1160	4800	1500	5600	9230	1380	3260	1080	1050	1010	372
19	3460	1050	4300	1500	4900	9150	1230	3520	1070	800	824	483
20	3880	970	4080	1400	5600	10000	1120	4370	963	738	711	552
21	3920	914	4000	1500	4600	9840	1080	4350	1530	618	640	496
22	3640	889	3880	1500	3600	9360	1940	3010	2200	778	587	462
23	3370	942	3710	1400	5400	8770	3030	2270	4130	919	546	473
24	2990	905	3950	1900	6800	8250	2260	1910	2410	750	491	424
25	2120	825	3700	2100	8600	7880	3090	1690	1670	643	470	271
26	1800	765	2700	2000	9400	7550	7800	1620	1710	562	450	148
27	1110	636	2400	2200	9600	7250	5410	1830	1730	506	451	158
28	1010	708	2400	2700	9400	7120	3590	1810	1280	462	462	187
29	1310	786	2300	2500	9400	6450	4110	1450	1010	506	459	491
30	909	828	2300	2400	---	6430	4870	1250	1300	2010	426	727
31	789	---	2300	3000	---	6080	---	1180	---	4530	390	---
TOTAL	54570	27518	87656	54640	146100	256810	85460	76040	41396	35510	44057	11057
MEAN	1760	917	2828	1763	5038	8284	2849	2453	1380	1145	1421	369
MAX	5170	2000	5190	3000	9600	10100	7800	4760	4130	4530	5140	727
MIN	639	618	926	920	1600	6080	1080	1180	645	462	390	148
CAL YR 1975 TOTAL	787192			2157		8440		171				
WTR YR 1976 TOTAL	920814			2516		10100		148				

STREAMS TRIBUTARY TO LAKE ONTARIO

04228500 GENESEE RIVER AT AVON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1965, 1972, 1975 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April 1975 to current year.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,360 mg/L Sept. 13, 1975; minimum daily mean, 1 mg/L Nov. 27, 28, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 26,500 tons (24,000 tonnes) April 26, 1976; minimum daily, 1.7 tons (1.5 tonnes) Nov. 27, 1975.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,350 mg/L Feb. 18, 19; minimum daily mean, 1 mg/L Nov. 27, 28.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 26,500 tons (24,000 tonnes) Apr. 26; minimum daily, 1.7 tons (1.5 tonnes) Nov. 27.

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5170	400	5580	663	62	111	926	13	33
2	2220	263	1580	627	40	68	1280	33	114
3	1680	270	1220	618	37	62	1950	110	579
4	1530	208	859	642	15	26	1950	108	569
5	1280	152	525	642	19	33	1810	57	279
6	1150	105	326	639	14	24	1200	30	97
7	1050	85	241	636	10	17	1330	44	158
8	976	65	171	639	10	17	1330	47	169
9	936	53	134	633	10	17	1380	40	149
10	923	45	112	648	9	16	2430	180	1180
11	1050	51	145	732	58	115	2750	142	1050
12	1010	51	139	831	50	112	2560	104	719
13	926	50	125	1710	140	646	2420	105	686
14	914	50	123	1930	65	339	3040	184	1510
15	786	41	87	2000	165	891	4360	464	5610
16	639	34	59	1320	50	178	4930	455	6060
17	672	29	53	1230	31	103	5190	520	7290
18	1350	187	1030	1160	24	75	4800	425	5510
19	3460	550	5140	1050	19	54	4300	352	4090
20	3880	640	6700	970	16	42	4080	280	3080
21	3920	430	4550	914	14	35	4000	240	2590
22	3640	280	2750	889	12	29	3880	195	2040
23	3370	188	1710	942	26	66	3710	148	1480
24	2990	150	1210	905	4	9.8	3950	118	1260
25	2120	123	704	825	4	8.9	3700	90	899
26	1800	102	496	765	3	6.2	2700	59	430
27	1110	65	195	636	1	1.7	2400	146	946
28	1010	61	166	708	1	1.9	2400	125	810
29	1310	85	301	786	5	11	2300	96	596
30	909	35	86	828	11	25	2300	55	342
31	789	65	138	---	---	---	2300	32	199
TOTAL	54570	---	36655	27518	---	3140.5	87656	---	50524

04228500 GENESEE RIVER AT AVON, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2400	20	130	3900	120	1260	9000	455	11100
2	2600	82	605	3900	108	1140	9600	390	10100
3	2600	88	618	2900	85	666	6400	340	5880
4	2400	60	389	1600	67	289	7800	690	14500
5	2200	48	285	1600	71	307	8200	405	8970
6	1800	19	92	2100	104	590	7000	390	7370
7	1400	16	60	3000	123	996	6600	452	8050
8	1000	13	35	3300	81	722	9000	435	10600
9	960	14	36	3700	88	879	9400	368	9340
10	920	14	35	3700	59	589	9400	320	8120
11	960	13	34	3500	238	2460	8600	298	6920
12	1000	11	30	4500	450	5470	6600	285	5080
13	1100	11	33	5200	249	3560	6600	268	4780
14	1200	6	19	5000	267	3600	9200	295	7330
15	1400	8	30	5200	53	744	10100	240	6540
16	1500	10	40	4700	240	3050	9940	208	5580
17	1600	13	56	5400	900	13100	9610	200	5190
18	1500	12	49	5600	1350	20400	9230	183	4560
19	1500	14	57	4900	1350	17900	9150	198	4890
20	1400	19	72	5600	975	14700	10000	212	5720
21	1500	16	65	4600	650	8070	9840	147	3910
22	1500	15	61	3600	1180	11500	9360	137	3460
23	1400	16	60	5400	1010	14700	8770	140	3320
24	1900	66	339	6800	995	18300	8250	145	3230
25	2100	24	136	8600	1080	25100	7880	156	3320
26	2000	17	92	9400	800	20300	7550	181	3690
27	2200	106	661	9600	700	18100	7250	228	4460
28	2700	155	1130	9400	575	14600	7120	206	3960
29	2500	83	560	9400	492	12500	6850	261	4830
30	2400	105	680	---	---	---	6430	177	3070
31	3000	134	1090	---	---	---	6080	241	3960
TOTAL	54640	---	7579	146100	---	235592	256810	---	191830
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6000	268	4340	4760	215	2760	1330	36	129
2	4940	243	3240	4590	173	2140	1820	58	285
3	4300	252	2930	4470	160	1930	1810	42	205
4	4000	239	2580	4470	175	2110	1390	20	75
5	3670	231	2290	3920	156	1650	1100	18	53
6	3290	325	2890	2280	129	794	942	26	66
7	2510	494	3350	1750	127	600	1010	36	98
8	1990	528	2840	2010	85	461	1930	77	401
9	1830	334	1650	2000	118	637	1550	100	418
10	1710	196	905	1670	72	325	1100	95	282
11	1640	148	655	1480	51	204	915	57	141
12	1570	121	513	1570	47	199	826	33	74
13	1520	104	427	1760	50	238	748	38	77
14	1450	87	341	1540	50	208	682	39	72
15	1380	81	302	1320	47	168	658	38	68
16	1320	73	260	1230	69	229	645	38	66
17	1430	89	344	1700	208	1030	857	44	102
18	1380	81	302	3260	488	4300	1080	64	187
19	1230	68	226	3520	288	2740	1070	59	170
20	1120	65	197	4370	515	6080	963	76	198
21	1080	45	131	4350	375	4400	1530	170	702
22	1940	342	2000	3010	118	959	2200	224	1380
23	3030	840	6870	2270	61	374	4130	528	5890
24	2260	304	1940	1910	38	196	2410	340	2210
25	3090	412	4650	1690	31	141	1670	168	758
26	7800	1260	26500	1620	25	109	1710	152	702
27	5410	495	7580	1830	28	138	1730	176	822
28	3590	346	3350	1810	31	151	1280	176	608
29	4110	382	4240	1450	32	125	1010	112	305
30	4870	366	4810	1250	26	88	1300	120	421
31	---	---	---	1180	25	80	---	---	---
TOTAL	85460	---	92653	76040	---	35564	41396	---	16965

STREAMS TRIBUTARY TO LAKE ONTARIO

04228500 GENESEE RIVER AT AVON, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2100	198	1120	5140	480	6660	377	33	34
2	2160	320	1870	4140	272	3040	367	29	29
3	1340	160	579	2960	340	2720	369	28	28
4	1520	164	673	1610	180	782	353	30	29
5	1240	84	281	1210	126	412	343	33	31
6	932	73	184	1020	79	218	340	30	28
7	731	53	105	1110	90	270	331	25	22
8	784	38	80	2660	387	3500	297	24	19
9	763	38	78	4110	592	6570	301	27	22
10	749	32	65	2420	294	1920	294	32	25
11	775	32	67	1700	178	817	299	39	31
12	1680	166	884	1250	87	294	336	39	35
13	1520	144	591	1180	93	296	396	40	43
14	1120	68	206	1200	117	379	355	33	32
15	1030	43	120	1460	141	556	336	33	30
16	944	36	92	1630	145	638	354	31	30
17	1250	149	550	1340	144	521	365	32	32
18	1050	122	372	1010	65	177	372	52	52
19	800	22	48	824	36	80	483	55	72
20	738	41	82	711	30	58	552	48	72
21	618	35	58	640	36	62	496	66	88
22	778	39	82	587	55	87	462	48	60
23	919	49	122	546	42	62	473	37	47
24	750	65	132	491	34	45	424	32	37
25	643	64	111	470	27	34	271	29	21
26	562	53	80	450	21	26	148	30	12
27	506	63	86	451	22	27	158	28	12
28	462	48	60	462	33	41	187	26	13
29	506	128	175	459	30	37	491	28	37
30	2010	695	4400	426	31	36	727	40	78
31	4530	1330	16300	390	30	32	---	---	---
TOTAL	35510	---	29653	44057	---	30397	11057	---	1101
YEAR	920814		731653.5						

STREAMS TRIBUTARY TO LAKE ONTARIO

04228500 GENESEE RIVER AT AVON, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
DEC							
15...	1000	4270	374	4310	--	--	--
19...	1100	4180	363	4100	--	55	61
JAN							
27...	1050	2200	115	683	--	--	--
27...	1530	2200	124	737	--	--	--
28...	0930	2700	162	1180	--	--	--
28...	1530	2700	112	816	--	--	--
29...	0915	2500	72	486	--	--	--
29...	1130	2500	83	560	--	--	--
30...	0945	2400	131	849	--	--	--
FEB							
05...	1400	1600	67	289	--	--	--
09...	1300	3700	90	899	--	--	--
10...	1255	3700	59	589	--	--	--
11...	1020	3500	--	1.2	--	--	--
12...	1715	4500	273	3320	--	--	--
17...	0850	5400	1054	15400	--	--	--
17...	1520	5400	1090	15900	24	32	44
18...	0840	5600	1420	21500	30	39	52
19...	0840	4900	1570	34600	38	47	58
19...	1625	4900	1260	16700	24	33	46
23...	1000	5400	1040	15200	33	41	51
24...	1030	6800	1280	23500	34	41	47
24...	1630	6800	1040	19100	42	48	52
25...	0930	8600	1100	25500	40	50	54
26...	0900	9400	872	22100	--	--	--
27...	0920	9600	711	18400	40	47	56
27...	1340	9600	615	15900	--	--	--
28...	1040	9400	581	14700	--	--	--
29...	1030	6400	229	3960	--	--	--
29...	1650	9400	485	12300	--	--	--
MAR							
01...	0945	9000	449	10900	--	--	--
02...	1155	9600	381	9890	--	--	--
03...	0850	6400	229	3960	--	--	--
04...	1350	7800	712	15000	34	48	61
04...	1900	7800	594	12500	38	51	64
05...	0910	8200	431	9540	--	--	--
05...	1230	8200	383	8480	--	--	--
05...	1730	8200	352	7790	--	--	--
06...	1305	7000	391	7390	44	52	64
07...	1005	6600	465	8290	--	--	--
08...	0930	9000	362	8800	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04228500 GENESEE RIVER AT AVON, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SFD. SIFVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
DEC						
15...	--	--	84	--	--	--
19...	66	74	86	94	99	--
JAN						
27...	--	--	78	--	--	--
27...	--	--	83	--	--	--
28...	--	--	94	--	--	--
28...	--	--	93	--	--	--
29...	--	--	91	--	--	--
29...	--	--	92	--	--	--
30...	--	--	92	--	--	--
FEB						
05...	--	--	89	--	--	--
09...	--	--	73	--	--	--
10...	--	--	90	--	--	--
11...	--	--	78	--	--	--
12...	--	--	82	--	--	--
17...	--	--	77	--	--	--
17...	58	73	83	95	99	--
18...	68	82	95	99	100	--
19...	75	92	96	99	100	--
19...	61	79	95	99	100	--
23...	65	77	94	99	100	--
24...	54	64	83	96	99	100
24...	58	66	83	97	99	--
25...	64	72	85	96	100	100
26...	--	--	85	--	--	--
27...	64	73	84	94	99	100
27...	--	--	83	--	--	--
28...	--	--	77	--	--	--
29...	--	--	83	--	--	--
29...	--	--	76	--	--	--
MAR						
01...	--	--	77	--	--	--
02...	--	--	78	--	--	--
03...	--	--	83	--	--	--
04...	76	85	91	--	--	--
04...	76	83	92	96	99	100
05...	--	--	89	--	--	--
05...	--	--	95	98	--	--
05...	--	--	94	--	--	--
06...	76	87	96	99	100	--
07...	--	--	79	--	--	--
08...	--	--	42	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

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04228500 GENESEE RIVER AT AVON, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE D SEDIMENT (MG/L)	SUS- PENDE D SEDIMENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
MAR												
09...	1700	9400	352	8930	--	--	--	--	--	79	--	--
10...	1420	9400	315	8000	--	--	--	--	--	83	--	--
13...	1420	6600	264	4700	--	--	--	--	--	88	--	--
13...	1635	6600	290	5170	--	--	--	--	--	79	--	--
14...	1640	9200	289	7180	--	--	--	--	--	76	--	--
15...	1540	10100	235	6410	--	--	--	--	--	80	--	--
25...	1550	7830	162	3430	--	--	--	--	--	78	--	--
30...	1430	6350	187	3210	--	--	--	--	--	81	--	--
30...	1645	6340	195	3340	--	--	--	--	--	81	--	--
APR												
02...	1215	4860	237	3110	--	--	--	--	--	88	--	--
07...	1400	2360	527	3360	--	--	--	--	--	96	--	--
08...	1615	1940	527	2760	--	--	--	--	--	95	--	--
09...	1650	1790	289	1400	--	--	--	--	--	92	--	--
12...	1430	1570	122	517	--	--	--	--	--	93	--	--
22...	1445	2120	439	2510	--	--	--	--	--	91	--	--
23...	1710	3100	814	6810	--	--	--	--	--	97	99	100
24...	1535	2100	232	1320	--	--	--	--	--	93	--	--
26...	1805	8880	1000	24000	29	42	62	74	86	95	99	100
27...	1520	4890	403	5320	--	--	--	--	--	97	--	--
28...	0845	3590	354	3430	--	--	--	--	--	92	--	--
29...	1250	4110	372	4130	--	--	--	--	--	93	--	--
30...	1530	4960	341	4570	--	--	--	--	--	93	--	--
MAY												
01...	1420	4730	201	2570	--	--	--	--	--	98	--	--
02...	1130	4570	127	1570	--	--	--	--	--	86	--	--
03...	1150	4460	159	1920	--	--	--	--	--	85	--	--
18...	0905	3410	626	5760	--	--	--	--	--	84	--	--
19...	1415	3650	276	2720	--	--	--	--	--	92	--	--
21...	1420	4250	278	3190	--	--	--	--	--	96	--	--
JUN												
08...	1650	2090	88	497	--	--	--	--	--	78	--	--
23...	1730	4450	633	7610	--	--	--	--	--	97	--	--
24...	1630	1960	278	1470	--	--	--	--	--	100	--	--
JUL												
02...	1215	2310	365	2280	--	--	--	--	--	97	--	--
13...	1630	1540	163	678	--	--	--	--	--	94	--	--
30...	1305	2130	799	4600	--	--	--	--	--	97	--	--
31...	1255	4580	1370	16900	39	52	65	75	85	96	99	100
AUG												
01...	0845	5250	520	7370	--	--	--	--	--	97	--	--
02...	1635	3870	238	2490	--	--	--	--	--	95	--	--
03...	1635	2450	325	2150	--	--	--	--	--	89	--	--
04...	1640	1470	167	663	--	--	--	--	--	88	--	--
05...	1410	1180	125	398	--	--	--	--	--	73	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04228845 HONEOYE LAKE NEAR HONEOYE, NY

LOCATION.--Lat 42°45'44", long 77°30'21", Ontario County, Hydrologic Unit 04130003, on east shore of Honeoye Lake, at Trident Marina on East Lake Road, 1.9 mi (3.1 km) south of U.S. Highway 20A, and 2.0 mi (3.2 km) southeast of Honeoye.

DRAINAGE AREA.--41.1 mi² (106 km²).

PERIOD OF RECORD.--July to December 1963. Occasional readings January to August 1964. October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage (revised) is at mean sea level. July 10, 1963 to Sept. 28, 1967, nonrecording gage and Sept. 29, 1967 to Sept. 30, 1969, recording gage at datum 800.35 ft (243.947 m) higher. Oct. 1, 1969 to Sept. 30, 1975, at datum 800.00 ft (243.840 m) higher.

REMARKS.--Area of water surface, 2.71 mi² (7.02 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 806.91 ft (245.946 m) June 23, 1972; minimum observed, 802.15 ft (244.495 m) present datum, Oct. 5, 1965, Oct. 1, 2, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 805.18 ft (245.419 m) Mar. 4-5; minimum, 803.04 ft (244.767 m) Sept. 6, 7-9.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	803.63	803.34	803.33	803.63	803.71	804.19	803.60	803.98	803.77	803.60	803.96	803.12
2	803.61	803.31	803.33	803.62	803.66	804.21	803.61	804.01	803.77	803.56	803.92	803.11
3	803.57	803.32	803.33	803.62	803.62	804.58	803.60	803.97	803.74	803.54	803.85	803.09
4	803.52	803.34	803.33	803.60	803.59	805.06	803.58	803.92	803.70	803.51	803.78	803.09
5	803.49	803.32	803.33	803.56	803.57	805.15	803.55	803.88	803.67	803.49	803.72	803.07
6	803.46	803.31	803.34	803.47	803.54	805.02	803.53	803.82	803.64	803.47	803.68	803.06
7	803.42	803.31	803.37	803.45	803.52	804.86	803.50	803.80	803.69	803.45	803.65	803.05
8	803.39	803.31	803.37	803.49	803.50	804.68	803.47	803.78	803.68	803.45	803.64	803.04
9	803.37	803.30	803.41	803.50	803.49	804.51	803.44	803.75	803.65	803.46	803.60	803.04
10	803.36	803.34	803.53	803.49	803.48	804.37	803.42	803.72	803.63	803.44	803.56	803.08
11	803.34	803.35	803.57	803.48	803.55	804.23	803.41	803.71	803.60	803.45	803.53	803.07
12	803.32	803.35	803.59	803.47	803.63	804.14	803.39	803.73	803.55	803.48	803.50	803.08
13	803.31	803.35	803.61	803.44	803.68	804.02	803.37	803.71	803.53	803.54	803.51	803.07
14	803.30	803.35	803.69	803.42	803.74	803.92	803.35	803.69	803.49	803.56	803.52	803.07
15	803.30	803.34	803.78	803.41	803.72	803.84	803.35	803.67	803.48	803.55	803.50	803.07
16	803.30	803.33	803.87	803.40	803.88	803.79	803.36	803.67	803.49	803.54	803.48	803.07
17	803.28	803.33	803.90	803.39	804.27	803.75	803.36	803.68	803.51	803.53	803.46	803.07
18	803.38	803.32	803.88	803.39	804.54	803.69	803.37	803.71	803.50	803.50	803.44	803.09
19	803.42	803.32	803.84	803.38	804.70	803.69	803.40	803.76	803.50	803.48	803.41	803.10
20	803.46	803.33	803.81	803.38	804.76	803.73	803.40	804.08	803.60	803.46	803.39	803.10
21	803.48	803.34	803.78	803.38	804.69	803.77	803.41	804.13	803.62	803.45	803.37	803.11
22	803.48	803.32	803.75	803.38	804.78	803.77	803.45	804.09	803.68	803.44	803.35	803.10
23	803.48	803.31	803.72	803.38	804.76	803.74	803.47	804.04	803.66	803.42	803.32	803.10
24	803.48	803.30	803.69	803.38	804.66	803.72	803.48	803.97	803.64	803.40	803.30	803.08
25	803.46	803.30	803.66	803.38	804.54	803.70	803.64	803.92	803.65	803.37	803.27	803.07
26	803.44	803.29	803.66	803.42	804.42	803.68	803.90	803.91	803.62	803.35	803.26	803.08
27	803.42	803.31	803.65	803.73	804.36	803.68	803.99	803.88	803.66	803.33	803.25	803.11
28	803.41	803.30	803.63	803.82	804.27	803.65	804.03	803.84	803.64	803.31	803.23	803.11
29	803.39	803.31	803.61	803.82	804.19	803.62	804.03	803.80	803.63	803.42	803.19	803.11
30	803.36	803.33	803.60	803.79	---	803.60	804.00	803.76	803.62	803.65	803.15	803.11
31	803.35	---	803.63	803.74	---	803.57	---	803.76	---	803.67	803.13	---
MEAN	803.42	803.32	803.60	803.51	804.03	804.06	803.55	803.84	803.62	803.48	803.48	803.08
MAX	803.63	803.35	803.90	803.82	804.78	805.15	804.03	804.13	803.77	803.67	803.96	803.12
MIN	803.28	803.29	803.33	803.38	803.48	803.57	803.35	803.67	803.48	803.31	803.13	803.04
WTR YR 1976	MEAN 803.58		MAX 805.15		MIN 803.04							
CAL YR 1975	MEAN 803.49		MAX 804.48		MIN 802.75							

STREAMS TRIBUTARY TO LAKE ONTARIO

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04228950 CANADICE LAKE NEAR HEMLOCK, NY

04229000 CANADICE OUTLET NEAR HEMLOCK, NY

LOCATION.--Lake: Lat 42°44'27", long 77°34'20", Ontario County, Hydrologic Unit 04130003, at dam at outlet of Canadice Lake, 3.6 mi (5.8 km) upstream from point of diversion to Hemlock Lake, and 4 mi (6 km) southeast of Hemlock. Outlet: Lat 42°44'27", long 77°34'20", Ontario County, upstream from weir, 60 ft (18.3 m) downstream from dam.

DRAINAGE AREA.--12.4 mi² (32.1 km²).

PERIOD OF RECORD.--Lake: October 1970 to current year.

Outlet: April 1903 to current year. Prior to October 1966, published as "Canadice Lake Outlet."

REVISED RECORDS.--WRD NY 1967: Drainage area. WRD NY 1968: 1967.

GAGE.--Nonrecording gage read once daily and whenever control gate is changed. Datum of gage is 1,093.00 ft (333.146 m) above mean sea level (furnished by city of Rochester).

REMARKS.--Outflow from Canadice Lake diverted into Hemlock Lake for Rochester water supply. Flow regulated by gates at dam and augmented by pumping. Discharge computed by weir formula and from pumping records.

COOPERATION.--Records furnished by Department of Public Works, City of Rochester.

AVERAGE DISCHARGE.--73 years, 11.4 ft³/s (0.323 m³/s), unadjusted.

MONTHEND ELEVATION, CONTENTS, AND MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCT. 1975 TO SEPT. 1976

04228950 CANADICE LAKE				04229000 CANADICE OUTLET			
	* Elevation FT	Contents FT ³	Change in contents FT ³ /S	Observed discharge MEAN	† Adjusted for change in contents in Canadice Lake MEAN	CFSM	IN.
October	1,096.10	403.20	- 5.85	11.8	5.92	0.48	0.55
November	1,095.53	385.43	- 6.86	11.7	4.80	.39	.43
December	1,095.68	390.08	+ 1.74	16.7	18.4	1.48	1.71
CAL YR 1975			+ 2.88	6.33	9.21	.74	10.08
January	1,097.41	445.53	+20.7	0	20.7	1.67	1.92
February	1,098.88	494.92	+19.7	0	19.7	1.59	1.71
March	1,098.75	490.50	- 1.65	9.04	7.38	.60	.69
April	1,098.95	497.30	+ 2.62	0	2.62	.21	.24
May	1,098.80	492.20	- 1.90	0	- 1.90	- .15	- .18
June	1,098.80	492.20	0	0	0	0	0
July	1,098.90	495.60	+ 1.27	0	1.27	.10	.12
August	1,096.83	426.56	-25.8	22.3	- 3.43	- .28	- .32
September	1,096.84	426.88	+ .12	0	.12	.01	.01
WTR YR 1976			+ .25	6.02	6.28	.51	6.89

* Elevation at 2400 hrs last day of month.

† Adjustments by Geological Survey. Negative figures indicate that natural losses from Canadice Lake exceeded inflow.

NOTE.--All figures of contents expressed in millions.

STREAMS TRIBUTARY TO LAKE ONTARIO

04229500 HONEOYE CREEK AT HONEOYE FALLS, NY

LOCATION.--Lat 42°57'24", long 77°35'21", Monroe County, Hydrologic Unit 04130003, on right bank 25 ft (8 m) downstream from bridge on State Highway 65 at Honeoye Falls, and 13 mi (21 km) upstream from mouth.

DRAINAGE AREA.--195 mi² (505 km²).

PERIOD OF RECORD.--October 1945 to September 1970, October 1972 to current year.

REVISED RECORDS.--WRD NY 1966: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.00 ft (185.928 m) above mean sea level. Prior to Sept. 30, 1970, water-stage recorder at same site at datum 609.76 ft (185.855 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Outlet of Honeoye Lake not controlled (see station 04228845). Some diversion from and regulation by Hemlock and Canadice Lakes for water supply of city of Rochester. Diurnal fluctuation at low flow caused by mills upstream from station. Prior to 1967 water year, published monthly figures adjusted for change in contents in, and diversion from, Hemlock and Canadice Lakes. During low water periods the village of Honeoye Falls pumps water from two deep wells with maximum pumping capacity of 600 gpm (1.3 ft³/s or 0.037 m³/s). This pumped water enters creek upstream from gage.

AVERAGE DISCHARGE.--29 years (1946-70, 1973-76), 116 ft³/s (3.285 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft³/s (131 m³/s) Mar. 28, 1950, gage height, 6.42 ft (1.957 m), from rating curve extended above 2,100 ft³/s (59.5 m³/s); minimum, 0.06 ft³/s (0.002 m³/s) Aug. 28, 1949.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,150 ft³/s (118 m³/s) Mar. 4, gage height, 5.28 ft (1.609 m); minimum, 7.0 ft³/s (0.20 m³/s) Sept. 17, gage height, 0.38 ft (0.116 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	42	59	180	220	653	292	355	256	191	1060	23
2	70	42	72	150	190	716	330	370	375	184	936	19
3	75	42	63	130	160	1250	247	390	310	137	530	19
4	69	48	51	120	140	3270	202	350	221	110	297	18
5	62	54	55	110	130	3040	166	252	152	99	221	15
6	55	48	61	100	120	1610	144	256	100	89	214	13
7	52	44	105	96	120	1200	128	191	139	75	238	11
8	46	43	82	90	130	968	112	181	217	51	297	9.9
9	45	41	78	86	130	832	102	147	139	225	270	8.4
10	48	43	207	88	150	723	93	128	106	91	198	8.4
11	54	61	323	92	380	597	91	112	91	51	169	7.8
12	47	75	214	96	552	500	93	175	80	102	144	9.6
13	44	64	154	110	530	470	86	184	66	238	169	11
14	45	63	453	140	606	380	80	137	71	415	217	9.6
15	46	62	541	170	453	310	74	125	77	221	191	8.1
16	51	58	541	140	618	252	100	106	67	102	184	7.3
17	59	55	374	120	1200	150	117	134	75	88	142	7.8
18	174	52	250	94	1570	240	83	198	81	70	121	9.6
19	314	49	120	80	1800	415	56	340	66	52	112	9.2
20	210	47	130	100	1400	667	43	832	160	42	104	9.6
21	183	47	140	100	1050	488	41	840	252	40	100	9.6
22	130	48	140	90	1330	426	49	566	560	47	97	9.2
23	97	48	140	76	1330	306	58	420	385	40	89	9.2
24	80	44	130	70	1020	243	56	345	184	36	72	9.2
25	72	42	120	90	920	221	214	292	147	37	50	8.7
26	66	41	120	160	848	229	800	320	157	30	47	9.3
27	58	41	110	760	758	206	716	370	149	26	47	11
28	53	44	110	800	744	292	518	330	217	25	45	19
29	52	48	110	540	653	217	464	270	202	36	43	19
30	49	48	120	390	---	175	410	234	202	488	41	14
31	45	---	140	280	---	187	---	225	---	405	36	---
TOTAL	2520	1484	5313	5648	19252	21233	5965	9175	5304	3843	6481	352.5
MEAN	81.3	49.5	171	182	664	685	199	296	177	124	209	11.8
MAX	314	75	541	800	1800	3270	800	840	560	488	1060	23
MIN	44	41	51	70	120	150	41	106	66	25	36	7.3
CAL YR 1975	TOTAL	58841.67	MEAN	161	MAX	1610	MIN	.15				
WTR YR 1976	TOTAL	86570.50	MEAN	237	MAX	3270	MIN	7.3				

STREAMS TRIBUTARY TO LAKE ONTARIO

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04230380 OATKA CREEK AT WARSAW, NY

LOCATION.--Lat 42°44'39", long 78°08'16", Wyoming County, Hydrologic Unit 04130003, on right bank 400 ft (122 m) downstream from bridge on Court Street, Warsaw. Water-quality sampling site at discharge station.

DRAINAGE AREA.--41.9 mi² (109 km²).

WATER-DISCHARGE RECORDS.

PERIOD OF RECORD.--December 1963 to current year.

REVISED RECORDS.--WRD NY 1966: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 987.15 ft (300.883 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--12 years (1964-76), 51.3 ft³/s (1.453 m³/s), 16.63 in/yr (422 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,010 ft³/s (114 m³/s) June 23, 1972, gage height, 9.75 ft (2.972 m), from rating curve extended above 1,770 ft³/s (50.1 m³/s) on basis of slope-area measurement of peak discharge; minimum, 0.90 ft³/s (0.025 m³/s) Aug. 1, 1965; minimum gage height, 1.09 ft (0.332 m) July 22, 23, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 690 ft³/s (19.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 17	0815	1,010 28.6	5.06 1.542	Mar. 3	1700	*1,580 44.7	*6.61 2.015
Feb. 22	0645	1,040 29.5	5.13 1.564	Apr. 25	1330	876 24.8	4.66 1.420

Minimum discharge, 4.2 ft³/s (0.12 m³/s) Sept. 8, 9, 10; minimum gage height, 1.26 ft (0.384 m) Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	7.8	66	70	60	253	120	66	75	69	74	6.4
2	9.9	8.5	38	56	42	188	88	68	82	36	62	7.1
3	9.9	14	30	48	48	1010	79	61	43	22	48	6.4
4	8.5	35	31	41	45	1020	68	54	31	18	33	6.4
5	7.1	34	34	36	40	547	56	47	26	14	26	7.1
6	5.9	18	118	40	37	231	50	41	23	11	19	6.4
7	5.3	15	64	42	36	153	45	102	82	10	21	5.3
8	5.3	15	44	37	38	128	42	75	42	13	23	4.8
9	5.3	15	41	33	42	120	39	53	26	11	26	4.3
10	6.5	51	68	36	46	116	36	42	20	7.8	25	9.1
11	6.5	46	54	41	350	110	41	51	17	200	20	28
12	5.9	23	48	46	340	88	38	84	15	155	17	15
13	5.9	18	56	56	319	104	36	53	14	84	96	8.4
14	7.1	16	256	100	203	94	33	40	14	72	39	7.1
15	7.8	14	445	72	198	88	35	39	23	68	48	6.4
16	12	16	150	54	547	76	45	38	19	40	33	8.4
17	12	13	84	45	778	76	36	94	24	28	22	15
18	96	12	54	38	655	76	30	156	15	22	17	27
19	44	11	46	33	556	216	26	143	21	17	14	22
20	30	9.9	50	31	208	208	24	237	31	14	13	13
21	23	14	45	30	418	203	26	90	62	11	11	19
22	18	16	42	29	652	126	184	69	128	13	10	14
23	15	12	38	29	186	94	88	59	33	11	10	16
24	13	11	36	30	158	82	71	51	20	10	11	13
25	12	9.9	40	44	165	81	550	48	63	9.2	14	9.9
26	11	9.9	44	110	163	73	325	73	27	8.0	8.4	21
27	9.9	15	41	180	210	84	172	66	55	13	8.4	69
28	9.2	18	39	140	134	96	138	45	27	20	7.7	32
29	8.5	15	42	110	130	71	92	36	78	58	7.1	19
30	8.5	19	72	80	---	64	73	35	81	72	7.1	14
31	7.8	---	130	56	---	73	---	43	---	100	6.4	---
TOTAL	435.3	532.0	2346	1793	6804	5949	2686	2159	1217	1237.0	777.1	440.5
MEAN	14.0	17.7	75.7	57.8	235	192	89.5	69.6	40.6	39.9	25.1	14.7
MAX	96	51	445	180	778	1020	550	237	128	200	96	69
MIN	5.3	7.8	30	29	36	64	24	35	14	7.8	6.4	4.3
CFSM	.33	.42	1.81	1.38	5.61	4.58	2.14	1.66	.97	.95	.60	.35
IN.	.39	.47	2.08	1.59	6.04	5.28	2.38	1.92	1.08	1.10	.69	.39

CAL YR 1975	TOTAL	19740.6	MEAN	54.1	MAX	702	MIN	2.6	CFSM	1.29	IN	17.53
WTR YR 1976	TOTAL	26375.9	MEAN	72.1	MAX	1020	MIN	4.3	CFSM	1.72	IN	23.42

STREAMS TRIBUTARY TO LAKE ONTARIO

04230380 OATKA CREEK AT WARSAW, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1965, 1970, 1975 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT (MG/L)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
01...	0925	8.4	3	.07	--	--	--
16...	1015	12	3	.10	--	--	--
29...	1335	8.4	4	.09	--	--	--
31...	0955	7.7	1	.02	--	--	--
NOV							
15...	0900	14	1	.04	--	--	--
30...	0940	19	5	.26	--	--	--
DEC							
05...	1330	28	4	.30	--	--	--
12...	1125	160	57	25	--	--	--
15...	0910	510	378	521	--	--	--
30...	0930	55	4	.59	--	--	--
31...	0850	150	59	24	--	--	--
JAN							
07...	1045	46	18	2.2	--	--	--
14...	0945	106	26	7.4	--	--	--
14...	1120	81	37	8.1	--	--	--
26...	1658	129	120	42	--	--	--
27...	1800	171	51	24	--	--	--
29...	0930	113	18	5.5	--	--	--
FEB							
11...	0950	298	77	62	--	--	--
11...	1510	444	130	156	--	--	--
13...	1000	425	238	273	--	--	--
17...	1220	860	769	1790	--	--	--
17...	1720	603	439	715	--	--	--
18...	1030	762	760	1560	--	--	--
18...	1305	802	579	1250	--	--	--
18...	1750	780	541	1140	--	--	--
19...	1040	452	189	231	--	--	--
20...	1020	198	58	31	--	--	--
27...	1015	165	23	10	--	--	--
27...	1115	200	38	21	--	--	--
28...	0845	138	17	6.3	--	--	--
MAR							
01...	1310	223	44	26	--	--	--
03...	1650	1580	2010	8580	20	25	29
04...	1205	1200	574	1860	16	22	33
14...	0930	84	25	5.7	--	--	--
22...	1405	118	12	3.8	--	--	--
31...	1010	57	6	.92	--	--	--
APR							
13...	1240	35	2	.19	--	--	--
20...	1915	24	0	.00	--	--	--
22...	0925	203	66	36	--	--	--
22...	1450	149	30	12	--	--	--
25...	1230	753	1320	2680	--	--	--
28...	1000	153	11	4.5	--	--	--
MAY							
10...	1600	42	8	.91	--	--	--
12...	1045	84	3	.68	--	--	--
20...	0930	223	37	22	23	37	49
JUN							
09...	1415	26	34	2.4	--	--	--
11...	1445	18	4	.19	--	--	--
30...	0930	65	17	3.0	--	--	--
JUL							
12...	1440	112	35	11	--	--	--
14...	1220	48	8	1.0	--	--	--
AUG							
11...	1020	20	3	.16	--	--	--
25...	1530	4.2	14	.16	--	--	--
SEP							
14...	1030	7.0	4	.08	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

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04230380 OATKA CREEK AT WARSAW, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT							
01...	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--
NOV							
15...	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--
DEC							
05...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--
JAN							
07...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
14...	--	--	82	--	--	--	--
26...	--	--	91	--	--	--	--
27...	--	--	90	--	--	--	--
29...	--	--	77	--	--	--	--
FEB							
11...	--	--	84	--	--	--	--
11...	--	--	82	--	--	--	--
13...	--	--	73	--	--	--	--
17...	--	--	70	--	--	--	--
17...	--	--	70	--	--	--	--
18...	--	--	61	--	--	--	--
18...	--	--	60	--	--	--	--
18...	--	--	62	--	--	--	--
19...	--	--	81	--	--	--	--
20...	--	--	87	--	--	--	--
27...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
MAR							
01...	--	--	--	--	--	--	--
03...	43	58	72	85	94	100	--
04...	44	57	74	85	92	99	100
14...	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--
APR							
13...	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--
22...	--	--	88	--	--	--	--
25...	--	--	63	--	--	--	--
28...	--	--	--	--	--	--	--
MAY							
10...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
20...	64	77	89	95	98	100	--
JUN							
09...	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--
JUL							
12...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
AUG							
11...	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--
SEP							
14...	--	--	--	--	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04230500 OATKA CREEK AT GARBUTT, NY

LOCATION.--Lat 43°00'36", long 77°47'30", Monroe County, Hydrologic Unit 04130003, on right bank 40 ft (12 m) downstream from bridge on Union Street in Garbutt, 1.5 mi (2.4 km) west of Scottsville, and 4.0 mi (6.4 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--204 mi² (528 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WRD NY 1966: Drainage area. WRD NY 1971: 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 560.89 ft (170.959 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--31 years, 206 ft³/s (5.834 m³/s), 13.71 in/yr (348 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft³/s (200 m³/s) Mar. 31, 1960, gage height, 8.64 ft (2.633 m); minimum, 3.3 ft³/s (0.093 m³/s) Sept. 11, 12, 1958; minimum gage height, 1.88 ft (0.573 m) June 19, 1959, result of regulation; minimum daily discharge, 13 ft³/s (0.37 m³/s) Oct. 30 to Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 18	0315	2,900 82.1	6.30 1.920	Mar. 5	1245	*6,090 172	*8.18 2.493
Feb. 23	0930	2,180 61.7	5.74 1.750	Apr. 27	0230	2,080 58.9	5.65 1.722

Minimum discharge, 42 ft³/s (1.19 m³/s) Oct. 8, 9, 15, 17, gage height, 2.37 ft (0.722 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	46	81	323	290	552	404	438	262	314	662	61
2	47	46	123	310	210	635	433	385	314	310	547	61
3	46	46	138	274	180	911	399	362	302	251	428	59
4	44	44	111	250	160	2640	353	336	251	190	278	57
5	46	72	92	210	160	5740	314	310	207	158	180	55
6	44	97	174	200	150	3550	282	286	183	141	146	53
7	44	72	336	200	160	1510	258	323	193	135	138	51
8	44	65	262	180	160	925	243	399	236	141	149	51
9	46	63	167	160	160	711	229	385	218	132	161	51
10	46	67	174	160	170	640	218	314	170	123	152	53
11	44	92	247	160	310	630	218	282	146	114	126	51
12	46	170	236	160	574	579	221	294	132	111	111	49
13	46	120	200	160	667	526	214	331	120	236	177	51
14	46	97	371	190	953	505	207	294	111	358	314	61
15	44	87	784	270	897	479	200	266	108	278	474	53
16	44	79	1030	320	1230	453	210	254	106	197	327	49
17	44	77	1070	270	2040	399	229	270	114	158	229	49
18	65	74	630	220	2790	349	207	362	106	141	180	51
19	132	70	310	190	2520	404	190	479	106	123	149	51
20	164	65	210	180	2100	667	174	790	103	108	132	63
21	123	67	210	180	1170	790	170	733	106	97	117	70
22	100	67	210	160	1490	733	319	700	152	89	106	59
23	79	70	190	160	2060	619	435	474	200	87	100	57
24	67	72	170	150	1210	505	433	367	197	87	95	57
25	59	67	170	150	797	423	579	327	161	81	89	55
26	55	63	170	180	700	381	1490	390	149	79	81	61
27	53	65	180	430	651	362	1830	448	229	74	79	86
28	49	65	170	540	635	367	1090	385	258	70	77	92
29	49	74	170	480	585	381	744	306	207	77	72	123
30	49	79	180	450	---	349	568	254	207	123	67	92
31	46	---	210	410	---	331	---	243	---	286	63	---
TOTAL	1862	2238	8776	7677	25179	28046	12861	11787	5354	4869	6006	1832
MEAN	60.1	74.6	283	248	868	905	429	380	178	157	194	61.1
MAX	164	170	1070	540	2790	5740	1830	790	314	358	662	123
MIN	44	44	81	150	150	331	170	243	103	70	63	49
CFSM	.29	.37	1.39	1.22	4.25	4.44	2.10	1.86	.87	.77	.95	.30
IN.	.34	.41	1.60	1.40	4.59	5.11	2.35	2.15	.98	.89	1.10	.33
CAL YR 1975	TOTAL	85301	MEAN 234	MAX 1990	MIN 37	CFSM 1.15	IN 15.55					
WTR YR 1976	TOTAL	116487	MEAN 318	MAX 5740	MIN 44	CFSM 1.56	IN 21.24					

STREAMS TRIBUTARY TO LAKE ONTARIO

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04230500 OATKA CREEK AT GARBUTT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1960, 1961, 1964, 1965, 1971, 1975 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: March 1975 to current year.

REMARKS.--Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 220 mg/L June 20, 1975, minimum daily mean, 0 mg/L Apr. 14, 1975.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 2,980 tons (2,700 tonnes) Mar. 5, 1976, minimum daily, 0 ton (0 tonne) Apr. 14, 1975.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 198 mg/L Feb. 17; minimum daily mean, 1 mg/L May 7.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 2,980 tons (2,700 tonnes) Mar. 5; minimum daily 0.24 ton (0.22 tonne) Nov. 4.

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	51	6	.83	46	4	.50	81	3	.66
2	47	4	.51	46	3	.37	123	10	3.3
3	46	4	.50	46	2	.25	138	11	4.1
4	44	5	.59	44	2	.24	111	7	2.1
5	46	5	.62	72	7	1.4	92	6	1.5
6	44	5	.59	97	8	2.1	174	31	18
7	44	4	.48	72	3	.58	336	65	59
8	44	4	.48	65	2	.35	262	26	18
9	46	4	.50	63	2	.34	167	7	3.2
10	46	4	.50	67	3	.54	174	7	3.3
11	44	4	.48	92	5	1.2	247	12	8.0
12	46	4	.50	170	15	6.9	236	8	5.1
13	46	2	.25	120	8	2.6	200	7	3.8
14	46	2	.25	97	5	1.3	371	37	44
15	44	4	.48	87	5	1.2	784	92	195
16	44	4	.48	79	6	1.3	1030	84	234
17	44	3	.36	77	5	1.0	1070	52	150
18	65	4	.70	74	6	1.2	630	18	31
19	132	13	4.6	70	6	1.1	310	11	9.2
20	164	12	5.3	65	9	1.6	210	7	4.0
21	123	6	2.0	67	5	.90	210	8	4.5
22	100	6	1.6	67	2	.36	210	8	4.5
23	79	6	1.3	70	2	.38	190	6	3.1
24	67	5	.90	72	3	.58	170	5	2.3
25	59	5	.80	67	5	.90	170	7	3.2
26	55	5	.74	63	4	.68	170	6	2.8
27	53	3	.43	65	2	.35	180	7	3.4
28	49	3	.40	65	3	.53	170	9	4.1
29	49	4	.53	74	2	.40	170	6	2.8
30	49	4	.53	79	4	.85	180	5	2.4
31	46	3	.37	---	---	---	210	9	5.1
TOTAL	1862	---	28.60	2238	---	32.00	8776	---	835.46

STREAMS TRIBUTARY TO LAKE ONTARIO

04230500 OATKA CREEK AT GARBUTT, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	323	19	17	290	8	6.3	552	16	24
2	310	8	6.7	210	8	4.5	635	23	39
3	274	8	5.9	180	8	3.9	911	24	59
4	250	7	4.7	160	8	3.5	2640	126	1210
5	210	5	2.8	160	6	2.6	5740	192	2980
6	200	5	2.7	150	6	2.4	3550	60	575
7	200	8	4.3	160	16	6.9	1510	26	106
8	180	8	3.9	160	17	7.3	925	20	50
9	160	9	3.9	160	14	6.0	711	13	25
10	160	9	3.9	170	7	3.2	640	11	19
11	160	8	3.5	310	12	10	630	20	34
12	160	7	3.0	574	18	28	579	17	27
13	160	6	2.6	667	34	61	526	10	14
14	190	8	4.1	953	50	129	505	6	8.2
15	270	13	9.5	897	26	63	479	4	5.2
16	320	13	11	1230	37	123	453	4	4.9
17	270	9	6.6	2040	198	1290	399	5	5.4
18	220	7	4.2	2790	176	1330	349	9	8.5
19	190	6	3.1	2520	75	510	404	11	12
20	180	7	3.4	2100	49	278	667	36	65
21	180	7	3.4	1170	33	104	790	40	85
22	160	6	2.6	1490	95	382	733	23	46
23	160	7	3.0	2060	123	684	619	12	20
24	150	4	1.6	1210	35	114	505	9	12
25	150	3	1.2	797	24	52	423	8	9.1
26	180	5	2.4	700	19	36	381	7	7.2
27	430	47	60	651	16	28	362	7	6.8
28	540	28	41	635	19	33	367	11	11
29	480	18	23	585	19	30	381	23	24
30	450	16	19	---	---	---	349	13	12
31	410	10	11	---	---	---	331	3	2.7
TOTAL	7677	---	275.0	25179	---	5331.6	28046	---	5507.0
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	404	12	13	438	4	4.7	262	3	2.1
2	433	12	14	385	3	3.1	314	8	6.8
3	399	9	9.7	362	5	4.9	302	29	24
4	353	8	7.6	336	6	5.4	251	31	21
5	314	7	5.9	310	2	1.7	207	31	17
6	282	6	4.6	286	2	1.5	183	30	15
7	258	5	3.5	323	1	.87	193	23	12
8	243	8	5.2	399	3	3.2	236	15	9.6
9	229	7	4.3	385	4	4.2	218	9	5.3
10	218	5	2.9	314	2	1.7	170	6	2.8
11	218	3	1.8	282	3	2.3	146	7	2.8
12	221	3	1.8	294	3	2.4	132	4	1.4
13	214	6	3.5	331	5	4.5	120	6	1.9
14	207	6	3.4	294	5	4.0	111	6	1.8
15	200	5	2.7	266	4	2.9	108	4	1.2
16	210	6	3.4	254	3	2.1	106	5	1.4
17	229	5	3.1	270	5	3.6	114	7	2.2
18	207	5	2.8	362	8	7.8	106	5	1.4
19	190	5	2.6	479	15	19	106	5	1.4
20	174	4	1.9	790	39	83	103	7	1.9
21	170	5	2.3	733	19	38	106	9	2.6
22	319	16	14	700	15	28	152	16	6.6
23	435	16	19	474	8	10	200	24	13
24	433	12	14	367	5	5.0	197	16	8.5
25	579	28	44	327	4	3.5	161	17	7.4
26	1490	98	394	390	8	8.4	149	16	6.4
27	1830	60	296	448	11	13	229	23	14
28	1090	16	47	385	9	9.4	258	28	20
29	744	10	20	306	6	5.0	207	12	6.7
30	568	6	9.2	254	5	3.4	207	12	6.7
31	---	---	---	243	3	2.0	---	---	---
TOTAL	12861	---	957.2	11787	---	288.57	5354	---	224.9

STREAMS TRIBUTARY TO LAKE ONTARIO

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04230500 OATKA CREEK AT GARBUTT, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	314	29	25	662	64	114	65	5	.88
2	310	21	18	547	17	25	65	4	.70
3	251	15	10	428	4	4.6	63	7	1.2
4	190	6	3.1	278	6	4.5	61	9	1.5
5	158	2	.85	180	11	5.3	57	13	2.0
6	141	2	.76	146	10	3.9	53	6	.86
7	135	4	1.5	138	8	3.0	53	3	.43
8	141	7	2.7	149	10	4.0	53	9	1.3
9	132	5	1.8	161	11	4.8	63	6	1.0
10	123	6	2.0	152	8	3.3	57	6	.92
11	114	5	1.5	126	6	2.0	53	7	1.0
12	111	5	1.5	111	5	1.5	53	5	.72
13	236	14	8.9	177	13	6.2	55	6	.89
14	358	29	28	314	24	20	55	6	.89
15	278	17	13	474	40	51	65	5	.88
16	197	13	6.9	327	23	20	70	3	.57
17	158	12	5.1	229	13	8.0	61	5	.82
18	141	11	4.2	180	5	2.4	57	4	.62
19	123	6	2.0	149	4	1.6	59	2	.32
20	108	5	1.5	132	5	1.8	55	4	.59
21	97	6	1.6	117	15	4.7	61	4	.66
22	89	5	1.2	106	22	6.3	84	2	.45
23	87	6	1.4	100	12	3.2	92	4	.99
24	87	4	.94	95	7	1.8	123	3	1.0
25	81	3	.66	89	8	1.9	89	2	.48
26	79	2	.43	81	9	2.0	70	6	1.1
27	74	3	.60	79	11	2.3	61	8	1.3
28	70	5	.94	77	14	2.9	57	10	1.5
29	77	4	.83	72	7	1.4	53	11	1.6
30	123	5	1.7	70	4	.76	51	8	1.1
31	286	24	19	67	3	.54	---	---	---
TOTAL	4869	---	167.61	6013	---	314.70	1914	---	28.27

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
JAN												
29...	1345	480	16	21	--	--	--	--	--	88	--	--
29...	1415	480	19	25	--	--	--	--	--	72	--	--
FEB												
17...	1700	2460	324	2150	--	--	--	--	--	75	--	--
17...	1800	2510	351	2380	--	--	--	--	--	73	--	--
18...	0900	2790	114	859	--	--	--	--	--	78	--	--
18...	1400	2730	99	730	--	--	--	--	--	91	--	--
18...	1800	2750	122	906	--	--	--	--	--	77	--	--
19...	1405	2470	67	447	--	--	--	--	--	89	--	--
20...	0830	2300	51	317	--	--	--	--	--	90	--	--
20...	1235	2150	52	302	--	--	--	--	--	87	--	--
21...	1400	2000	30	162	--	--	--	--	--	78	--	--
MAR												
04...	1700	3160	149	1270	--	--	--	--	--	90	--	--
05...	1100	6030	171	2780	--	--	--	--	--	87	--	--
05...	1200	6050	181	2960	--	--	--	--	--	83	--	--
05...	1300	6070	165	2700	--	--	--	--	--	87	--	--
05...	1345	6070	165	2700	46	61	75	83	88	92	96	100
05...	1400	6050	155	2530	--	--	--	--	--	88	--	--
APR												
22...	1745	414	22	25	--	--	--	--	--	86	--	--
26...	1200	1340	60	217	--	--	--	--	--	93	--	--
26...	1240	1330	80	287	--	--	--	--	--	89	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04230650 GENESEE RIVER AT BALLANTYNE BRIDGE NEAR MORTIMER, NY

LOCATION.--Lat 43°05'26", long 77°40'52", Monroe County, Hydrologic Unit 04130003, on right bank 400 ft (120 m) upstream from Ballantyne Bridge on State Highway 252, 1.6 mi (2.6 km) west of Mortimer, and 2.8 mi (4.5 km) upstream from Erie (Barge) Canal. Water-quality sampling site at stage station.

DRAINAGE AREA.--2,206 mi² (5714 km²).

WATER-STAGE RECORDS

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft (152.400 m) above mean sea level.

REMARKS.--River regulated at high stages by Mount Morris Lake (see station 04224000). River regulated for operation of Erie (Barge) Canal and downstream power plants.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 19.33 ft (5.892 m) Mar. 5, 1976; minimum, 8.21 ft (2.502 m) Dec. 20, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.33 ft (5.892 m) Mar. 5; minimum, 8.52 ft (2.597 m) Jan. 9.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.72	11.94	10.29	11.64	13.30	14.99	13.76	13.40	12.25	12.38	13.55	12.07
2	11.77	11.97	10.38	11.48	13.26	15.63	13.41	13.27	12.35	12.47	13.36	12.05
3	12.12	12.04	10.60	11.43	12.37	15.79	13.19	13.20	12.40	12.08	12.90	12.11
4	12.22	12.09	11.67	11.58	10.68	17.71	13.09	13.17	12.35	12.12	12.27	12.10
5	11.98	12.05	11.11	11.59	10.56	19.15	12.98	13.06	12.05	12.06	12.23	12.10
6	12.07	11.94	10.70	11.33	11.30	18.81	12.70	12.46	11.95	12.08	12.19	12.10
7	11.74	12.18	10.92	11.02	12.00	17.23	12.11	12.13	12.05	12.15	12.11	12.10
8	11.67	12.18	10.85	10.58	12.58	16.57	12.04	12.53	12.80	12.16	12.11	12.05
9	11.60	12.26	10.92	8.87	12.32	16.35	11.96	12.61	12.75	12.14	12.77	12.05
10	11.53	12.16	11.18	8.97	11.32	16.02	12.02	12.50	12.25	12.21	12.30	12.05
11	11.62	12.10	11.51	10.54	12.73	15.71	11.93	12.33	12.16	12.09	12.23	12.00
12	11.56	12.11	11.37	12.08	14.13	15.19	11.48	12.32	12.18	12.25	12.15	12.00
13	11.57	12.31	11.24	11.73	14.13	14.72	11.71	12.36	12.08	12.32	12.13	12.00
14	11.57	12.25	11.60	11.49	14.25	14.84	11.88	12.21	11.98	12.24	12.13	12.01
15	11.57	12.44	12.20	11.29	13.81	15.13	11.88	12.21	12.02	12.21	12.17	11.99
16	11.48	12.15	13.03	12.15	13.90	15.10	11.96	12.27	12.10	12.16	12.32	12.02
17	11.46	12.19	13.24	11.97	15.57	14.95	12.07	12.27	12.11	12.17	12.11	12.01
18	12.05	12.14	12.91	11.76	16.53	14.73	11.92	12.76	12.16	12.19	12.11	12.01
19	12.50	12.13	12.56	11.64	16.56	14.77	11.72	12.88	12.23	12.12	12.14	12.08
20	12.64	12.09	12.32	11.89	15.83	15.33	11.72	13.43	12.07	12.10	12.02	12.05
21	12.74	11.93	12.33	12.07	14.14	15.46	11.96	13.68	12.28	12.10	11.98	12.02
22	12.74	11.58	11.64	12.00	14.51	15.22	12.18	13.21	12.33	11.91	12.08	12.04
23	12.60	11.59	10.86	12.01	15.16	14.81	12.48	12.75	12.95	12.17	12.00	11.98
24	12.45	11.39	10.86	12.25	15.15	14.32	12.22	12.44	12.56	12.04	12.07	12.03
25	12.26	10.30	11.57	12.19	15.26	13.99	12.48	12.42	12.23	12.11	11.99	12.01
26	12.23	10.12	11.81	11.95	15.40	13.97	15.12	12.47	12.23	12.22	12.01	11.87
27	12.17	10.13	11.42	13.13	15.39	14.04	14.76	12.36	12.14	12.13	12.02	11.87
28	12.09	10.07	11.47	14.06	15.31	13.88	13.26	12.31	12.24	12.19	11.96	12.01
29	12.04	10.23	11.80	12.96	15.04	13.85	13.48	12.18	12.15	12.11	11.98	12.11
30	12.13	10.25	11.41	13.05	---	13.81	13.58	12.02	12.20	12.36	12.09	12.17
31	12.07	---	11.31	13.17	---	13.66	---	12.01	---	13.02	12.16	---
MEAN	12.03	11.68	11.52	11.74	13.88	15.35	12.57	12.62	12.25	12.20	12.25	12.04
MAX	12.74	12.44	13.24	14.06	16.56	19.15	15.12	13.68	12.95	13.02	13.55	12.17
MIN	11.46	10.07	10.29	8.87	10.56	13.66	11.48	12.01	11.95	11.91	11.96	11.87
WTR YR 1976	MEAN 12.51		MAX 19.15	MIN 8.87								
CAL YR 1975	MEAN 12.16		MAX 16.27	MIN 10.07								

WATER-QUALITY RECORDS

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	SUS.	SUS.	SUS.	SUS.	SUS.	SUS.
SED.	SED.	SED.	SED.	SED.	SED.	SED.
FALL	FALL	STVF	STVF	STVF	STVF	STVF
DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.
% FINDER	% FINDER	% FINDER	% FINDER	% FINDER	% FINDER	% FINDER
THAN	THAN	THAN	THAN	THAN	THAN	THAN
DATE	.016 MM	.031 MM	.062 MM	.125 MM	.250 MM	.500 MM
MAP						
06...	53	62	72	80	96	100

STREAMS TRIBUTARY TO LAKE ONTARIO

04231000 BLACK CREEK AT CHURCHVILLE, NY

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, Hydrologic Unit 04130003, on right bank at east end of Carrol Street in Churchville, 100 ft (30 m) downstream from main-line tracks of Penn Central Transportation Co., and 0.3 mi (0.5 km) downstream from Black Creek Dam. Water-quality sampling site at discharge station.

DRAINAGE AREA.--123 mi² (319 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 552.45 ft (168.387 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair. Prior to May 1952, small diversion by Penn Central Transportation Co. and slight regulation by pumping operations upstream from station.

AVERAGE DISCHARGE.--31 years, 111 ft³/s (3.144 m³/s), 12.26 in/yr (311 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s (138 m³/s) Mar. 31, 1960, gage height, 9.44 ft (2.877 m); minimum, 0.22 ft³/s (0.006 m³/s) Aug. 19, 1970; minimum gage height, 0.93 ft (0.283 m) Aug. 5-7, Sept. 15, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (22.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 19	1630	1,260 35.7	5.51 1.679	Mar. 6	0700	*2,240 63.4	*7.12 2.170
Feb. 23	0800	888 25.1	4.76 1.451	Apr. 27	0630	1,440 40.8	5.84 1.780

Minimum discharge, 7.0 ft³/s (0.20 m³/s) Oct. 7, gage height, 1.44 ft (0.439 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	17	24	110	280	187	219	233	103	103	114	21
2	9.8	17	23	130	220	194	302	196	117	118	149	20
3	9.3	19	24	130	170	253	252	177	117	84	133	20
4	8.3	22	22	120	130	573	194	157	98	61	55	18
5	8.3	25	22	110	100	1680	162	139	79	47	31	16
6	8.8	26	39	90	84	2120	140	126	68	36	27	15
7	7.4	23	65	78	80	1200	126	191	72	32	30	15
8	9.3	24	93	74	78	511	116	281	89	34	39	13
9	11	25	91	68	76	342	109	276	80	33	50	12
10	11	34	72	64	79	290	104	193	64	30	40	14
11	12	35	117	66	149	260	103	157	51	33	30	13
12	11	41	131	64	208	250	108	164	40	40	25	15
13	12	37	114	58	457	250	106	179	39	73	80	14
14	14	29	117	68	524	260	100	162	40	89	189	12
15	15	26	192	82	583	260	100	139	55	68	342	11
16	13	24	399	90	720	230	117	128	50	53	231	12
17	12	22	405	84	959	170	125	122	46	53	114	13
18	28	20	220	74	1190	160	118	146	37	42	57	16
19	51	20	130	60	1250	200	104	204	31	30	38	21
20	48	19	98	54	1050	313	93	469	35	25	32	22
21	42	20	94	50	604	426	89	681	39	22	25	21
22	34	22	82	42	584	327	157	483	50	22	23	20
23	28	22	68	34	840	261	228	262	54	21	22	16
24	24	22	56	34	660	217	266	177	47	30	20	15
25	22	20	54	36	410	192	365	146	62	27	18	14
26	19	19	56	41	321	171	944	129	75	22	17	19
27	18	21	56	80	275	163	1340	117	57	17	17	51
28	18	21	56	200	231	167	814	109	72	17	20	79
29	17	21	56	420	202	180	465	95	79	25	42	58
30	16	24	60	450	---	166	322	86	72	58	37	35
31	16	---	78	360	---	162	---	87	---	76	25	---
TOTAL	565.2	717	3114	3421	12514	12135	7788	6211	1918	1421	2072	641
MEAN	18.2	23.9	100	110	432	391	260	200	63.9	45.8	66.8	21.4
MAX	51	41	405	450	1250	2120	1340	681	117	118	342	79
MIN	7.4	17	22	34	76	160	89	86	31	17	17	11
CFSM	.15	.19	.81	.89	3.51	3.18	2.11	1.63	.52	.37	.54	.17
IN.	.17	.22	.94	1.03	3.78	3.67	2.36	1.88	.58	.43	.63	.19

CAL YR 1975 TOTAL 40785.5 MEAN 112 MAX 1510 MIN 5.4 CFSM .91 IN 12.34
WTR YR 1976 TOTAL 52517.2 MEAN 143 MAX 2120 MIN 7.4 CFSM 1.16 IN 15.88

STREAMS TRIBUTARY TO LAKE ONTARIO
04231000 BLACK CREEK AT CHURCHVILLE, NY--Continued

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961, 1962, 1965 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT (L/DAY)	SUS. SED. FALL DIAM. \leq 0.002 MM	SUS. SED. FALL DIAM. \leq 0.004 MM	SUS. SED. FALL DIAM. \leq 0.008 MM	SUS. SED. FALL DIAM. \leq 0.016 MM	SUS. SED. FALL DIAM. \leq 0.031 MM	SUS. SED. FALL DIAM. \leq 0.062 MM	SUS. SED. FALL DIAM. \leq 0.125 MM	SUS. SED. FALL DIAM. \leq 0.250 MM
OCT												
01...	1115	12	3	.10	--	--	--	--	--	--	--	--
16...	1125	14	0	.00	--	--	--	--	--	--	--	--
31...	1135	15	4	.16	--	--	--	--	--	--	--	--
NOV												
15...	1325	26	2	.14	--	--	--	--	--	--	--	--
30...	1320	23	4	.25	--	--	--	--	--	--	--	--
DEC												
15...	1340	196	10	5.3	--	--	--	--	--	--	--	--
30...	1300	59	6	.96	--	--	--	--	--	--	--	--
JAN												
14...	1330	66	4	.71	--	--	--	--	--	--	--	--
29...	1330	429	1	1.2	--	--	--	--	--	--	--	--
FEB												
13...	1350	507	16	22	--	--	--	--	--	--	--	--
18...	1200	1240	33	110	--	--	--	--	--	72	--	--
18...	1615	1130	39	119	--	--	--	--	--	53	--	--
28...	1135	222	34	20	--	--	--	--	--	--	--	--
MAR												
05...	1145	1970	41	218	--	--	--	--	--	70	--	--
05...	1830	2100	53	301	--	--	--	--	--	67	--	--
06...	1500	2000	39	211	--	--	--	--	--	71	--	--
14...	1340	258	7	4.9	--	--	--	--	--	--	--	--
31...	1350	158	18	7.7	--	--	--	--	--	--	--	--
APR												
13...	0920	105	4	1.1	--	--	--	--	--	--	--	--
22...	1415	172	12	5.6	--	--	--	--	--	87	--	--
26...	1545	1100	24	71	45	78	84	88	90	97	99	100
28...	1400	756	8	16	--	--	--	--	--	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04232000 GENESEE RIVER AT ROCHESTER, NY

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, Hydrologic Unit 04130003, on right bank 40 ft (12 m) downstream from plant 5 of Rochester Gas and Electric Corp., 100 ft (30 m) upstream from bridge on Driving Park Avenue in Rochester, and 6.1 mi (9.8 km) upstream from mouth. Sediment samples collected at footbridge, 1.3 mi (2.1 km) upstream from discharge station.

DRAINAGE AREA.--2,457 mi² (6,364 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to September 1918, December 1919 to current year. Published as "at Driving Park Avenue," 1919-68.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.24 ft (75.054 m) above mean sea level (247.00 ft or 75.286 m, Barge Canal datum). April 1904 to December 1910, nonrecording gage and December 1910 to September 1918, water-stage recorder at site 5 mi (8 km) upstream at datum 506.85 ft (154.488 m), Barge Canal datum. December 1919 to Apr. 4, 1927, water-stage recorder in plant 5, and Apr. 4, 1927 to June 19, 1956, at present site at datum 250.00 ft (76.200 m), Barge Canal datum.

REMARKS.--Records fair. Extensive diurnal fluctuation caused by powerplants upstream from station. New York State Erie (Barge) Canal crosses river 5.4 mi (8.7 km) upstream from station. Water diverted by the canal from Lake Erie is discharged into river from the west, the canal again diverting a smaller amount of water from river to the east. Additional regulation is provided by Rushford Lake and Mount Morris Lake.

AVERAGE DISCHARGE.--69 years, (1905-18, 1920-76), 2,743 ft³/s (77.68 m³/s), 15.16 in/yr (385 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,300 ft³/s (1,370 m³/s) Mar. 30, 1916, gage height, 15.3 ft (4.66 m) site and datum then in use; maximum at present site, 34,400 ft³/s (974 m³/s) Mar. 19, 1942; maximum gage height, 17.08 ft (5.206 m) Apr. 2, 1940, present datum; minimum discharge, less than 10 ft³/s (0.28 m³/s), occurred during low-water periods when powerplant was shut down; minimum daily, 91 ft³/s (2.58 m³/s) Jan. 9, 29, Feb. 1, 8, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, about 54,000 ft³/s (1,530 m³/s) Mar. 18, 1865.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,400 ft³/s (634 m³/s) Mar. 4 (result of regulation), Mar. 5, gage height, 13.96 ft (4.255 m); minimum, 110 ft³/s (3.12 m³/s) Oct. 17, 29, gage height, 0.71 ft (0.216 m), result of regulation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FFB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6570	1410	1670	4060	4260	11200	7790	5930	2880	3410	7480	1040
2	3870	1200	1780	3680	4260	12200	6830	5410	3320	3570	6930	788
3	2160	1200	2630	3870	3980	12800	5640	5020	3740	2870	5060	821
4	2470	1300	1710	3520	2620	17800	5140	4000	3150	2580	3440	827
5	2150	1280	3260	3090	1850	21700	4590	5130	2450	2460	2420	924
6	1980	1200	2580	2620	2330	20900	4240	4340	2210	1810	2060	665
7	1890	1200	2250	2250	2710	16700	3890	3810	2310	1610	2190	851
8	1530	1490	2520	2340	3270	15000	2930	3830	3280	1780	3590	795
9	1670	1100	2420	2000	3750	14400	2610	4110	3130	1730	5430	582
10	1640	1620	3920	1280	3560	13800	2430	3720	2270	1570	4080	808
11	1700	1450	4320	1070	4450	13200	2570	3360	1930	2160	2830	770
12	1770	1680	4150	1380	6230	12000	2570	3290	1790	2860	2440	852
13	1660	2200	3990	1450	6880	11100	2250	3340	1750	3520	2960	1010
14	1530	2890	4440	2060	8000	11100	2240	3240	1720	3030	3070	714
15	1540	3040	7080	1900	7480	11600	2190	2820	1560	2580	3180	634
16	1330	2370	7140	2300	8400	11400	2650	2550	1650	2200	3350	653
17	917	1970	8020	2310	13100	10900	2300	2990	1700	2290	3030	871
18	1810	2010	7150	1820	15900	10400	2380	4460	1850	2370	2040	885
19	4070	1850	5480	1820	15900	10700	2210	5240	1960	1660	1700	859
20	4830	1950	5170	1460	14100	12300	1790	7640	2100	1580	1650	1020
21	4600	1840	4790	1770	10200	12500	1920	8220	2480	1500	1160	1040
22	4490	1660	5810	1650	10800	11900	3380	5870	3560	1320	1320	918
23	4080	1360	4910	1420	12000	10900	4250	4730	4910	1660	1440	912
24	3800	2050	4050	1600	12100	10000	4020	3960	4190	1560	1100	849
25	3060	1990	3490	2160	12400	9320	4850	3580	3230	1380	1110	808
26	2440	1570	3790	2240	12700	8690	12100	3120	2830	1110	948	798
27	1800	1150	3540	3990	12600	8560	11500	3710	3030	1200	921	743
28	1770	1340	3190	5450	12400	8430	7600	3600	2720	1030	1370	772
29	1750	1260	2960	4530	11800	8040	6330	3050	2190	1460	1000	882
30	1620	1480	3750	4100	---	7560	6400	2850	2500	2490	733	1070
31	1220	---	3380	4110	---	7330	---	2540	---	5790	834	---
TOTAL	77717	50110	125340	79300	240030	374430	131590	129460	78390	68140	80866	25161
MEAN	2507	1670	4043	2558	8277	12080	4386	4176	2613	2198	2609	839
MAX	6570	3040	8020	5450	15900	21700	12100	8220	4910	5790	7480	1070
MIN	917	1100	1670	1070	1850	7330	1790	2540	1560	1030	733	582

CAL YR 1975 TOTAL 1234923 MEAN 3383 MAX 16200 MIN 471
WTR YR 1976 TOTAL 1460534 MEAN 3991 MAX 21700 MIN 582

STREAMS TRIBUTARY TO LAKE ONTARIO

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04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: April 1975 to current year.

REMARKS.--Prior to October 1967, published as "at Driving Park Avenue." Additional water-quality data available from New York State Department of Environmental Conservation.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,130 mg/L Feb. 18, 1976; minimum daily mean, 8 mg/L July 28, 1975, Jan. 12, 1976.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 91,400 tons (82,900 tonnes) Feb. 18, 1976; minimum daily, 22 tons (20 tonnes) July 28, 1975.

EXTREMES FOR CURRENT YEAR.--

SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,130 mg/L Feb. 18; minimum daily mean, 8 mg/L Jan. 12.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 91,400 tons (82,900 tonnes) Feb. 18; minimum daily, 30 tons (27 tonnes) Jan. 12.

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6570	350	6210	1410	32	122	1670	15	68
2	3870	152	1590	1200	27	87	1780	13	62
3	2160	77	449	1200	24	78	2630	13	92
4	2470	73	487	1300	27	95	1710	29	134
5	2150	68	395	1280	33	114	3260	30	264
6	1980	61	326	1200	40	130	2580	23	160
7	1890	54	276	1200	74	240	2250	16	97
8	1530	47	194	1490	67	270	2520	15	102
9	1670	45	203	1100	45	134	2420	152	1090
10	1640	43	190	1620	52	227	3920	38	402
11	1700	40	184	1450	32	125	4320	84	980
12	1770	42	201	1680	34	154	4150	58	650
13	1660	34	152	2200	46	273	3990	42	452
14	1530	38	157	2890	30	234	4440	42	503
15	1540	40	166	3040	25	205	7080	335	6400
16	1330	52	187	2370	22	141	7140	356	6860
17	917	37	92	1970	22	117	8020	384	8320
18	1810	44	215	2010	17	92	7150	325	6270
19	4070	122	1340	1850	61	305	5480	272	4020
20	4830	260	3390	1950	54	284	5170	255	3560
21	4600	415	5150	1840	29	144	4790	258	3340
22	4490	235	2850	1660	24	108	5810	325	5100
23	4080	135	1490	1360	16	59	4910	316	4190
24	3800	88	903	2050	51	282	4050	205	2240
25	3060	69	570	1990	11	59	3490	127	1200
26	2440	54	356	1570	9	38	3790	121	1240
27	1800	46	224	1150	11	34	3540	68	650
28	1770	46	220	1340	11	40	3190	39	336
29	1750	47	222	1260	9	31	2960	33	264
30	1620	36	157	1480	12	48	3750	69	699
31	1220	32	105	---	---	---	3380	32	292
TOTAL	77717	---	28651	50110	---	4270	125340	---	60037

STREAMS TRIBUTARY TO LAKE ONTARIO

04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4060	35	384	4260	184	2120	11200	465	14100
2	3680	37	368	4260	316	3630	12200	497	16400
3	3870	33	345	3980	236	2540	12800	340	11800
4	3520	34	323	2620	69	488	17800	978	48600
5	3090	29	242	1850	51	255	21700	1050	61500
6	2620	17	120	2330	39	245	20900	606	34200
7	2250	15	91	2710	47	344	16700	442	19900
8	2340	14	88	3270	125	1100	15000	428	17300
9	2000	9	49	3750	81	820	14400	421	16400
10	1280	13	45	3560	65	625	13800	388	14500
11	1070	14	40	4450	90	1080	13200	355	12700
12	1380	8	30	6230	161	2710	12000	313	10100
13	1450	10	39	6880	141	2620	11100	370	11100
14	2060	9	50	8000	174	3760	11100	339	10200
15	1900	12	62	7480	158	3190	11600	300	9400
16	2300	13	81	8400	165	3740	11400	228	7020
17	2310	9	56	13100	1040	40400	10900	226	6650
18	1820	11	54	15900	2130	91400	10400	217	6090
19	1820	13	64	15900	1600	68700	10700	225	6500
20	1460	11	43	14100	1160	44200	12300	180	5980
21	1770	10	48	10200	525	14500	12500	227	7660
22	1650	12	53	10800	525	15300	11900	193	6200
23	1420	13	50	12000	1290	41800	10900	158	4650
24	1600	9	39	12100	1390	45400	10000	169	4560
25	2160	11	64	12400	778	26000	9320	165	4150
26	2240	10	60	12700	860	29500	8690	149	3500
27	3990	19	205	12600	795	27000	8560	144	3330
28	5450	81	1190	12400	745	24900	8430	199	4530
29	4530	55	673	11800	559	17800	8040	191	4150
30	4100	39	432	---	---	---	7560	145	2960
31	4110	76	843	---	---	---	7330	142	2810
TOTAL	79300	---	6231	240030	---	516167	374430	---	388940
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7790	168	3530	5930	140	2240	2880	25	194
2	6830	159	2930	5410	90	1310	3320	24	215
3	5640	115	1750	5020	73	989	3740	28	283
4	5140	125	1730	4000	49	529	3150	27	230
5	4590	102	1260	5130	54	748	2450	21	139
6	4240	88	1010	4340	42	492	2210	20	119
7	3890	105	1100	3810	36	370	2310	19	119
8	2930	89	704	3830	36	372	3280	21	186
9	2610	91	641	4110	32	355	3130	23	194
10	2430	62	407	3720	28	281	2270	24	147
11	2570	50	347	3360	25	227	1930	21	109
12	2570	35	243	3290	27	240	1790	21	101
13	2250	34	207	3340	23	207	1750	21	99
14	2240	27	163	3240	24	210	1720	26	121
15	2190	27	160	2820	20	152	1560	20	84
16	2650	29	207	2550	17	117	1650	18	80
17	2300	30	186	2990	22	178	1700	26	119
18	2380	27	174	4460	35	421	1850	29	145
19	2210	35	209	5240	82	1160	1960	24	127
20	1790	25	121	7640	154	3180	2100	25	142
21	1920	36	187	8220	185	4110	2480	30	201
22	3380	40	365	5870	97	1540	3560	35	336
23	4250	90	1030	4730	40	511	4910	76	1010
24	4020	81	879	3960	28	299	4190	148	1670
25	4850	66	864	3580	23	222	3230	69	602
26	12100	1260	35100	3120	21	177	2830	46	351
27	11500	630	19600	3710	23	230	3030	37	303
28	7600	198	4060	3600	26	253	2720	37	272
29	6330	155	2650	3050	26	214	2190	40	237
30	6400	169	2920	2850	27	208	2500	46	310
31	---	---	---	2540	31	213	---	---	---
TOTAL	131590	---	84734	129460	---	21755	78390	---	8245

STREAMS TRIBUTARY TO LAKE ONTARIO

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04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3410	68	626	7480	427	8620	1040	25	70
2	3570	55	530	6930	323	6040	788	28	60
3	2870	51	395	5060	125	1710	821	39	86
4	2580	53	369	3440	78	724	827	35	78
5	2460	46	306	2420	57	372	924	27	67
6	1810	42	205	2060	66	367	665	28	50
7	1610	46	200	2190	59	349	851	26	60
8	1780	53	255	3590	159	1660	795	28	60
9	1730	125	663	5430	224	3280	582	31	49
10	1570	128	497	4080	160	1760	808	27	59
11	2160	40	233	2830	94	718	770	28	58
12	2860	47	363	2440	71	468	852	27	62
13	3520	55	523	2960	68	543	1010	22	60
14	3030	45	368	3070	68	564	714	21	40
15	2580	39	272	3180	64	550	634	23	39
16	2200	41	244	3350	63	570	653	20	35
17	2290	40	247	3030	58	474	871	21	49
18	2370	35	224	2040	50	275	885	24	57
19	1660	33	148	1700	66	303	859	20	46
20	1580	37	158	1650	61	272	1020	19	52
21	1500	38	154	1160	42	132	1040	21	59
22	1320	35	125	1320	37	132	918	21	52
23	1660	39	175	1440	24	93	912	19	47
24	1560	32	135	1100	23	68	849	19	44
25	1380	27	101	1110	28	84	808	20	44
26	1110	40	120	948	29	74	798	21	45
27	1200	35	113	921	25	62	743	30	60
28	1030	37	103	1370	22	81	772	28	58
29	1460	22	87	1000	27	73	882	44	105
30	2490	38	319	733	27	53	1070	24	69
31	5790	261	4330	834	---	---	---	---	---
TOTAL	68140	---	12588	80866	---	30471	25161	---	1720

STREAMS TRIBUTARY TO LAKE ONTARIO

04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SED- MENT (MG/L)	SUS- PENDE SED- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
DEC							
15...	1600	8450	543	12400	16	21	26
16...	1600	7460	348	7010	27	31	39
17...	1200	7980	391	8420	23	29	36
JAN							
26...	2100	1670	8	36	--	--	--
30...	0745	3070	35	290	--	--	--
FEB							
01...	1800	4230	220	2510	--	--	--
01...	2100	4140	178	1990	--	--	--
03...	1300	4220	248	2830	--	--	--
04...	1200	2540	65	446	--	--	--
05...	0950	2240	55	333	--	--	--
11...	0700	4510	82	999	--	--	--
11...	1500	6400	48	829	--	--	--
12...	0800	6240	137	2310	--	--	--
12...	1200	5820	150	2360	34	42	54
12...	1600	6430	172	2990	--	--	--
13...	0700	6470	147	2570	--	--	--
13...	1600	7020	153	2900	--	--	--
13...	2345	7440	152	3050	--	--	--
14...	1115	8040	293	6360	--	--	--
14...	1400	8060	197	4290	22	28	38
15...	1300	7290	155	3050	32	38	50
16...	1300	9550	157	4050	36	45	54
17...	0800	11600	570	17900	16	23	32
19...	0800	16100	1680	73000	19	23	32
19...	1700	15700	1500	63600	20	27	35
20...	1200	16000	1170	50500	19	26	34
20...	1700	13500	1200	43700	35	45	53
21...	1400	11000	548	16300	26	36	43
21...	1700	10600	626	17900	--	--	--
21...	1730	9220	417	10400	--	--	--
21...	1930	10700	680	19600	29	36	44
22...	0800	10300	413	11500	--	--	--
22...	1100	11500	493	15300	--	--	--
22...	1200	11100	545	16300	--	--	--
22...	1400	11400	548	16900	33	40	49
22...	1700	10600	626	17900	26	36	43
22...	1930	11900	680	21800	29	36	44
24...	0700	11900	581	18700	--	--	--
24...	0900	13000	1547	54300	--	--	--
24...	2300	12300	8860	294000	32	42	48

STREAMS TRIBUTARY TO LAKE ONTARIO

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04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
DEC						
15...	43	56	88	99	99	100
16...	58	73	94	99	99	100
17...	43	60	82	100	--	--
JAN						
26...	--	--	81	--	--	--
30...	--	--	89	--	--	--
FEB						
01...	--	--	96	--	--	--
01...	--	--	93	--	--	--
03...	--	--	91	--	--	--
04...	--	--	94	--	--	--
05...	--	--	87	--	--	--
11...	--	--	92	--	--	--
11...	--	--	93	--	--	--
12...	--	--	88	--	--	--
12...	67	81	96	99	100	--
12...	--	--	92	--	--	--
13...	--	--	90	--	--	--
13...	--	--	88	--	--	--
13...	--	--	80	--	--	--
14...	--	--	78	--	--	--
14...	50	64	85	99	100	--
15...	62	74	88	99	100	--
16...	63	75	89	99	100	--
17...	44	--	77	96	100	--
19...	42	54	68	87	98	100
19...	40	60	68	87	99	100
20...	45	57	71	85	98	100
20...	64	75	71	85	100	100
21...	51	64	89	95	97	100
21...	--	--	81	89	--	--
21...	--	--	88	--	--	--
21...	62	76	89	95	99	100
22...	--	--	93	--	--	--
22...	--	--	86	--	--	--
22...	--	--	80	--	--	--
22...	59	70	89	95	100	--
22...	51	64	81	89	97	100
22...	62	76	89	95	99	100
24...	--	--	83	--	--	--
24...	--	--	83	--	--	--
24...	56	69	84	93	99	100

STREAMS TRIBUTARY TO LAKE ONTARIO

04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
FEB							
25...	0700	12400	739	24700	--	--	--
25...	2000	12500	776	26200	--	--	--
26...	0700	12600	767	26100	--	--	--
26...	1100	12700	799	27400	--	--	--
26...	1200	12700	855	29300	--	--	--
26...	2000	12700	1543	52900	--	--	--
27...	0700	12600	900	30600	--	--	--
27...	1300	12500	682	23000	--	--	--
27...	1520	12500	713	24100	--	--	--
27...	2300	12500	668	22500	--	--	--
28...	1245	12400	803	26900	--	--	--
MAR							
01...	0700	11300	478	14600	--	--	--
01...	1100	10900	443	13000	--	--	--
02...	0700	12100	476	15600	--	--	--
02...	1200	12000	513	16600	--	--	--
03...	0700	12300	351	11700	--	--	--
03...	1300	12400	288	9640	--	--	--
03...	1800	13700	313	11600	--	--	--
03...	1830	13700	346	12800	26	34	41
03...	2000	13900	327	12300	--	--	--
03...	2030	13900	341	12800	--	--	--
03...	2100	14100	356	13600	--	--	--
03...	2130	14100	373	14200	--	--	--
03...	2200	14300	405	15600	--	--	--
03...	2230	14300	382	14700	--	--	--
03...	2300	14800	389	15500	--	--	--
03...	2330	14800	409	16300	--	--	--
04...	0700	17300	619	28900	19	27	35
04...	1200	16600	1020	45700	33	42	54
04...	1630	21500	1630	94600	27	31	37
04...	1900	19300	1340	69800	25	33	42
04...	2100	19600	1180	62400	26	34	42
05...	0700	21500	1060	61500	19	26	34
05...	1200	22100	1103	65800	--	--	--
05...	1630	22300	1045	62900	--	--	--
05...	1800	4260	503	5790	--	--	--
05...	2000	22300	365	22000	--	--	--
06...	0800	21600	708	41300	--	--	--
06...	1130	21200	536	30700	17	24	31
06...	1300	20800	640	35900	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

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04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
FEB						
25...	--	--	82	--	--	--
25...	--	--	82	--	--	--
26...	--	--	81	--	--	--
26...	--	--	80	--	--	--
26...	--	--	83	--	--	--
26...	--	--	80	--	--	--
27...	--	--	76	--	--	--
27...	--	--	82	--	--	--
27...	--	--	77	--	--	--
27...	--	--	79	--	--	--
28...	--	--	67	--	--	--
MAR						
01...	--	--	78	--	--	--
01...	--	--	80	--	--	--
02...	--	--	83	--	--	--
02...	--	--	80	--	--	--
03...	--	--	78	--	--	--
03...	--	--	81	--	--	--
03...	--	--	72	--	--	--
03...	48	58	70	87	99	100
03...	--	--	73	--	--	--
03...	--	--	73	--	--	--
03...	--	--	71	--	--	--
03...	--	--	70	--	--	--
03...	--	--	76	--	--	--
03...	--	--	72	--	--	--
03...	--	--	75	--	--	--
03...	--	--	73	--	--	--
04...	46	55	70	86	98	100
04...	68	78	84	92	100	--
04...	47	55	63	78	98	100
04...	53	62	71	82	97	100
04...	52	62	72	83	97	100
05...	42	51	67	81	96	100
05...	--	--	60	--	--	--
05...	--	--	63	--	--	--
05...	--	--	65	76	90	100
05...	--	--	63	--	--	--
06...	--	--	61	--	--	--
06...	39	49	63	76	93	100
06...	--	--	60	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
MAR							
06...	1745	20000	622	33600	--	--	--
06...	1800	4260	503	5790	--	--	--
07...	0930	16800	430	19500	--	--	--
07...	1145	16500	431	19200	--	--	--
07...	1845	15700	441	18700	--	--	--
08...	0700	150	408	165	--	--	--
08...	1100	14900	517	20800	--	--	--
08...	1300	15000	424	17200	--	--	--
09...	0700	14600	443	17500	--	--	--
09...	1200	14400	419	16300	--	--	--
09...	2200	14200	396	15200	--	--	--
10...	0700	13900	380	14300	--	--	--
10...	1630	13700	398	14700	--	--	--
10...	2100	13600	385	14100	--	--	--
10...	2230	13600	370	13600	--	--	--
11...	0700	13500	378	13800	--	--	--
12...	0700	11800	289	9210	--	--	--
12...	1200	12000	336	10900	34	43	49
12...	2000	11800	312	9940	--	--	--
12...	2200	11800	322	10300	--	--	--
13...	0730	11400	317	9760	--	--	--
13...	0930	11300	310	9460	--	--	--
13...	1100	11200	373	11300	34	39	46
13...	1630	10400	387	10900	--	--	--
13...	1800	10600	453	13000	32	38	45
14...	0700	11100	335	10000	--	--	--
14...	0800	11100	297	8900	--	--	--
14...	0900	11200	289	8740	--	--	--
14...	1000	11200	287	8680	--	--	--
14...	1700	9800	379	10000	--	--	--
14...	2330	10600	341	9760	32	42	50
15...	0730	11500	294	9130	--	--	--
15...	1130	11500	325	10100	--	--	--
15...	1630	11700	297	9380	--	--	--
16...	0645	11500	233	7240	--	--	--
16...	1230	11200	223	6740	--	--	--
16...	1630	11600	301	9430	--	--	--
16...	2230	11300	216	6590	--	--	--
17...	1630	10400	234	6570	--	--	--
18...	0700	10500	203	5760	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

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04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
MAR							
06...	--	--	56	--	--	--	--
06...	--	--	65	76	90	100	--
07...	--	--	68	77	92	99	100
07...	--	--	66	--	--	--	--
07...	--	--	71	--	--	--	--
08...	--	--	76	--	--	--	--
08...	--	--	63	--	--	--	--
08...	--	--	68	--	--	--	--
09...	--	--	73	--	--	--	--
09...	--	--	78	87	--	--	--
09...	--	--	75	--	--	--	--
10...	--	--	72	--	--	--	--
10...	--	--	72	--	--	--	--
10...	--	--	70	--	--	--	--
10...	--	--	71	--	--	--	--
11...	--	--	69	--	--	--	--
12...	--	--	80	--	--	--	--
12...	57	68	80	89	98	100	--
12...	--	--	77	--	--	--	--
12...	--	--	75	--	--	--	--
13...	--	--	78	--	--	--	--
13...	--	--	76	--	--	--	--
13...	57	67	77	89	98	100	--
13...	--	--	67	--	--	--	--
13...	54	55	81	91	98	100	--
14...	--	--	73	--	--	--	--
14...	--	--	71	--	--	--	--
14...	--	--	71	--	--	--	--
14...	--	--	77	--	--	--	--
14...	--	--	72	--	--	--	--
14...	60	70	83	93	99	100	--
15...	--	--	74	--	--	--	--
15...	--	--	69	--	--	--	--
15...	--	--	74	--	--	--	--
16...	--	--	79	--	--	--	--
16...	--	--	83	--	--	--	--
16...	--	--	76	--	--	--	--
16...	--	--	84	--	--	--	--
17...	--	--	79	--	--	--	--
18...	--	--	77	--	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SUS- PENDE DI- MENT (MG/L)	SUS- PENDE DI- MENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
MAR							
18...	1230	10400	202	5670	--	--	--
18...	1630	10400	227	6370	--	--	--
19...	0700	10400	198	5560	--	--	--
19...	0830	10500	205	5810	--	--	--
20...	0100	11500	243	7550	26	33	37
20...	0200	11600	244	7640	--	--	--
20...	0900	12600	280	9530	22	30	35
20...	0930	12600	277	9420	--	--	--
20...	1400	12000	253	8200	--	--	--
20...	1700	9700	261	6840	27	30	37
20...	2330	12200	245	8070	--	--	--
21...	1330	12500	260	8780	--	--	--
21...	1400	12500	253	8540	--	--	--
21...	1700	12400	261	8740	27	30	37
21...	2200	12200	219	7210	--	--	--
22...	0700	12000	182	5900	36	42	48
22...	1200	11800	184	5860	--	--	--
23...	1200	10700	156	4510	--	--	--
23...	1630	11000	152	4510	--	--	--
23...	2230	10500	157	4450	--	--	--
24...	1200	10000	172	4640	--	--	--
24...	2130	9800	187	4950	28	34	42
26...	0700	8610	151	3510	--	--	--
26...	1300	8610	140	3260	--	--	--
26...	2330	8760	144	3410	--	--	--
27...	0630	8570	141	3260	--	--	--
27...	0730	8550	139	3210	--	--	--
27...	1130	7470	148	2990	--	--	--
27...	1200	8550	141	3260	--	--	--
27...	1330	8400	142	3220	--	--	--
28...	0830	8360	199	4490	--	--	--
28...	0900	9970	215	5790	--	--	--
28...	1400	8380	232	5250	--	--	--
29...	1130	6760	246	4490	--	--	--
29...	1630	7940	180	3860	--	--	--
29...	1900	7820	186	3930	--	--	--
29...	2000	8140	177	3890	--	--	--
29...	2100	7980	179	3860	--	--	--
29...	2200	7640	181	3730	--	--	--
29...	2300	172	172	80	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

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04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
MAR							
18...	--	--	79	--	--	--	--
18...	--	--	79	--	--	--	--
19...	--	--	82	--	--	--	--
19...	--	--	80	--	--	--	--
20...	47	58	75	91	99	100	--
20...	--	--	70	--	--	--	--
20...	43	52	66	84	98	100	--
20...	--	--	63	--	--	--	--
20...	--	--	72	88	98	99	100
20...	45	54	66	81	93	100	--
20...	--	--	70	85	98	100	--
21...	--	--	72	--	--	--	--
21...	--	--	72	88	98	99	100
21...	45	54	66	81	93	100	--
21...	--	--	68	--	--	--	--
22...	55	61	69	84	98	100	--
22...	--	--	71	--	--	--	--
23...	--	--	76	--	--	--	--
23...	--	--	78	--	--	--	--
23...	--	--	73	--	--	--	--
24...	--	--	74	--	--	--	--
24...	53	64	79	90	98	100	--
26...	--	--	86	--	--	--	--
26...	--	--	89	--	--	--	--
26...	--	--	90	--	--	--	--
27...	--	--	92	--	--	--	--
27...	--	--	94	--	--	--	--
27...	--	--	90	--	--	--	--
27...	--	--	94	--	--	--	--
27...	--	--	89	--	--	--	--
28...	--	--	91	--	--	--	--
28...	--	--	88	--	--	--	--
28...	--	--	88	--	--	--	--
29...	--	--	77	--	--	--	--
29...	--	--	93	--	--	--	--
29...	--	--	93	--	--	--	--
29...	--	--	90	--	--	--	--
29...	--	--	89	--	--	--	--
29...	--	--	89	--	--	--	--
29...	--	--	90	--	--	--	--

STREAMS TRIBUTARY TO LAKE ONTARIO

04232000 GENESEE RIVER AT ROCHESTER, NY--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM MENT (MG/L)	SUS- PENDE SEDIM DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINE THAN .062 MM
MAR					
30...	1530	7640	144	2970	92
30...	1615	7540	134	2730	91
30...	1900	7370	138	2750	95
30...	2000	7350	132	2620	91
30...	2100	7390	139	2770	93
30...	2200	7330	142	2810	92
30...	2300	7350	146	2900	94
31...	0700	7160	140	2710	93
31...	0800	7060	136	2590	93
31...	1500	7500	167	3380	92
31...	1600	7330	153	3030	93
31...	2000	7400	135	2700	88
31...	2100	7370	147	2930	94
31...	2200	7420	258	5170	57
APR					
01...	0700	8590	174	4040	92
01...	0800	8120	190	4170	91
01...	1200	7880	192	4090	87
02...	0700	6820	166	3060	94
02...	0800	6910	160	2990	93
02...	1300	6580	135	2400	95
02...	1400	6670	153	2760	92
02...	1500	6630	155	2780	94
02...	1600	6270	152	2570	93
03...	2330	5690	125	1920	98
04...	1220	4440	138	1650	82
04...	1300	4430	187	2240	90
04...	1400	5290	178	2540	88
04...	1500	5290	169	2410	94
04...	1600	5220	182	2570	93
04...	1830	5140	210	2910	88
04...	2220	4990	167	2250	93
10...	1220	2280	60	369	98
17...	1130	2590	32	224	95
22...	2330	4250	42	482	96
23...	1030	4400	118	1400	97
24...	1400	3990	74	797	99
26...	0100	9380	285	7220	96
26...	0700	12000	1218	39500	87
26...	0800	12200	1253	41300	89
26...	1145	12400	1136	38000	86
26...	1345	12900	1136	39600	85
26...	1630	13500	1199	43700	86
26...	1800	13100	1404	49700	86
26...	1945	13100	1421	50300	87
26...	2015	13400	1332	48200	--
26...	2115	13200	1405	46500	83
26...	2215	13300	1186	42600	89
26...	2315	13100	1173	41500	84
27...	0015	13000	1147	40300	84
27...	0115	13000	1313	46100	82
27...	0200	12900	1046	36400	85
27...	0700	12300	773	25700	84
27...	0800	12100	795	26000	85
27...	1615	10800	438	12800	89
27...	1730	10500	443	12600	88
27...	1945	10200	388	10700	89
27...	2350	9310	321	8070	91
MAY					
20...	1930	8020	177	3830	100
20...	2200	8180	182	4020	99
21...	0700	9010	204	4960	95
21...	0800	9220	195	4850	92
21...	1700	7960	167	3590	97
JUN					
25...	0400	3150	82	697	96
27...	0400	3530	42	400	99
AUG					
02...	0800	7440	376	7550	100
02...	1200	6240	353	5950	100
03...	0800	6270	149	2520	99
03...	1630	4630	274	3430	99
09...	2000	5050	162	2210	99

STREAMS TRIBUTARY TO LAKE ONTARIO

389

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY
(National stream-quality accounting network station)

LOCATION.--Lat 43°13'26", long 77°36'59", Monroe County, Hydrologic Unit 04130003, at Charlotte Docks, at the Rochester Cement Corp., in Rochester, 0.4 mi (0.6 km) upstream from Rattlesnake Point, 1.6 mi (2.6 km) upstream from Stutson Street Bridge, and 3.9 mi (6.3 km) downstream from gaging station (04232000) at Rochester.

DRAINAGE AREA.--2,457 mi² (6,364 km²) at gaging station 04232000.

PERIOD OF RECORD.--Water years 1971 to current year.

REMARKS.--Water-discharge data are based on records for 04232000 Genesee River at Rochester. Additional water-quality data available from New York State Department of Environmental Conservation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
MAY										
05...	1200	5130	380	6.8	11.0	20	11.6	103	480	8120
19...	1100	5240	505	7.6	14.5	30	10.6	102	310	380
JUN										
10...	1100	2270	530	7.8	21.5	10	9.2	105	210	828
30...	1100	2500	640	7.2	23.5	25	8.4	96	81100	170
JUL										
27...	1100	1200	800	7.7	23.5	20	7.3	86	630	50
AUG										
25...	1100	1110	710	7.6	25.0	1	7.8	95	140	810
SEP										
15...	1100	634	630	7.4	21.5	10	6.7	74	8210	85

DATE	HARD- NESS (CA, MG)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
MAY										
05...	150	52	44	9.5	14	1.8	118	0	97	49
19...	200	72	59	12	26	2.4	152	0	125	60
JUN										
10...	210	71	62	13	23	2.6	168	0	138	73
30...	210	85	62	13	47	2.9	150	0	123	75
JUL										
27...	220	91	67	13	33	3.1	158	0	130	83
AUG										
25...	230	92	69	14	40	3.5	168	0	138	88
SEP										
15...	240	110	72	15	29	3.1	165	0	135	100

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)
MAY									
05...	21	.1	2.6	218	200	.71	.48	1.2	.07
19...	42	.1	2.3	281	279	.69	.73	1.4	.09
JUN									
10...	37	.2	1.9	341	296	.74	1.1	1.8	.08
30...	79	.2	4.3	419	358	1.0	1.0	2.0	.15
JUL									
27...	56	.8	4.3	391	338	.65	1.2	1.9	.16
AUG									
25...	66	.2	2.8	428	366	.56	1.6	2.2	.17
SEP									
15...	49	.2	1.1	390	351	.52	1.1	1.6	.13

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

STREAMS TRIBUTARY TO LAKE ONTARIO

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)
MAY 19...	1	1	0	2	1	1	<10	0	<10	1	1
JUN 30...	3	1	2	1	0	1	10	0	10	1	0
AUG 25...	1	0	1	1	1	0	20	10	<10	1	0

DATE	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)
MAY 19...	0	0	0	0	1700	50	21	16	5	70	50
JUN 30...	1	10	0	10	1500	40	13	5	8	90	40
AUG 25...	1	20	10	10	1000	20	15	14	1	90	60

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE D MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	SUS- PENDE D SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)
MAY 19...	20	<.5	.0	<.5	30	10	20	0	0	0
JUN 30...	50	<.5	.0	<.5	40	20	20	0	0	0
AUG 25...	30	<.5	.0	<.5	30	0	40	0	0	0

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Oct. 15	1100	CHLOROPHYTA			May 5	1200	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					OCCYSTACEAE		
		ANKISTRODESMUS	370	4			ANKISTRODESMUS	51	7
		KIRCHNERIELLA	93	1			SCENEDESMACEAE		
		SCENEDESMACEAE					SCENEDESMUS	L	0
		SCENEDESMUS	1,100	12			CHRYSOPHYTA		
		CHRYSOPHYTA					BACILLARIOPHYCEAE		
		BACILLARIOPHYCEAE					CENTRALES		
		CENTRALES					COSCONODISCACEAE		
		COSCONODISCACEAE					CYCLOTELLA	410	59
		CYCLOTELLA	1,800	19			MELOSTRA	L	0
		MELOSTRA	3,800	42			PENNALES		
		PENNALES					ACHNANTHACEAE		
		CYMBELLACEAE					ACHNANTHES	L	0
		CYMBELLA	93	1			CYMBELLACEAE		
		FRAGILARIACEAE					CYMBELLA	L	0
		ASTERIONELLA	190	2			FRAGILARIACEAE		
		NAVICULACEAE					ASTERIONELLA	51	7
		NAVICULA	280	3			FRAGILARIA	L	0
		NITZSCHACEAE					GOMPHONEMATACEAE		
		NATZSCHIA	740	8			GOMPHONEMA	26	4
		SURIPELLACEAE					NAVICULACEAE		
		SURIPELLA	93	1			NAVICULA	77	11
		ACHNANTHACEAE					NITZSCHACEAE		
		RHOICOSPHEA	93	1			NITZSCHIA	77	11
		CYANOPHYTA					CHRYSOPHYCEAE		
		MYXOPHYCEAE					CHRYSONOMADALES		
		CHROOCOCCALES					OCHROMONADACEAE		
		CHROOCOCCACEAE					DINOBRYON	L	0
		ANACYSTIS	93	1			CYANOPHYTA		
		OSCILLATORIALES					MYXOPHYCEAE		
		OSCILLATORIA	370	4			OSCILLATORIALES		
		OSCILLATORIA					OSCILLATORIA	L	0
		TOTAL	9,100				TOTAL	690	
May 19	1100	CHLOROPHYTA			June 10	1100	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		MICRACTINIACEAE					OCCYSTACEAE		
		MICRACTINIUM	L	0			ANKISTRODESMUS	130	4
		OCCYSTACEAE					CHODATELLA	42	1
		ANKISTRODESMUS	L	0			KIRCHNERIELLA	42	1
		SCENEDESMACEAE					SCENEDESMACEAE		
		TETRASTRUM	110	5			CRUCIGENIA	330	12
		CHRYSOPHYTA					VOLVOCALES		
		BACILLARIOPHYCEAE					CHLAMYDOMONADACEAE		
		CENTRALES					CHLAMYDOMONAS	130	4
		COSCONODISCACEAE					CHRYSOPHYTA		
		CYCLOTELLA	130	6			BACILLARIOPHYCEAE		
		MELOSTRA	53	2			CENTRALES		
		PENNALES					COSCONODISCACEAE		
		ACHNANTHACEAE					CYCLOTELLA	880	31
		ACHNANTHES	27	1			MELOSTRA	420	15
		CYMBELLACEAE					PENNALES		
		CYMBELLA	240	11			CYMBELLACEAE		
		DIATOMACEAE					CYMBELLA	42	1
		DIATOMA	27	1			DIATOMACEAE		
		GOMPHONEMATACEAE					DIATOMA	42	1
		GOMPHONEMA	53	2			NAVICULACEAE		
		NAVICULACEAE					NAVICULA	170	6
		NAVICULA	690	32			NITZSCHACEAE		
		NITZSCHIA	720	33			NITZSCHIA	290	10
		ACHNANTHACEAE					CHRYSOPHYCEAE		
		RHOICOSPHEA	27	1			CHRYSONOMADALES		
		CYANOPHYTA					OCHROMONADACEAE		
		MYXOPHYCEAE					DINOBRYON	42	1
		OSCILLATORIALES					CYANOPHYTA		
		OSCILLATORIA	110	5			MYXOPHYCEAE		
		OSCILLATORIA					CHROOCOCCALES		
		TOTAL	2,200				CHROOCOCCACEAE		
							ANACYSTIS	250	9
							EUGLENOPHYTA		
							CRYPTOPHYCEAE		
							CRYPTOMONIDALES		
							CRYPTOMONADACEAE		
							CRYPTOMONAS	42	1
							TOTAL	2,800	

L - less than 1%, may not have been actually counted.

STREAMS TRIBUTARY TO LAKE ONTARIO

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
June 30	1100	CHLOROPHYTA			July 27	1100	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		HYDRODICTYACEAE					COELASTRACEAE		
		PEDIASTRUM	370	43			COELASTRUM	1,900	15
		OCCYSTACEAE					MICRACTINIACEAE		
		ANKISTRODESMUS	12	1			MICRACTINIUM	360	3
		SCENEDESMACEAE					OCCYSTACEAE		
		SCENEDESMUS	49	6			ANKISTRODESMUS	420	3
		CHRYSOPHYTA					KIRCHNERIELLA	1,500	12
		BACILLARIOPHYCEAE					OCCYSTIS	360	3
		CENTRALES					SCENEDESMACEAE		
		COSCINODISCACEAE					CRUCIGENIA	240	2
		CYCLOTELLA	120	14			SCENEDESMUS	960	8
		PENNALES					CHRYSOPHYTA		
		CYMBELLACEAE					BACILLARIOPHYCEAE		
		CYMBELLA	49	6			CENTRALES		
		DIATOMACEAE					COSCINODISCACEAE		
		DIATOMA	12	1			CYCLOTELLA	1,100	9
		GOMPHONEMACEAE					MELOSTRA	1,300	10
		GOMPHONEMA	12	1			PENNALES		
		NAVICULACEAE					CYMBELLACEAE		
		GYROSIGMA	12	1			CYMBELLA	L	0
		NAVICULA	61	7			NAVICULACEAE		
		NITZSCHACEAE					NAVICULA	180	1
		NITZSCHIA	85	10			NITZSCHACEAE		
		SURIPELLACEAE					NITZSCHIA	1,000	8
		SURIPELLA	12	1			XANTHOPHYCEAE		
		CHRYSOPHYCEAE					HETEROCOCCALES		
		CHRYSONOMADALES					CHLOROTHECIACEAE		
		OCHROMONADACEAE					OPHIOCYTIUM	L	0
		OCHROMONAS	37	4			CYANOPHYTA		
		BACILLARIOPHYCEAE					MYXOPHYCEAE		
		PENNALES					CHROOCOCCALES		
		ACHNANTHACEAE					CHROOCOCCACEAE		
		RHOICOSPHEA	24	3			AGMENELLUM	1,900	15
		TOTAL	850				ANACYSTIS	600	5
							OSCILLATORIALES		
							NOSTOCACEAE		
							ANABAENA	L	0
							OSCILLATORIA	600	5
							OSCILLATORIA		
							EUGLENOPHYTA		
							EUGLENOPHYCEAE		
							EUGLENALES		
							EUGLENACEAE		
							EUGLENA	L	0
							TOTAL	13,000	

L - less than 1%, may not have been actually counted.

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Aug. 25	1100	CHLOROPHYTA			Sep. 15	1100	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					HYDRODICTYACEAE		
		ANKISTRODESMUS	220	2			PEDIASTRUM	4,100	24
		KIRCHNERIELLA	440	4			MICRACTINIACEAE		
		OOCYSTIS	220	2			MICRACTINIUM	130	1
		SCENEDESMACEAE					OCCYSTACEAE		
		SCENEDESMUS	220	2			ANKISTRODESMUS	130	1
		VOLVOCALES					KIRCHNERIELLA	390	2
		CHLAMYDOMONADACEAE					OOCYSTIS	510	3
		CHLAMYDOMONAS	660	6			SCENEDESMACEAE		
		CHRYSOPHYTA					ACTINASTRUM	510	3
		BACILLARIOPHYCEAE					SCENEDESMUS	L	0
		CENTRALES					VOLVOCALES		
		COSCINODISCEAE					CHLAMYDOMONADACEAE		
		CYCLOTELLA	6,200	54			CHLAMYDOMONAS	L	0
		MELOSIRA	880	8			CHRYSOPHYTA		
		PENNALES					BACILLARIOPHYCEAE		
		FRAGILARIACEAE					CENTRALES		
		SYNEDRA	220	2			COSCINODISCEAE		
		NAVICULACEAE					CYCLOTELLA	8,200	48
		NAVICULA	220	2			MELOSIRA	1,000	6
		ACHNANTHACEAE					PENNALES		
		RHIOCOSPHENIA	440	4			CYMBELLACEAE		
		CYANOPHYTA					CYMBELLA	L	0
		MYXOPHYCEAE					FRAGILARIACEAE		
		CHROOCOCCALES					FRAGILARIA	130	1
		CHROOCOCCACEAE					NAVICULACEAE		
		ANACYSTIS	1,800	15			NAVICULA	L	0
		TOTAL	11,000				NITZSCHACEAE		
							NITZSCHIA	390	2
							SURIPELLACEAE		
							SURIPELLA	L	0
							CYANOPHYTA		
							MYXOPHYCEAE		
							OSCILLATORIALES		
							NOSTOCACEAE		
							APHANIZOENON	L	0
							OSCILLATORIA	1,500	9
							TOTAL	17,000	

L - less than 1%, may not have been actually counted.

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
June 10	36	Dry weight	Ash weight				
		33.2	27.4	58.1	1.16	99	Polyethylene strip
Aug. 25	56	18.2	13.5	27.0	7.80	170	Polyethylene strip

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT (MG/L)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT (MG/L)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 16...	1100	1330	33	118	98	JUL 27...	1100	1200	31	100	99
MAY 05...	1200	5130	55	762	97	AUG 25...	1100	1110	36	108	94
19...	1100	5240	65	920	98	SEP 15...	1100	634	22	38	93
JUN 10...	1100	2270	50	306	62						
30...	1100	2500	53	358	96						

LOCATION.--Lat 43°07'15", long 77°28'38", Monroe County, Hydrologic Unit 04140101, on left bank 200 ft (61 m) upstream from bridge on Linden Avenue, 2.2 mi (3.5 km) upstream from Allen Creek, and 6.9 mi (11.1 km) upstream from mouth.

PERIOD OF RECORD.--August 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 341.46 ft (104.077 m) above mean sea level.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft³/s (41.9 m³/s) Oct. 29, 1974, gage height, 15.64 ft (4.767 m); minimum, 25 ft³/s (0.71 m³/s) Sept. 9-11, 1975, gage height, 11.27 ft (3.435 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 570 ft³/s (16 m³/s) and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Feb. 19	1015	662	18.7	13.93	4.246	Apr. 26	1745	658	18.6	13.92	4.243
Mar. 4	1445	*1,020	28.9	*14.73	4.490	May 20	1030	670	19.0	13.95	4.252
Apr. 16	0615	584	16.5	13.73	4.185						

Minimum discharge, 36 ft³/s (1.02 m³/s) Sept. 15, 26; minimum gage height, 11.39 ft (3.472 m) Oct. 7, 9.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	50	68	160	145	125	180	143	115	127	137	45
2	53	50	65	118	120	147	200	173	144	78	102	50
3	51	55	64	120	100	459	190	144	101	72	76	45
4	47	65	60	100	86	862	150	122	84	67	69	43
5	44	61	59	88	78	786	130	111	78	61	68	42
6	43	59	115	90	72	357	103	113	75	59	66	41
7	42	60	138	92	68	227	94	161	143	56	78	41
8	43	63	98	82	66	185	93	145	108	59	99	40
9	47	60	149	74	68	162	91	132	85	66	82	40
10	67	100	326	70	76	157	87	126	78	58	72	53
11	58	100	287	71	250	156	93	120	72	236	65	45
12	51	79	188	74	255	134	90	121	66	298	61	43
13	52	72	147	75	345	138	84	104	64	361	209	40
14	59	73	240	123	384	127	78	98	66	271	115	39
15	53	70	305	138	271	120	80	108	80	175	133	38
16	49	65	252	119	435	113	376	99	70	133	109	41
17	50	63	171	92	546	102	251	146	75	114	78	44
18	119	60	138	84	574	103	173	210	67	95	59	48
19	115	58	97	80	619	177	138	241	123	81	56	44
20	101	56	94	84	344	286	115	607	151	71	54	47
21	88	60	86	79	259	213	115	409	118	72	52	44
22	72	58	90	68	447	178	131	213	112	67	50	40
23	65	56	90	64	328	143	139	162	94	64	49	41
24	60	57	80	66	226	126	123	134	80	63	61	40
25	58	57	82	70	204	116	350	121	102	60	49	38
26	64	57	80	111	175	108	605	132	79	58	49	57
27	78	57	78	306	154	110	443	110	73	57	48	71
28	72	57	82	302	135	120	272	97	65	56	49	56
29	66	55	86	224	123	106	206	88	59	92	50	51
30	52	58	98	170	---	120	165	85	116	105	43	44
31	50	---	161	150	---	150	---	94	---	105	43	---
TOTAL	1920	1891	4074	3544	6953	6413	5345	4869	2743	3337	2331	1351
MEAN	61.9	63.0	131	114	240	207	178	157	91.4	108	75.2	45.0
MAX	119	100	326	306	619	862	605	607	151	361	209	71
MIN	42	50	59	64	66	102	78	85	59	56	43	38
CFSM	.67	.68	1.41	1.23	2.59	2.23	1.92	1.69	.98	1.16	.81	.48
IN.	.77	.76	1.63	1.42	2.79	2.57	2.14	1.95	1.10	1.34	.93	.54
CAL YR 1975	TOTAL	41819	MEAN 115	MAX 745	MIN 27	CFSM 1.24	IN 16.76					
WTR YR 1976	TOTAL	44771	MEAN 122	MAX 862	MIN 38	CFSM 1.31	IN 17.95					

STREAMS TRIBUTARY TO LAKE ONTARIO

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04232050 ALLEN CREEK NEAR ROCHESTER, NY

LOCATION.--Lat 43°07'49", long 77°31'08", Monroe County, Hydrologic Unit 04140101, on right bank 525 ft (160 m) downstream from Penn Central Transportation Co. bridge, near Rochester, and about 1 mi (2 km) upstream from Irondequoit Creek.

DRAINAGE AREA.--30.1 mi² (78.0 km²), flow from 2.1 mi² (5.44 km²) not contributing.

PERIOD OF RECORD.--November 1959 to current year.

REVISED RECORDS.--WRD N.Y. 1974: 1972(M), 1973(M, P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 323.54 ft (98.615 m) above mean sea level.

REMARKS.--Records fair. Discharge includes undetermined diversion from Erie (Barge) Canal upstream from station.

AVERAGE DISCHARGE.--16 years (1960-76), 32.6 ft³/s (0.923 m³/s) (revised).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,280 ft³/s (92.9 m³/s) May 17, 1974, gage height, 7.42 ft (2.262 m) (revised); minimum daily discharge; 1.7 ft³/s (0.048 m³/s) Jan. 24, 1963; minimum gage height, 1.16 ft (0.354 m) Feb. 19, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft³/s (12.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 13	1830	482 13.7	4.12 1.256	May 20	0430	816 23.1	4.64 1.414
Mar. 4	1430	959 27.2	4.83 1.472	July 12	0900	788 22.3	4.60 1.402
Apr. 25	1900	*1,170 33.1	*5.09 1.551	Aug. 13	0945	1,070 30.3	4.96 1.512

Minimum discharge, 8.7 ft³/s (0.246 m³/s) Dec. 24, gage height, 2.05 ft (0.625 m).

REVISIONS.--The maximum discharges for the period of record have been revised, as shown in the following table. They supersede figures in the publications indicated. Asterisk (*) denotes maximum for the water year.

Publication		Date	Time	Discharge		Gage height		Publication		Date	Time	Discharge		Gage height	
WRD N.Y.	WSP			(ft ³ /s)	(m ³ /s)	(ft)	(m)	WRD N.Y.	WSP			(ft ³ /s)	(m ³ /s)	(ft)	(m)
1707,1727		Mar.30,1960	0815	*2,100	59.5	*6.06	1.847	1970	2112	Dec.11,1969	0515	*715	20.2	*4.52	1.378
1961	1912	Feb.26,1961	0330	*890	25.2	*4.25	1.295	1970		Feb.2,1970	2200	478	13.5	4.19	1.277
1962	1912	Mar.12,1962	1630	*782	22.1	*4.07	1.241	1970		Apr.2,1970	1545	555	15.7	4.30	1.311
1963	1912	Mar.17,1963	1900	*1,050	29.7	*4.51	1.375	1970		Aug.30,1970	2315	452	12.8	4.15	1.265
1964	1912	Mar.15,1964	0545	*481	13.6	*3.48	1.061	1971		Feb.27,1971	1815	685	19.4	4.48	1.366
1965	1912	Feb.8,1965	0245	*320	9.06	*3.32	1.012	1971		Mar.15,1971	1730	*874	24.8	*4.73	1.442
1966	2112	Feb.13,1966	2300	*492	13.9	*4.21	1.283	1971		Aug.23,1971	0345	611	17.3	4.38	1.335
1967	2112	May.11,1967	2100	*576	16.3	*4.33	1.320	1972,1974		June23,1972	0715	*900	25.5	*4.82	1.469
1968		Oct.19,1967	0415	670	19.0	4.46	1.359	1973,1974		Nov.9,1972	0730	578	16.4	4.28	1.305
1968		Nov.23,1967	0845	597	16.9	4.36	1.329	1973,1974		Nov.26,1972	1545	502	14.2	4.15	1.265
1968	2112	Jan.30,1968	0930	*775	21.9	*4.60	1.402	1973,1974		Dec.6,1972	1330	497	14.1	4.14	1.262
1968		Aug.24,1968	1030	541	15.3	4.28	1.305	1973,1974		Mar.4,1973	1915	566	16.0	4.26	1.298
1969		Nov.16,1968	0330	466	13.2	4.17	1.271	1973,1974		Mar.14,1973	1645	486	13.8	4.12	1.256
1969		Nov.29,1968	0130	506	14.3	4.23	1.289	1973,1974		Mar.17,1973	1515	*1,080	30.6	4.98	1.518
1969		Dec.4,1968	1245	534	15.1	4.27	1.301	1973,1974		Apr.5,1973	0130	729	20.6	4.52	1.378
1969		Jan.31,1969	0315	472	13.4	4.18	1.274	1974		Nov.15,1973	1830	480	13.6	4.11	1.253
1969	2112	Apr.19,1969	0745	*790	22.4	*4.62	1.408	1974		Dec.27,1973	0545	436	12.3	4.03	1.228
1969		June 3,1969	0230	604	17.1	4.37	1.332	1974		Feb.22,1974	1600	750	21.2	4.55	1.387
								1974		May 17,1974	0600	*3,280	92.9	*7.42	2.262
								1975		Feb.24,1975	1645	420	11.9	4.00	1.219
								1975		June16,1975	0745	*670	19.0	*4.43	1.350

Revised discharges, in cubic feet per second, for water years 1960-63, 1972-74, superseding figures published in WSP 1707, 1912, and WRD N.Y. 1961-63, 1972-74, are given herewith:

WTR YR	Date	Discharge	WTR YR	Date	Discharge	WTR YR	Date	Discharge	WTR YR	Date	Discharge
1960	Feb. 11	468	1961	Feb. 26	445	1973	Nov. 8	375	1973-Con.	Mar. 17	464
	Mar. 30	1,200	1962	Mar. 12	436		9	410		Apr. 5	385
	31	800	1963	Mar. 17	575		26	352	1974	Feb. 22	458
	Apr. 1	440	1972	June 23	596		Mar. 4	380		May 17	1780

Month	Total	Mean	Max	Min	Month	Total	Mean	Max	Min
February 1960	1,770	61.0	468	13	June 1972	2,188	72.9	596	24
March 1960	3,058	98.6	1200	21	WTR YR 1972	14,478.4	39.6	596	3.3
April 1960	2,020.2	67.3	440	9.2	November 1972	2,928	97.6	410	33
February 1961	1,216.9	43.5	445	5.2	March 1973	2,493	80.4	464	15
CAL YR 1960	10,797.4	29.5	1200	2.3	April 1973	1,898	65.3	385	14
WTR YR 1961	6,430.7	17.6	445	2.3	CAL YR 1972	17,717.4	48.4	596	5.0
March 1962	1,472.9	47.5	436	5.3	WTR YR 1973	16,777.6	46.0	464	9.2
CAL YR 1961	6,622	18.1	445	2.5	February 1974	1,039.6	37.1	458	8.8
WTR YR 1962	6,139.1	16.8	436	2.1	May 1974	3,063	98.8	1780	18
March 1963	2,881	92.9	575	11	CAL YR 1973	13,996.4	38.3	464	4.6
CAL YR 1962	6,476.9	17.7	436	2.1	WTR YR 1974	15,270.7	41.8	1780	4.6
WTR YR 1963	8,346.5	22.9	575	1.7	CAL YR 1974	15,588.9	42.7	1780	5.8
CAL YR 1963	8,734.9	23.9	575	1.7					

STREAMS TRIBUTARY TO LAKE ONTARIO
04232050 ALLEN CREEK NEAR ROCHESTER, NY--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	25	32	38	30	21	185	42	38	64	73	28
2	31	25	28	25	27	25	60	47	33	37	38	28
3	26	30	27	29	25	334	37	38	30	33	33	27
4	25	33	27	23	23	587	26	36	29	31	30	26
5	25	27	27	18	12	221	21	34	27	29	30	26
6	25	26	67	18	12	67	19	36	27	28	33	26
7	24	26	45	15	11	41	16	63	63	28	49	26
8	24	29	33	15	11	29	15	45	33	31	67	25
9	34	28	29	16	9.8	25	13	38	31	28	38	26
10	37	58	105	14	17	24	13	34	29	27	34	37
11	27	38	59	9.8	52	23	18	39	29	204	31	29
12	26	30	35	11	68	23	14	39	28	329	29	28
13	27	29	30	10	220	22	12	34	28	320	472	27
14	29	31	98	28	109	21	11	38	28	100	73	26
15	26	29	85	27	95	20	17	42	30	56	47	26
16	25	28	51	19	185	18	198	38	29	55	38	28
17	27	27	32	15	231	18	41	57	29	46	33	29
18	71	27	23	14	228	20	25	75	27	38	31	31
19	39	27	17	13	170	84	18	115	30	33	29	27
20	39	27	11	12	59	79	15	405	71	31	29	32
21	33	31	11	12	60	66	41	74	51	32	27	29
22	29	28	10	12	238	45	214	38	52	29	27	27
23	29	27	11	12	62	30	81	29	34	29	27	29
24	29	27	10	11	44	25	43	24	32	29	27	27
25	27	26	9.1	11	38	22	505	23	47	27	27	27
26	26	26	11	44	30	20	361	27	33	27	27	46
27	26	27	11	93	27	30	111	33	34	27	27	47
28	25	26	10	58	22	31	60	32	29	27	31	31
29	25	26	10	47	20	20	38	30	28	63	34	28
30	25	27	18	36	---	17	36	29	61	40	27	26
31	25	---	50	34	---	73	---	33	---	74	27	---
TOTAL	915	871	1022.1	739.8	2135.8	2081	2264	1667	1070	1952	1545	875
MEAN	29.5	29.0	33.0	23.9	73.6	67.1	75.5	53.8	35.7	63.0	49.8	29.2
MAX	71	58	105	93	238	587	505	405	71	329	472	47
MIN	24	25	9.1	9.8	9.8	17	11	23	27	27	27	25
CAL YR 1975	TOTAL	11478.8	MEAN	31.4	MAX	399	MIN	3.6				
WTR YR 1976	TOTAL	17137.7	MEAN	46.8	MAX	587	MIN	9.1				

STREAMS TRIBUTARY TO LAKE ONTARIO

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04232100 STERLING CREEK AT STERLING, NY

LOCATION.--Lat 43°19'31", long 76°38'51", Cayuga County, Hydrologic Unit 04140101, on right bank at Sterling, 25 ft (8 m) downstream from bridge on State Highway 104A, 1.8 mi (2.9 km) southwest of Sterling Valley, and 1.9 mi (3.1 km) upstream from Sterling Valley Creek.

DRAINAGE AREA.--44.4 mi² (115 km²).

PERIOD OF RECORD.--April 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 264.69 ft (80.677 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--19 years, 65.1 ft³/s (1.844 m³/s), 19.91 in/yr (506 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,490 ft³/s (42.2 m³/s) Apr. 4, 1960, gage height, 5.13 ft (1.564 m); minimum, 0.32 ft³/s (0.009 m³/s) Sept. 14, 1966, gage height, 1.50 ft (0.457 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 630 ft³/s (17.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 19	2030	978 27.7	4.46 1.359	Apr. 16	2400	*1,000 28.3	*4.51 1.375
Feb. 22	1230	747 21.2	4.12 1.256	May 20	2100	971 27.5	4.46 1.359
Mar. 5	2000	813 23.0	4.22 1.286	June 22	0100	653 18.5	3.96 1.207

Minimum discharge, 8.4 ft³/s (0.24 m³/s) Sept. 10, gage height, 1.78 ft (0.543 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	24	62	110	52	149	365	160	63	98	37	14
2	93	25	63	147	52	137	298	133	62	98	32	15
3	51	26	60	88	52	163	230	140	59	80	28	15
4	34	34	56	77	50	325	168	122	52	66	24	14
5	38	37	53	74	50	654	93	100	44	57	21	13
6	33	33	140	70	50	528	87	85	39	48	21	12
7	28	32	225	66	50	336	75	87	41	30	21	12
8	25	30	145	64	50	209	65	87	41	31	42	10
9	23	30	119	60	48	139	59	78	39	90	41	9.6
10	21	66	373	56	50	124	53	68	35	63	36	12
11	21	138	308	52	100	117	53	65	30	46	31	14
12	24	119	238	50	120	100	53	87	27	55	26	15
13	23	195	183	47	150	118	51	83	24	150	41	14
14	28	145	152	46	198	126	48	76	33	192	59	12
15	25	126	148	45	193	123	46	106	247	124	59	12
16	24	106	120	44	311	90	636	122	382	152	47	13
17	22	87	100	43	488	74	834	165	275	244	35	12
18	42	63	80	43	633	72	470	231	212	222	28	12
19	47	51	70	44	862	85	228	257	115	108	24	14
20	51	57	60	44	762	168	133	834	365	110	21	14
21	50	59	56	44	499	255	89	747	413	81	19	14
22	52	59	54	44	661	260	62	451	618	41	17	15
23	48	55	52	44	500	207	94	238	490	37	15	14
24	44	49	52	44	419	162	102	145	320	37	14	13
25	39	47	50	45	302	119	178	117	231	32	12	13
26	36	43	48	60	282	88	400	94	189	27	11	14
27	32	48	46	100	272	98	456	98	140	24	11	27
28	29	57	46	80	229	97	404	94	74	22	18	29
29	26	55	46	70	178	89	301	80	70	23	30	25
30	25	52	60	58	---	80	228	68	60	41	22	24
31	24	---	80	54	---	83	---	66	---	42	15	---
TOTAL	1164	1948	3345	1913	7663	5375	6359	5284	4790	2471	858	446.6
MEAN	37.5	64.9	108	61.7	264	173	212	170	160	79.7	27.7	14.9
MAX	106	195	373	147	862	654	834	834	618	244	59	29
MIN	21	24	46	43	48	72	46	65	24	22	11	9.6
CFSM	.84	1.46	2.43	1.39	5.95	3.90	4.77	3.83	3.60	1.80	.62	.34
IN.	.98	1.63	2.80	1.60	6.42	4.50	5.33	4.43	4.01	2.07	.72	.37

CAL YR 1975 TOTAL 27141.6 MEAN 74.4 MAX 971 MIN 3.0 CFSM 1.68 IN 22.74
WTR YR 1976 TOTAL 41616.6 MEAN 114 MAX 862 MIN 9.6 CFSM 2.57 IN 34.87

STREAMS TRIBUTARY TO LAKE ONTARIO

04232200 CATHARINE CREEK AT MONTOUR FALLS, NY

LOCATION.--Lat 42°19'42", long 76°50'39", Schuyler County, Hydrologic Unit 04140201, on left bank 12 ft (3.7 m) downstream from bridge on town road, 0.4 mi (0.6 km) south of Montour Falls village line and 0.6 mi (1.0 km) upstream from diversion channel. Water-quality sampling site at discharge station.

DRAINAGE AREA.--38.6 mi² (100 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water years, 1955-62, 1964-66. August 1975 to current year (no winter records).

GAGE.--Water-stage recorder. Altitude of gage is 470 ft (143.3 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR CURRENT PERIOD.--August to September 1975: Maximum discharge during period, 1,680 ft³/s (47.6 m³/s)

Sept. 26, gage height, 6.40 ft (1.951 m); minimum daily, 7.3 ft³/s (0.21 m³/s) Aug. 5, 15, 23.

Water year 1976: Maximum daily discharge, 780 ft³/s (22.1 m³/s) June 20; maximum observed gage height, 7.52 ft (2.292 m) Dec. 19, (result of ice jam); minimum discharge, 11 ft³/s (0.31 m³/s) July 29, Sept. 8, gage height, 1.93 ft (0.588 m).

DISCHARGE IN CUBIC FEET PER SECOND, AUGUST AND SEPTEMBER 1975
MEAN VALUES

AUGUST				SEPTEMBER			
DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S
1	8.9	11	8.2	21	7.9	1	14
2	8.6	12	8.2	22	7.9	2	14
3	7.9	13	7.9	23	7.3	3	14
4	7.9	14	7.6	24	13	4	12
5	7.3	15	7.3	25	11	5	11
6	8.6	16	12	26	9.2	6	12
7	8.6	17	11	27	9.2	7	9.9
8	7.9	18	9.9	28	8.6	8	8.9
9	7.6	19	9.2	29	8.6	9	9.2
10	7.9	20	8.6	30	18	10	8.6
				31	15		
TOTAL			286.8	TOTAL			1,924.2
MEAN			9.25	MEAN			64.1
MAX			18	MAX			791
MIN			7.3	MIN			8.6
CFSM			.24	CFSM			1.66
IN.			.28	IN.			1.85

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	22				94	148	44	54	38	35	14
2	76	22				96	108	64	51	31	23	22
3	64	21				265	83	51	39	32	20	17
4	52	21				235	65	43	33	74	17	15
5	41	20				199	50	39	30	61	16	14
6	35	19				143	43	35	28	45	15	13
7	30	19				109	39	34	39	35	43	13
8	28	22				86	36	32	29	33	250	12
9	27	20				64	33	31	26	30	142	13
10	29	24				66	28	29	25	25	101	18
11	27	25				61	27	45	23	26	74	16
12	27	24				52	27	74	20	30	57	17
13	26	45				54	24	60	19	60	49	15
14	25	47				47	20	45	19	67	53	14
15	23	40				45	20	38	91	48	49	14
16	24	35				41	20	39	46	41	48	14
17	24	32				41	20	60	51	34	38	18
18	96	30				38	18	74	34	27	33	20
19	84	29				51	17	74	215	23	29	20
20	74	27				58	17	151	780	20	26	18
21	62	28				58	17	99	280	28	23	20
22	52	27				53	17	72	154	21	20	18
23	43	25				46	17	57	106	18	18	16
24	37	23				43	17	47	79	18	17	14
25	35	22				41	53	45	71	15	16	13
26	32	22				39	96	75	53	14	21	14
27	30	27				40	78	56	67	13	25	28
28	28	30				44	65	44	42	13	20	23
29	26	27				37	56	38	46	23	18	20
30	24	27				35	47	40	48	37	16	18
31	23	---				38	---	44	---	25	14	---
TOTAL	1259	802				2319	1306	1679	2598	1005	1326	501
MEAN	40.6	26.7				74.8	43.5	54.2	86.6	32.4	42.8	16.7
MAX	96	47				265	148	151	780	74	250	28
MIN	23	19				35	17	29	19	13	14	12
CFSM	1.05	.69				1.94	1.13	1.40	2.24	.84	1.11	.43
IN.	1.21	.77				2.23	1.26	1.62	2.50	.97	1.28	.48

STREAMS TRIBUTARY TO LAKE ONTARIO

04232200 CATHARINE CREEK AT MONTOUR FALLS, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to October 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
OCT 08...	1400	27	560	7.8	14.0	2	8.3	80	210	30
DATE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT 08...	60	14	22	1.9	216	0	177	30	39	307
DATE	TOTAL NON-FILTERABLE RESIDUE (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
OCT 08...	8	.63	.02	.65	.00	.21	.21	.86	.03	.02

STREAMS TRIBUTARY TO LAKE ONTARIO

04232400 SENECA LAKE AT WATKINS GLEN, NY

LOCATION.--Lat 42°23'00", long 76°52'05", Schuyler County, Hydrologic Unit 04140201, on east bank about 300 ft (91 m) from lake on shorter of two boat slips at Watkins Glen.

DRAINAGE AREA.--704 mi² (1,823 km²).

PERIOD OF RECORD.--October 1956 to current year.

REVISED RECORDS.--WRD N.Y. 1970: Drainage area.

GAGE.--Water-stage recorder. Datum of gage (revised) is at mean sea level (1.59 ft or 0.485 m, Barge Canal datum). Prior to Oct. 1, 1975, at datum 438.41 ft (133.627 m) higher.

REMARKS.--Area of water surface, 67.6 mi² (175 km²). Diversion from Susquehanna River basin enters lake through Keuka Lake Outlet at Dresden. For table of diversion, see station 01528700. Lake regulated by taintor gates on Seneca River at lock 4, Waterloo, for operation of Erie (Barge) Canal and power generation by New York State Electric & Gas Corp.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 448.88 ft (136.819 m) June 25, 1972; minimum daily, 442.89 ft (134.993 m) Jan. 5, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 447.08 ft (136.270 m) Mar. 5; minimum, 443.73 ft (135.249 m) Jan. 19.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	445.90	444.69	444.26	444.78	444.54	446.41	445.42	445.63	445.60	445.61	445.35	444.95
2	445.92	444.69	444.27	444.68	444.62	446.44	445.42	445.62	445.66	445.55	445.35	445.02
3	445.84	444.69	444.30	444.63	444.60	446.67	445.41	445.61	445.65	445.53	445.24	444.89
4	445.75	444.62	444.30	444.50	444.65	446.96	445.38	445.57	445.63	445.53	445.16	444.79
5	445.74	444.58	444.25	444.54	444.70	447.01	445.31	445.49	445.58	445.46	445.08	444.92
6	445.65	444.54	444.31	444.64	444.73	447.02	445.26	445.50	445.52	445.35	445.06	444.88
7	445.65	444.46	444.36	444.38	444.73	446.97	445.21	445.49	445.55	445.30	445.07	444.79
8	445.56	444.43	444.35	444.38	444.75	446.92	445.14	445.44	445.52	445.29	445.08	444.80
9	445.48	444.43	444.39	444.25	444.80	446.84	445.08	445.38	445.49	445.28	445.14	444.74
10	445.43	444.39	444.49	444.18	444.77	446.76	445.07	445.34	445.44	445.26	445.12	444.71
11	445.35	444.36	444.54	444.15	444.86	446.73	445.12	445.32	445.41	445.25	445.02	444.71
12	445.38	444.34	444.58	444.15	444.93	446.60	445.11	445.33	445.42	445.36	444.95	444.66
13	445.29	444.36	444.58	444.08	445.02	446.57	445.09	445.27	445.34	445.42	444.97	444.68
14	445.22	444.38	444.61	444.08	445.14	446.49	445.11	445.23	445.28	445.42	445.01	444.65
15	445.19	444.30	444.70	444.04	445.14	446.43	445.12	445.28	445.31	445.35	445.14	444.66
16	445.15	444.22	444.79	443.96	445.32	446.38	445.21	445.31	445.34	445.32	445.19	444.69
17	445.13	444.14	444.80	443.97	445.77	446.31	445.27	445.39	445.45	445.32	445.18	444.70
18	445.26	444.15	444.85	443.89	446.13	446.19	445.31	445.48	445.45	445.26	445.15	444.68
19	445.25	444.10	444.84	443.79	446.43	446.11	445.33	445.52	445.46	445.18	445.15	444.69
20	445.22	444.07	444.87	443.76	446.52	446.07	445.34	445.70	445.69	445.13	445.12	444.64
21	445.22	444.10	444.92	443.76	446.50	446.06	445.34	445.77	445.85	445.14	445.14	444.68
22	445.21	444.15	444.93	443.80	446.58	446.03	445.35	445.76	445.94	445.16	445.15	444.65
23	445.16	444.15	444.93	443.77	446.61	445.93	445.34	445.73	445.91	445.05	445.15	444.55
24	445.10	444.15	444.89	443.80	446.55	445.86	445.30	445.70	445.86	445.08	445.18	444.60
25	445.10	444.16	444.87	443.80	446.52	445.80	445.40	445.65	445.86	445.13	445.10	444.57
26	445.13	444.18	444.97	443.81	446.50	445.74	445.62	445.65	445.84	445.01	445.10	444.51
27	445.06	444.20	444.96	444.11	446.49	445.64	445.69	445.64	445.81	444.99	445.10	444.63
28	444.98	444.21	444.90	444.29	446.45	445.62	445.69	445.60	445.75	445.06	445.06	444.61
29	445.01	444.22	444.84	444.37	446.37	445.53	445.68	445.56	445.68	445.06	445.13	444.49
30	444.98	444.17	444.77	444.47	---	445.44	445.66	445.54	445.66	445.19	445.13	444.45
31	444.85	---	444.80	444.50	---	445.37	---	445.54	---	445.24	445.00	---
MEAN	445.33	444.32	444.65	444.17	445.54	446.29	445.33	445.52	445.60	445.27	445.12	444.70
MAX	445.92	444.69	444.97	444.78	446.61	447.02	445.69	445.77	445.94	445.61	445.35	445.02
MIN	444.85	444.07	444.25	443.76	444.54	445.37	445.07	445.23	445.28	444.99	444.95	444.45
WTR YR 1976	MEAN 445.15		MAX 447.02		MIN 443.76							
CAL YR 1975	MEAN 444.94		MAX 446.06		MIN 443.90							

STREAMS TRIBUTARY TO LAKE ONTARIO

401

04232450 KEUKA LAKE AT HAMMONDSPORT, NY

LOCATION.--Lat 42°24'22", long 77°13'08", Steuben County, Hydrologic Unit 04140201, on left bank of Keuka Inlet at end of Liberty Street extension at Hammondsport, and 300 ft (91 m) upstream from mouth.

DRAINAGE AREA.--182 mi² (471 km²).

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WRD N.Y. 1968: Drainage area. WRD N.Y. 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage (revised) is at mean sea level.

REMARKS.--Lake regulated by village of Penn Yan; prior to July 1962, by New York State Electric and Gas Corp. Area of water surface, 18.3 mi² (47.4 km²). During each year, a large part of flow from 45.5 mi² (118 km²) of drainage area of Mud Creek (Susquehanna River basin) is diverted into Keuka Lake for power development. For table of diversion, see station 01528700.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 719.35 ft (219.258 m) June 24, 1972; minimum daily, 711.40 ft (216.835 m) Feb. 2, 3, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 716.33 ft (218.337 m) Mar. 5; minimum, 712.61 ft (217.204 m) Jan. 26.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	715.24	714.09	713.25	713.30	713.25	715.42	715.28	714.59	714.99	714.41	714.13	713.81
2	715.21	714.07	713.22	713.25	713.25	715.48	715.27	714.58	715.04	714.37	714.15	713.87
3	715.11	714.04	713.19	713.25	713.25	715.77	715.23	714.55	715.03	714.34	714.13	713.76
4	715.06	714.01	713.18	713.23	713.23	716.11	715.19	714.52	715.01	714.32	714.13	713.66
5	714.99	713.99	713.14	713.22	713.24	716.23	715.12	714.47	714.96	714.27	714.13	713.73
6	714.92	713.96	713.15	713.17	713.24	716.25	715.06	714.46	714.90	714.22	714.16	713.69
7	714.89	713.92	713.15	713.16	713.21	716.21	715.00	714.44	714.95	714.18	714.21	713.63
8	714.84	713.88	713.12	713.17	713.18	716.18	714.94	714.40	714.90	714.16	714.24	713.62
9	714.81	713.83	713.14	713.12	713.18	716.11	714.88	714.36	714.85	714.19	714.25	713.62
10	714.76	713.81	713.19	713.10	713.15	716.05	714.80	714.33	714.80	714.12	714.23	713.61
11	714.70	713.81	713.21	713.09	713.20	716.01	714.75	714.31	714.76	714.10	714.20	713.57
12	714.65	713.80	713.23	713.08	713.27	715.93	714.69	714.32	714.76	714.10	714.19	713.57
13	714.58	713.80	713.21	713.05	713.31	715.89	714.62	714.30	714.66	714.08	714.19	713.54
14	714.54	713.79	713.25	713.04	713.37	715.84	714.57	714.28	714.60	714.07	714.20	713.56
15	714.47	713.74	713.33	713.03	713.37	715.79	714.52	714.27	714.58	714.04	714.22	713.56
16	714.46	713.70	713.39	713.00	713.52	715.75	714.50	714.27	714.56	714.02	714.26	713.56
17	714.42	713.67	713.38	712.99	714.12	715.69	714.47	714.37	714.59	713.99	714.22	713.59
18	714.60	713.63	713.38	712.94	714.56	715.62	714.43	714.46	714.54	713.95	714.22	713.61
19	714.61	713.60	713.37	712.88	714.94	715.57	714.38	714.54	714.49	713.93	714.18	713.62
20	714.60	713.57	713.37	712.87	715.08	715.57	714.33	714.78	714.57	713.91	714.15	713.62
21	714.57	713.51	713.37	712.85	715.12	715.56	714.29	714.88	714.60	713.93	714.15	713.64
22	714.57	713.49	713.33	712.84	715.26	715.56	714.25	714.89	714.63	713.94	714.14	713.63
23	714.52	713.47	713.32	712.79	715.34	715.49	714.23	714.88	714.60	713.92	714.10	713.61
24	714.48	713.44	713.29	712.78	715.33	715.44	714.20	714.87	714.57	713.92	714.08	713.60
25	714.44	713.41	713.26	712.77	715.33	715.40	714.32	714.85	714.56	713.91	714.02	713.61
26	714.42	713.38	713.31	712.78	715.34	715.36	714.54	714.90	714.53	713.85	713.99	713.60
27	714.37	713.36	713.31	713.04	715.37	715.32	714.60	714.94	714.55	713.84	714.00	713.66
28	714.33	713.33	713.29	713.17	715.37	715.32	714.62	714.92	714.51	713.84	713.96	713.69
29	714.29	713.31	713.28	713.21	715.36	715.31	714.63	714.88	714.48	713.87	713.96	713.66
30	714.26	713.25	713.27	713.25	---	715.26	714.61	714.87	714.45	713.96	713.92	713.64
31	714.18	---	713.30	713.24	---	715.23	---	714.89	---	713.97	713.84	---
MEAN	714.64	713.69	713.26	713.05	714.09	715.70	714.68	714.59	714.70	714.06	714.13	713.64
MAX	715.24	714.09	713.39	713.30	715.37	716.25	715.28	714.94	715.04	714.41	714.26	713.87
MIN	714.18	713.25	713.12	712.77	713.15	715.23	714.20	714.27	714.45	713.84	713.84	713.54

WTR YR 1976 MEAN 714.19 MAX 716.25 MIN 712.77
CAL YR 1975 MEAN 713.88 MAX 715.40 MIN 712.70

STREAMS TRIBUTARY TO LAKE ONTARIO

403

04233000 CAYUGA INLET NEAR ITHACA, NY

LOCATION.--Lat 42°23'35", long 76°32'43", Tompkins County, Hydrologic Unit 04140201, on left bank 0.8 mi (1.3 km) upstream from Enfield (formerly Butternut) Creek, and 5 mi (8 km) south of Ithaca.

DRAINAGE AREA.--35.2 mi² (91.2 km²).

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WRD NY 1968: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 437.16 ft (133.246 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--39 years, 38.3 ft³/s (1.085 m³/s), 14.78 in/yr (375 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft³/s (136 m³/s) June 23, 1972, gage height, 8.10 ft (2.469 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s) on basis of slope-area measurements at gage heights 5.5 ft (1.68 m) and 7.58 ft (2.310 m); minimum, 1.7 ft³/s (0.048 m³/s) July 22, 1955; minimum gage height, 0.42 ft (0.128 m) Aug. 30, 31, Sept. 1, 2, 1939, July 22, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 700 ft³/s (19.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 17	0430	*†680 19.3	*‡3.21 0.978

† About.

‡ Ice jam.

Minimum daily discharge, 5.8 ft³/s (0.16 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	27	41	39	33	146	132	59	64	45	40	8.4
2	138	26	34	33	17	130	85	84	55	33	21	16
3	69	26	32	31	14	279	74	60	38	29	17	8.2
4	53	25	29	28	15	206	65	53	33	40	14	7.8
5	45	24	28	24	17	168	58	48	30	34	13	7.8
6	40	22	33	23	14	130	53	45	30	26	12	8.6
7	35	22	32	22	12	105	49	46	43	29	40	7.2
8	32	24	26	22	10	90	46	41	29	49	48	6.8
9	31	22	34	19	8.0	72	43	37	37	33	28	5.8
10	31	26	80	22	6.0	76	39	35	36	25	25	23
11	29	24	51	24	14	70	39	77	28	38	20	20
12	31	26	44	25	15	60	37	90	24	40	16	17
13	28	54	41	28	19	66	35	55	22	56	14	13
14	26	41	42	31	20	59	33	49	20	55	18	10
15	24	36	44	31	17	55	32	46	19	36	20	9.6
16	26	34	49	30	74	53	38	46	23	33	23	9.6
17	25	31	39	22	480	52	34	47	31	31	17	22
18	154	29	31	19	425	50	30	56	21	25	13	13
19	90	28	28	23	415	60	28	78	24	22	12	12
20	89	28	23	25	242	69	26	293	106	19	11	11
21	73	35	24	28	188	69	25	126	75	24	9.8	13
22	59	33	24	22	300	63	30	90	49	20	9.0	11
23	50	28	23	21	173	55	28	77	37	17	8.4	11
24	45	27	21	20	144	53	27	66	32	18	8.0	11
25	42	26	20	23	132	50	107	60	32	16	7.6	10
26	42	25	28	27	132	47	126	58	26	15	13	13
27	37	38	41	220	137	48	87	51	46	14	12	24
28	34	36	40	110	109	55	77	44	30	16	8.2	19
29	32	30	38	100	100	45	71	40	40	24	7.4	16
30	30	33	35	74	---	43	59	41	51	27	7.0	12
31	28	---	42	52	---	44	---	43	---	21	6.6	---
TOTAL	1517	886	1097	1218	3282.0	2568	1613	2041	1131	910	519.0	376.8
MEAN	48.9	29.5	35.4	39.3	113	82.8	53.8	65.8	37.7	29.4	16.7	12.6
MAX	154	54	80	220	480	279	132	293	106	56	48	24
MIN	24	22	20	19	6.0	43	25	35	19	14	6.6	5.8
CFSM	1.39	.84	1.01	1.12	3.21	2.35	1.53	1.87	1.07	.84	.47	.36
IN.	1.60	.94	1.16	1.29	3.47	2.71	1.70	2.16	1.20	.96	.55	.40

CAL YR 1975 TOTAL 15694.9 MEAN 43.0 MAX 787 MIN 5.5 CFSM 1.22 IN 16.59
WTR YR 1976 TOTAL 17158.8 MEAN 46.9 MAX 480 MIN 5.8 CFSM 1.33 IN 18.13

STREAMS TRIBUTARY TO LAKE ONTARIO
04233700 VIRGIL CREEK AT FREEVILLE, NY

405

LOCATION.--Lat 42°30'18", long 76°21'01", Tompkins County, Hydrologic Unit 04140201, on left bank 10 ft (3 m) upstream from bridge on Johnson Street in Freeville, and 0.8 mi (1.3 km) upstream from mouth.

DRAINAGE AREA.--40.3 mi² (104 km²).

PERIOD OF RECORD.--August 1973 to October 1975 (discontinued as a continuous-record station; converted to a crest-stage partial-record station). Occasional low-flow measurements, water years 1955-63, 1966.

GAGE.--Water-stage recorder. Datum of gage is 1,015.99 ft (309.674 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft³/s (76.5 m³/s) revised, Sept. 26, 1975, gage height, 20.20 ft (6.157 m); minimum 5.6 ft³/s (0.16 m³/s) Sept. 4, 5, 1973; minimum gage height, 9.97 ft (3.039 m) Oct. 1, 2, 1973 and Aug. 28, 1975.

EXTREMES FOR CURRENT PERIOD.--Peak discharge above base of 600 ft³/s (17.0 m³/s) and maximum for October 1975, 660 ft³/s (18.7 m³/s) revised, Oct. 18, gage height, 14.25 ft (4.343 m); minimum 29 ft³/s (0.82 m³/s) Oct. 11, gage height, 10.31 ft (3.142 m).

REVISIONS.--The peak discharges and annual maximum (*) for the 1975 water year have been revised as shown in the following table. They supersede figures published in WRD NY 1975.

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 8	1600	676 19.1	15.28 4.657	May 6	2200	676 19.1	14.33 4.368
Jan. 11	1730	820 23.2	15.98 4.871	Sep. 26	1400	*2,700 76.5	*20.20 6.157
Feb. 24	1745	1,140 32.3	17.16 5.230				

Revised discharges, in cubic feet per second, for the months of September and October, 1975 superseding figures published in WRD NY 1975, are given in the following table.

DISCHARGE, IN CUBIC FEET PER SECOND, SEPTEMBER AND OCTOBER 1975
MEAN VALUES

September						October					
DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S	DAY	FT ³ /S
1	12	11	10	21	16	1	62	11	30	21	128
2	11	12	73	22	13	2	164	12	35	22	93
3	11	13	43	23	14	3	93	13	32	23	73
4	10	14	21	24	24	4	65	14	50	24	61
5	9.5	15	15	25	406	5	53	15	45	25	56
6	12	16	12	26	1,520	6	48	16	67	26	50
7	10	17	12	27	550	7	40	17	58	27	46
8	9.5	18	13	28	179	8	36	18	388	28	41
9	14	19	18	29	107	9	33	19	170	29	39
10	11	20	16	30	76	10	32	20	198	30	36
										31	33
TOTAL				3,248		TOTAL				2,355	
MEAN				108		MEAN				76.0	
MAX				1,520		MAX				388	
MIN				9.5		MIN				30	
CFSM				2.68		CFSM				1.89	
IN.				2.99		IN.				2.17	

WTR YR 1975 TOTAL 23,657.0 MEAN 64.8 MAX 1,520 MIN 7.5 CFSM 1.61 IN. 21.83

STREAMS TRIBUTARY TO LAKE ONTARIO

04234000 FALL CREEK NEAR ITHACA, NY

LOCATION.--Lat 42°27'12", long 76°28'23", Tompkins County, Hydrologic Unit 04140201, on left bank in Forest Home, 0.2 mi (0.3 km) east of Ithaca, 0.5 mi (0.8 km) upstream from Cornell University dam, and 2.2 mi (3.5 km) upstream from mouth.

DRAINAGE AREA.--126 mi² (326 km²).

PERIOD OF RECORD.--July 1908 to June 1909 (gage heights only). February 1925 to current year.

REVISED RECORDS.--WSP 874: 1935-38. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 795.13 ft (242.356 m) above mean sea level. July 1908 to June 1909, nonrecording gage at bridge 1.2 mi (1.9 km) downstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. Diversion from point about 1 mi (2 km) upstream from station by Cornell University for water supply and at several sites for irrigation purposes. Records of diversion from Fall Creek are in files of Cornell University.

AVERAGE DISCHARGE.--51 years (1925-76), 184 ft³/s (5.211 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s (439 m³/s) July 8, 1935, gage height, 9.52 ft (2.902 m), from average of computed flow over each of four dams; maximum gage height 11.16 ft (3.402 m) Feb. 21, 1971 (ice jam); minimum discharge, about 3 ft³/s (0.085 m³/s) Aug. 25, 1927, result of regulation; minimum daily, 3.6 ft³/s (0.10 m³/s) Aug. 17, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (53.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	1115	ice jam	*5.61 1.710	Mar. 3	2100	1,940 54.9	3.70 1.128
Feb. 17	1700	†2,200 62.3	†4.42 1.347	May 19	1530	1,950 55.2	3.71 1.131
Feb. 22	1700	1,900 53.8	3.67 1.119	July 11	2000	*2,750 77.9	4.29 1.308

† About.

‡ Ice jam.

Minimum discharge, 37 ft³/s (1.05 m³/s) Sept. 10, gage height, 0.64 ft (0.195 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	118	265	140	250	1100	520	301	246	577	236	53
2	432	114	231	100	190	854	454	443	301	235	186	139
3	348	118	182	80	150	1700	289	351	179	191	120	73
4	239	159	150	84	170	1290	246	297	140	191	98	53
5	200	153	140	80	160	936	207	246	118	265	88	53
6	178	121	224	74	130	783	188	204	114	142	85	56
7	157	112	330	76	120	545	173	214	231	121	157	45
8	144	116	160	84	120	400	159	214	159	277	294	40
9	134	116	180	74	120	300	150	179	114	323	180	38
10	129	114	674	68	120	300	142	161	101	182	136	168
11	125	150	380	78	180	310	135	265	95	625	117	163
12	129	128	269	88	250	240	123	449	90	1160	97	126
13	127	460	231	94	230	250	285	228	81	1180	89	85
14	172	301	242	160	250	253	197	182	76	928	129	62
15	147	235	265	180	210	250	145	167	85	466	147	54
16	208	231	337	180	346	220	123	156	85	328	204	54
17	163	204	231	80	1600	170	150	145	156	427	118	102
18	809	182	180	50	1600	160	416	197	114	253	92	132
19	469	167	88	50	1840	231	709	1190	85	197	80	92
20	472	156	70	80	1070	365	611	674	427	170	71	70
21	416	217	80	100	667	395	346	351	432	173	66	77
22	277	305	90	98	1400	443	416	277	228	167	60	68
23	224	197	80	70	938	269	156	269	182	134	56	56
24	194	167	60	70	653	257	132	231	150	132	52	54
25	179	156	52	90	632	228	501	207	153	115	48	50
26	170	148	68	140	639	214	862	361	137	102	46	50
27	153	194	210	760	846	197	591	293	125	97	56	131
28	142	242	170	660	695	253	591	176	103	116	53	133
29	137	176	100	450	501	210	597	140	130	104	58	87
30	133	191	120	330	---	188	390	121	328	174	54	71
31	123	---	140	250	---	170	---	121	---	134	42	---
TOTAL	7172	5448	5999	4918	16077	13481	10004	8810	4965	9686	3315	2435
MEAN	231	182	194	159	554	435	333	284	166	312	107	81.2
MAX	809	460	674	760	1840	1700	862	1190	432	1180	294	168
MIN	123	112	52	50	120	160	123	121	76	97	42	38
CFSM	1.83	1.44	1.54	1.26	4.40	3.45	2.64	2.25	1.32	2.48	.85	.64
IN.	2.12	1.61	1.77	1.45	4.75	3.98	2.95	2.60	1.47	2.86	.98	.72

CAL YR 1975	TOTAL	80333	MEAN	220	MAX	3580	MIN	20	CFSM	1.75	IN	23.72
WTR YR 1976	TOTAL	92310	MEAN	252	MAX	1840	MIN	38	CFSM	2.00	IN	27.25

STREAMS TRIBUTARY TO LAKE ONTARIO

407

04234500 CANANDAIGUA LAKE AT CANANDAIGUA, NY

LOCATION.--Lat 42°52'19", long 77°16'22", Ontario County, Hydrologic Unit 04140201, at south end of city pier at northern end of Canandaigua Lake, 1 mi (2 km) southeast of Canandaigua.

DRAINAGE AREA.--184 mi² (477 km²).

PERIOD OF RECORD.--November 1939 to current year. December 1927 to November 1939, records for site on west side of E. T. Waldorf's boathouse collected by, and in files of, city of Canandaigua.

REVISED RECORDS.--WRD NY 1967: Drainage area. WRD NY 1971: 1970.

GAGE.--Water-stage recorder. Datum of gage (revised) is at mean sea level. June 26, 1946 to Sept. 30, 1975, at datum 681.17 ft (207.621 m) higher, and prior to June 26, 1946, nonrecording gage at E. T. Waldorf's boathouse at same datum.

REMARKS.--Lake elevation regulated by one gate on West outlet, which is a 1.5 mi-(2.4 km-) long canal, and by two gates on East outlet, which is the natural outlet. Sill elevations of West and East outflow structures are 684.37 ft (208.596 m) and 684.94 ft (208.770 m), respectively. Water diverted for municipal supply for villages of Newark, Palmyra, and Gorham. Records of diversion in files of city of Canandaigua. Area of water surface, 16.6 mi² (43.0 km²), corrected.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 692.11 ft (210.955 m) June 24, 1972; minimum daily, 685.62 ft (208.977 m) Jan. 30, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 690.57 ft (210.486 m) Mar. 5; minimum, 687.16 ft (209.446 m) Nov. 30.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	688.64	687.73	687.25	687.90	687.93	689.46	688.93	688.76	688.63	688.49	688.67	688.14
2	688.58	687.68	687.25	687.90	687.99	689.51	688.92	688.74	688.64	688.42	688.73	688.10
3	688.56	687.68	687.24	687.87	687.95	689.80	688.88	688.70	688.63	688.38	688.70	688.11
4	688.48	687.69	687.23	687.83	687.92	690.29	688.83	688.64	688.59	688.34	688.65	688.11
5	688.43	687.67	687.26	687.79	687.87	690.53	688.79	688.62	688.54	688.34	688.60	688.06
6	688.36	687.66	687.23	687.78	687.85	690.51	688.73	688.53	688.50	688.34	688.53	688.03
7	688.26	687.67	687.24	687.74	687.82	690.46	688.66	688.50	688.56	688.34	688.48	688.03
8	688.20	687.64	687.25	687.68	687.78	690.37	688.61	688.47	688.56	688.33	688.50	688.00
9	688.17	687.59	687.27	687.66	687.74	690.30	688.56	688.44	688.55	688.34	688.50	688.01
10	688.15	687.61	687.37	687.62	687.70	690.21	688.55	688.39	688.57	688.35	688.46	688.04
11	688.10	687.57	687.41	687.59	687.76	690.12	688.52	688.38	688.55	688.36	688.42	688.04
12	688.03	687.57	687.43	687.55	687.84	690.12	688.52	688.46	688.46	688.36	688.36	688.02
13	687.99	687.52	687.50	687.55	687.90	689.97	688.52	688.42	688.48	688.37	688.32	688.01
14	687.93	687.47	687.60	687.53	687.98	689.87	688.51	688.45	688.42	688.40	688.33	688.00
15	687.92	687.47	687.66	687.51	688.02	689.77	688.51	688.44	688.41	688.40	688.43	688.00
16	687.86	687.44	687.74	687.52	688.13	689.70	688.53	688.47	688.45	688.41	688.51	687.99
17	687.80	687.41	687.82	687.44	688.52	689.64	688.54	688.50	688.46	688.42	688.51	688.00
18	687.89	687.39	687.84	687.43	688.90	689.56	688.54	688.48	688.48	688.41	688.43	688.04
19	687.98	687.36	687.85	687.40	689.29	689.51	688.53	688.51	688.50	688.40	688.36	688.03
20	688.02	687.34	687.87	687.36	689.40	689.51	688.49	688.81	688.55	688.38	688.31	688.04
21	688.02	687.32	687.88	687.32	689.44	689.49	688.47	688.90	688.57	688.37	688.28	688.01
22	687.98	687.28	687.89	687.30	689.58	689.44	688.48	688.89	688.56	688.36	688.26	688.01
23	687.97	687.26	687.90	687.27	689.67	689.39	688.44	688.86	688.53	688.37	688.24	688.01
24	687.96	687.23	687.90	687.26	689.66	689.34	688.41	688.81	688.51	688.34	688.22	687.95
25	687.91	687.21	687.92	687.27	689.63	689.27	688.49	688.77	688.51	688.31	688.21	687.95
26	687.84	687.21	687.94	687.31	689.59	689.21	688.70	688.78	688.45	688.31	688.21	687.94
27	687.81	687.25	687.96	687.51	689.56	689.19	688.81	688.78	688.43	688.30	688.21	687.95
28	687.78	687.23	687.97	687.69	689.52	689.11	688.83	688.75	688.43	688.27	688.22	687.96
29	687.74	687.24	687.98	687.78	689.49	689.04	688.82	688.70	688.43	688.28	688.19	687.97
30	687.71	687.33	687.98	687.84	---	689.01	688.79	688.65	688.44	688.40	688.14	687.94
31	687.72	---	687.93	687.89	---	688.94	---	688.64	---	688.39	688.14	---
MEAN	688.06	687.46	687.63	687.58	688.57	689.70	688.63	688.62	688.51	688.36	688.79	688.02
MAX	688.64	687.73	687.98	687.90	689.67	690.53	688.93	688.90	688.64	688.49	688.73	688.14
MIN	687.71	687.21	687.23	687.26	687.70	688.94	688.41	688.38	688.41	688.27	688.14	687.94
WTR YR 1976	MEAN 688.29		MAX 690.53		MIN 687.21							
CAL YR 1975	MEAN 688.11		MAX 689.14		MIN 687.21							

STREAMS TRIBUTARY TO LAKE ONTARIO

04235000 CANANDAIGUA OUTLET AT CHAPIN, NY

LOCATION.--Lat 42°55'05", long 77°13'59", Ontario County, Hydrologic Unit 04140201, on right bank at Chapin, 25 ft (8 m) upstream from bridge on State Highway 488, and 4.1 mi (6.6 km) downstream from Canandaigua Lake.

DRAINAGE AREA.--195 mi² (505 km²).

PERIOD OF RECORD.--November 1939 to current year. Prior to October 1964, published as "Canandaigua Lake Outlet."

REVISED RECORDS.--WRD NY 1967: 1966; drainage area.

GAGE.--Water-stage recorder. Datum of gage is 671.44 ft (204.655 m) above mean sea level. Prior to June 25, 1974, at site 0.1 mi (0.2 km) upstream at datum 676.90 ft (206.319 m) above mean sea level.

REMARKS.--Records fair. Flow regulated by Canandaigua Lake (see station 04234500), from which water is diverted for municipal supply by villages of Newark, Palmyra, and Gorham. Monthly runoff adjusted for change in contents in Canandaigua Lake from October 1945 to September 1966.

AVERAGE DISCHARGE.--36 years (1940-76), 151 ft³/s (4.276 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,710 ft³/s (48.4 m³/s) June 24, 1972, gage height, 5.62 ft (1.713 m) site and datum then in use; minimum, 4.6 ft³/s (0.13 m³/s) Sept. 17, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,090 ft³/s (30.9 m³/s) Mar. 4, gage height, 6.26 ft (1.908 m); minimum, 13 ft³/s (0.37 m³/s) Feb. 2, gage height, 2.88 ft (0.878 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	423	92	32	342	38	739	584	525	505	112	574	28
2	252	86	34	331	131	769	549	525	501	241	554	39
3	252	85	40	317	453	963	529	515	482	97	529	37
4	442	85	40	295	311	992	515	505	469	72	515	37
5	453	81	42	304	335	899	505	491	453	71	496	37
6	449	81	48	264	331	853	491	478	445	68	465	37
7	425	95	48	270	331	828	474	465	445	58	367	36
8	413	236	45	267	314	804	457	445	338	58	390	36
9	401	247	52	264	308	784	405	342	203	58	457	37
10	401	255	92	258	301	789	185	317	118	48	457	40
11	394	255	79	279	405	920	154	244	308	47	445	38
12	379	236	66	255	367	889	152	99	321	48	445	36
13	367	231	66	267	425	869	152	81	314	63	421	34
14	360	220	104	255	401	818	148	72	288	66	162	34
15	356	218	90	258	398	789	148	72	104	50	409	34
16	356	213	88	264	469	755	225	101	69	47	501	34
17	338	203	77	231	594	734	172	382	71	47	491	92
18	382	198	74	225	678	714	158	457	68	48	474	140
19	390	194	72	236	745	719	189	515	66	45	465	37
20	398	191	70	212	739	729	276	673	88	37	429	27
21	390	189	76	205	750	714	228	584	166	37	196	23
22	375	185	70	196	813	688	176	569	398	37	156	21
23	367	178	69	176	794	668	367	559	398	37	128	19
24	364	142	68	62	795	649	328	545	390	38	64	18
25	360	26	66	70	784	634	429	534	398	38	57	17
26	338	19	70	70	769	615	600	529	382	39	54	19
27	328	28	70	170	760	605	575	529	311	39	32	33
28	247	29	70	70	745	589	559	520	124	40	31	29
29	106	28	116	52	734	574	554	510	71	95	34	23
30	94	31	335	44	---	559	534	505	52	367	29	21
31	92	---	360	39	---	544	---	501	---	142	27	---
TOTAL	10692	4357	2629	6548	15018	23195	10818	13189	8346	2290	9854	1093
MEAN	345	145	84.8	211	518	748	361	425	278	73.9	318	36.4
MAX	453	255	360	342	813	992	600	673	505	367	574	140
MIN	92	19	32	39	38	544	148	72	52	37	27	17

CAL YR 1975 TOTAL 68905 MEAN 189 MAX 525 MIN 11
WTR YR 1976 TOTAL 108029 MEAN 295 MAX 992 MIN 17

STREAMS TRIBUTARY TO LAKE ONTARIO

409

04235150 FLINT CREEK AT POTTER, NY

LOCATION.--Lat 42°42'09", long 77°12'26", Yates County, Hydrologic Unit 04140201, on left bank 90 ft (27 m) upstream from bridge on State Highway 364 at Potter, 0.1 mi (0.2 km) downstream from unnamed tributary, and 0.5 mi (0.8 km) upstream from Nettle Valley Creek.

DRAINAGE AREA.--31.0 mi² (80.3 km²).

PERIOD OF RECORD.--March 1964 to September 1968, October 1970 to current year.

REVISED RECORDS.--WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 883.93 ft (269.422 m) above mean sea level. Prior to July 23, 1974, recording gage at present site and datum. July 24, 1974 to July 22, 1975, nonrecording gages at various sites within 370 ft (113 m) at datum 1.38 ft (0.421 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--10 years (1964-68, 1970-76), 32.2 ft³/s (0.912 m³/s), 14.11 in/yr (358 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,040 ft³/s (143 m³/s) June 23, 1972, gage height, 10.15 ft (3.094 m), from floodmarks, from rating curve extended above 700 ft³/s (19.8 m³/s); minimum daily, 0.02 ft³/s (0.001 m³/s) Sept. 23-27, 1964; minimum gage height, 1.57 ft (0.479 m) July 26, 28, 29, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 17	1615	*735 20.8	*6.69 2.039	Mar. 3	2315	690 19.5	6.60 2.012
Feb. 22	2330	390 11.0	5.65 1.722	May 20	2245	380 10.8	5.60 1.707

Minimum discharge, 3.7 ft³/s (0.10 m³/s) July 26, 28, 29, gage height, 1.57 ft (0.479 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	18	26	22	56	92	51	58	61	19	78	6.4
2	30	17	29	20	48	117	63	58	74	16	49	7.1
3	27	17	25	18	34	333	52	52	61	13	19	6.1
4	23	17	23	18	30	534	45	44	43	12	12	5.3
5	19	16	21	18	30	311	39	40	36	10	9.2	5.9
6	16	15	24	18	28	166	35	34	30	9.2	8.1	5.3
7	15	15	29	17	27	120	32	36	59	8.1	12	4.3
8	14	14	24	17	27	94	30	37	89	13	23	4.1
9	14	14	26	16	27	74	28	32	50	14	21	4.1
10	18	18	51	17	29	72	26	28	36	11	15	5.0
11	15	29	58	18	48	69	26	28	30	9.8	12	6.1
12	13	25	50	19	75	56	24	37	25	13	9.6	6.4
13	12	30	44	19	83	53	21	32	21	17	12	5.2
14	12	30	70	22	90	48	17	27	19	21	50	4.5
15	12	28	122	25	82	44	17	27	20	15	168	4.1
16	13	26	160	22	142	39	24	30	17	12	76	4.1
17	15	25	110	19	554	35	24	49	18	11	36	6.6
18	74	24	68	16	460	34	18	61	16	8.8	23	8.8
19	186	23	40	14	500	47	16	98	14	6.8	16	7.4
20	114	21	28	15	293	80	14	191	20	5.6	13	5.9
21	82	21	25	18	163	86	15	243	23	5.9	10	5.9
22	62	22	23	17	218	82	17	111	23	6.4	9.2	5.6
23	46	20	22	16	252	63	17	74	17	5.6	8.1	5.3
24	38	19	20	16	133	54	16	58	14	5.3	7.4	5.0
25	32	18	18	17	109	48	59	57	16	5.0	6.4	4.5
26	29	18	18	21	102	45	216	83	13	4.3	6.1	5.3
27	26	20	21	46	105	41	161	79	18	4.1	6.8	7.8
28	24	23	20	68	100	44	110	59	22	4.1	6.8	9.2
29	22	21	20	100	80	38	94	47	16	6.6	6.4	7.8
30	21	20	22	92	---	35	72	43	18	12	7.1	6.1
31	20	---	23	70	---	33	---	49	---	16	6.8	---
TOTAL	1080	624	1260	851	3925	2987	1379	1902	919	320.6	743.0	175.2
MEAN	34.8	20.8	40.6	27.5	135	96.4	46.0	61.4	30.6	10.3	24.0	5.84
MAX	186	30	160	100	554	534	216	243	89	21	168	9.2
MIN	12	14	18	14	27	33	14	27	13	4.1	6.1	4.1
CFSM	1.12	.67	1.31	.89	4.35	3.11	1.48	1.98	.99	.33	.77	.19
IN.	1.30	.75	1.51	1.02	4.71	3.58	1.65	2.28	1.10	.38	.89	.21

CAL YR 1975 TOTAL 15617.30 MEAN 42.8 MAX 831 MIN .78 CFSM 1.38 IN 18.74
WTR YR 1976 TOTAL 16165.80 MEAN 44.2 MAX 554 MIN 4.1 CFSM 1.43 IN 19.40

STREAMS TRIBUTARY TO LAKE ONTARIO

04235250 FLINT CREEK AT PHELPS, NY

LOCATION.--Lat 42°57'28", long 77°04'06", Ontario County, Hydrologic Unit 04140201, on right bank 25 ft (8 m) downstream from bridge on Eagle Street at Phelps, and 1.1 mi (1.8 km) upstream from Canandaigua Outlet.

DRAINAGE AREA.--102 mi² (264 km²).

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 523.14 ft (159.453 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Small diversion (during periods of low ground-water level) by Phelps Cement Products, Inc., located about 0.2 mile (0.3 km) upstream. Since 1967, flow from Canandaigua Lake diverted into Flint Creek for municipal supply of village of Gorham; presently not exceeding 0.3 ft³/s (0.008 m³/s).

AVERAGE DISCHARGE.--17 years, 88.4 ft³/s (2.503 m³/s), 11.77 in/yr (299 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,940 ft³/s (83.3 m³/s) Mar. 30, 1960, gage height, 5.83 ft (1.777 m); maximum gage height, 6.20 ft (1.890 m) Mar. 17, 1963 (ice jam); no flow for many days 1962-65, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (22.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 18	1600	*1,800 51.0	*5.04 1.536	May 20	0530	1,020 28.9	4.34 1.323
Mar. 4	1700	1,400 39.6	4.72 1.439				

Minimum discharge, 10 ft³/s (0.28 m³/s) Sept. 10, gage height, 1.56 ft (0.475 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148	43	53	64	200	268	219	174	145	56	283	18
2	100	40	58	58	150	369	260	160	206	48	253	19
3	81	40	56	54	120	440	225	143	171	40	102	17
4	66	41	47	54	100	1000	171	116	116	36	56	15
5	54	39	46	52	98	1180	133	100	83	31	39	14
6	47	35	50	50	94	848	112	86	69	27	34	14
7	40	35	56	50	90	556	98	87	155	23	40	13
8	35	34	56	50	86	365	86	93	185	28	98	12
9	33	32	59	48	84	250	78	83	150	55	86	11
10	36	39	138	52	84	200	72	72	91	39	66	14
11	43	53	185	60	100	180	71	71	69	33	49	14
12	36	63	158	64	300	170	66	96	55	98	38	15
13	33	99	138	66	400	130	62	89	48	188	71	14
14	33	88	260	76	540	110	59	73	45	185	303	12
15	32	79	307	84	429	90	55	68	60	106	424	11
16	33	70	342	72	774	120	307	71	54	72	465	12
17	33	64	291	60	1360	100	185	116	68	59	229	22
18	202	59	194	50	1460	102	114	206	59	44	100	34
19	371	54	87	45	1430	174	84	291	48	32	65	28
20	383	51	60	52	1010	365	69	833	60	25	48	20
21	267	51	62	48	774	324	61	603	106	24	39	17
22	182	51	70	45	796	250	65	455	320	23	32	15
23	130	47	60	43	666	197	66	268	163	20	27	14
24	100	43	52	42	506	163	62	176	108	19	23	12
25	85	41	50	43	389	145	287	138	168	16	20	12
26	73	39	50	60	316	131	760	147	106	14	19	13
27	63	42	60	120	316	124	679	176	71	13	18	23
28	58	49	56	250	279	129	475	140	65	12	18	28
29	53	49	56	400	232	116	312	106	60	29	21	23
30	48	51	62	350	---	102	229	93	53	66	17	19
31	44	---	68	250	---	98	---	106	---	57	16	---
TOTAL	2942	1521	3287	2812	13183	8796	5522	5436	3157	1518	3099	505
MEAN	94.9	50.7	106	90.7	455	284	184	175	105	49.0	100	16.8
MAX	383	99	342	400	1460	1180	760	833	320	188	465	34
MIN	32	32	46	42	84	90	55	68	45	12	16	11
CFSM	.93	.50	1.04	.89	4.46	2.78	1.80	1.72	1.03	.48	.98	.16
IN.	1.07	.55	1.20	1.03	4.81	3.21	2.01	1.98	1.15	.55	1.13	.18

CAL YR 1975 TOTAL 40592.4 MEAN 111 MAX 1270 MIN 1.3 CFSM 1.09 IN 14.80
WTR YR 1976 TOTAL 51778.0 MEAN 141 MAX 1460 MIN 11 CFSM 1.38 IN 18.88

STREAMS TRIBUTARY TO LAKE ONTARIO

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04235396 OWASCO LAKE NEAR AUBURN, NY

LOCATION.--Lat 42°53'56", long 76°32'17", Cayuga County, Hydrologic Unit 04140201, on west side of breakwater at city of Auburn water intake and pumping station, 1 mi (2 km) south of city limits of Auburn, and 1.8 mi (2.9 km) upstream from State dam.

DRAINAGE AREA.--205 mi² (531 km²).

PERIOD OF RECORD.--October 1967 to current year. Records since 1912 collected by, and in files of, city of Auburn.

GAGE.--Nonrecording gage read once daily by employees of city of Auburn Water Division. Datum of gage (revised) is at mean sea level. Reference mark at elevation 715.48 ft (218.078 m) above mean sea level.

REMARKS.--Lake elevation regulated by gates on outlet at State dam. Area of water surface, 10.6 mi² (27.5 km²).

COOPERATION.--Records furnished by city of Auburn.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 716.88 ft (218.505 m) June 25, 1972; minimum observed, 709.55 ft (216.271 m) Mar. 10-14, 1969.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum observed elevation since 1912, 716.91 ft (218.514 m) Mar. 23, 1936, Apr. 9, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 713.93 ft (217.606 m) Oct. 1; minimum observed, 710.30 ft (216.499 m) Jan. 12, 13.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 0700

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	713.93	711.43	711.64	711.18	710.99	712.76	711.03	712.47	713.01	712.72	712.66	712.70
2	713.63	711.28	711.64	711.08	710.97	712.81	711.26	712.48	713.03	712.78	712.71	712.69
3	713.30	711.22	711.61	711.04	710.88	713.11	711.36	712.45	712.98	712.71	712.73	712.71
4	713.07	711.18	711.62	710.92	710.82	713.59	711.42	712.35	712.95	712.62	712.73	712.73
5	712.88	711.16	711.65	710.80	710.73	713.78	711.46	712.33	712.89	712.55	712.70	712.71
6	712.66	711.13	711.61	710.73	710.66	713.73	711.50	712.24	712.83	712.48	712.67	712.70
7	712.50	711.10	711.71	710.61	710.59	713.53	711.38	712.32	712.82	712.50	712.63	712.68
8	712.33	711.07	711.74	710.49	710.50	713.29	711.41	712.45	712.81	712.50	712.78	712.66
9	712.15	711.03	711.73	710.42	710.41	712.98	711.45	712.53	712.86	712.60	712.80	712.68
10	712.01	711.03	711.92	710.38	710.36	712.81	711.49	712.59	712.90	712.66	712.51	712.71
11	711.86	711.02	712.04	710.36	710.37	712.53	711.52	712.65	712.93	712.69	712.59	712.72
12	711.71	711.08	712.10	710.30	710.37	712.38	711.55	712.83	712.86	712.71	712.65	712.69
13	711.60	711.12	712.03	710.30	710.40	712.16	711.58	712.81	712.88	712.86	712.63	712.63
14	711.60	711.20	712.02	710.33	710.46	711.98	711.61	712.74	712.80	712.97	712.72	712.61
15	711.73	711.27	711.93	710.33	710.56	711.78	711.66	713.15	712.86	712.90	712.79	712.63
16	711.78	711.30	711.92	710.35	710.62	711.63	711.63	712.57	712.82	712.70	712.79	712.61
17	711.74	711.33	711.92	710.33	711.06	711.51	712.43	712.50	712.85	712.55	712.71	712.66
18	711.82	711.34	711.83	710.33	711.85	711.38	712.36	712.52	712.82	712.62	712.71	712.68
19	711.95	711.34	711.72	710.32	712.48	711.26	712.24	712.48	712.80	712.64	712.71	712.68
20	711.95	711.37	711.65	710.32	712.83	711.26	712.28	713.03	712.78	712.70	712.73	712.63
21	711.92	711.46	711.60	710.33	712.84	711.18	712.13	713.29	713.04	712.76	712.73	712.56
22	711.78	711.51	711.50	710.34	712.91	711.38	712.00	713.09	712.82	712.78	712.73	712.48
23	711.71	711.56	711.46	710.38	713.20	711.38	711.88	712.90	712.76	712.83	712.72	712.43
24	711.80	711.57	711.41	710.38	713.12	711.34	711.76	712.68	713.29	712.73	712.71	712.31
25	711.85	711.58	711.39	710.39	712.98	711.26	711.70	712.64	712.61	712.68	712.71	712.27
26	711.88	711.58	711.33	710.41	712.86	711.16	712.11	712.65	713.29	712.72	712.70	712.20
27	711.93	711.59	711.33	710.60	712.86	711.18	712.35	712.65	712.55	712.71	712.70	712.18
28	711.83	711.57	711.33	710.97	712.84	711.08	712.47	712.73	712.51	712.72	712.73	713.18
29	711.69	711.58	711.30	711.05	712.78	711.05	712.58	712.82	712.54	712.73	712.75	712.15
30	711.58	711.64	711.31	711.05	---	710.99	712.57	712.85	712.55	712.74	712.72	712.10
31	711.48	---	711.28	711.03	---	710.95	---	712.94	---	712.62	712.72	---
MEAN	712.12	711.32	711.65	710.58	711.53	712.04	711.81	712.67	712.85	712.69	712.71	712.58
MAX	713.93	711.64	712.10	711.18	713.20	713.78	712.58	713.29	713.29	712.97	712.80	713.18
MIN	711.48	711.02	711.28	710.30	710.36	710.95	711.03	712.24	712.51	712.48	712.51	712.10

WTR YR 1976 MEAN 712.05 MAX 713.93 MIN 710.30
CAL YR 1975 MEAN 711.95 MAX 714.78 MIN 710.46

STREAMS TRIBUTARY TO LAKE ONTARIO

04235500 OWASCO OUTLET NEAR AUBURN, NY

LOCATION.--Lat 42°56'48", long 76°35'56", Cayuga County, Hydrologic Unit 04140201, on left bank 2.5 mi (4.0 km) downstream from center of Auburn, and 4 mi (6 km) downstream from State dam at outlet of Owasco Lake.

DRAINAGE AREA.--206 mi² (534 km²).

PERIOD OF RECORD.--November 1912 to current year. Prior to October 1966, published as "Owasco Lake Outlet."

REVISED RECORDS.--WSP 824: 1913-14, 1916, 1920(M), 1922(M), 1928(M), 1929, 1932(M). WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 533.92 ft (162.739 m) above mean sea level.

REMARKS.--Records fair. Diurnal fluctuation caused by mills in Auburn; seasonal regulation at State dam. Diversion from Owasco Lake (see station 04235396) by city of Auburn for municipal water supply; sewage returns to outlet upstream from station.

AVERAGE DISCHARGE.--63 years (1913-76), 287 ft³/s (8.128 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,250 ft³/s (92.0 m³/s) June 23, 1972, gage height, 6.28 ft (1.914 m); minimum, about 2 ft³/s (0.057 m³/s) Dec. 5, 1936; minimum gage height, 1.19 ft (0.363 m) June 26, 1973; minimum daily discharge, 5 ft³/s (0.14 m³/s) Nov. 11, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,720 ft³/s (48.7 m³/s) Mar. 4, gage height, 4.10 ft (1.250 m); minimum, 14 ft³/s (0.40 m³/s) Oct. 24, gage height, 1.32 ft (0.402 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1410	446	215	629	653	1250	263	886	320	74	69	45
2	1240	404	287	621	642	1280	140	883	537	277	66	40
3	1130	377	277	596	639	1460	162	864	416	460	107	39
4	1050	351	277	588	631	1540	177	764	355	435	193	36
5	969	314	277	588	627	1650	191	655	346	417	190	35
6	865	297	282	588	621	1600	454	330	342	228	186	34
7	783	287	303	580	615	1520	437	56	343	68	196	36
8	799	267	308	572	611	1450	57	49	236	71	204	36
9	759	257	320	519	607	1340	57	47	46	68	594	37
10	705	262	390	565	605	1240	54	47	50	66	484	101
11	637	248	432	565	323	1140	55	54	148	70	21	198
12	565	267	526	432	116	1100	54	316	266	449	43	195
13	238	277	680	351	123	1010	53	641	257	1030	79	111
14	23	282	654	238	121	950	53	539	208	1190	146	35
15	21	292	637	170	124	890	93	611	206	1130	210	35
16	170	292	621	160	151	847	728	585	354	1070	366	38
17	314	292	604	150	290	820	891	391	342	584	260	42
18	383	292	565	150	831	802	817	401	335	150	66	35
19	397	188	534	140	1150	598	482	411	327	120	66	86
20	654	146	504	54	1210	569	483	904	351	66	65	278
21	759	234	482	50	1230	587	759	1310	850	123	64	262
22	697	248	453	47	1280	588	750	1280	1150	71	63	250
23	303	257	432	46	1340	581	705	1180	796	236	65	240
24	20	184	417	46	1360	570	672	912	434	331	64	221
25	42	262	411	46	1350	624	716	508	320	186	62	210
26	39	262	404	150	1310	582	811	421	307	62	61	213
27	252	262	404	330	1280	489	857	231	300	61	54	208
28	596	262	411	413	1270	468	892	57	179	61	44	198
29	549	267	439	565	1170	465	924	55	72	195	45	193
30	504	282	439	665	---	457	919	54	81	574	42	185
31	475	---	557	660	---	399	---	55	---	299	41	---
TOTAL	17348	8358	13542	11274	22280	28866	13706	15497	10274	10222	4216	3672
MEAN	560	279	437	364	768	931	457	500	342	330	136	122
MAX	1410	446	680	665	1360	1650	924	1310	1150	1190	594	278
MIN	20	146	215	46	116	399	53	47	46	61	21	34
CAL YR 1975	TOTAL	127965	MEAN 351	MAX 1790	MIN 18							
WTR YR 1976	TOTAL	159255	MEAN 435	MAX 1650	MIN 20							

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LOCATION.--Lat 42°56'42", long 76°25'46", Onondaga County, Hydrologic Unit 04140201, on east side of breakwater, enclosed in city of Syracuse boathouse, at Skaneateles.

PERIOD OF RECORD.--October 1967 to current year. Records since September 1890 collected by, and in files of, city of Syracuse.

REMARKS.--Lake elevation regulated by gates at outlet by Syracuse Water Division. Area of water surface, 13.6 mi² (35.2 km²).

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 865.19 ft (263.710 m) May 4; minimum observed, 862.40 ft (262.860 m) Jan. 25, 26.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	863.96	863.87	863.55	863.03	862.70	864.00	863.96	865.16	864.75	864.64	864.43	863.82
2	863.95	863.76	863.53	862.97	862.73	864.10	863.99	865.16	864.73	864.57	864.41	863.76
3	864.00	863.77	863.47	862.97	862.70	864.19	863.99	865.18	864.72	864.55	864.45	863.72
4	864.00	863.77	863.43	862.95	862.68	864.47	863.97	865.19	864.72	864.53	864.35	863.72
5	864.00	863.77	863.43	862.94	862.64	864.57	863.96	865.18	864.68	864.50	864.33	863.68
6	863.99	863.75	863.37	862.96	862.64	864.51	863.95	865.14	864.67	864.51	864.31	863.65
7	863.98	863.73	863.37	862.94	862.64	864.57	863.95	865.09	864.72	864.52	864.28	863.64
8	863.97	863.73	863.37	862.85	862.64	864.53	863.92	865.08	864.70	864.48	864.22	863.60
9	863.93	863.72	863.35	862.84	862.66	864.54	863.90	865.04	864.71	864.48	864.35	863.56
10	863.94	863.73	863.43	862.80	862.65	864.47	863.87	864.97	864.70	864.51	864.32	863.57
11	863.94	863.76	863.45	862.75	862.63	864.45	863.86	864.94	864.68	864.47	864.31	863.59
12	863.88	863.76	863.43	862.73	862.65	864.40	863.86	865.04	864.65	864.47	864.28	863.57
13	863.85	863.81	863.42	862.73	862.64	864.40	863.93	864.93	864.68	864.56	864.25	863.57
14	863.88	863.76	863.45	862.70	862.63	864.34	863.87	864.90	864.66	864.72	864.25	863.57
15	863.90	863.77	863.43	862.67	862.62	864.28	863.87	864.81	864.73	864.75	864.27	863.53
16	863.83	863.75	863.46	862.66	862.75	864.26	864.40	864.81	864.73	864.77	864.25	863.50
17	863.80	863.75	863.45	862.58	862.95	864.26	864.57	864.77	864.80	864.77	864.24	863.48
18	863.90	863.76	863.40	862.55	862.97	864.19	864.64	864.73	864.72	864.74	864.22	863.53
19	863.88	863.75	863.36	862.53	863.20	864.16	864.67	864.75	864.73	864.70	864.17	863.50
20	863.95	863.75	863.36	862.50	863.27	864.13	864.67	864.98	864.78	864.67	864.10	863.48
21	863.98	863.77	863.33	862.48	863.48	864.13	864.67	865.07	864.80	864.68	864.07	863.46
22	863.92	863.75	863.32	862.46	863.51	864.05	864.65	865.10	864.87	864.61	864.05	863.44
23	863.93	863.72	863.30	862.46	863.70	864.05	864.67	865.07	864.84	864.59	864.01	863.43
24	863.92	863.70	863.28	862.48	863.76	864.16	864.70	865.07	864.80	864.55	863.97	863.35
25	863.92	863.67	863.27	862.40	863.78	864.06	864.67	865.03	864.87	864.48	863.96	863.31
26	863.90	863.65	863.23	862.40	863.77	864.01	864.93	865.01	864.77	864.45	863.90	863.29
27	863.89	863.65	863.19	862.49	863.85	864.01	865.03	864.95	864.75	864.43	863.91	863.31
28	863.88	863.59	863.16	862.66	863.90	864.01	865.08	864.91	864.65	864.39	863.87	863.33
29	863.											

STREAMS TRIBUTARY TO LAKE ONTARIO

04237500 SENECA RIVER AT BALDWINVILLE, NY

LOCATION.--Lat 43°09'26", long 76°19'56", Onondaga County, Hydrologic Unit 04140201, on left bank 200 ft (61 m) downstream from bridge on State Highway 31 in Baldwinsville, and 400 ft (122 m) downstream from navigation dam at Lock 24 of New York State Erie (Barge) Canal.

DRAINAGE AREA.--3,136 mi² (8,122 km²).

PERIOD OF RECORD.--November 1949 to current year in reports of Geological Survey. November 1898 to December 1908, prior to construction of Erie (Barge) Canal, not equivalent to later records at same site because of extensive development of Erie (Barge) Canal system. January 1909 to September 1925 (gage heights only) in reports of State Engineer and Surveyor.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 362.60 ft (110.520 m) above mean sea level, Barge Canal datum. Prior to Dec. 31, 1908, nonrecording gage at same site at different datum. Auxiliary water-stage recorder 1,500 ft (457 m) downstream from base gage at same datum.

REMARKS.--Records fair. Discharge from 1898 to 1908 determined on basis of head on dam, flow through 10 mills nearby, lockages at Oswego Canal lock, estimated leakage of dam, wheel gates, flumes, and penstocks; not adjusted for inflow from Lake Erie through Erie (Barge) Canal. Discharge since November 1949, computed by using fall as determined by auxiliary water-stage recorder, represents total discharge at Baldwinsville and includes flow in Erie (Barge) Canal.

A large amount of natural storage and some artificial regulation is afforded by many large lakes and the Erie (Barge) Canal system in river basin. Large diurnal fluctuations at low and medium flows caused by power-plants upstream from station. Seneca River basin receives water from Erie (Barge) Canal through Lock 32 near Pittsford. During part of year, entire flow from 45.5 mi² (118 km²) of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin (see station 01529000).

COOPERATION.--Records of lockages at Lock 24 furnished by New York State Department of Transportation (since November 1949).

AVERAGE DISCHARGE.--26 years (1950-76), 3,409 ft³/s (96.54 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,200 ft³/s (487 m³/s) Apr. 4, 1960, June 28, 1972; maximum gage height, 9.21 ft (2.807 m) Apr. 4, 1960, June 30, 1972; minimum daily discharge, 237 ft³/s (6.71 m³/s) Nov. 10, 1957; minimum gage height, 0.81 ft (0.247 m) Aug. 10, 1952, Oct. 2, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 14,200 ft³/s (402 m³/s) Mar. 8; maximum gage height, 7.71 ft (2.350 m) Mar. 7, 8; minimum daily discharge, 543 ft³/s (15.4 m³/s) Sept. 30; minimum gage height, 1.20 ft (0.366 m) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11200	4540	3470	5410	6360	11000	8640	9650	7600	5440	2900	812
2	10800	4390	3340	5510	6120	10800	9000	9420	7480	4900	3200	882
3	10400	4150	3290	5670	5880	10900	9180	9320	7330	4540	4200	924
4	9950	4080	3220	5710	5720	11000	9120	8920	7100	4660	3320	1320
5	9580	4060	3250	5410	5720	11500	8880	7950	6400	4620	2800	1310
6	9260	3990	3250	5430	5520	13000	8480	6380	5740	4540	2820	825
7	8980	3460	3270	5450	5400	13900	7900	5560	5390	4020	2820	783
8	8430	3260	3360	5360	5390	14200	6920	5130	4640	3270	2870	814
9	8030	3260	3260	5180	5390	14000	5910	4640	4150	3200	4130	828
10	7810	3390	3880	4360	5360	13400	5450	4010	4110	3050	5610	853
11	7650	3550	5050	4550	5470	12800	5080	3470	3910	2380	5710	905
12	7530	3600	5470	5000	5500	12300	4160	3310	3780	2800	5760	1370
13	7380	4240	5440	5140	5800	11900	3640	3370	3710	5000	5620	994
14	7120	4760	5430	4800	6380	11400	2720	3500	3770	6800	4500	1360
15	6260	4810	5580	4560	6720	11000	2010	3670	3070	7400	4150	967
16	5830	4850	5720	4500	6970	10900	1970	3870	2850	7800	4150	865
17	5810	4820	6210	4370	7430	10700	5440	3970	3000	7600	4240	1200
18	5870	4720	6480	4380	8370	10400	8920	4500	3330	7200	3900	1490
19	6110	4680	5920	4300	9580	10200	9920	5300	2870	6600	3260	1600
20	6430	4560	5640	4210	11300	10200	9040	7000	3430	5800	2320	1430
21	6850	4480	5340	4360	12500	10500	6950	9410	3830	5000	1790	1430
22	6850	4410	4260	3350	12100	10700	5630	10500	5120	3700	1840	1800
23	6630	4330	4530	2360	13000	10800	4420	10800	6480	3000	1730	1590
24	6220	4300	4500	2260	13000	10600	3660	10700	6970	2000	1650	1500
25	6070	4080	4080	2200	12700	10300	3560	10000	6930	1600	1700	1410
26	5870	3810	4100	2190	12300	10100	4260	9260	6930	1700	1600	1330
27	5590	3580	4320	3430	12000	9910	5960	9220	6950	1700	1500	1480
28	4850	3620	4420	4750	11700	9800	7190	8610	6840	1600	1500	1540
29	4740	3400	4500	5700	11400	9370	8220	8140	6480	1600	1500	1130
30	4430	3350	5120	6220	---	9030	9690	7790	5750	1800	1500	543
31	4270	---	5190	6390	---	8710	---	7630	---	2400	1100	---
TOTAL	222800	122530	140890	142510	241080	345320	191920	214700	155940	127720	95690	35285
MEAN	7187	4084	4545	4597	8313	11140	6397	6926	5198	4120	3087	1176
MAX	11200	4850	6480	6390	13000	14200	9920	10800	7600	7800	5760	1800
MIN	4270	3260	3220	2190	5360	8710	1970	3310	2850	1600	1100	543

CAL YR 1975 TOTAL 1458827 MEAN 3997 MAX 11800 MIN 353
WTR YR 1976 TOTAL 2036385 MEAN 5564 MAX 14200 MIN 543

04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY

LOCATION.--Lat 42°55'51", long 76°10'24", Onondaga County, Hydrologic Unit 04140201, at Onondaga Dam on Onondaga Creek, 3.5 mi (5.6 km) southwest of Nedrow, 4 mi (6 km) south of Syracuse, and 12.6 mi (20.3 km) upstream from Onondaga Lake.

DRAINAGE AREA.--67.7 mi² (175 km²).

PERIOD OF RECORD.--June 1949 to September 1952 (monthly elevations and contents), October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by a rolled earthfill dam, completed by Corps of Engineers in August 1949 for flood control; first used for flood regulation about a year prior to completion. Usable capacity, 18,200 acre-ft (22.5 hm³) between elevations 457.0 ft (139.29 m), conduit invert at intake, and 504.5 ft (153.77 m), crest of spillway. No dead storage. The flood-control works consist of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually. Storage includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin.

COOPERATION.--Capacity curve furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 485.9 ft (148.10 m) Apr. 1, 1960, contents, 5,960 acre-ft (7.35 hm³); no contents at times.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 474.99 ft (144.777 m) Apr. 16, contents, 1,970 acre-ft (2.43 hm³); minimum elevation, 459.78 ft (140.141 m) Sept. 9, 10; no contents many days.

Capacity table (elevation, in feet, and contents, in acre-feet)

460.00	0	467.00	225
461.00	5	470.00	700
462.00	15	475.00	1,420
464.00	50	478.00	2,880

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	461.15	460.26	461.40	461.42	462.00	465.41	463.21	463.30	461.30	462.47	461.39	459.88
2	461.52	460.25	461.04	461.56	465.23	463.06	464.62	464.62	461.33	460.99	460.79	460.02
3	461.36	460.29	460.82	460.95	461.29	468.23	462.08	463.76	460.96	460.76	460.39	459.98
4	460.95	460.75	460.67	460.79	461.41	471.88	461.66	462.81	460.78	460.58	460.21	459.91
5	460.76	460.63	460.61	460.70	461.02	471.51	461.36	462.33	460.69	460.47	460.12	460.10
6	460.67	460.43	461.36	461.08	460.92	469.53	461.19	461.98	460.62	460.37	460.08	460.00
7	460.56	460.33	461.90	460.73	460.85	466.41	461.06	462.21	461.29	460.30	460.49	459.88
8	460.52	460.36	461.07	460.64	460.83	463.68	460.98	462.13	460.87	460.35	461.51	459.83
9	460.48	460.39	461.20	460.58	460.76	462.87	460.95	461.64	460.64	460.91	461.21	459.79
10	460.79	460.81	464.17	460.49	460.76	462.74	460.88	461.37	460.48	460.56	460.61	460.37
11	461.37	461.07	462.81	460.45	462.17	462.61	460.93	461.41	460.46	460.33	460.37	460.41
12	461.56	460.81	461.84	460.47	461.89	462.01	460.90	462.72	460.41	461.12	460.23	460.14
13	461.55	461.79	461.48	460.46	462.00	462.33	460.85	461.91	460.33	462.41	460.20	459.97
14	461.73	461.88	461.63	461.01	462.26	462.26	460.75	461.38	460.37	463.44	460.30	459.87
15	461.66	461.63	461.73	460.87	461.57	462.13	460.90	461.77	461.30	461.63	460.36	459.82
16	461.83	461.56	462.04	460.75	464.14	461.79	470.20	461.30	460.73	461.08	460.37	459.81
17	461.70	461.36	461.38	460.62	468.42	461.54	474.10	461.09	461.90	461.17	460.21	459.98
18	462.48	461.10	461.06	460.30	471.41	461.46	470.87	461.42	460.82	460.77	460.09	460.12
19	462.12	460.91	461.15	460.37	473.37	462.29	466.13	462.19	460.48	460.53	460.02	460.20
20	462.12	460.80	461.40	460.43	472.52	464.03	462.35	468.11	464.19	460.41	459.97	460.09
21	461.98	461.61	461.10	460.46	469.75	464.03	461.93	468.69	463.65	460.63	459.94	459.98
22	461.14	461.64	460.74	460.44	469.07	464.45	462.04	464.58	461.60	460.54	459.91	459.92
23	460.78	461.08	460.75	460.29	469.79	462.82	462.00	462.59	461.86	460.37	459.90	459.89
24	460.62	460.87	460.63	460.37	466.75	462.39	461.62	462.16	461.18	460.37	459.88	459.89
25	460.56	460.81	460.77	460.34	464.52	462.03	463.44	462.32	461.13	460.34	459.86	459.88
26	460.51	460.76	460.89	460.95	464.33	461.79	468.81	462.48	460.86	460.19	459.84	459.85
27	460.45	460.97	461.48	466.02	465.05	461.62	469.12	462.32	460.72	460.12	459.83	460.22
28	460.42	460.96	461.02	466.32	464.34	461.88	468.26	461.68	460.51	460.10	460.14	460.34
29	460.38	460.74	461.00	464.02	463.25	461.50	467.24	461.30	460.52	460.10	460.56	460.12
30	460.34	460.70	460.86	462.70	---	461.30	465.10	461.18	461.29	460.57	460.15	459.99
31	460.30	---	461.62	461.66	---	461.15	---	461.17	---	460.47	459.94	---
MEAN	461.11	460.92	461.34	461.22	464.41	463.71	463.80	462.58	461.11	460.79	460.29	460.01
MAX	462.48	461.88	464.17	466.32	473.37	471.88	474.10	468.69	464.19	463.44	461.51	460.41
MIN	460.30	460.25	460.61	460.29	460.76	461.15	460.75	461.09	460.33	460.10	459.83	459.79
†	1.4	3.4	8.2	11.8	44.7	5.9	45.6	22.3	2.2	0	0	0
‡	-1.10	+0.04	+0.08	+0.06	+0.57	-0.63	+0.67	-0.65	+0.28	-0.33	-0.04	0

CAL YR 1975 MEAN 461.16 MAX 462.06 MIN 459.59 ‡ +0.01
WTR YR 1976 MEAN 461.76 MAX 474.10 MIN 459.79 ‡ -0.01

† Contents, in acre-feet, at end of period.

‡ Change in contents, equivalent in cubic feet per second.

LOCATION.--Lat 42°59'00", long 76°09'04", Onondaga County, Hydrologic Unit 04140201, on left bank 550 ft (168 m) upstream from bridge on Dorwin Avenue, at Syracuse, and 4 mi (6 km) downstream from Onondaga Reservoir.

PERIOD OF RECORD.--May 1951 to current year.

REVISÉD RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 413.59 ft (126.062 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair. High flows regulated by Onondaga Reservoir (see station 04238500). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tiohghnioga River basin. The adjusted and unadjusted yearly means are the same for each year of record.

AVERAGE DISCHARGE.--25 years, 124 ft³/s (3.512 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,260 ft³/s (92.3 m³/s) July 3, 1974, gage height, 6.48 ft (1.975 m); minimum daily, 5.5 ft³/s (0.16 m³/s) Aug. 17, 1965; minimum gage height, 1.15 ft (0.351 m) Sept. 16, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,100 ft³/s (59.5 m³/s) Apr. 16, gage height, 5.52 ft (1.682 m); minimum, 40 ft³/s (1.13 m³/s) Sept. 15, gage height, 1.62 ft (0.494 m).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	80	177	182	197	446	283	336	169	249	131	59
2	187	78	153	135	190	450	283	430	177	172	162	63
3	195	80	133	144	180	722	228	371	153	133	94	62
4	167	125	119	129	165	861	195	296	135	109	88	56
5	144	113	111	117	142	790	172	267	123	93	80	64
6	129	95	160	138	129	690	155	264	117	81	78	60
7	117	86	228	119	138	529	144	264	153	75	150	53
8	107	93	153	113	119	346	135	267	144	78	260	47
9	102	98	153	120	115	270	129	246	121	115	160	45
10	96	119	407	120	111	258	123	219	107	106	110	56
11	95	167	309	113	195	252	121	205	100	85	110	85
12	96	123	225	100	211	219	121	302	98	95	96	66
13	96	214	195	95	200	228	117	267	93	214	90	54
14	98	217	197	133	243	237	109	228	88	306	94	46
15	98	192	200	148	174	231	109	225	140	203	90	41
16	98	192	234	125	378	208	1100	208	125	167	88	43
17	96	174	187	119	744	187	930	187	222	167	80	63
18	222	153	162	110	943	172	796	187	167	151	76	64
19	219	135	140	110	949	222	560	273	117	119	72	72
20	240	125	172	119	831	371	277	727	385	96	68	53
21	222	190	138	96	722	353	261	711	353	91	64	48
22	205	211	129	93	790	378	252	458	214	96	60	46
23	162	160	129	102	706	264	261	267	211	83	58	46
24	133	140	131	113	551	240	234	243	187	78	62	46
25	119	131	157	93	411	219	400	249	155	75	56	45
26	107	131	127	123	385	203	749	255	140	67	43	45
27	98	144	184	508	423	184	744	243	119	60	42	88
28	91	148	151	534	378	190	679	214	102	58	63	70
29	88	127	127	385	302	169	618	184	93	56	93	54
30	85	121	129	264	---	155	470	169	115	81	81	48
31	81	---	192	195	---	142	---	169	---	85	66	---
TOTAL	4193	4162	5409	4995	11022	10186	10755	8931	4623	3644	2865	1688
MEAN	135	139	174	161	380	329	359	288	154	118	92.4	56.3
MAX	240	217	407	534	949	861	1100	727	385	306	260	88
MIN	81	78	111	93	111	142	109	169	88	56	42	41
CAL YR 1975	TOTAL	55598	MEAN 152	MAX	1330	MIN 30						
WTR YR 1976	TOTAL	72473	MEAN 198	MAX	1100	MIN 41						

STREAMS TRIBUTARY TO LAKE ONTARIO

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04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, NY

LOCATION.--Lat 43°03'27", long 76°09'46", Onondaga County, Hydrologic Unit 04140201, on right bank 250 ft (76 m) upstream from bridge on Spencer Street in Syracuse, 1,000 ft (305 m) upstream from Erie (Barge) Canal terminal, and 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--109 mi² (282 km²).

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. September 1970 to current year.

REVISED RECORDS.--WRD N.Y. 1972: 1971(M). WRD N.Y. 1975: 1972(M), 1974(M).

GAGE.--Water-stage recorder. Datum of gage is 362.29 ft (110.426 m) above mean sea level.

REMARKS.--Records fair. High flows regulated by Onondaga Reservoir (see station 04238500). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin. Flow may be affected by backwater from Onondaga Lake at times when the lake elevation exceeds 364.75 ft (111.176 m).

AVERAGE DISCHARGE.--6 years, 223 ft³/s (6.315 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,740 ft³/s (77.6 m³/s) July 3, 1974, gage height, 8.73 ft (2.661 m); minimum, 36 ft³/s (1.02 m³/s) Oct. 20, 21, Dec. 5, 1972, gage height, 2.34 ft (0.713 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,360 ft³/s (66.8 m³/s) Apr. 16, gage height, 8.12 ft (2.475 m); minimum, 60 ft³/s (1.70 m³/s) Sept. 26; minimum gage height, 2.55 ft (0.777 m) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	322	131	248	250	265	515	525	436	265	367	243	112
2	349	131	245	187	240	546	421	519	260	228	182	112
3	292	137	220	218	194	892	325	445	235	226	141	92
4	258	189	198	194	220	1130	278	391	213	166	124	79
5	238	168	184	166	196	916	268	364	192	150	116	110
6	225	150	261	155	196	796	253	325	211	141	155	87
7	200	148	301	184	196	651	240	355	245	137	240	83
8	173	173	243	175	187	515	233	334	213	208	346	83
9	166	141	271	150	184	412	215	293	189	196	279	79
10	150	161	525	140	182	400	208	271	201	159	185	189
11	140	203	412	130	286	380	200	305	168	135	152	118
12	140	194	316	120	286	349	200	397	150	216	135	94
13	140	253	288	150	292	382	200	334	143	340	175	88
14	140	263	275	238	325	388	191	302	182	436	155	81
15	140	238	307	205	268	373	208	302	221	263	139	77
16	140	225	316	191	469	352	1500	260	248	223	135	92
17	250	223	283	175	964	328	964	253	293	211	118	126
18	380	208	258	139	1340	301	836	319	187	173	106	122
19	350	191	180	150	1100	385	634	403	204	161	98	102
20	310	180	187	161	892	546	331	954	549	141	96	85
21	250	260	194	164	752	536	292	831	467	168	92	74
22	220	263	196	155	860	536	298	580	276	148	88	70
23	190	211	196	141	665	406	289	364	271	133	92	75
24	173	191	191	148	539	364	255	316	268	133	85	67
25	173	182	180	146	430	334	525	308	238	128	83	62
26	166	180	212	270	415	322	872	355	204	118	79	114
27	157	191	258	655	475	286	832	349	182	112	85	133
28	150	200	248	581	454	307	764	299	175	114	124	106
29	146	194	210	448	394	263	721	271	161	173	137	81
30	139	194	256	328	---	250	542	263	248	152	96	74
31	137	---	292	238	---	250	---	253	---	168	85	---
TOTAL	6404	5773	7951	6752	13266	14411	13620	11751	7059	5824	4366	2867
MEAN	207	192	256	218	457	465	454	379	235	188	141	95.6
MAX	380	263	525	655	1340	1130	1500	954	549	436	346	189
MIN	137	131	180	120	182	250	191	253	143	112	79	62

CAL YR 1975 TOTAL 75053 MEAN 206 MAX 1790 MIN 44
WTR YR 1976 TOTAL 100044 MEAN 273 MAX 1500 MIN 62

STREAMS TRIBUTARY TO LAKE ONTARIO

04240100 HARBOR BROOK AT SYRACUSE, NY

LOCATION.--Lat 43°02'08", long 76°11'17", Onondaga County, Hydrologic Unit 04140201, on right bank 145 ft (44 m) downstream from bridge on Velasco Road at Syracuse, and 2.9 mi (4.7 km) upstream from mouth.

DRAINAGE AREA.--9.63 mi² (24.9 km²).

PERIOD OF RECORD.--June 1959 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 394.79 ft (120.332 m) above mean sea level.

REMARKS.--Records poor. Flow includes some sewage and storm sewer inflow, some originating outside the basin.

AVERAGE DISCHARGE.--17 years, 9.02 ft³/s (0.255 m³/s), 12.72 in/yr (323 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 726 ft³/s (20.6 m³/s) July 3, 1974, gage height, 8.34 ft (2.542 m), from rating curve extended above 180 ft³/s (5.10 m³/s) on basis of slope-area measurements of peak flow; minimum daily, 1.8 ft³/s (0.051 m³/s) Sept. 22, 24, 1964, Aug. 29 to Sept. 3, Sept. 10-13, Oct. 8-10, 1966

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 18	1215	226 6.40	5.81 1.771	Apr. 16	0830	*385 10.9	*6.80 2.073
Mar. 4	1115	173 4.90	5.38 1.640	May 20	0200	180 5.10	5.44 1.658

Minimum daily discharge, 3.7 ft³/s (0.10 m³/s) Sept. 30; minimum gage height, 3.03 ft (0.924 m) Jan. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	8.0	8.1	11	18	34	37	27	10	6.7	7.5	4.9
2	19	7.7	6.8	10	17	39	25	41	9.3	6.2	5.3	4.2
3	16	8.2	6.8	10	16	101	22	26	9.3	6.0	5.3	4.0
4	15	9.4	6.7	9.8	15	114	20	24	9.0	6.0	5.1	4.0
5	14	8.0	6.7	9.3	15	64	19	22	8.7	5.7	4.7	4.0
6	13	7.7	10	9.1	14	50	18	21	10	6.2	5.7	4.0
7	13	7.7	8.8	9.1	14	46	18	22	9.3	6.2	17	4.0
8	12	8.8	7.7	9.1	14	42	18	20	8.1	15	8.4	4.0
9	12	7.5	10	8.6	13	39	17	19	7.8	7.2	6.0	4.0
10	10	7.9	20	8.4	14	39	17	19	10	5.7	4.9	6.4
11	11	7.5	12	8.4	17	35	17	23	8.7	5.5	4.7	4.0
12	8.6	9.1	11	8.1	17	32	16	22	8.1	7.5	4.9	4.0
13	11	10	11	8.1	19	33	15	20	7.8	13	6.9	3.9
14	9.4	11	13	10	20	32	15	22	12	9.3	5.5	3.9
15	9.9	9.1	13	9.3	19	30	17	20	8.7	6.0	4.9	4.0
16	11	9.5	13	8.8	38	28	177	20	12	6.7	4.7	4.7
17	11	8.9	11	6.8	81	26	31	19	9.0	6.0	4.5	5.1
18	30	8.1	11	6.4	114	25	27	24	7.5	5.7	4.5	5.1
19	15	7.9	9.8	6.6	77	29	24	29	8.4	5.5	4.5	4.2
20	18	7.7	9.3	6.4	47	35	24	96	17	5.5	4.5	4.0
21	14	10	9.1	6.2	45	34	24	25	9.3	6.0	4.5	4.2
22	12	8.1	8.8	5.8	46	26	24	20	7.5	5.5	4.4	4.0
23	11	7.5	8.8	5.4	42	23	23	18	7.2	5.5	4.4	4.2
24	10	7.3	8.4	5.4	34	22	22	16	7.5	5.5	4.2	4.0
25	9.9	7.1	8.4	5.2	38	22	51	15	7.5	5.3	4.2	4.0
26	9.1	6.8	8.8	8.9	35	20	59	14	6.4	5.3	4.2	6.0
27	8.6	7.5	8.6	41	34	20	47	13	6.4	5.5	4.2	4.9
28	8.4	6.8	8.4	22	29	20	42	12	6.4	5.3	4.4	4.0
29	8.4	6.8	8.4	19	29	19	36	11	6.4	9.0	4.4	3.9
30	8.2	7.1	11	18	---	18	27	12	8.7	5.5	4.0	3.7
31	8.0	---	12	18	---	19	---	10	---	6.4	4.2	---
TOTAL	385.5	244.7	306.4	328.2	971	1116	929	702	264.0	206.4	166.6	129.3
MEAN	12.4	8.16	9.88	10.6	33.5	36.0	31.0	22.6	8.80	6.66	5.37	4.31
MAX	30	11	20	41	114	114	177	96	17	15	17	6.4
MIN	8.0	6.8	6.7	5.2	13	18	15	10	6.4	5.3	4.0	3.7
CFSM	1.29	.85	1.03	1.10	3.48	3.74	3.22	2.35	.91	.69	.56	.45
IN.	1.49	.95	1.18	1.27	3.75	4.31	3.59	2.71	1.02	.80	.64	.50

CAL YR 1975 TOTAL 3899.4 MEAN 10.7 MAX 244 MIN 2.4 CFSM 1.11 IN 15.06
WTR YR 1976 TOTAL 5749.1 MEAN 15.7 MAX 177 MIN 3.7 CFSM 1.63 IN 22.21

STREAMS TRIBUTARY TO LAKE ONTARIO

419

04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE, NY

LOCATION.--Lat 43°03'22", long 76°11'07", Onondaga County, Hydrologic Unit 04140201, on left bank 250 ft (76 m) downstream from culvert on Hiawatha Boulevard, in Syracuse, and 3,000 ft (914 m) upstream from mouth.

DRAINAGE AREA.--11.3 mi² (29.3 km²).

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 365.86 ft (111.514 m) above mean sea level.

REMARKS.--Records poor. Flow includes some sewage and storm sewer inflow, some originating outside the basin.

AVERAGE DISCHARGE.--6 years, 18.2 ft³/s (0.515 m³/s), 21.87 in/yr (555 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 824 ft³/s (23.3 m³/s) July 3, 1974, gage height, 7.91 ft (2.411 m), from rating curve extended above 160 ft³/s (4.53 m³/s) on basis of step-backwater computations; maximum gage height, 8.15 ft (2.484 m) Sept. 26, 1975 (backwater from Onondaga Lake); minimum discharge, 1.0 ft³/s (0.028 m³/s) June 25, 1971; minimum gage height, 0.34 ft (0.104 m) Sept. 20, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 290 ft³/s or 8.21 m³/s (revised) and maximum (*).

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 18	1315	292 8.27	4.98 1.518	Aug. 7	1730	294 8.33	4.99 1.521
Apr. 16	1100	*754 21.4	*7.59 2.313				

Minimum discharge, 2.4 ft³/s (0.07 m³/s) Aug. 7; minimum gage height, 0.34 ft (0.104 m) Sept. 20.

REVISIONS.--The peak discharges and annual maximums (*) for water years 1971-75 have been revised as shown in the following table. They supersede figures published in the reports for 1971-75.

Water year	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Water year	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
1971	Mar. 15	2200	362 10.2	5.47 1.667	1974	Apr. 4	0900	560 15.9	6.63 2.021
	July 1	1030	306 8.67	5.08 1.548		June 10	2045	346 9.80	5.36 1.634
	July 24	1145	*476 13.5	*6.17 1.881		July 3	+1100	*824 23.3	*7.91 2.411
	July 26	2030	317 8.98	5.16 1.573		July 29	+1900	408 11.6	5.76 1.756
1972	Mar. 2	1730	323 9.15	5.20 1.585		Aug. 4	0600	315 8.92	5.14 1.567
	Mar. 22	1700	298 8.44	5.02 1.530	1975	July 12	2345	372 10.5	5.53 1.686
	June 15	1800	424 12.0	5.86 1.786		July 19	2115	624 17.7	6.96 2.121
	June 21	2000	*544 15.4	*6.55 1.996		July 20	2130	565 16.0	6.66 2.030
	June 23	0400	444 12.6	5.98 1.823		July 24	1745	*634 18.0	7.01 2.137
1973	Apr. 4	2400	336 9.52	5.29 1.612		Aug. 26	1930	320 9.06	5.22 1.591
	July 4	2130	*360 10.2	*5.45 1.661		Sept. 12	0415	479 13.6	6.19 1.887
						Sept. 26	1330	472 13.4	*8.15 2.484

† About.

‡ Backwater from Onondaga Lake.

STREAMS TRIBUTARY TO LAKE ONTARIO

04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE NY --Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	8.2	10	13	19	38	48	35	16	8.8	11	11
2	36	8.5	5.7	11	17	36	25	45	14	7.1	6.5	5.4
3	29	8.8	5.4	11	16	85	21	32	13	8.5	5.1	4.6
4	25	13	4.8	10	15	110	19	27	12	6.2	5.1	5.1
5	23	8.2	5.1	9.3	13	69	18	25	12	6.0	5.1	4.8
6	23	7.6	15	8.8	13	54	16	24	16	7.4	9.6	4.8
7	21	7.4	9.6	9.0	13	51	15	27	13	7.1	34	5.1
8	18	12	7.1	9.0	12	46	14	23	10	21	23	5.4
9	17	6.5	13	8.2	12	38	13	21	9.6	10	9.6	5.1
10	14	8.8	27	7.9	13	35	13	20	15	6.0	7.1	17
11	16	6.8	13	7.6	21	34	13	27	9.6	6.0	6.8	5.1
12	9.9	12	11	7.6	18	30	12	25	8.2	14	6.8	5.4
13	16	13	10	9.0	22	32	11	20	7.6	22	16	5.7
14	11	15	14	16	23	30	11	25	16	14	8.5	5.4
15	13	9.9	15	9.3	22	27	16	21	13	8.5	6.5	5.4
16	10	10	13	8.8	46	24	408	19	19	10	6.2	9.0
17	10	9.0	11	8.2	94	21	39	16	12	7.4	6.2	11
18	46	9.6	10	7.4	161	20	33	26	7.9	6.2	6.0	11
19	21	7.4	9.0	7.6	85	31	30	37	14	6.2	6.2	5.4
20	25	7.1	7.9	6.8	56	44	24	126	33	6.0	6.5	5.4
21	18	16	7.6	6.8	54	45	22	34	14	7.4	6.8	6.0
22	15	8.5	7.4	6.5	100	33	24	27	9.3	6.0	5.4	5.5
23	14	6.8	7.4	6.2	50	27	22	25	8.2	7.6	5.4	6.0
24	13	6.5	6.8	6.2	42	24	19	24	13	8.8	5.1	4.3
25	12	6.2	6.2	6.0	40	23	68	23	10	8.5	5.4	4.6
26	12	5.7	9.3	23	37	20	64	22	7.4	8.5	5.4	11
27	11	8.5	8.2	51	36	23	47	19	7.6	8.5	5.7	8.5
28	10	5.7	7.4	24	32	19	23	18	7.6	8.5	6.2	5.4
29	9.3	5.4	7.4	20	32	17	38	17	7.4	19	5.7	5.1
30	8.5	6.5	16	19	---	16	31	19	17	5.1	4.6	5.4
31	8.5	---	17	17	---	18	---	15	---	9.3	5.4	---
TOTAL	552.2	264.6	317.3	371.2	1114	1120	1157	864	372.4	285.6	252.9	198.9
MEAN	17.8	8.82	10.2	12.0	38.4	36.1	38.6	27.9	12.4	9.21	8.16	6.63
MAX	46	16	27	51	161	110	408	126	33	22	34	17
MIN	8.5	5.4	4.8	6.0	12	16	11	15	7.4	5.1	4.6	4.3
CFSM	1.58	.78	.90	1.06	3.40	3.19	3.42	2.47	1.10	.82	.72	.59
IN.	1.82	.87	1.04	1.22	3.67	3.69	3.81	2.84	1.23	.94	.83	.65
CAL YR 1975	TOTAL	5441.7	MEAN 14.9	MAX 320	MIN 2.8	CFSM 1.32	IN 17.91					
WTR YR 1976	TOTAL	6870.1	MEAN 18.8	MAX 408	MIN 4.3	CFSM 1.66	IN 22.61					

STREAMS TRIBUTARY TO LAKE ONTARIO

421

04240120 LEY CREEK AT PARK STREET, SYRACUSE, NY

LOCATION.--Lat 43°04'38", long 76°10'14", Onondaga County, Hydrologic Unit 04140201, on left bank 0.2 mi (0.3 km) upstream from bridge on Park Street, and 0.4 mi (0.6 km) upstream from mouth.

DRAINAGE AREA.--29.9 mi² (77.4 km²).

PERIOD OF RECORD.--Occasional measurements water years 1959-72. December 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 362.84 ft (110.594 m) above mean sea level.

REMARKS.--Records poor. Temporary channel storage intermittently results from backwater caused by Onondaga Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,310 ft³/s or 37.1 m³/s (revised) Sept. 26, 1975, gage height, 6.17 ft (1.881 m), from rating curve extended above 530 ft³/s (15.0 m³/s); minimum daily, 5.6 ft³/s (0.16 m³/s) Oct. 9, 1975, backwater from Onondaga Lake; minimum gage height, 0.64 ft (0.195 m) June 13, 14, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft³/s or 12.7 m³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 18	1800	672 19.0	3.97 1.210	Apr. 1	1030	460 13.0	3.31 1.009
Mar. 7, 8	1730 to 0600	(a)	*5.14 1.567	Apr. 16	1000	*810 22.9	4.46 1.359
				May 20	0830	618 17.5	3.69 1.125

a Backwater from Onondaga Lake.

Minimum daily discharge, 5.6 ft³/s (0.16 m³/s) Oct. 9, backwater from Onondaga Lake; minimum gage height, 0.64 ft (0.195 m) June 13, 14.

REVISIONS.--The maximum discharge for water year 1975 has been revised to 1,310 ft³/s (37.1 m³/s) Sept. 26, 1975, gage height, 6.17 ft (1.881 m), from rating curve extended above 530 ft³/s (15.0 m³/s), superseding figure published in the report for 1975.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FFB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	18	67	76	63	17	322	34	29	53	80	26
2	44	17	42	52	54	12	151	131	19	24	33	34
3	39	19	35	44	48	12	85	74	19	24	17	19
4	35	44	28	39	42	157	60	51	19	26	15	16
5	24	44	27	37	37	250	59	37	21	17	13	16
6	20	35	45	37	32	195	33	24	20	18	63	14
7	12	20	52	31	27	195	24	53	49	30	101	14
8	9.8	34	31	29	26	220	17	43	19	35	215	14
9	5.6	31	35	28	25	143	8.0	27	15	63	135	14
10	5.9	33	76	26	29	101	12	25	14	70	60	67
11	15	31	46	26	103	107	33	42	16	59	35	31
12	10	56	40	24	75	54	22	67	12	115	24	24
13	18	149	35	24	133	49	19	36	11	127	36	18
14	43	119	34	23	121	32	18	33	12	85	53	17
15	38	77	37	22	107	24	20	117	52	57	29	16
16	54	57	48	22	216	16	602	50	38	64	23	21
17	33	41	36	21	299	12	173	41	86	51	17	42
18	290	33	30	21	458	22	34	109	24	41	15	43
19	157	28	26	20	441	41	30	123	19	34	14	33
20	153	25	25	21	318	111	28	510	262	28	14	21
21	81	71	27	21	262	83	26	238	131	34	14	21
22	42	54	27	22	218	105	25	177	60	26	14	17
23	35	38	25	23	157	90	24	171	105	23	14	19
24	31	30	25	27	107	81	23	153	121	23	15	18
25	29	26	24	40	70	52	185	119	167	20	15	15
26	21	24	31	110	48	45	308	99	62	18	16	27
27	27	36	46	190	46	18	205	67	38	19	16	80
28	24	32	41	86	41	60	80	41	30	20	169	38
29	22	27	38	67	24	27	44	31	24	72	107	27
30	21	44	42	60	---	23	46	15	54	51	51	22
31	19	---	98	59	---	14	---	12	---	29	24	---
TOTAL	1407.3	1293	1219	1328	3627	2368	2716.0	2750	1548	1356	1447	784
MEAN	45.4	43.1	39.3	42.8	125	76.4	90.5	88.7	51.6	43.7	46.7	26.1
MAX	290	149	98	190	458	250	602	510	262	127	215	80
MIN	5.6	17	24	20	24	12	8.0	12	11	17	13	14
CFSM	1.52	1.44	1.31	1.43	4.18	2.56	3.03	2.97	1.73	1.46	1.56	.87
IN.	1.75	1.61	1.52	1.65	4.51	2.95	3.38	3.42	1.93	1.69	1.80	.98

CAL YR 1975	TOTAL	18824.3	MEAN	51.6	MAX	831	MIN	5.6	CFSM	1.73	IN	23.42
WTR YR 1976	TOTAL	21843.3	MEAN	59.7	MAX	602	MIN	5.6	CFSM	2.00	IN	27.18

STREAMS TRIBUTARY TO LAKE ONTARIO

04240180 NINEMILE CREEK NEAR MARIETTA, NY

LOCATION.--Lat 42°55'15", long 76°19'47", Onondaga County, Hydrologic Unit 04140201, on right bank 25 ft (8 m) upstream from bridge on Schuyler Road, 0.9 mi (1.4 km) north of Marietta, and 1.8 mi (2.9 km) downstream from Otisco Lake.

DRAINAGE AREA.--45.5 mi² (118 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955, 1963. June 1964 to current year.

REVISED RECORDS.--WRD NY 1971: 1966(M), 1968, 1969.

GAGE.--Water-stage recorder. Altitude of gage is 760 ft (232 m), from topographic map.

REMARKS.--Records fair. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

AVERAGE DISCHARGE.--12 years, 41.6 ft³/s (1.178 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft³/s (29.2 m³/s) June 23, 1972, gage height, 8.65 ft (2.637 m); minimum, 0.80 ft³/s (0.023 m³/s) Sept. 13, 18, 19, 1966; minimum daily, 0.80 ft³/s (0.023 m³/s) Sept. 13, 18, 19, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 492 ft³/s (13.9 m³/s) Apr. 16, gage height, 6.16 ft (1.878 m); minimum 7.6 ft³/s (0.22 m³/s) Sept. 9, gage height, 1.07 ft (0.326 m); minimum daily, 9.8 ft³/s (0.28 m³/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	64	49	45	73	194	85	222	82	49	35	23
2	117	64	46	44	74	222	84	226	79	43	26	24
3	126	64	45	44	72	360	82	205	74	39	26	23
4	110	66	44	44	72	372	78	182	69	35	26	25
5	99	64	45	44	71	369	74	168	64	32	26	24
6	89	63	52	44	71	343	59	140	61	29	27	22
7	81	62	47	43	71	308	45	131	63	28	33	22
8	75	63	45	44	71	274	43	120	45	30	31	23
9	73	62	49	45	71	244	41	109	27	27	29	14
10	72	64	58	43	71	213	38	99	27	25	28	9.8
11	70	62	49	43	75	189	37	96	26	25	27	11
12	69	64	47	43	82	175	35	100	27	29	26	24
13	69	66	47	55	100	163	26	93	27	46	25	32
14	68	67	49	71	99	153	15	90	26	59	26	33
15	68	65	49	68	99	145	22	87	33	63	26	33
16	70	65	48	68	109	117	298	83	33	65	25	35
17	69	64	46	68	144	71	269	78	32	65	25	36
18	84	63	45	85	149	53	252	79	27	58	24	36
19	74	62	44	70	139	59	246	87	26	52	24	36
20	74	62	44	68	114	65	222	200	36	47	24	36
21	71	66	44	68	113	76	192	186	46	48	23	36
22	70	63	44	69	155	79	171	176	49	43	23	36
23	70	62	44	80	126	80	150	160	47	39	23	36
24	68	54	44	70	131	82	134	144	45	34	22	36
25	67	46	44	70	137	78	172	132	45	30	23	36
26	66	46	46	75	145	75	230	126	40	28	22	38
27	65	47	46	94	163	80	252	118	38	26	22	42
28	65	46	44	77	167	74	266	107	34	26	22	40
29	64	45	44	75	168	72	266	97	32	28	21	40
30	64	45	45	74	---	70	244	90	36	27	22	42
31	64	---	47	72	---	69	---	86	---	28	22	---
TOTAL	2385	1796	1440	1903	3132	4924	4128	4017	1296	1203	784	903.8
MEAN	76.9	59.9	46.5	61.4	108	159	138	130	43.2	38.8	25.3	30.1
MAX	126	67	58	94	168	372	298	226	82	65	35	42
MIN	64	45	44	43	71	53	15	78	26	25	21	9.8
CAL YR 1975	TOTAL	18438.0	MEAN	50.5	MAX	181	MIN	2.3				
WTR YR 1976	TOTAL	27911.8	MEAN	76.3	MAX	372	MIN	9.8				

STREAMS TRIBUTARY TO LAKE ONTARIO

423

04240200 NINEMILE CREEK AT CAMILLUS, NY

LOCATION.--Lat 43°02'21", long 76°18'30", Onondaga County, Hydrologic Unit 04140201, on right bank 150 ft (46 m) downstream from highway bridge on State Highway 5 (Main Street) in Camillus, and 7.2 mi (11.6 km) upstream from Onondaga Lake.

DRAINAGE AREA.--84.3 mi² (218 km²).

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 398.56 ft (121.481 m) above mean sea level.

REMARKS.--Records fair. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

AVERAGE DISCHARGE.--18 years, 113 ft³/s (3.200 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,760 ft³/s (78.2 m³/s) Mar. 30, 1960, gage height, 8.25 ft (2.515 m); maximum gage height, 10.83 ft (3.301 m) Sept. 26, 1975; minimum discharge, 16 ft³/s (0.45 m³/s) Sept. 30, Oct. 1, 2, 1961; minimum gage height, 1.13 ft (0.344 m) Dec. 10, 1964, Jan. 7, 18, 19, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,600 ft³/s (45.3 m³/s) Apr. 16, gage height, 8.48 ft (2.585 m); minimum, 57 ft³/s (1.61 m³/s) Sept. 30, gage height, 1.14 ft (0.347 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FFB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	127	135	146	179	418	327	387	187	105	127	65
2	214	127	125	127	158	428	278	435	177	94	81	66
3	229	129	118	129	155	807	221	379	164	88	72	62
4	205	146	115	123	155	937	199	331	154	84	69	61
5	184	140	114	118	145	775	180	298	145	78	69	62
6	170	132	140	115	142	685	165	269	139	74	71	61
7	154	129	177	121	139	612	133	268	161	73	93	60
8	145	133	127	118	140	557	127	250	135	86	115	60
9	140	141	135	112	138	503	123	222	99	90	88	59
10	138	138	280	113	139	463	119	204	95	74	78	59
11	137	139	194	113	190	409	122	201	93	73	73	69
12	138	138	149	115	179	355	117	250	90	92	70	65
13	136	210	138	117	214	362	113	207	89	147	73	62
14	137	197	164	172	232	325	99	194	92	164	94	62
15	134	173	158	153	202	313	109	203	119	123	78	62
16	142	171	171	147	313	287	1020	183	99	113	74	62
17	136	157	139	138	625	208	519	175	144	112	69	67
18	261	146	132	122	719	159	411	195	101	99	66	67
19	205	141	119	131	717	188	379	219	90	91	66	66
20	185	137	115	132	414	307	350	725	133	85	66	62
21	176	157	122	133	320	289	306	430	147	90	65	62
22	154	158	122	130	593	313	287	337	138	85	65	62
23	145	138	122	123	416	232	268	300	121	80	65	61
24	140	133	116	129	328	221	237	270	108	79	64	60
25	137	120	115	129	344	214	327	250	111	75	64	59
26	136	118	130	164	346	198	563	250	101	70	64	62
27	134	123	141	471	382	190	547	247	96	70	64	70
28	133	122	130	328	353	204	555	211	90	69	66	63
29	132	117	124	232	323	177	511	198	90	75	66	58
30	130	117	129	198	---	169	437	190	85	81	63	58
31	129	---	164	173	---	167	---	190	---	75	63	---
TOTAL	4924	4254	4360	4772	8700	11472	9149	8468	3593	2794	2301	1874
MEAN	159	142	141	154	300	370	305	273	120	90.1	74.2	62.5
MAX	261	210	280	471	719	937	1020	725	187	164	127	70
MIN	129	117	114	112	138	159	99	175	85	69	63	58
CAL YR 1975 TOTAL	52485		MEAN 144	MAX 1340	MIN 39							
WTR YR 1976 TOTAL	66661		MEAN 182	MAX 1020	MIN 58							

STREAMS TRIBUTARY TO LAKE ONTARIO

04240300 NINEMILE CREEK AT LAKELAND, NY

LOCATION.--Lat 43°04'51", long 76°13'36", Onondaga County, Hydrologic Unit 04140201, on left bank 30 ft (9 m) downstream from bridge on State Highway 48, 0.6 mi (1.0 km) downstream from Geddes Brook, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--115 mi² (298 km²).

PERIOD OF RECORD.--Occasional measurements, water years 1959-70. November 1970 to September 1973, July 1975 to current year.

GAGE.--Water-stage recorder. Datum of gage is 360.67 ft (109.93 m) above mean sea level.

REMARKS.--Records poor. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,410 ft³/s (68.3 m³/s) Sept. 26, 1975, gage height, 8.75 ft (2.667 m); minimum daily, 68 ft³/s (1.93 m³/s) Oct. 23, Nov. 1, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,850 ft³/s (52.4 m³/s) Apr. 16; maximum gage height, 7.32 ft (2.231 m) Mar. 8; minimum daily discharge, 88 ft³/s (2.492 m³/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	190	237	310	305	318	488	485	221	194	198	128
2	239	206	237	264	305	343	466	545	237	194	156	139
3	212	214	223	266	282	449	391	514	241	181	128	141
4	188	246	212	249	271	890	371	452	259	175	128	111
5	153	239	210	246	264	990	334	426	261	156	123	117
6	158	219	264	217	259	956	300	445	249	146	142	117
7	125	217	331	230	246	682	271	429	269	146	179	111
8	119	223	261	225	239	928	266	388	237	175	212	111
9	117	228	239	196	237	852	271	331	200	192	167	110
10	116	221	410	188	232	776	287	310	175	164	144	126
11	120	221	379	179	313	710	271	287	173	158	141	106
12	119	234	297	177	321	621	241	345	171	158	136	103
13	134	334	266	198	359	561	204	315	175	226	126	102
14	139	334	276	289	385	570	175	297	177	151	149	100
15	179	307	284	289	343	526	189	348	217	215	141	123
16	230	289	304	266	459	470	1850	294	187	202	125	110
17	223	269	284	261	781	423	1380	276	271	200	111	110
18	491	256	256	225	973	368	701	318	226	173	100	100
19	419	249	271	228	962	359	485	359	187	168	119	100
20	302	242	239	244	522	449	423	1090	244	164	113	100
21	232	261	223	251	410	456	496	591	294	164	110	98
22	212	281	204	244	526	496	442	259	269	154	104	98
23	212	256	202	196	566	445	397	221	217	129	103	96
24	223	249	210	208	436	423	289	221	210	142	126	94
25	155	225	208	210	420	388	413	208	185	122	120	90
26	196	210	242	276	391	388	912	200	194	123	123	92
27	228	198	261	577	373	302	858	202	173	133	111	100
28	206	190	254	518	354	337	816	173	187	131	126	94
29	228	194	242	400	310	282	651	179	190	144	142	88
30	228	208	264	365	---	313	582	185	181	149	142	88
31	225	---	329	315	---	300	---	198	---	144	134	---
TOTAL	6392	7210	8119	8307	11844	16371	15220	10891	6477	5073	4179	3203
MEAN	206	240	262	268	408	528	507	351	216	164	135	107
MAX	491	334	410	577	973	990	1850	1090	294	226	212	141
MIN	116	190	202	177	232	282	175	173	171	122	100	88
WTR YR 1976	TOTAL	103286	MEAN	282	MAX	1850	MIN	88				

STREAMS TRIBUTARY TO LAKE ONTARIO

425

04240495 ONONDAGA LAKE AT LIVERPOOL, NY

LOCATION.--Lat 43°06'01", long 76°12'34", Onondaga County, Hydrologic Unit 04140201, on north shore of Onondaga Lake at Onondaga Park Marina basin, 200 ft (61 m) southwest of Onondaga Lake Parkway, and 1.9 mi (3.1 km) upstream from outlet of lake.

DRAINAGE AREA.--285 mi² (738 km²).

PERIOD OF RECORD.--October 1970 to current year. Elevation records, at Barge Canal datum, since February 1927 collected by, and in files of, New York State Department of Transportation at Syracuse.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

REMARKS.--Lake elevation regulated by operation of Erie (Barge) Canal. Area of water surface, 4.60 mi² (11.9 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 369.21 ft (112.535 m) June 30, 1972; minimum, 362.02 ft (110.344 m) June 16, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 367.84 ft (112.118 m) March 7; minimum, 362.10 ft (110.368 m) Sept. 29.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	366.62	363.24	363.15	363.38	363.72	366.38	365.56	365.60	364.27	363.35	363.14	362.69
2	366.43	363.19	363.17	363.33	363.72	366.31	365.79	365.63	364.15	363.28	362.89	362.77
3	366.20	363.19	363.21	363.35	363.45	366.33	365.82	365.53	363.99	363.10	363.04	362.80
4	365.95	363.19	363.18	363.35	363.43	366.82	365.78	365.35	363.83	363.02	363.12	362.88
5	365.69	363.19	363.20	363.27	363.43	367.42	365.65	365.04	363.57	362.96	363.09	362.95
6	365.45	363.19	363.27	363.17	363.38	367.73	365.48	364.58	363.40	362.87	362.96	362.87
7	365.23	363.19	363.45	363.16	363.29	367.82	365.27	364.11	363.27	362.85	362.93	362.75
8	364.99	363.14	363.37	363.11	363.19	367.79	364.98	363.67	363.06	362.99	363.10	362.71
9	364.76	363.09	363.09	363.01	363.14	367.64	364.57	363.34	362.94	363.07	363.19	362.70
10	364.56	363.09	363.26	362.80	363.11	367.44	364.09	363.39	362.79	362.99	363.39	362.69
11	364.39	363.07	363.48	362.60	363.21	367.22	363.67	363.11	362.91	362.83	363.65	362.57
12	364.25	363.07	363.42	362.64	363.36	366.92	363.32	363.25	362.85	362.72	363.53	362.56
13	364.11	363.34	363.32	363.10	363.48	366.74	363.03	363.28	363.07	363.03	363.52	362.54
14	364.05	363.53	363.22	363.38	363.78	366.57	362.82	363.29	363.02	363.34	363.34	362.54
15	363.75	363.59	363.16	363.34	363.96	366.36	362.86	363.45	363.08	363.69	362.95	362.78
16	363.44	363.57	363.22	363.29	364.28	366.15	364.18	363.23	362.95	363.89	362.95	362.60
17	363.44	363.52	363.29	363.21	364.91	365.97	365.30	363.12	363.38	363.90	362.81	362.97
18	363.69	363.46	363.41	363.15	365.52	365.77	365.60	363.39	363.30	363.75	362.99	362.61
19	363.94	363.38	363.31	363.14	366.38	365.64	365.64	363.68	362.98	363.56	362.88	362.52
20	364.09	363.28	363.15	363.15	366.77	365.74	365.40	364.46	363.10	363.22	362.64	362.90
21	364.19	363.28	362.92	363.10	366.85	365.94	364.70	365.28	363.42	363.48	362.70	363.18
22	364.19	363.39	362.72	362.94	367.12	366.11	364.10	365.63	363.43	362.95	362.77	362.65
23	364.09	363.38	362.61	362.58	367.33	366.06	363.60	365.80	363.74	362.61	362.79	362.67
24	363.94	363.34	362.87	362.58	367.16	365.96	363.70	365.84	363.77	362.75	362.74	362.70
25	363.84	363.26	363.05	362.62	366.97	365.87	363.85	365.73	363.81	362.47	362.93	362.72
26	363.64	363.02	363.22	362.67	366.84	365.74	364.00	365.47	363.72	362.98	362.92	362.76
27	363.59	362.75	363.30	363.11	366.75	365.69	364.60	365.23	363.68	363.12	362.67	362.86
28	363.59	362.63	363.33	363.42	366.64	365.58	365.10	365.03	363.61	362.90	362.70	362.43
29	363.14	362.90	363.34	363.45	366.47	365.52	365.50	364.79	363.46	362.82	362.81	362.23
30	363.44	363.05	363.40	363.57	---	365.40	365.60	364.59	363.30	362.88	362.77	362.61
31	363.29	---	363.39	363.66	---	365.28	---	364.41	---	362.98	362.77	---
MEAN	364.39	363.22	363.21	363.12	364.88	366.38	364.65	364.46	363.40	363.11	362.99	362.71
MAX	366.62	363.59	363.48	363.66	367.33	367.82	365.82	365.84	364.27	363.90	363.65	363.18
MIN	363.14	362.63	362.61	362.58	363.11	365.28	362.82	363.11	362.79	362.47	362.64	362.23

CAL YR 1975 MEAN 363.31 MAX 366.92 MIN 362.39
WTR YR 1976 MEAN 363.87 MAX 367.82 MIN 362.23

STREAMS TRIBUTARY TO LAKE ONTARIO

04242500 EAST BRANCH FISH CREEK AT TABERG, NY

LOCATION.--Lat 43°18'06", long 75°37'09", Oneida County, Hydrologic Unit 04140202, on left bank at downstream side of bridge on Main Street at Taberg, just downstream from Furnace Creek, 300 ft (91 m) upstream from bridge on State Highway 69, and 2.8 mi (4.5 km) upstream from confluence of East and West Branches near Blossvale.

DRAINAGE AREA.--188 mi² (487 km²).

PERIOD OF RECORD.--April 1923 to current year.

REVISED RECORDS.--WSP 604: 1924. WSP 759: Drainage area. WSP 1034: 1944. WSP 1054: 1923-45.

GAGE.--Water-stage recorder. Datum of gage is 490.12 ft (149.389 m) above mean sea level. Prior to May 20, 1969, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair. Diversion above station for municipal supply by cities of Rome and Oneida. Diurnal fluctuation at low flow caused by diversion and small power operations upstream.

AVERAGE DISCHARGE.--53 years, 539 ft³/s (15.26 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,500 ft³/s (411 m³/s) June 22, 1972, gage height, 11.71 ft (3.569 m); minimum, 4.9 ft³/s (0.14 m³/s) Aug. 15, 16, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,900 ft³/s (140 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 28	0.415	5,900 167	6.93 2.112	Apr. 1	0900	*9,390 266	*8.62 2.627

Minimum discharge, 20 ft³/s (0.57 m³/s) July 26, gage heights, 0.64 ft (0.195 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	572	234	1500	230	400	1600	7720	646	422	593	240	139
2	629	405	1300	210	360	1200	3960	1110	376	431	243	206
3	577	624	825	210	330	1020	2200	959	299	449	153	169
4	467	1600	582	200	310	1060	1570	786	253	392	109	117
5	401	1370	485	200	290	1550	1390	640	218	278	87	106
6	360	760	1040	180	270	1930	1460	542	206	209	106	113
7	316	562	1440	180	260	1480	1590	940	337	166	130	91
8	281	593	786	190	250	1000	1450	1180	292	368	392	84
9	278	651	635	190	240	760	1090	760	215	392	953	73
10	243	934	1130	180	230	680	1060	577	182	237	552	495
11	281	2110	1040	180	230	560	1530	509	191	206	323	646
12	481	1220	681	180	230	460	1120	792	161	426	221	444
13	481	2040	572	180	240	430	890	657	130	409	629	295
14	805	1440	562	180	250	420	972	572	139	368	698	209
15	646	959	1010	190	240	380	1330	1250	418	309	504	148
16	557	766	1660	190	250	380	2080	766	306	435	711	122
17	476	657	857	170	450	360	2110	619	603	779	426	182
18	1130	587	420	170	700	380	2100	608	331	413	274	253
19	1450	542	280	170	900	480	1660	934	215	260	188	227
20	1680	490	230	200	860	812	1280	3150	587	188	143	161
21	1060	760	250	190	720	2190	900	2140	870	171	115	161
22	717	1010	260	180	800	2750	915	1140	582	158	100	163
23	557	729	250	170	1650	2150	1300	838	405	126	84	230
24	458	582	240	170	1500	1870	890	646	334	124	70	405
25	401	485	230	170	1260	2110	1070	547	896	119	60	271
26	392	449	260	200	1180	2460	1870	927	965	91	54	247
27	365	467	320	280	1470	3010	1360	1260	896	81	53	1240
28	364	619	300	500	1550	4910	1080	711	603	84	117	909
29	316	542	290	490	1270	2910	953	513	372	86	320	467
30	278	513	280	470	---	2240	747	431	471	234	285	320
31	250	---	270	430	---	2690	---	380	---	218	180	---
TOTAL	17269	24700	19985	7030	18690	46232	49656	27530	12275	8800	8520	8693
MEAN	557	823	645	227	644	1491	1655	888	409	284	275	290
MAX	1680	2110	1660	500	1650	4910	7720	3150	965	779	953	1240
MIN	243	234	230	170	230	360	747	380	130	81	53	73
†	25.6	26.3	25.6	26.3	26.3	26.9	24.5	23.5	26.0	25.1	26.4	26.2

CAL YR 1975 TOTAL 223605 MEAN 613 MAX 7880 MIN 22 † 25.9
WTR YR 1976 TOTAL 249380 MEAN 681 MAX 7720 MIN 53 † 25.7

† Diversion, in cubic feet per second, by cities of Rome and Oneida for water supply.
(Data supplied by respective cities.)

STREAMS TRIBUTARY TO LAKE ONTARIO

427

04243500 ONEIDA CREEK AT ONEIDA, NY

LOCATION.--Lat 43°05'51", long 75°38'22", Oneida County, Hydrologic Unit 04140202, on right bank 70 ft (21 m) upstream from bridge on Sconondoa Street at Oneida, and 500 ft (152 m) downstream from Sconondoa Creek.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 409.33 ft (124.764 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records good except those for winter periods and those above 300 ft³/s (8.50 m³/s), which are fair. Occasional regulation by small mills upstream from station.

AVERAGE DISCHARGE.--27 years, 161 ft³/s (4.560 m³/s), 19.35 in/yr (491 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,260 ft³/s (262 m³/s) June 22, 1972, gage height, 14.61 ft (4.453 m); minimum, 12 ft³/s (0.34 m³/s) Aug. 5, 6, 1962, Oct. 28, 1964; minimum gage height, 1.30 ft (0.396 m) Aug. 3, 6, 1955, Aug. 17, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1936, reached a stage of 373.5 ft (113.84 m) above mean sea level, from Corps of Engineers report "Flood Plain Information, Oneida Creek, New York."

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (53.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	--	2,050 58.1	ice jam	May 20	1100	3,160 89.5	9.83 2.996
Feb. 19	0845	3,100 87.8	9.75 2.972	June 23	1400	2,200 62.3	8.09 2.466
Mar. 5	0530	1,960 55.5	7.53 2.295	Aug. 29	0030	*4,110 116	*11.13 3.392
Apr. 16	1330	2,060 58.3	7.78 2.371				

Minimum discharge, 59 ft³/s (1.67 m³/s) Aug. 26, gage height, 2.01 ft (0.613 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	88	273	170	660	773	876	310	262	516	300	211
2	216	86	203	140	500	507	461	395	245	214	184	269
3	176	89	169	150	400	534	335	360	159	176	121	179
4	131	137	150	140	320	1180	266	315	133	150	98	146
5	110	121	139	130	260	1500	214	245	119	129	86	203
6	95	98	273	120	220	719	192	200	121	113	117	155
7	84	91	317	120	200	514	174	233	531	104	135	127
8	81	106	174	120	200	380	162	217	211	111	169	113
9	75	123	164	110	210	300	152	176	146	121	384	104
10	72	111	398	110	220	280	143	159	127	96	249	174
11	74	123	269	110	230	270	155	164	176	89	197	169
12	84	113	192	120	220	230	141	343	139	374	133	125
13	84	339	169	120	220	260	135	195	111	645	127	106
14	213	303	176	150	220	250	123	169	148	869	129	96
15	112	276	208	150	250	240	121	402	465	444	159	91
16	118	283	269	140	700	200	1160	203	181	307	169	88
17	95	256	176	130	1500	180	566	176	483	293	121	176
18	525	233	150	120	1600	180	335	192	203	197	99	148
19	735	197	130	120	2290	270	242	548	148	159	86	135
20	559	174	130	130	926	755	200	2420	252	141	80	106
21	307	402	140	120	632	687	176	831	300	157	76	99
22	217	384	150	100	1370	584	179	507	409	143	72	93
23	169	239	150	92	712	395	192	367	973	123	69	91
24	143	195	130	96	514	343	162	293	402	133	67	88
25	131	174	130	110	472	290	454	252	353	113	63	82
26	121	162	190	140	517	256	940	307	236	101	62	85
27	113	249	230	1300	609	229	773	321	197	101	98	203
28	108	273	210	1300	503	303	705	214	159	101	1840	157
29	104	200	180	1000	405	226	559	179	146	113	1610	113
30	99	184	170	820	---	197	391	164	437	150	472	98
31	91	---	250	720	---	179	---	159	---	111	276	---
TOTAL	5382	5809	6059	8398	17080	13211	10684	11016	7972	6594	7848	4030
MEAN	174	194	195	271	589	426	356	355	266	213	253	134
MAX	735	402	398	1300	2290	1500	1160	2420	973	869	1840	269
MIN	72	86	130	92	200	179	121	159	111	89	62	82
CFSM	1.54	1.72	1.73	2.40	5.21	3.77	3.15	3.14	2.35	1.88	2.24	1.19
IN.	1.77	1.91	1.99	2.76	5.62	4.35	3.52	3.63	2.62	2.17	2.58	1.33

CAL YR 1975	TOTAL	68274	MEAN 187	MAX 2350	MIN 21	CFSM 1.65	IN 22.48
WTR YR 1976	TOTAL	104083	MEAN 284	MAX 2420	MIN 62	CFSM 2.51	IN 34.26

STREAMS TRIBUTARY TO LAKE ONTARIO

04245000 LIMESTONE CREEK AT FAYETTEVILLE, NY

LOCATION.--Lat 43°01'48", long 76°00'49", Onondaga County, Hydrologic Unit 04140202, on left bank 100 ft (30 m) downstream from bridge on Genesee Street at Fayetteville, and 8 mi (13 km) upstream from mouth.

DRAINAGE AREA.--85.5 mi² (221 km²), not including 14.0 mi² (36.3 km²) of Middle Branch Tioughnioga Creek basin, flow from which may be completely diverted into Limestone Creek basin through DeRuyter Reservoir, and 0.8 mi² (2.07 km²) in closed basin.

PERIOD OF RECORD.--November 1939 to current year.

REVISED RECORDS.--WSP 954: 1941. WSP 1912: 1958(M).

GAGE.--Water-stage recorder. Datum of gage is 427.73 ft (130.372 m) above mean sea level.

REMARKS.--Records fair. Canal diverts water from Limestone Creek about 3 mi (5 km) above station and returns water to creek about 400 ft (122 m) above station. Flow regulated by DeRuyter Reservoir.

AVERAGE DISCHARGE.--36 years (1940-76), 141 ft³/s (3.993 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,010 ft³/s (199 m³/s) Mar. 28, 1950, gage height, 7.78 ft (2.371 m), from rating curve extended above 3,500 ft³/s (99.1 m³/s); maximum gage height, 8.66 ft (2.640 m) July 3, 1974; minimum discharge, 1.4 ft³/s (0.040 m³/s) Aug. 19, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 19	0400	1,750 49.6	5.31 1.618	June 23	1100	2,320 65.7	5.99 1.826
Apr. 16	0730	*3,120 88.4	*6.88 2.097				

Minimum discharge, 50 ft³/s (1.42 m³/s) Sept. 9, 10, 15, 16, gage height, 1.69 ft (0.515 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	202	102	163	158	180	660	396	273	182	456	336	67
2	256	100	137	105	160	468	304	404	190	207	156	88
3	223	105	120	127	150	1020	228	304	127	171	103	67
4	172	161	109	118	140	1070	201	259	107	149	88	62
5	158	134	105	98	130	797	179	216	98	125	80	84
6	142	109	184	100	120	552	166	190	96	111	78	65
7	135	102	225	105	120	392	156	219	195	105	103	60
8	128	116	132	100	110	332	146	204	116	111	219	55
9	122	122	142	94	110	273	139	171	94	134	400	52
10	120	137	364	88	100	230	134	154	84	96	187	112
11	120	173	219	84	100	200	139	156	84	86	151	103
12	142	137	166	84	100	190	132	266	76	179	120	71
13	128	252	151	82	100	180	127	176	71	311	118	60
14	181	216	156	113	140	170	118	154	69	452	132	54
15	138	201	166	113	184	160	116	216	127	247	201	52
16	155	225	204	98	456	160	2030	161	100	181	168	52
17	132	231	146	92	1100	173	655	149	173	198	122	88
18	367	184	137	137	1310	182	311	171	98	139	103	149
19	311	156	102	166	1470	231	243	252	78	118	92	137
20	329	142	102	96	692	575	207	1090	252	105	86	90
21	259	266	111	74	412	570	184	625	231	132	78	84
22	198	283	113	72	1010	476	204	322	146	116	74	78
23	168	176	111	70	655	301	210	259	823	94	69	74
24	151	154	100	68	372	276	173	225	472	100	67	74
25	144	142	96	68	368	234	404	228	250	88	62	69
26	134	134	118	96	404	213	808	255	190	76	60	71
27	125	156	216	605	516	195	640	276	173	71	62	151
28	120	166	166	440	400	246	630	190	137	71	71	116
29	116	134	132	322	304	198	516	163	132	73	122	88
30	111	125	132	252	---	182	336	156	304	107	78	80
31	105	---	190	201	---	168	---	176	---	98	65	---
TOTAL	5292	4841	4715	4426	11413	11074	10232	8060	5275	4707	3851	2453
MEAN	171	161	152	143	394	357	341	260	176	152	124	81.8
MAX	367	283	364	605	1470	1070	2030	1090	823	456	400	151
MIN	105	100	96	68	100	160	116	149	69	71	60	52
CAL YR 1975	TOTAL	56382	MEAN	154	MAX	2060	MIN	23				
WTR YR 1976	TOTAL	76339	MEAN	209	MAX	2030	MIN	52				

STREAMS TRIBUTARY TO LAKE ONTARIO

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04245200 BUTTERNUT CREEK NEAR JAMESVILLE, NY

LOCATION.--Lat 42°56'02", long 76°03'44", Onondaga County, Hydrologic Unit 04140202, on left bank 15 ft (5 m) downstream from bridge on Walberger Road, 125 ft (38 m) downstream from tributary from Stebbins Gulf, 2.2 mi (3.5 km) upstream from Jamesville Reservoir, and 4 mi (6 km) south of Jamesville.

DRAINAGE AREA.--32.2 mi² (83.4 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955-58. July 1958 to current year.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 717.93 ft (218.825 m) above mean sea level.

REMARKS.--Records fair except those above 500 ft³/s (14.2 m³/s) and those for winter period, which are poor.

AVERAGE DISCHARGE.--18 years, 50.2 ft³/s (1.422 m³/s), 21.17 in/yr (538 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,820 ft³/s (79.9 m³/s) July 3, 1974, gage height, 7.84 ft (2.390 m); maximum gage height, 7.92 ft (2.414 m) Jan. 27, 1976 (ice jam); minimum discharge, 2.0 ft³/s (0.057 m³/s) Sept. 27, 1959, gage height, 2.26 ft (0.689 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft³/s (15.6 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 27	2000	ice jam	*7.92 2.414	Feb. 22	1030	614 17.4	6.68 2.036
Jan. 31	2100	ice jam	7.42 2.262	Mar. 3	1000	724 20.5	6.83 2.082
Feb. 3	1300	ice jam	6.91 2.106	Apr. 16	1030	*1,440 40.8	7.52 2.292
Feb. 19	0600	657 18.6	6.74 2.054	June 23	0930	552 15.6	6.65 2.027

Minimum discharge, 15 ft³/s (0.42 m³/s) Aug. 25, Sept. 9, 10, gage height, 4.92 ft (1.500 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	38	67	44	220	237	133	118	70	117	80	22
2	77	37	54	52	200	205	100	163	63	65	42	27
3	63	38	49	42	190	541	82	120	53	57	33	20
4	53	57	46	40	150	374	78	97	46	51	29	23
5	48	42	44	50	130	272	72	85	43	47	26	28
6	44	38	74	58	120	197	69	80	45	43	26	20
7	41	36	69	52	110	148	66	93	66	42	48	18
8	40	41	50	45	100	123	62	80	44	49	67	17
9	38	38	57	45	90	100	60	72	38	49	75	16
10	37	52	120	43	80	90	58	67	36	38	48	57
11	39	50	77	42	74	80	62	78	36	38	39	37
12	43	48	61	42	70	74	58	99	34	80	34	27
13	41	69	58	42	66	68	56	70	32	134	36	21
14	44	70	61	57	62	64	54	66	30	198	40	19
15	38	66	66	41	76	62	68	80	57	89	39	18
16	43	72	67	38	136	66	946	63	44	75	40	19
17	37	72	54	36	446	70	288	60	56	72	32	40
18	99	68	48	41	446	76	130	73	36	56	29	39
19	85	61	47	52	535	95	103	93	33	49	25	40
20	89	57	52	54	252	136	93	335	205	48	24	28
21	77	96	52	42	186	148	84	132	97	69	23	26
22	64	84	50	39	486	129	93	99	73	52	21	23
23	56	66	47	39	252	97	82	85	166	45	20	23
24	50	60	47	40	181	92	73	78	84	45	19	22
25	49	56	61	34	174	86	215	80	78	38	18	20
26	47	54	87	50	179	79	345	91	62	34	18	23
27	44	67	75	150	216	81	246	87	63	32	18	49
28	43	61	56	350	170	86	258	69	52	29	48	33
29	42	53	44	310	142	76	223	61	58	36	50	26
30	40	52	46	270	---	73	137	63	96	48	26	23
31	38	---	54	250	---	72	---	64	---	36	21	---
TOTAL	1607	1699	1840	2490	5539	4097	4394	2901	1896	1861	1094	804
MEAN	51.8	56.6	59.4	80.3	191	132	146	93.6	63.2	60.0	35.3	26.8
MAX	99	96	120	350	535	541	946	335	205	198	80	57
MIN	37	36	44	34	62	62	54	60	30	29	18	16
CFSM	1.61	1.76	1.84	2.49	5.93	4.10	4.53	2.91	1.96	1.86	1.10	.83
IN.	1.86	1.96	2.13	2.88	6.40	4.73	5.08	3.35	2.19	2.15	1.26	.93

CAL YR 1975	TOTAL	23969.2	MEAN	65.7	MAX	1000	MIN	7.3	CFSM	2.04	IN	27.69
WTR YR 1976	TOTAL	30222.0	MEAN	82.6	MAX	946	MIN	16	CFSM	2.57	IN	34.91

STREAMS TRIBUTARY TO LAKE ONTARIO

04246000 ONEIDA LAKE AT BREWERTON, NY

LOCATION.--Lat 43°14'24", long 76°08'30", Onondaga County, Hydrologic Unit 04140202, at west end of Oneida Lake, 100 ft (30 m) west of bridge on U.S. Highway 11, at Brewerton.

DRAINAGE AREA.--1,382 mi² (3,579 km²), at dam at Caughdenoy.

PERIOD OF RECORD.--November 1951 to current year. April 1904 to September 1925 in reports of State Engineers and Surveyor, published as "Oneida River at Brewerton."

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage (revised) is at mean sea level (1.01 ft or 0.308 m, Barge Canal datum). November 1951 to September 1975, at datum 360.99 ft (110.030 m) higher.

REMARKS.--Elevation of lake surface regulated by taintor-gate dam on Oneida River at Caughdenoy and gates on Oneida Canal and Erie (Barge) Canal. Lake volume below 369 ft (112 m) elevation, 49,600 mil ft³ (1,404 hm³). Area of water surface, 79.8 mi² (207 km²); axes, 20.9 mi (33.6 km) by 5.5 mi (8.8 km); shoreline length, 54.7 mi (88.0 km)

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 372.83 ft (113.639 m) June 26, 1972; minimum daily, 366.41 ft (111.682 m) Feb. 18, 19, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1936, reached a stage of 373.5 ft (113.84 m) above mean sea level, from Corps of Engineers report "Flood Plain Information, Oneida Creek, New York."

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 371.75 ft (113.309 m) Oct. 1, stage falling, peak occurred Sept. 29, 1975; maximum peak elevation, 371.45 ft (113.218 m) Apr. 3; minimum, 367.41 ft (111.987 m) Jan. 27.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	371.65	369.33	368.99	368.17	367.86	370.27	370.94	370.33	369.93	369.72	369.83	371.04
2	371.48	369.33	369.16	368.16	367.88	370.43	371.29	370.28	369.86	369.72	369.89	370.00
3	371.32	369.34	369.06	368.15	367.93	370.43	371.38	370.14	369.77	369.76	369.92	369.99
4	371.15	369.36	369.13	368.13	367.92	370.43	371.34	370.11	369.71	369.78	369.93	369.89
5	371.03	369.47	369.09	368.10	367.92	370.60	371.19	370.13	369.67	369.80	369.90	369.73
6	370.74	369.60	368.93	368.06	367.90	370.80	371.15	370.00	369.62	369.81	369.89	369.63
7	370.61	369.61	369.04	368.01	367.90	370.91	371.02	369.91	369.61	369.81	370.08	369.55
8	370.44	369.58	369.18	367.96	367.88	370.90	370.88	369.78	369.65	369.77	370.07	369.48
9	370.40	369.64	369.21	367.93	367.85	370.85	370.75	369.84	369.63	369.79	370.05	369.49
10	370.14	369.61	368.93	367.89	367.84	370.75	370.57	369.82	369.66	369.83	369.97	369.44
11	369.96	369.57	368.94	367.88	367.79	370.62	370.41	369.78	369.58	369.79	369.94	369.43
12	369.77	369.82	369.03	367.83	367.82	370.55	370.27	369.71	369.63	369.69	369.82	369.47
13	369.70	369.76	369.14	367.81	367.82	370.40	370.18	369.80	369.74	369.73	369.73	369.49
14	369.69	369.78	368.90	367.77	367.85	370.33	370.13	369.81	369.73	369.72	369.69	369.52
15	369.73	369.84	368.82	367.76	367.90	370.23	370.04	369.88	369.85	369.76	369.60	369.53
16	369.65	369.84	368.84	367.75	367.93	370.17	370.07	370.03	369.87	369.75	369.47	369.55
17	369.66	369.88	368.88	367.70	368.11	370.06	370.17	369.93	369.92	369.66	369.52	369.67
18	369.71	369.81	368.65	367.69	368.42	369.97	370.25	369.83	369.94	369.64	369.57	369.58
19	369.97	369.78	368.76	367.66	368.80	369.88	370.24	369.66	369.92	369.64	369.59	369.57
20	369.86	369.72	368.78	367.61	369.18	369.83	370.19	370.08	369.89	369.65	369.60	369.57
21	369.85	369.66	368.63	367.58	369.43	369.89	370.15	370.48	370.01	369.63	369.62	369.55
22	369.85	369.53	368.56	367.56	369.62	370.10	370.06	370.59	370.01	369.69	369.64	369.45
23	369.86	369.62	368.50	367.55	369.83	370.27	369.83	370.62	369.99	369.75	369.66	369.43
24	369.79	369.62	368.44	367.52	369.96	370.33	369.91	370.57	369.99	369.65	369.68	369.39
25	369.68	369.52	368.42	367.50	370.03	370.35	369.98	370.51	369.87	369.66	369.70	369.42
26	369.57	369.47	368.38	367.49	370.06	370.40	369.95	370.44	369.87	369.70	369.73	369.47
27	369.53	369.46	368.33	367.50	370.10	370.43	370.06	370.37	369.84	369.69	369.73	369.42
28	369.44	369.20	368.30	367.61	370.17	370.39	370.22	370.34	369.77	369.71	369.86	369.48
29	369.37	369.32	368.28	367.69	370.23	370.71	370.32	370.26	369.73	369.88	369.91	369.52
30	369.31	369.25	368.24	367.76	---	370.80	370.33	370.14	369.81	369.80	370.00	369.56
31	369.34	---	368.19	367.82	---	370.76	---	370.04	---	369.83	370.05	---
MEAN	370.07	369.58	368.77	367.79	368.62	370.41	370.44	370.10	369.80	369.74	369.79	369.61
MAX	371.65	369.88	369.21	368.17	370.23	370.91	371.38	370.62	370.01	369.88	370.08	371.04
MIN	369.31	369.20	368.19	367.49	367.79	369.83	369.83	369.66	369.58	369.63	369.47	369.39

WTR YR 1976 MEAN 369.56 MAX 371.65 MIN 367.49

CAL YR 1975 MEAN 369.35 MAX 371.85 MIN 367.73

STREAMS TRIBUTARY TO LAKE ONTARIO

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04246500 ONEIDA RIVER AT CAUGHDENY, NY

LOCATION.--Lat 43°14'49", long 76°10'12", Oswego County, Hydrologic Unit 04140202, on left bank at point of diversion to New York State Erie (Barge) Canal, 1.6 mi (2.6 km) downstream from Oneida Lake, and 2.6 mi (4.2 km) upstream from navigation dam at Caughdeny.

DRAINAGE AREA.--1,382 mi² (3,579 km²); 1902-9, 1,439 mi² (3,727 km²).

PERIOD OF RECORD.--September 1902 to December 1909 (published as "near Euclid"), January 1910 to December 1912, and October 1947 to current year in reports of Geological Survey. September 1902 to December 1909 and January 1910 to September 1925 in reports of State Engineer and Surveyor.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Base gage: Water-stage recorder. Datum of gage is 362.00 ft (110.338 m) above mean sea level, Barge Canal datum. Prior to June 5, 1907, headwater readings, and June 5, 1907 to Dec. 31, 1909, nonrecording gage readings at former Oak Orchard State Dam 5.5 mi (8.8 km) downstream at different datum. Jan. 1, 1910 to Dec. 31, 1912, nonrecording gage at site 2.5 mi (4.0 km) downstream from present site at different datum. From Oct. 9, 1947 to Nov. 7, 1951, water-stage recorder at site 2.5 mi (4.0 km) downstream at present datum.

Auxiliary gage: Water-stage recorder at site 2.5 mi (4.0 km) downstream, 350 ft (107 m) upstream from navigation dam, at present datum (base gage site 1947-51).

Supplementary gage: Water-stage recorder at site 2.6 mi (4.2 km) downstream, 180 ft (55 m) downstream from navigation dam, at present datum.

REMARKS.--Records fair. Jan. 1, 1910 to Dec. 31, 1912: Flow over dam computed on basis of coefficient determined for model of dam of same general type; flow through gate and diversion through lock culverts estimated by theoretical calculations.

1947 to current year: Record represents total discharge at Caughdeny, including flow in Oneida and Erie (Barge) Canals. Considerable seasonal regulation by operation of gates in Oneida and Erie (Barge) Canals with a large amount of natural storage in Oneida Lake. Occasional large diurnal fluctuations caused by seiche in Oneida Lake. Water may be diverted into or received from Mohawk River basin through summit level of Erie (Barge) Canal between New London and Utica. Nearly all of flow from 14 mi² (36 km²) of Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin.

COOPERATION.--Records of gate openings, lockages, and elevations of water surface in Erie (Barge) Canal above and below lock 23, furnished by New York State Department of Transportation.

AVERAGE DISCHARGE.--39 years (1902-12, 1947-76), 2,538 ft³/s (71.88 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 13,800 ft³/s (391 m³/s) Mar. 25-27, 1903; minimum daily, 52 ft³/s (1.47 m³/s) Oct. 24, 1910.

1947 to current year: Maximum daily discharge, 10,100 ft³/s (286 m³/s) June 25, 1972; minimum daily, 62 ft³/s (1.76 m³/s) July 29, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 7,870 ft³/s (223 m³/s) Apr. 3; minimum daily, 232 ft³/s (6.57 m³/s) Aug. 21, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7440	943	4010	3050	2550	6050	7120	6140	5480	2600	662	2600
2	7550	964	4280	3050	2550	6330	7730	6050	5380	2300	784	2570
3	7740	958	4120	3030	2620	6330	7870	5810	5220	2000	1040	2970
4	7530	967	4220	2970	2550	6310	7860	5760	3810	2100	1060	3460
5	7360	979	4190	2940	2490	6580	7570	5800	2810	2100	955	3410
6	6830	1540	3920	2880	2480	6900	7500	5580	2800	2100	1030	3360
7	6620	2080	4070	2810	2470	7100	7280	5450	2820	2100	1070	3320
8	6350	2100	4290	2750	2460	7110	7040	5200	2850	2000	1060	3290
9	6280	2130	4370	2690	2420	7040	6810	5330	1990	2000	3080	1840
10	5850	2690	3910	2630	2410	6850	6530	4240	1390	2100	4810	1770
11	5580	3040	3910	2620	2340	6620	6280	3410	1020	2100	5520	2320
12	5250	3140	4060	2550	2380	6520	6020	3420	832	2000	5320	2290
13	5130	3560	4250	2540	2380	6260	5890	3500	855	2900	5150	1270
14	3400	3980	3880	2450	2410	6150	5810	3450	840	3900	5100	546
15	2220	4000	3750	2450	2490	5980	5660	3500	1330	3900	4950	547
16	2830	4020	3770	2460	2520	5900	5700	3540	2860	3900	3880	1120
17	4310	4030	3860	2380	2450	5690	5880	4230	4470	3800	2140	1580
18	5030	3990	3490	2340	3180	5570	6010	4630	4260	3800	1510	1560
19	5340	3990	3640	2310	3680	5420	5990	4500	3450	2800	1020	1550
20	5200	3950	3660	2250	4260	5330	5900	5420	3490	2160	432	1600
21	5180	4230	3450	2210	4660	5420	5850	6390	4100	1380	232	1730
22	5160	4700	3360	2170	4950	5730	5660	6580	4670	658	242	2020
23	5190	4820	3280	2180	5310	6050	5270	6620	4640	664	232	2180
24	4600	4860	3270	2140	5530	6150	5440	6540	5020	666	234	1840
25	4250	4740	3270	2100	5650	6170	5570	6450	5200	669	280	1710
26	4190	4660	3250	2080	5700	6260	5520	6320	5200	700	266	1710
27	4200	4660	3180	2110	5770	6350	5680	6220	5200	692	585	1690
28	3200	4320	3150	2250	5880	6170	5940	6170	5000	665	725	1660
29	2470	4490	3120	2340	5990	6760	6110	6050	3500	661	726	1660
30	2450	4420	3110	2420	---	6940	6120	5850	2600	664	1860	1950
31	1660	---	3080	2500	---	6850	---	5680	---	662	2540	---
TOTAL	156390	98951	115170	77650	102530	194890	189610	163830	103087	60741	58495	61123
MEAN	5045	3298	3715	2505	3536	6287	6320	5285	3436	1959	1887	2037
MAX	7740	4860	4370	3050	5990	7110	7870	6620	5480	3900	5520	3460
MIN	1660	943	3080	2080	2340	5330	5270	3410	832	658	232	546

CAL YR 1975 TOTAL 1122666 MEAN 3076 MAX 7740 MIN 186
WTR YR 1976 TOTAL 1382467 MEAN 3777 MAX 7870 MIN 232

STREAMS TRIBUTARY TO LAKE ONTARIO

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY
(National stream-quality accounting network station)

LOCATION.--Lat 43°27'06", long 76°30'20", Oswego County, Hydrologic Unit 04140203, on right bank at lock 7 in Oswego, 0.8 mi (1.3 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--5,098 mi² (13,204 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1900 to April 1906, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1307. Prior to January 1904, published as "above Minetto" or "near Minetto." January 1904 to April 1906, published as "at Battle Island." Records for April 1897 to September 1900, published in WSP 65 and for October 1927 to September 1928, published in WSP 664, have been found to be unreliable and should not be used.

REVISED RECORDS.--WRD NY 1967: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.00 ft (74.981 m) above mean sea level, Barge Canal datum. Prior to 1933, nonrecording gage at site about 6 mi (10 km) upstream at different datum.

REMARKS.--Records good. Prior to 1933 and subsequent to 1972, flow in Oswego (Barge) Canal not included. A large amount of natural storage and some artificial regulation is afforded by the many large lakes and the Erie (Barge) and Oswego (Barge) Canal systems in the river basin. Large diurnal fluctuations at low and medium flow caused by powerplants upstream from station. Oswego River basin receives water from Erie (Barge) Canal through lock 32 near Pittsford. Water may be diverted into or received from Mohawk River basin through summit levels of Erie (Barge) Canal between New London and Utica. During part of year entire flow from 45.5 mi² (118 km²) of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin. Nearly all of flow from 14 mi² (36.3 km²) of the Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin.

COOPERATION.--Records of lockages at lock 7 furnished by New York State Department of Transportation, record of elevations of Lake Ontario by Corps of Engineers, daily discharge records for High Dam by Niagara Mohawk Power Corp.

AVERAGE DISCHARGE.--43 years (1933-1976), 6,610 ft³/s (187.2 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft³/s (1,060 m³/s) Mar. 28, 1936, includes daily mean discharge of canals; maximum gage height, 13.46 ft (4.103 m) Apr. 10, 1940; minimum discharge (river only), 30 ft³/s (0.85 m³/s) Nov. 6, 1944; minimum daily, 274 ft³/s (7.76 m³/s) Oct. 10, 1969; minimum gage height, 0.97 ft (0.296 m) Aug. 24, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 31,000 ft³/s (878 m³/s) Mar. 8; maximum gage height, 11.85 ft (3.612 m) Mar. 8; minimum daily discharge, 1,960 ft³/s (55.5 m³/s) Aug. 21; minimum gage height, 2.11 ft (0.643 m) Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21800	6600	8220	9850	10500	21000	19300	18100	14100	10100	4710	4060
2	21100	5380	8530	9790	10100	20900	20100	18300	13700	9230	5250	3570
3	20400	5800	8500	9740	9910	20700	20200	17900	13300	7880	4930	4160
4	19500	5880	8390	9620	9850	21600	20000	17300	12100	7470	5280	4930
5	18700	6010	8480	9650	9850	24000	19400	16800	10200	7210	4610	5530
6	17600	5960	8650	9380	9440	25600	18700	15500	9470	7040	5250	5180
7	16900	6040	9200	9080	9380	28000	18000	14200	9290	6680	4440	4760
8	16200	6190	9790	9110	9200	31000	17200	13100	8730	5770	5130	4660
9	15600	6040	10200	9140	8940	27600	16100	11600	7410	6040	6930	3860
10	14700	6300	10500	8680	8970	25000	14800	10300	6220	5930	9560	3320
11	14200	8020	11400	8420	9050	24000	13300	8850	5640	5720	11300	4270
12	13700	7880	11900	7660	9530	22400	12300	8220	5130	5430	11600	3880
13	13200	9380	11600	7440	9710	21700	10700	8360	4730	7440	11300	3500
14	12200	10700	11100	8160	10400	21200	9790	8450	5430	10800	11400	2190
15	9880	10900	11000	8300	11100	20600	8480	9500	5960	11300	10300	2120
16	9200	10800	10900	8250	11900	20000	12200	9650	6190	12400	8970	2380
17	9970	10500	11000	8110	14900	19100	17200	9350	8850	13000	7490	3300
18	12200	10400	11000	7720	17800	18600	17800	10000	10100	12200	5200	4880
19	12900	10100	11000	7440	20800	18000	17900	12100	8480	11100	5640	3450
20	13200	9680	10600	7380	22000	18400	17400	16000	8730	8850	3660	2730
21	13100	9590	10200	7580	22100	19600	16100	18400	10500	7320	1960	3750
22	13200	10100	9500	7410	24000	20000	14500	18800	12600	6820	2660	4950
23	13100	10100	8420	5770	25000	20000	12100	19100	13300	4980	2950	3810
24	12600	10000	8330	5050	23600	19800	10800	19000	13600	3840	2360	3860
25	12000	9790	8220	5030	22800	19400	10500	18600	13700	3410	2270	3210
26	10700	9440	8420	5000	22400	19000	14000	18000	13200	2230	2790	3450
27	10500	9410	8530	6570	22100	18700	15900	17100	13100	3730	2970	3400
28	10200	8220	8680	8710	21900	18200	17000	16500	12900	3660	3120	3000
29	7660	7350	8710	9940	21400	18300	17800	15900	11900	3360	3230	2600
30	6950	8160	9230	9970	---	18200	18100	15100	10500	3480	3770	2160
31	7690	---	9970	10200	---	18000	---	14600	---	3540	4300	---
TOTAL	420850	250720	300170	254150	438630	658600	467670	444680	299060	217960	175330	110920
MEAN	13580	8357	9683	8198	15130	21250	15590	14340	9969	7031	5656	3697
MAX	21800	10900	11900	10200	25000	31000	20200	19100	14100	13000	11600	5530
MIN	6950	5380	8220	5000	8940	18000	8480	8220	4730	2230	1960	2120
CAL YR 1975	TOTAL	3048272	MEAN	8351	MAX	23400	MIN	772				
WTR YR 1976	TOTAL	4038740	MEAN	11030	MAX	31000	MIN	1960				

STREAMS TRIBUTARY TO LAKE ONTARIO

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04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-60, 1964-66, 1971 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1975 to current year.

WATER TEMPERATURES: July 1975 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1975.

REMARKS.--Interruptions in the record were due to malfunctions of the instruments.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,300 micromhos Aug. 5; minimum recorded, 430 micromhos Apr. 19.

WATER TEMPERATURES: Maximum recorded, 25.0°C Aug. 26, 28; minimum recorded, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
JAN										
06...	1030	890	8.0	.0	1	14.0	96	120	820	250
FEB										
04...	1030	930	7.7	.0	3	12.3	84	480	69	280
26...	1000	680	7.4	1.0	10	12.6	90	8160	150	190
APR										
01...	1300	570	7.7	6.8	5	10.8	90	220	140	190
20...	1000	610	7.2	14.0	15	8.8	85	61	817	200
MAY										
18...	1100	745	7.8	14.5	5	10.6	102	210	42	240
JUN										
08...	1100	800	7.8	19.0	6	8.8	95	3300	88	230
JUL										
28...	1100	900	7.6	23.0	4	8.5	98	54	814	220
AUG										
26...	1100	1000	8.0	24.0	2	8.7	102	150	190	290
SEP										
13...	1100	975	7.8	19.0	6	8.8	95	53	880	320
28...	1400	900	7.6	16.0	5	8.7	88	110	190	260

DATE	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
JAN									
06...	130	80	13	57	2.7	156	0	128	63
FEB									
04...	150	92	13	67	3.2	165	0	135	62
26...	83	60	10	40	2.4	132	0	108	44
APR									
01...	87	59	10	44	2.0	124	0	102	50
20...	91	62	11	42	2.5	133	0	109	52
MAY									
18...	120	76	11	56	2.4	144	0	118	57
JUN									
08...	110	71	12	56	2.5	145	0	119	53
JUL									
28...	100	68	12	58	2.4	140	0	115	57
AUG									
26...	170	90	15	84	3.2	148	0	121	69
SEP									
13...	220	110	12	82	2.6	131	0	107	70
28...	150	82	13	64	2.5	135	0	111	70

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

STREAMS TRIBUTARY TO LAKE ONTARIO

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
JAN 06...	130	.1	3.8	467	427	.69	.54	1.2	.08
FEB 04...	160	.2	4.6	708	483	1.0	.76	1.8	.10
26...	93	.0	4.2	369	319	.97	1.1	2.1	.10
APR 01...	100	.1	2.2	345	328	.58	.73	1.3	.08
20...	99	.1	1.3	374	335	.64	1.3	1.9	.10
MAY 18...	130	.1	.6	451	404	.45	.88	1.3	.08
JUN 08...	130	.1	.6	488	397	.53	.85	1.4	.08
JUL 28...	120	.1	1.5	466	388	.37	.98	1.4	.06
AUG 26...	190	.2	.8	646	525	.30	.90	1.2	.08
SEP 13...	220	.2	2.2	669	564	.21	1.5	1.7	.08
28...	170	.1	.5	546	469	.27	1.3	1.6	.10

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDED CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
MAY 18...	0	0	0	0	0	0	<10	0	<10	0	0
AUG 26...	1	1	0	1	0	1	<10	0	<10	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDED MANGANESE (MN) (UG/L)
MAY 18...	0	0	0	0	290	10	8	6	2	50	40
AUG 26...	0	0	0	0	170	30	9	2	7	50	50

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUS-PENDED SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)
MAY 18...	10	<.5	.0	<.5	10	0	10	0	0	0
AUG 26...	0	<.5	.0	<.5	10	0	10	0	0	0

STREAMS TRIBUTARY TO LAKE ONTARIO

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04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Oct. 14	1100	CHLOROPHYTA			Jan. 6	1030	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					CHARACIACEAE		
		ANKISTRODESMUS	140	1			SCHROEDERIA	30	3
		OOCYSTIS	560	4			OCCYSTACEAE		
		SCENEDESMACEAE					ANKISTRODESMUS	15	1
		SCENEDESMUS	2,500	16			KIRCHNERIELLA	L	0
		VOLVOCALES					SELENASTRUM	L	0
		CHLAMYDOMONADACEAE					SCENEDESMACEAE		
		CHLAMYDOMONAS	280	2			SCENEDESMUS	300	27
		CHRYSOPHYTA					CHRYSOPHYTA		
		BACILLARIOPHYCEAE					BACILLARIOPHYCEAE		
		CENTRALES					CENTRALES		
		COSCINODISCACEAE					COSCINODISCACEAE		
		CYCLOTELLA	3,300	22			CYCLOTELLA	150	14
		MELOSIRA	4,700	31			PENNALES		
		PENNALES					ACHNANTHACEAE		
		FRAGILARIACEAE					COCCONEIS	15	1
		ASTERIONELLA	L	0			FRAGILARIACEAE		
		FRAGILARIA	1,300	8			SYNEDRA	45	4
		NITZSCHACEAE					NAVICULACEAE		
		NITZSCHIA	420	3			NAVICULA	15	1
		CYANOPHYTA					NITZSCHACEAE		
		MYXOPHYCEAE					NITZSCHIA	45	4
		CHROOCOCCALES					CYANOPHYTA		
		CHROOCOCCACEAE					MYXOPHYCEAE		
		ANACYSTIS	1,900	13			CHROOCOCCALES		
		EUGLENOPHYTA					CHROOCOCCACEAE		
		EUGLENOPHYCEAE					AGMENELLUM	60	5
		EUGLENALES					ANACYSTIS	430	39
		EUGLENACEAE					OSCILLATORIALES		
		EUGLENA	140	1			OSCILLATORIALES		
		TOTAL	15,000				OSCILLATORIALES		
							OSCILLATORIA	L	0
							EUGLENOPHYTA		
							EUGLENOPHYCEAE		
							EUGLENALES		
							EUGLENACEAE		
							PHACUS	L	0
							TOTAL	1,100	

L - less than 1%, may not have been actually counted.

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Feb. 4	1030	CHLOROPHYTA			Feb. 26	1000	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					CHARACIACEAE		
		ANKISTRODESMUS	46	4			SCHROEDERIA	14	1
		SCENEDESMACEAE					OCCYSTACEAE		
		SCENEDESMUS	320	27			CLOSTERIOPSIS	L	0
		CHRYSTOPHYTA					SCENEDESMACEAE		
		BACILLARIOPHYCEAE					SCENEDESMUS	140	10
		CENTRALES					CHRYSTOPHYTA		
		COSCINODISCACEAE					BACILLARIOPHYCEAE		
		CYCLOTELLA	270	24			CENTRALES		
		MELOSIRA	68	6			COSCINODISCACEAE		
		PENNALES					CYCLOTELLA	110	8
		ACHNANTHACEAE					PENNALES		
		ACHNANTHES	23	2			FRAGILARIACEAE		
		CYMBELLACEAE					ASTERIONELLA	43	3
		CYMBELLA	L	0			SYNEDRA	14	1
		DIATOMACEA					NAVICULACEAE		
		DIATOMA	L	0			NAVICULA	57	4
		FRAGILARIACEAE					NITZSCHIA		
		ASTERIONELLA	91	8			NITZSCHIA	57	4
		FRAGILARIA	110	10			CYANOPHYTA		
		GOMPHONEMATACEAE					MYXOPHYCEAE		
		GOMPHONEMA	L	0			OSCILLATORIALES		
		NAVICULACEAE					NOSTOCACEAE		
		NAVICULA	140	12			APHANIZOMENON	360	26
		NITZSCHIA					OSCILLATORIA		
		NITZSCHIA	46	4			OSCILLATORIA	570	42
		CYANOPHYTA					PYRRHOPHYTA		
		MYXOPHYCEAE					DINOPHYCEAE		
		OSCILLATORIALES					GYMNODINIALES		
		OSCILLATORIA					GYMNODINIACEAE		
		OSCILLATORIA	L	0			GYMNODINIUM	L	0
		EUGLENOPHYTA					TOTAL	1,400	
		CRYPTOPHYCEAE							
		CRYPTOMONIDALES							
		CRYPTOMONODACEAE							
		CRYPTOMONAS	23	2					
		EUGLENOPHYCEAE							
		EUGLENALES							
		EUGLENACEAE							
		EUGLENA	23	2					
		PYRRHOPHYTA							
		DINOPHYCEAE							
		PERIDINIALES							
		GLENODINIACEAE							
		GLENODINIUM	L	0					
		TOTAL	1,200						

L - less than 1%, may not have been actually counted.

STREAMS TRIBUTARY TO LAKE ONTARIO

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04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Apr. 1	1300	CHLOROPHYTA			Apr. 20	1000	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		HYDRODICTYACEAE					MICRACTINEACEAE	260	1
		PEDIASTRUM	L	0			MICRACTINIUM		
		OCCYSTACEAE					SCENEDESMACEAE	260	1
		ANKISTRODESMUS	53	1			SCENEDESMUS		
		SCENEDESMACEAE					VOLVOCALES		
		SCENEDESMUS	850	13			CHLAMYDOMONADACEAE		
		TETRASTRUM	L	0			CHLAMYDOMONAS	260	1
		VOLVOCALES					CHRYCOPHYTA		
		CHLAMYDOMONADACEAE					BACILLARIOPHYCEAE		
		CHLAMYDOMONAS	L	0			CENTRALES		
		CHRYCOPHYTA					COSCINODISCACEAE		
		BACILLARIOPHYCEAE					CYCLOTELLA	8,700	46
		CENTRALES					MELOSIRA	400	2
		COSCINODISCACEAE					STEPHANODISCUS	130	1
		CYCLOTELLA	3,800	56			PENNALES		
		MELOSIRA	580	9			CYMBELLACEAE		
		STEPHANODISCUS	L	0			CYMBELLA	130	1
		PENNALES					FRAGILARIACEAE		
		ACHNANTHACEAE					ASTERIONELLA	2,200	12
		COCCONEIS	L	0			NAVICULACEAE		
		CYMBELLACEAE					AMPHIPRORA	130	1
		AMPHORA	L	0			GYROSIGMA	130	1
		EPITHEMIA	L	0			NAVICULA	130	1
		DIATOMACEAE					NITZSCHACEAE		
		DIATOMA	110	2			NITZSCHIA	400	2
		FRAGILARIACEAE					CHRYCOPHYCEAE		
		ASTERIONELLA	320	5			CHRYCOPHONADALES		
		FRAGILARIA	420	6			CHROMULINACEAE		
		SYNDRA	L	0			CHROMULINA	130	1
		GOMPHONEMACEAE					CYANOPHYTA		
		GOMPHONEMA	53	1			MYXOPHYCEAE		
		MERIDIONACEAE					CHROOCOCCALES		
		MERIDION	53	1			CHROOCOCCACEAE		
		NAVICULACEAE					ANACYSTIS		
		GYROSIGMA	L	0			ANACYSTIS		
		NAVICULA	260	4			INCERTA	2,400	13
		NITZSCHACEAE					OSCILLATORIALES		
		NITZSCHIA	110	2			OSCILLATORIA	2,600	14
		SURIPELLACEAE					OSCILLATORIA		
		CYMATOPLEURA	L	0			EUGLENOPHYTA		
		SURIPELLA	53	1			EUGLENOPHYCEAE		
		ACHNANTHACEAE					EUGLENALES		
		RHOICOSPHEMIA	53	1			EUGLENACEAE		
		CYANOPHYTA					EUGLENA	400	2
		MYXOPHYCEAE					PHACUS	260	1
		CHROOCOCCALES					TOTAL	19,000	
		CHROOCOCCACEAE							
		GOMPHOSPHAERIA	L	0					
		OSCILLATORIALES							
		OSCILLATORIA							
		LYNGBYA	L	0					
		EUGLENOPHYTA							
		EUGLENOPHYCEAE							
		EUGLENALES							
		EUGLENACEAE							
		EUGLENA	L	0					
		PHACUS	L	0					
		TOTAL	6,700						

L - less than 1%, may not have been actually counted.

STREAMS TRIBUTARY TO LAKE ONTARIO

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
May 18	1100	CHLOROPHYTA			June 8	1100	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		MICRACTINIACEAE					MICRACTINIACEAE		
		MICRACTINIUM	1,600	9			MICRACTINIUM	880	3
		OCCYSTACEAE					OCCYSTACEAE		
		ANKISTRODESMUS	610	4			ANKISTRODESMUS	440	2
		KIRCHNERIELLA	180	1			DICTYOSPHAERIUM	1,800	7
		SCENEDESMACEAE					SCENEDESMACEAE		
		SCENEDESMUS	3,500	20			SCENEDESMUS	1,700	6
		CHRYSOPHYTA					VOLVOCALES		
		BACILLARIOPHYCEAE					CHLAMYDOMONADACEAE		
		CENTRALES					CARTERIA	L	0
		COSCINODISCEAE					CHLAMYDOMONAS	330	1
		CYCLOTELLA	440	3			CHRYSOPHYTA		
		MELOSIRA	1,700	10			BACILLARIOPHYCEAE		
		PENNALES					CENTRALES		
		FRAGILARIACEAE					COSCINODISCEAE		
		ASTERIONELLA	3,100	18			CYCLOTELLA	2,600	10
		SYNEDRA	88	1			MELOSIRA	1,700	6
		NAVICULACEAE					PENNALES		
		NAVICULA	350	2			DIATOMACEAE		
		NITZSCHIA	790	5			DIATOMA	1,200	5
		CHRYSOPHYCEAE					FRAGILARIACEAE		
		CHRYSONOMADALES					ASTERIONELLA	550	2
		OCHROMONADACEAE					NAVICULACEAE		
		OCHROMONAS	260	2			GYROSTOMA	L	0
		XANTHOPHYCEAE					NAVICULA	L	0
		RHIZOCHLORIDALES					NITZSCHIA	330	1
		STIPITOCOCCEAE					NITZSCHIA		
		STIPITOCOCCUS	1,100	6			CHRYSOPHYCEAE		
		CYANOPHYTA					CHRYSONOMADALES		
		MYXOPHYCEAE					OCHROMONADACEAE		
		CHROOCOCCALES					DINOBRYON	L	0
		CHROOCOCCACEAE					CYANOPHYTA		
		ANACYSTIS	1,100	6			MYXOPHYCEAE		
		OSCILLATORIALES					OSCILLATORIALES		
		OSCILLATORIA	1,800	10			OSCILLATORIA	15,000	55
		EUGLENOPHYTA					EUGLENOPHYTA		
		CRYPTOPHYCEAE					CRYPTOPHYCEAE		
		CRYPTOMONIDALES					CRYPTOMONIDALES		
		CRYPTOMONODACEAE					CRYPTOCHRYSIDACEAE		
		CRYPTOMONAS	790	5			CHROOMONAS	L	0
		TOTAL	17,000				TOTAL	27,000	

L - less than 1%, may not have been actually counted.

STREAMS TRIBUTARY TO LAKE ONTARIO

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04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
June 28	1000	CHLOROPHYTA			July 28	1100	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		CHARACIACEAE					OCCYSTACEAE		
		SCHROEDERIA	L	0			ANKISTRODESMUS	59	10
		OCCYSTACEAE					SCENEDESMACEAE		
		ANKISTRODESMUS	270	1			SCENEDESMUS	120	20
		OCCYSTIS	340	2			CHRYSOPHYTA		
		SCENEDESMACEAE					BACILLARIOPHYCEAE		
		SCENEDESMUS	5,100	24			CENTRALES		
		CHRYSOPHYTA					COSCIDINISCEAE		
		BACILLARIOPHYCEAE					CYCLOTELLA	330	55
		CENTRALES					PENNALES		
		COSCIDINISCEAE					NITZSCHIA		
		CYCLOTELLA	1,200	5			NITZSCHIA	89	15
		MELOSIRA	1,800	9			TOTAL	590	
		PENNALES							
		FRAGILARIACEAE							
		ASTERIONELLA	L	0					
		FRAGILARIA	210	1					
		NAVICULACEAE							
		NAVICULA	140	1					
		NITZSCHIA							
		NITZSCHIA	L	0					
		CHRYSOPHYCEAE							
		CHRYSONOMADALES							
		OCHROMONADACEAE							
		DINOBRYON	L	0					
		BACILLARIOPHYCEAE							
		PENNALES							
		ACHNANTHACEAE							
		RHOICOSPHEA	L	0					
		CYANOPHYTA							
		MYXOPHYCEAE							
		CHROOCOCCALES							
		CHROOCOCCACEAE							
		GOMPHOSPHERIA	750	4					
		OSCILLATORIALES							
		NOSTOCACEAE							
		ANABAENA	2,500	12					
		APHANIZOMENON	7,500	35					
		OSCILLATORIA							
		OSCILLATORIA	680	3					
		EUGLENOPHYTA							
		CRYPTOPHYCEAE							
		CRYPTOMONIDALES							
		CRYPTOMONODACEAE							
		CRYPTOMONAS	210	1					
		EUGLENOPHYCEAE							
		EUGLENALES							
		EUGLENACEAE							
		TRACHELOMONAS	210	1					
		TOTAL	21,000						

L - less than 1%, may not have been actually counted.

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Aug. 26	1100	CHLOROPHYTA			Sep. 13	1100	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		COELASTRACEAE					SCENEDESMACEAE	1,600	3
		COELASTRUM	L	0			CHRYSOPTHYTA		
		MICRACTINIACEAE					BACILLARIOPHYCEAE		
		MICRACTINIUM	4,400	7			CENTRALES		
		OCCYSTACEAE					COSCONODISCACEAE		
		ANKISTRODESMUS	370	1			MELOSIRA	980	2
		DICTYOSPHAERIUM	5,900	10			STEPHANODISCUS	390	1
		KIRCHNERIELLA	1,500	2			CYANOPHYTA		
		OCCYSTIS	370	1			MYXOPHYCEAE		
		SCENEDESMACEAE					OSCILLATORIALES		
		SCENEDESMUS	370	1			NOSTOCACEAE		
		VOLVOCALES					APHANIZOMENON	50,000	92
		CHLAMYDOMONADACEAE					EUGLENOPHYTA		
		CHLAMYDOMONAS	730	1			EUGLENOPHYCEAE		
		CHRYSOPTHYTA					EUGLENALES		
		BACILLARIOPHYCEAE					EUGLENACEAE	1,400	3
		CENTRALES					TRACHELOMONAS		
		COSCONODISCACEAE					TOTAL	54,000	
		CYCLOTELLA	370	1					
		MELOSIRA	27,000	44					
		PENNALES							
		NITZSCHIA	730	1					
		CHRYSOPTHYCEAE							
		CHRYSONADACEAE							
		OCHROMONADACEAE							
		OCHROMONAS	370	1					
		CYANOPHYTA							
		MYXOPHYCEAE							
		CHROOCOCCALES							
		CHROOCOCCACEAE							
		AGMENELLUM	4,400	7					
		ANACYSTIS	2,200	4					
		OSCILLATORIALES							
		NOSTOCACEAE							
		APHANIZOMENON	12,000	20					
		EUGLENOPHYTA							
		EUGLENOPHYCEAE							
		EUGLENALES							
		EUGLENACEAE	370	1					
		TRACHELOMONAS							
		TOTAL	61,000						
Sep. 28	1400	CHLOROPHYTA							
		CHLOROPHYCEAE							
		CHLOROCOCCALES							
		OCCYSTACEAE							
		DICTYOSPHAERIUM	3,800	5					
		ZYGNEMATALES							
		DESMIDIACEAE							
		STAUSTRUM	940	1					
		CHRYSOPTHYTA							
		BACILLARIOPHYCEAE							
		CENTRALES							
		COSCONODISCACEAE							
		MELOSIRA	1,600	2					
		STEPHANODISCUS	2,200	3					
		CYANOPHYTA							
		MYXOPHYCEAE							
		OSCILLATORIALES							
		NOSTOCACEAE							
		ANABAENA	1,600	2					
		APHANIZOMENON	66,000	86					
		EUGLENOPHYTA							
		EUGLENOPHYCEAE							
		EUGLENALES							
		EUGLENACEAE							
		TRACHELOMONAS	L	0					
		TOTAL	76,000						

L - less than 1%, may not have been actually counted.

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
June 8	21	2.08	1.69	6.41	0.791	60	Polyethylene strip
June 28	20	2.38	1.92	2.28	.0	200	Polyethylene strip

STREAMS TRIBUTARY TO LAKE ONTARIO

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04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	584	519	559	883	848	857	---	---	---	---	---	---
2	598	533	558	1050	873	954	---	---	---	---	---	---
3	733	608	676	1050	913	1000	---	---	---	---	---	---
4	732	632	670	987	907	944	---	---	---	---	---	---
5	656	626	641	967	942	954	---	---	---	---	---	---
6	661	626	641	957	887	926	---	---	---	---	---	---
7	745	635	664	1010	892	962	900	895	898	900	880	890
8	749	689	719	987	897	951	895	885	889	895	885	889
9	733	688	713	927	852	893	895	885	892	895	885	892
10	723	658	701	886	846	872	---	---	---	---	---	---
11	732	712	718	921	886	904	919	894	900	934	924	931
12	736	661	713	901	871	885	934	924	932	934	869	903
13	771	741	755	906	846	891	874	659	864	898	868	888
14	785	705	739	876	736	797	908	898	906	908	898	906
15	830	705	765	731	721	724	923	903	915	933	918	925
16	975	830	909	821	726	773	918	908	914	---	---	---
17	1080	940	1030	865	810	835	912	907	908	927	907	917
18	930	695	803	880	855	866	942	922	931	987	942	952
19	795	690	741	890	880	884	1040	987	1030	---	---	---
20	800	785	794	890	880	884	1040	1020	1030	---	---	---
21	805	760	791	---	---	---	1010	971	991	---	---	---
22	804	719	746	---	---	---	1100	966	1010	---	---	---
23	759	679	721	---	---	---	1160	1110	1140	---	---	---
24	739	704	716	---	---	---	1160	1140	1160	---	---	---
25	759	704	730	---	---	---	1140	1080	1110	---	---	---
26	819	729	782	---	---	---	---	---	---	---	---	---
27	824	794	810	---	---	---	---	---	---	---	---	---
28	789	714	753	---	---	---	---	---	---	---	---	---
29	788	718	734	---	---	---	---	---	---	---	---	---
30	1000	783	862	---	---	---	---	---	---	---	---	---
31	998	888	943	---	---	---	---	---	---	---	---	---
MONTH	1080	519	745	---	---	---	1160	659	953	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1080	1030	1050	735	675	694	575	550	558	615	495	538
2	1020	970	998	750	695	733	580	530	556	560	465	511
3	965	905	927	745	725	734	585	565	574	640	475	584
4	945	905	933	800	725	771	575	560	566	720	525	598
5	942	842	911	775	720	759	575	560	567	705	570	659
6	838	823	831	710	610	654	585	570	575	720	610	654
7	849	824	836	690	555	574	595	585	589	760	660	710
8	885	850	873	650	620	643	610	590	599	820	745	772
9	892	882	889	655	635	646	645	610	621	840	700	785
10	868	873	882	650	600	616	695	640	666	740	520	655
11	874	869	870	615	600	608	725	675	706	600	475	545
12	871	856	863	695	610	555	745	705	726	875	575	732
13	862	852	853	685	640	662	805	740	764	850	600	741
14	863	838	856	665	620	633	845	795	823	720	630	670
15	839	819	830	655	650	660	790	585	693	---	---	---
16	835	810	818	680	650	663	645	545	586	---	---	---
17	812	762	784	685	660	665	825	610	741	---	---	---
18	903	783	837	670	645	657	665	455	544	---	---	---
19	879	774	837	665	655	661	650	430	520	800	680	722
20	776	726	741	655	640	648	660	495	578	800	620	727
21	732	697	716	650	615	636	800	560	654	895	800	836
22	698	598	661	605	585	595	740	545	666	900	755	821
23	730	595	664	635	600	629	745	660	713	830	765	799
24	731	721	725	625	585	601	850	670	758	805	720	756
25	728	663	687	595	575	586	895	685	795	800	735	778
26	680	670	679	600	565	578	755	560	659	835	780	800
27	670	665	667	610	580	598	660	515	580	830	770	793
28	720	670	695	585	550	569	685	565	603	885	800	832
29	805	680	749	610	550	587	600	500	541	900	610	769
30	---	---	---	605	560	572	625	505	541	960	690	827
31	---	---	---	570	560	566	---	---	---	960	705	830
MONTH	1080	595	816	800	550	644	895	430	635	960	465	720

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

STREAMS TRIBUTARY TO LAKE ONTARIO

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04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

TEMPERATURE (DEG. C OF WATER), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	13.0	12.5	12.5	---	---	---	0.0	0.0	0.0
2	---	---	---	13.0	12.5	13.0	---	---	---	0.0	0.0	0.0
3	---	---	---	15.5	13.0	13.5	---	---	---	0.0	0.0	0.0
4	---	---	---	14.0	13.5	13.5	---	---	---	0.0	0.0	0.0
5	---	---	---	14.0	13.5	13.5	---	---	---	0.0	0.0	0.0
6	---	---	---	14.0	13.0	13.5	---	---	---	0.0	0.0	0.0
7	---	---	---	14.0	13.5	13.5	---	---	---	0.0	0.0	0.0
8	---	---	---	14.0	13.5	14.0	---	---	---	0.0	0.0	0.0
9	---	---	---	14.5	13.5	14.0	---	---	---	0.0	0.0	0.0
10	---	---	---	14.5	14.0	14.0	---	---	---	0.0	0.0	0.0
11	---	---	---	14.0	13.0	13.5	---	---	---	0.0	0.0	0.0
12	---	---	---	13.0	12.5	12.5	---	---	---	0.0	0.0	0.0
13	---	---	---	12.5	12.0	12.0	---	---	---	0.0	0.0	0.0
14	---	---	---	11.5	10.0	11.0	---	---	---	0.0	0.0	0.0
15	---	---	---	10.0	9.5	9.5	---	---	---	0.0	0.0	0.0
16	---	---	---	9.5	9.0	9.0	3.0	2.5	2.5	0.0	0.0	0.0
17	---	---	---	9.0	8.5	9.0	2.5	2.0	2.5	0.0	0.0	0.0
18	---	---	---	9.0	9.0	9.0	2.0	1.0	1.5	0.0	0.0	0.0
19	---	---	---	9.5	9.0	9.0	1.0	0.0	0.5	---	---	---
20	---	---	---	9.5	9.0	9.5	0.0	0.0	0.0	---	---	---
21	---	---	---	9.5	9.0	9.5	0.0	0.0	0.0	---	---	---
22	---	---	---	9.0	8.5	9.0	0.0	0.0	0.0	---	---	---
23	---	---	---	8.5	8.0	8.0	0.0	0.0	0.0	---	---	---
24	---	---	---	8.0	7.5	8.0	0.0	0.0	0.0	---	---	---
25	---	---	---	---	---	---	0.0	0.0	0.0	---	---	---
26	---	---	---	---	---	---	0.0	0.0	0.0	---	---	---
27	---	---	---	---	---	---	0.0	0.0	0.0	---	---	---
28	---	---	---	---	---	---	0.0	0.0	0.0	---	---	---
29	---	---	---	---	---	---	0.0	0.0	0.0	---	---	---
30	---	---	---	---	---	---	0.0	0.0	0.0	---	---	---
31	13.5	13.0	13.5	---	---	---	0.0	0.0	0.0	---	---	---
MONTH	---	---	---	15.5	7.5	11.5	---	---	---	---	---	---
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	2.5	2.0	2.0	7.0	7.0	7.0	11.0	10.0	10.5
2	---	---	---	2.0	1.5	1.5	7.5	7.0	7.0	11.5	10.5	11.0
3	---	---	---	1.5	1.0	1.0	7.5	7.0	7.0	11.5	11.0	11.5
4	---	---	---	1.5	1.5	1.5	7.0	6.5	7.0	11.5	10.5	11.0
5	0.0	0.0	0.0	2.0	1.5	2.0	7.0	6.5	7.0	11.0	10.0	10.5
6	0.0	0.0	0.0	2.5	2.0	2.0	7.5	6.5	7.0	11.0	11.0	11.0
7	0.0	0.0	0.0	2.0	1.5	2.0	7.5	7.0	7.0	11.0	10.5	11.0
8	0.0	0.0	0.0	2.0	1.5	1.5	7.5	7.0	7.5	11.0	10.0	10.5
9	0.0	0.0	0.0	2.0	1.5	1.5	7.5	7.0	7.0	11.0	10.5	11.0
10	0.0	0.0	0.0	2.0	1.5	2.0	8.0	7.0	7.5	12.0	11.0	11.5
11	0.0	0.0	0.0	2.0	2.0	2.0	8.0	7.0	7.5	12.0	11.0	12.0
12	0.0	0.0	0.0	2.0	1.5	1.5	6.5	6.0	6.5	12.5	11.5	12.0
13	0.0	0.0	0.0	2.0	1.5	2.0	7.0	6.0	6.5	13.0	12.0	12.5
14	0.0	0.0	0.0	2.0	1.5	1.5	7.5	6.5	7.0	12.5	12.5	12.5
15	0.0	0.0	0.0	2.0	1.5	2.0	8.0	7.0	7.5	13.5	12.5	13.0
16	0.5	0.0	0.0	2.0	1.0	1.5	9.5	7.5	8.5	14.0	13.5	14.0
17	0.5	0.5	0.5	1.0	0.5	1.0	11.5	9.5	10.5	15.0	14.0	14.5
18	0.5	0.5	0.5	1.5	0.5	1.0	13.0	11.5	12.5	15.0	14.0	14.5
19	1.0	0.5	0.5	2.0	1.0	1.5	14.5	13.0	14.0	14.0	12.0	13.0
20	1.0	0.5	0.5	3.5	2.0	2.5	15.0	14.5	14.5	12.0	11.0	11.5
21	1.0	0.5	0.5	4.0	3.5	4.0	15.0	14.5	14.5	11.5	11.0	11.0
22	1.0	1.0	1.0	4.0	3.0	3.5	15.0	14.5	15.0	11.5	11.0	11.5
23	0.5	0.5	0.5	3.5	2.5	3.0	15.0	14.0	14.5	11.5	11.0	11.0
24	1.0	0.5	1.0	5.0	3.5	4.0	14.0	13.0	13.5	11.5	11.0	11.5
25	1.5	1.0	1.0	5.5	4.5	5.0	13.0	11.5	12.0	12.0	11.0	11.5
26	1.5	1.0	1.5	5.5	5.0	5.0	11.5	10.0	10.5	12.5	11.5	12.0
27	2.0	1.5	1.5	6.5	5.5	5.0	10.0	9.0	9.5	13.5	12.0	12.5
28	2.0	1.5	2.0	6.5	6.0	6.0	9.0	8.5	9.0	14.0	13.0	13.5
29	2.0	1.5	2.0	6.0	5.5	5.0	10.0	9.0	9.5	15.0	14.0	14.5
30	---	---	---	6.5	5.5	6.0	10.5	9.5	10.0	15.5	15.0	15.0
31	---	---	---	7.0	6.5	6.5	---	---	---	15.5	15.5	15.5
MONTH	2.0	0.0	0.5	7.0	0.5	3.0	15.0	6.0	9.5	15.5	10.0	12.0

STREAMS TRIBUTARY TO LAKE ONTARIO

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

TEMPERATURE (DEG. C OF WATER), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	15.5	15.5	22.5	22.0	22.0	22.5	22.0	22.0	21.5	21.5	21.5
2	16.0	15.5	15.5	22.0	21.5	21.5	22.5	21.5	22.0	22.0	20.5	21.5
3	17.0	15.5	16.0	21.5	21.0	21.0	22.5	21.5	22.0	21.5	20.0	20.5
4	17.5	16.5	17.0	21.5	21.0	21.0	23.0	22.0	22.0	20.5	20.0	20.0
5	18.0	17.5	17.5	22.0	21.0	21.5	24.0	22.0	22.5	20.0	19.5	20.0
6	18.5	18.0	18.0	23.0	22.0	22.5	23.0	22.5	22.5	20.0	19.0	19.5
7	18.5	18.0	18.0	23.0	23.0	23.0	22.0	21.5	22.0	20.0	19.0	19.5
8	19.5	18.5	19.0	23.0	23.0	23.0	22.0	21.5	21.5	20.0	19.5	19.5
9	20.0	19.0	19.5	23.5	22.5	23.0	21.5	21.5	21.5	20.5	18.5	20.0
10	20.5	19.5	20.0	23.0	23.0	23.0	21.5	21.0	21.0	20.5	18.5	20.0
11	21.0	20.0	20.5	23.5	23.0	23.0	21.5	20.5	21.0	19.5	18.5	19.0
12	21.0	20.5	20.5	23.0	22.0	22.5	21.5	21.5	21.5	---	---	---
13	21.0	20.0	20.5	22.0	21.0	21.5	22.0	21.5	21.5	---	---	---
14	21.0	20.5	20.5	21.5	21.0	21.0	22.0	22.0	22.0	19.5	18.5	19.0
15	22.0	20.5	21.5	21.5	21.0	21.0	22.0	21.5	22.0	20.5	18.0	19.5
16	22.5	21.5	22.0	22.0	21.5	21.5	21.5	21.5	21.5	20.5	19.0	20.0
17	22.0	22.0	22.0	21.5	21.0	21.0	22.0	21.0	21.5	21.0	18.5	20.0
18	22.0	21.5	21.5	21.0	20.5	21.0	22.0	21.0	21.5	20.5	20.5	20.5
19	22.5	21.5	22.0	21.5	21.0	21.5	22.5	21.5	22.0	20.5	20.0	20.5
20	22.0	21.5	22.0	22.0	21.5	22.0	22.5	22.0	22.0	20.5	20.0	20.0
21	22.0	21.5	22.0	23.0	22.0	22.5	23.0	22.0	22.5	20.0	19.0	19.5
22	22.0	21.5	21.5	23.0	22.5	23.0	23.5	22.5	23.0	19.5	18.0	19.0
23	22.5	22.0	22.0	23.0	22.5	23.0	23.5	21.5	23.0	18.5	17.0	17.5
24	23.0	22.5	23.0	22.5	22.5	22.5	23.5	19.5	22.5	17.5	16.5	17.0
25	23.0	23.0	23.0	22.5	22.0	22.0	24.0	19.0	21.5	17.0	16.0	16.5
26	23.0	22.5	23.0	22.5	22.0	22.0	25.0	20.5	23.5	16.5	16.0	16.0
27	23.0	22.5	23.0	22.5	22.0	22.5	24.5	23.5	24.0	---	---	---
28	23.5	23.0	23.0	23.5	23.0	23.0	25.0	22.5	24.0	---	---	---
29	23.0	23.0	23.0	23.0	23.0	23.0	24.5	23.0	24.0	---	---	---
30	23.0	22.5	23.0	23.0	22.5	22.5	23.0	21.5	22.5	---	---	---
31	---	---	---	22.5	22.0	22.5	22.5	21.0	21.5	---	---	---
MONTH	23.5	15.5	20.5	23.5	20.5	22.0	25.0	19.0	22.0	22.0	16.0	19.5

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT					
14...	1100	11200	20	605	85
JAN					
06...	1030	9800	4	106	76
FEB					
04...	1030	9850	8	213	71
26...	1000	22500	22	1340	70
APR					
01...	1300	19500	18	948	77
20...	1000	17500	35	1650	86
MAY					
18...	1100	9900	15	401	86
JUN					
08...	1100	9000	38	923	62
28...	1000	13000	21	737	92
JUL					
28...	1100	3650	24	237	97
AUG					
26...	1100	3900	16	168	88
SEP					
13...	1100	5080	22	302	89
28...	1400	E3000	16	E130	97

E Estimated.

LAKE ONTARIO

445

04249010 LAKE ONTARIO AT OSWEGO, NY

LOCATION.--Lat 43°27'51", long 76°30'42", Oswego County, Hydrologic Unit 04150200, in southwest corner of Port of Oswego Authority building at mouth of Oswego River at Oswego.

PERIOD OF RECORD.--January 1860 to current year. Data prior to October 1960 in files of Lake Survey Center.

GAGE.--Water-stage recorder. Elevations are in feet above mean sea level at Father Point, Quebec, International Great Lakes Datum (1955). Prior to Jan. 1, 1933, nonrecording gages.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 248.96 ft (75.883 m) June 6, 1952; minimum observed, 240.94 ft (73.438 m) Dec. 23, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 247.73 ft (75.508 m) June 7; minimum, 243.61 ft (74.252 m) Nov. 29.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244.69	244.32	244.29	244.27	244.43	245.05	246.35	247.05	247.52	247.19	246.66	245.95
2	244.83	244.32	244.03	244.17	244.91	245.03	246.46	247.03	247.50	247.23	246.55	245.92
3	244.77	244.32	244.17	244.28	244.40	245.21	246.53	247.14	247.47	247.21	246.52	245.81
4	244.69	244.37	243.99	244.46	244.55	245.29	246.57	247.12	247.46	247.21	246.49	245.80
5	244.62	244.34	243.92	244.26	244.38	245.47	246.62	247.01	247.44	247.17	246.46	245.88
6	244.72	244.27	244.09	244.14	244.46	245.56	246.61	247.13	247.42	247.12	246.46	245.85
7	244.65	244.25	243.98	244.22	244.51	245.69	246.65	247.25	247.47	247.09	246.35	245.79
8	244.62	244.28	243.93	244.26	244.50	245.60	246.69	247.27	247.41	247.08	246.36	245.72
9	244.52	244.26	243.94	244.35	244.41	245.52	246.68	247.20	247.39	247.06	246.36	245.63
10	244.52	244.33	244.17	244.24	244.33	245.57	246.70	247.19	247.35	247.00	246.35	245.74
11	244.57	244.39	244.18	244.09	244.56	245.74	246.81	247.24	247.36	247.05	246.31	245.77
12	244.62	244.26	244.05	244.24	244.36	245.49	246.79	247.28	247.34	247.16	246.29	245.69
13	244.52	244.40	243.97	244.16	244.48	245.84	246.75	247.23	247.23	247.15	246.33	245.63
14	244.58	244.46	243.96	244.60	244.44	245.77	246.68	247.21	247.20	247.10	246.33	245.57
15	244.59	244.33	244.11	244.43	244.36	245.84	246.70	247.22	247.22	247.01	246.39	245.53
16	244.69	244.29	244.11	244.30	244.45	245.79	246.76	247.17	247.22	247.03	246.44	245.48
17	244.54	244.22	244.13	244.38	244.53	246.02	246.77	247.23	247.25	247.04	246.38	245.43
18	244.50	244.24	244.27	244.32	244.46	245.76	246.78	247.33	247.22	246.97	246.30	245.46
19	244.39	244.22	244.11	244.21	244.74	245.77	246.78	247.49	247.21	246.94	246.24	245.50
20	244.42	244.17	244.01	244.34	244.68	245.79	246.80	247.46	247.25	246.90	246.20	245.49
21	244.44	244.23	244.14	244.37	244.65	246.02	246.79	247.43	247.22	246.93	246.17	245.48
22	244.49	244.34	244.15	244.56	244.90	246.00	246.84	247.46	247.19	246.85	246.14	245.62
23	244.45	244.19	244.24	244.30	244.87	245.97	246.95	247.46	247.17	246.78	246.14	245.47
24	244.42	244.12	244.06	244.27	244.83	245.95	246.86	247.47	247.14	246.86	246.04	245.48
25	244.49	244.11	243.99	244.18	244.86	246.05	246.92	247.47	247.25	246.79	246.01	245.38
26	244.48	244.07	244.10	244.23	244.92	246.04	247.11	247.48	247.22	246.72	245.98	245.35
27	244.43	244.05	244.21	244.42	244.98	246.10	247.15	247.51	247.24	246.72	245.94	245.37
28	244.42	244.21	244.19	244.45	245.03	246.28	247.12	247.47	247.24	246.66	245.92	245.35
29	244.50	243.99	244.17	244.47	245.00	246.18	247.08	247.46	247.24	246.64	246.15	245.30
30	244.46	243.92	244.14	244.43	---	246.16	247.06	247.46	247.18	246.66	246.10	245.29
31	244.33	---	244.27	244.38	---	246.21	---	247.48	---	246.63	245.98	---
MEAN	244.55	244.24	244.10	244.32	244.62	245.77	246.78	247.30	247.30	246.97	246.27	245.59
MAX	244.83	244.46	244.29	244.60	245.03	246.28	247.15	247.51	247.52	247.23	246.66	245.95
MIN	244.33	243.92	243.92	244.09	244.33	245.03	246.35	247.01	247.14	246.63	245.92	245.29
WTR YR 1976	MEAN 245.65		MAX 247.52	MIN 243.92								
CAL YR 1975	MEAN 244.93		MAX 245.96	MIN 243.83								

04249910 BEAVERDAM BROOK AT ALTMAR, NY

LOCATION.--Lat 43°30'31", long 75°59'35", Oswego County, Hydrologic Unit 04140102, on right bank 15 ft (4.6 m) upstream from bridge on County Highway 22 at Altmar, 0.3 mi (0.5 km) upstream from mouth, and 2.4 mi (3.9 km) southwest of Bennetts Bridge.

DRAINAGE AREA.--11.8 mi² (19.0 km²).

PERIOD OF RECORD.--April 1974 to June 15, 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 540 ft (164 m), from topographic map (nearest 10 ft).

REMARKS.--Records fair. Flow partially regulated at private pond 0.3 mi (0.5 km) upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 360 ft³/s (10.2 m³/s) Sept. 27, 1975, gage height, 5.94 ft (1.81 m); minimum, 6.4 ft³/s (0.18 m³/s) July 10, 1975, gage height, 3.07 ft (0.936 m), regulated; minimum daily, 8.6 ft³/s (0.24 m³/s) July 2-4, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges during period October 1975 to June 15, 1976, above base of 250 ft³/s (7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 23	0645	259	7.33	Apr. 1	2400	*338	9.57
Mar. 28	0740	297	8.41	May 20	2300	329	9.32
							*5.81 1.771
							5.76 1.756

Minimum discharge, 12 ft³/s (0.34 m³/s) June 12, 13, gage height, 3.33 ft (1.015 m), regulated; minimum daily, 17 ft³/s (0.48 m³/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FFB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	18	44	31	35	92	275	53	31			
2	33	19	47	29	34	74	302	54	28			
3	31	22	42	27	32	78	205	56	25			
4	27	35	35	26	31	84	134	53	24			
5	25	48	32	25	30	103	95	47	23			
6	22	42	38	24	29	146	79	41	22			
7	20	34	66	24	29	120	70	46	25			
8	20	30	58	23	28	91	64	54	25			
9	17	29	49	23	28	70	58	52	22			
10	18	36	66	23	28	59	54	44	22			
11	18	57	70	23	29	52	52	39	21			
12	22	55	55	23	29	43	49	41	20			
13	24	73	46	23	30	46	45	41	18			
14	34	80	41	22	30	46	47	41	18			
15	34	62	44	22	31	42	50	50	21			
16	31	54	56	22	35	36	48	52	---			
17	29	40	50	22	43	35	45	47	---			
18	41	35	36	22	52	38	40	53	---			
19	56	31	32	22	68	40	35	85	---			
20	66	29	30	22	76	51	33	258	---			
21	61	31	31	21	70	129	32	275	---			
22	48	36	28	21	88	205	34	146	---			
23	36	38	26	21	100	169	45	84	---			
24	30	35	25	21	94	152	49	61	---			
25	27	32	24	21	82	169	53	50	---			
26	25	30	27	22	78	186	71	49	---			
27	23	31	27	36	94	203	101	48	---			
28	22	36	26	38	101	276	124	44	---			
29	20	38	26	39	92	229	98	40	---			
30	18	38	28	36	---	166	68	36	---			
31	18	---	32	35	---	152	---	33	---			
TOTAL	934	1174	1237	789	1526	3382	2455	2073	---			
MEAN	30.1	39.1	39.9	25.5	52.6	109	81.8	66.9	---			
MAX	66	80	70	39	101	276	302	275	---			
MIN	17	18	24	21	28	35	32	33	---			
CFSM	2.55	3.31	3.38	2.16	4.46	9.24	6.93	5.67	---			
IN.	2.94	3.70	3.90	2.49	4.81	10.66	7.74	6.53	---			

CAL YR 1975 TOTAL 15781.0 MEAN 43.2 MAX 334 MIN 8.6 CFSM 3.66 IN 49.75

STREAMS TRIBUTARY TO LAKE ONTARIO

447

04250750 SANDY CREEK NEAR ADAMS, NY

LOCATION.--Lat 43°48'48", long 76°04'30", Jefferson County, Hydrologic Unit 04140102, on left bank 250 ft (76 m) upstream from highway bridge on Liberty Street, 0.2 mi (0.3 km) downstream from tributary, 2.5 mi (4.0 km) downstream from Adams, and 10.0 mi (16.1 km) upstream from mouth.

DRAINAGE AREA.--128 mi² (332 km²).

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 523.71 ft (159.627 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Moderate diurnal fluctuation at low flow caused by mills above station.

AVERAGE DISCHARGE.--19 years, 258 ft³/s (7.307 m³/s), 27.37 in/yr (695.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,800 ft³/s (334 m³/s) Apr. 4, 1963, gage height, 11.01 ft (3.356 m), from rating curve extended above 5,500 ft³/s (156 m³/s) on basis of slope-area measurement of peak flow; minimum, 1.5 ft³/s (0.042 m³/s) Sept. 17, 18, 1963, Aug. 19, 1964; minimum daily, 2.2 ft³/s (0.062 m³/s) Sept. 7, 11, 1960, Sept. 17, 1963, Aug. 16, Sept. 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Feb. 22	1100	3,950 112	7.19 2.192	May 20	1030	*8,190 232	*10.26 3.127
Mar. 21	1800	5,880 167	8.98 2.737	Sept. 22	2400	4,880 138	8.00 2.438

Minimum discharge, 40 ft³/s (1.13 m³/s) Aug. 27, gage height, 1.37 ft (0.418 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	112	565	180	800	968	1650	285	220	198	229	86
2	243	142	678	180	600	542	945	737	198	175	170	223
3	213	154	526	170	520	515	623	434	162	223	95	123
4	167	162	387	170	510	1100	473	328	137	187	68	84
5	139	300	357	170	453	3160	383	285	121	142	57	76
6	119	226	537	170	387	2140	336	312	106	114	60	71
7	104	187	666	170	344	1080	304	1100	108	96	59	63
8	96	195	537	170	296	635	270	819	108	93	201	57
9	88	256	484	170	281	489	243	473	93	89	473	50
10	84	243	704	170	274	424	223	353	81	75	236	98
11	86	324	870	170	300	374	263	300	71	67	152	152
12	125	332	521	180	410	300	243	434	67	72	110	164
13	144	424	415	180	460	357	236	336	62	170	181	112
14	304	593	494	190	500	344	213	267	59	460	300	81
15	195	521	750	190	490	320	195	357	101	267	207	68
16	162	505	737	190	800	249	204	256	94	157	162	60
17	137	499	453	190	1200	243	201	236	213	154	137	59
18	370	441	379	190	1500	236	178	387	108	116	110	60
19	410	370	270	190	1900	278	152	976	82	91	91	59
20	559	328	260	190	1400	1420	134	6450	506	76	81	57
21	410	312	240	180	1100	4090	119	2190	369	220	71	91
22	357	505	240	180	2940	2220	132	1230	638	178	64	914
23	274	505	250	180	1850	1100	236	840	256	106	59	1800
24	223	396	250	190	1280	930	173	559	170	86	52	468
25	201	340	260	190	1050	1410	239	479	887	75	48	274
26	213	285	270	210	1310	1240	587	611	575	63	45	233
27	187	332	270	230	1380	1320	666	635	989	66	42	1610
28	178	559	240	1300	1360	1590	1010	370	406	73	57	623
29	162	396	220	1100	914	717	653	289	270	63	392	374
30	137	406	200	1000	---	565	370	249	223	96	149	281
31	119	---	190	900	---	611	---	226	---	83	89	---
TOTAL	6426	10350	13220	9230	26609	31367	11654	22803	7480	4131	4247	8471
MEAN	207	345	426	298	918	1012	388	736	249	133	137	282
MAX	559	593	870	1300	2940	4090	1650	6450	989	460	473	1800
MIN	84	112	190	170	274	236	119	226	59	63	42	50
CFSM	1.62	2.70	3.33	2.33	7.17	7.91	3.03	5.75	1.95	1.04	1.07	2.20
IN.	1.87	3.01	3.84	2.68	7.73	9.12	3.39	6.63	2.17	1.20	1.23	2.46
CAL YR 1975 TOTAL	106137.3			291	4130		7.4	CFSM 2.27	IN 30.85			
WTR YR 1976 TOTAL	155988.0			426	6450		42	CFSM 3.33	IN 45.33			

STREAMS TRIBUTARY TO LAKE ONTARIO

04252000 BLACK RIVER CANAL (FLOWING SOUTH) NEAR BOONVILLE, NY

LOCATION.--Lat 43°27'21", long 75°19'27", Oneida County, Hydrologic Unit 04150101, on left bank at former lock 69, 200 ft (61 m) downstream from bridge on State Highway 46, and 2.0 mi (3.2 km) south of Boonville.

PERIOD OF RECORD.--September 1915 to current year (canal seasons only prior to October 1942 and since October 1957).

REVISED RECORDS.--WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,105.56 ft (336.975 m) above mean sea level. Prior to June 7, 1929, station was operated as a slope station on summit level of canal. Auxiliary water-stage recorder with concrete control on right bank of Lansing Kill spillway, 100 ft (30 m) downstream from spillway and headgate, 600 ft (183 m) upstream from lock 70, and 0.3 mi (0.5 km) upstream from lock 69.

REMARKS.--Records poor. This record shows combined flow in Black River Canal and Lansing Kill spillway, and represents total diversion from Black River at Forestport, through Forestport feeder, into Mohawk River basin. Discharge during periods when no water was diverted, made up of leakage through headgates and runoff from area draining into canal above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge recorded, 323 ft³/s (9.15 m³/s) Nov. 1915; practically no flow at times when no water is being diverted.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.1	.96				---	1.6	2.3	10	4.4	5.3
2	2.6	2.0	.85				---	1.7	2.3	7.8	4.4	6.7
3	2.5	1.9	.83				---	1.6	2.3	6.9	4.1	7.2
4	2.3	1.9	.79				---	1.6	2.3	6.8	4.1	7.2
5	2.2	1.6	.81				---	1.6	2.3	6.3	4.1	6.7
6	2.1	1.5	.96				---	1.6	2.3	6.0	4.1	6.8
7	2.2	1.4	.99				---	2.9	2.3	6.0	4.1	6.3
8	2.1	1.4	.91				---	2.9	2.2	6.3	4.4	6.2
9	2.0	1.3	.80				---	2.5	2.3	6.9	4.7	5.7
10	2.0	1.3	.85				---	2.5	2.3	5.6	4.0	7.2
11	2.0	1.3	.81				---	2.5	2.3	5.6	3.8	12
12	2.0	1.0	.74				---	2.7	2.2	6.1	3.9	13
13	2.0	1.0	.61				---	2.5	2.1	5.8	7.6	10
14	2.1	.93	.61				1.5	2.5	2.2	5.3	14	8.2
15	1.9	.83	.76				1.5	2.7	3.3	4.6	17	7.1
16	1.7	.75	.77				1.6	2.5	4.4	5.7	17	6.8
17	1.6	.71	---				1.6	2.5	6.2	8.2	14	7.6
18	2.0	.67	---				1.6	2.3	5.1	4.9	12	9.1
19	2.0	.67	---				1.7	2.5	4.2	4.4	10	8.9
20	2.6	.63	---				1.7	3.2	5.3	4.4	10	7.4
21	2.5	.66	---				1.6	2.5	6.0	4.3	20	7.3
22	2.3	.66	---				1.7	2.4	7.4	4.2	19	7.2
23	2.3	.62	---				1.8	2.4	5.5	4.2	10	7.4
24	2.3	.62	---				1.8	2.3	4.7	4.2	7.4	7.1
25	2.2	.64	---				1.8	2.3	14	4.2	6.3	7.2
26	2.2	.69	---				2.5	2.3	12	4.2	5.8	7.8
27	2.2	.73	---				2.3	2.2	9.5	4.1	5.8	28
28	2.3	.77	---				1.8	2.1	6.8	4.3	6.0	24
29	2.3	.73	---				1.7	2.3	7.1	5.3	6.7	17
30	2.2	.73	---				1.6	2.3	7.9	4.5	5.5	13
31	2.1	---	---				---	2.3	---	4.5	5.0	---
TOTAL	67.5	31.76	---				---	71.8	141.1	171.6	249.2	281.4
MEAN	2.18	1.06	---				---	2.32	4.70	5.54	8.04	9.38
MAX	2.7	2.1	---				---	3.2	14	10	20	28
MIN	1.6	.62	---				---	1.6	2.1	4.1	3.8	5.3

STREAMS TRIBUTARY TO LAKE ONTARIO

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04252500 BLACK RIVER NEAR BOONVILLE, NY

LOCATION.--Lat 43°30'42", long 75°18'25", Oneida County, Hydrologic Unit 04150101, on left bank at downstream side of bridge on Moose River Road, 0.8 mi (1.3 km) upstream from Sugar River, and 2 mi (3 km) northeast of Boonville.

DRAINAGE AREA.--295 mi² (764 km²).

PERIOD OF RECORD.--January 1911 to current year.

REVISED RECORDS.--WSP 759: Drainage area. WSP 784: 1934. WSP 1084: 1912(M), 1913, 1917-1919(M), 1922(M), 1924(M), 1926(M), 1928(M), 1930(M), 1933(M). WSP 1307: 1914(M).

GAGE.--Water-stage recorder. Datum of gage is 935.50 ft (285.140 m) above mean sea level. Prior to Sept. 27, 1933, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are fair. Occasional regulation by several headwater reservoirs. Forestport feeder diverts water from State Pond at Forestport 9 mi (14 km) upstream. That portion of diverted water which does not pass Black River Canal (flowing south), see station 04252000, returns to Black River below station through Mill Creek sluiceway. Slight diurnal fluctuation at medium and low flow caused by mill above station.

AVERAGE DISCHARGE.--65 years, 693 ft³/s (19.62 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,400 ft³/s (351 m³/s) Mar. 28, 1913, gage height, about 12.5 ft (3.81 m), from floodmarks; minimum observed, about 5 ft³/s (0.14 m³/s) Aug. 26, 1918, gage height, 2.40 ft (0.732 m); minimum daily, 7 ft³/s (0.20 m³/s) Aug. 26, 1918.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,900 ft³/s (110 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 28	1515	ice jam	*11.07 3.374	Apr. 2	0145	*10,300 292	10.37 3.161
Mar. 28	1645	5,990 170	9.22 2.810				

Minimum discharge, 232 ft³/s (6.57 m³/s) Sept. 10, gage height, 4.13 ft (1.259 m); minimum daily, 242 ft³/s (6.85 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	844	503	1430	580	1800	1500	6650	1310	856	1390	484	289
2	780	526	1860	520	1200	1500	8760	1530	886	1160	555	326
3	780	580	1330	520	1000	1500	4880	1540	746	1060	448	319
4	685	952	1000	520	900	1500	3100	1580	658	986	374	281
5	621	1690	906	520	800	1800	2420	1330	605	838	346	271
6	590	1290	1030	480	780	2400	2240	1100	550	636	342	281
7	580	1050	1550	500	740	2100	2170	1280	712	507	399	271
8	550	1040	1310	540	700	1500	2040	1620	946	493	626	256
9	526	1150	1150	500	660	1200	1760	1340	701	652	893	242
10	493	1130	1190	560	600	1200	1580	1100	570	605	1270	300
11	493	2100	1130	560	620	1100	1740	1010	512	522	1070	443
12	674	1740	906	520	600	840	1650	1570	503	893	850	457
13	786	1860	820	500	660	900	1420	1670	560	1210	746	391
14	1350	2110	757	500	620	940	1380	1350	457	906	1010	326
15	1420	1690	874	500	620	860	1590	1610	590	768	946	285
16	1030	1380	1140	520	700	720	2150	1530	647	740	913	267
17	868	1240	919	450	900	680	2750	1270	1060	1390	993	300
18	1110	973	800	450	1100	680	2760	1160	1270	1190	862	304
19	1750	906	600	450	1400	700	2550	1310	926	874	685	300
20	2640	850	580	500	1500	860	2200	2670	826	696	493	323
21	2530	1010	620	520	1300	1810	1790	3660	1350	517	391	330
22	1660	1970	660	500	1500	3220	1440	3200	1210	470	370	323
23	1190	1650	660	450	1900	2900	1590	2930	1060	417	346	323
24	939	1270	640	450	1900	2350	1390	2430	886	404	323	342
25	820	1070	620	500	1500	2170	1320	2040	1140	408	292	315
26	780	946	660	800	1300	2270	2120	1680	1520	374	267	311
27	697	926	800	1400	1200	2690	2210	1610	1350	342	285	746
28	616	1080	760	2900	1300	5430	1940	1290	1160	334	338	880
29	575	959	740	2900	1300	4710	1810	1000	815	330	366	636
30	546	880	720	2500	---	3170	1500	874	797	457	354	531
31	517	---	720	2200	---	3090	---	797	---	470	319	---
TOTAL	29440	36521	28882	25310	31100	58290	72900	50391	25869	22039	17956	10969
MEAN	950	1217	932	816	1072	1880	2430	1626	862	711	579	366
MAX	2640	2110	1860	2900	1900	5430	8760	3660	1520	1390	1270	880
MIN	493	503	580	450	600	680	1320	797	457	330	267	242

CAL YR 1975	TOTAL	315413	MEAN	864	MAX	5610	MIN	98
WTR YR 1976	TOTAL	409667	MEAN	1119	MAX	8760	MIN	242

STREAMS TRIBUTARY TO LAKE ONTARIO

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, NY

LOCATION.--Lat 43°44'50", long 75°20'05", Lewis County, Hydrologic Unit 04150101, on right bank at downstream side of highway bridge on Donnattsburg Road at Donnattsburg, 1.2 mi (1.9 km) downstream from Chase Lake Outlet, 4.2 mi (6.8 km) northeast of Glenfield, and 5.0 mi (8.0 km) upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--91.7 mi² (238 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 972.84 ft (296.522 m) above mean sea level. Prior to Sept. 16, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except those for winter periods, which are poor.

AVERAGE DISCHARGE.--34 years, 189 ft³/s (5.352 m³/s), 27.97 in/yr (710.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft³/s (97.7 m³/s) May 20, 1969, gage height, 8.72 ft (2.658 m) from rating curve extended above 2,000 ft³/s (56.6 m³/s); minimum observed, 18 ft³/s (0.51 m³/s) Sept. 17, 1948, Aug. 4, 5, 1949, gage height, 2.85 ft (0.869 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s (34 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 29	--	ice jam	6.70 2.042	Apr. 2	0230	1,810 51.3	6.86 2.091
Mar. 22	1730	1,470 41.6	6.40 1.951	May 21	0530	1,940 54.9	7.02 2.140
Mar. 28	1500	*2,140 60.6	*7.29 2.222				

Minimum discharge, 62 ft³/s (1.76 m³/s) Aug. 27, 28, gage height, 3.27 ft (0.997 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	114	463	190	500	350	1270	318	173	196	223	118
2	239	118	681	180	340	340	1510	387	164	193	237	181
3	246	148	406	170	280	320	787	379	138	171	163	172
4	206	490	267	160	260	310	520	350	123	154	117	125
5	175	804	222	150	230	450	406	290	113	131	94	109
6	160	416	248	160	220	769	361	245	110	110	95	100
7	136	273	372	150	190	775	342	353	108	94	115	93
8	123	224	335	140	180	502	321	576	102	131	187	86
9	115	239	258	150	170	339	283	430	94	160	253	80
10	110	244	267	140	160	280	251	304	84	129	288	86
11	110	477	258	140	160	236	261	242	91	103	240	109
12	152	450	199	130	150	199	264	321	111	101	182	126
13	184	469	183	130	150	205	230	342	91	112	191	119
14	239	521	176	140	150	219	216	270	82	144	426	98
15	246	402	210	150	160	205	230	290	94	159	423	83
16	216	318	300	160	160	178	287	274	113	135	509	76
17	190	266	233	150	170	176	335	239	161	162	411	74
18	312	254	210	140	180	166	332	216	147	149	265	76
19	548	284	142	130	190	164	287	290	113	117	186	93
20	675	274	131	130	230	210	239	1060	119	97	141	97
21	621	275	140	120	220	685	202	1730	181	150	115	96
22	406	440	140	130	240	1310	188	1130	199	219	98	98
23	286	391	160	130	280	1120	242	938	171	149	87	372
24	225	286	180	130	400	676	233	703	142	116	82	387
25	197	224	200	120	330	630	213	498	205	104	72	231
26	184	199	220	200	310	816	332	399	414	88	68	170
27	158	196	230	400	320	938	430	339	459	83	65	362
28	141	224	250	700	340	1900	498	277	379	88	86	509
29	134	207	240	1100	350	1280	562	227	233	91	206	302
30	128	196	220	900	---	719	447	196	183	121	222	207
31	119	---	200	800	---	676	---	178	---	136	148	---
TOTAL	7213	9423	7741	7720	7020	17143	12079	13791	4897	4093	5995	4835
MEAN	233	314	250	249	242	553	403	445	163	132	193	161
MAX	675	804	681	1100	500	1900	1510	1730	459	219	509	509
MIN	110	114	131	120	150	164	188	178	82	83	65	74
CFSM	2.54	3.42	2.73	2.72	2.64	6.03	4.39	4.85	1.78	1.44	2.10	1.76
IN.	2.93	3.82	3.14	3.13	2.85	6.95	4.90	5.59	1.99	1.66	2.43	1.96
CAL YR 1975	TOTAL	84349	MEAN 231	MAX 1890	MIN 27	CFSM 2.52	IN 34.22					
WTR YR 1976	TOTAL	101950	MEAN 279	MAX 1900	MIN 65	CFSM 3.04	IN 41.36					

STREAMS TRIBUTARY TO LAKE ONTARIO

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04256000 INDEPENDENCE RIVER AT DONNATTSBURG, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-61, 1964 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1959 to September 1961, October 1963 to current year.

INSTRUMENTATION.--Temperature recorder since October 1959.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1960-61, 1964-69, 1971-76), 26.5°C July 24, 1961 and Aug. 1, 2, 1975; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 20.5°C June 15; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	12.0	5.0	4.5	3.5	2.5	0.5	0.0	0.5	0.5	0.5	0.5
2	13.5	11.0	7.0	5.0	2.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5
3	11.0	9.0	9.5	7.0	1.0	1.0	0.5	0.0	0.5	0.5	0.5	0.5
4	12.0	10.5	10.0	9.5	1.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5
5	11.5	9.5	10.0	8.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.0
6	12.0	11.0	8.5	7.0	1.0	0.5	0.5	0.5	1.0	0.5	0.0	0.0
7	11.5	10.0	10.0	7.5	1.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0
8	10.0	8.5	11.0	10.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
9	10.5	9.5	11.0	10.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0	0.5
10	10.5	10.5	11.0	10.0	1.0	0.5	0.5	0.5	0.5	0.0	1.0	1.0
11	11.5	10.5	10.0	7.5	1.0	0.5	0.5	0.5	0.0	0.0	1.0	1.0
12	11.5	10.5	7.5	6.0	1.0	0.5	0.5	0.5	0.0	0.0	1.0	1.0
13	10.5	10.5	6.0	6.0	1.0	0.5	0.5	0.0	0.0	0.0	1.0	0.5
14	11.0	10.5	6.0	3.5	2.0	1.0	0.0	0.0	0.5	0.0	1.0	0.5
15	11.5	11.0	3.5	2.5	3.5	2.0	0.5	0.0	0.5	0.5	2.0	1.0
16	11.5	10.5	3.5	2.5	2.5	0.5	0.5	0.0	0.5	0.5	1.0	1.0
17	11.0	9.5	3.5	2.5	1.0	0.5	0.5	0.0	0.5	0.5	1.0	1.0
18	10.0	9.5	4.5	3.5	1.0	0.5	1.0	0.5	0.5	0.5	1.0	0.5
19	9.5	9.5	4.5	4.0	1.0	1.0	1.0	0.5	0.5	0.5	1.5	1.0
20	9.5	9.5	4.0	3.5	1.0	1.0	0.5	0.0	0.5	0.5	4.5	1.5
21	9.5	9.5	5.0	4.0	1.0	0.5	0.0	0.0	0.5	0.5	2.5	1.5
22	10.5	9.5	5.0	3.5	0.5	0.5	0.5	0.0	0.5	0.5	1.5	1.0
23	11.0	9.5	3.5	3.5	0.5	0.5	1.0	0.5	0.5	0.5	1.5	1.0
24	12.0	10.5	3.5	2.0	1.0	0.5	0.5	0.5	0.5	0.5	2.5	1.5
25	12.5	11.5	2.0	1.0	1.0	0.5	0.5	0.5	0.5	0.0	2.0	2.0
26	12.5	10.5	1.5	1.5	0.5	0.5	0.5	0.0	0.5	0.0	2.5	1.5
27	10.5	8.5	1.5	1.5	0.5	0.5	0.0	0.0	0.5	0.5	4.0	2.0
28	9.5	8.5	1.5	1.5	0.5	0.5	0.0	0.0	0.5	0.5	4.0	2.0
29	9.5	9.0	1.5	1.5	0.5	0.5	0.0	0.0	0.5	0.5	4.0	2.0
30	9.0	5.5	2.5	1.5	0.5	0.0	0.0	0.0	---	---	5.0	2.5
31	5.5	4.0	---	---	0.0	0.0	0.5	---	---	---	6.0	5.0
MONTH	13.5	4.0	11.0	1.0	3.5	0.0	1.0	0.0	1.0	0.0	6.0	0.0

STREAMS TRIBUTARY TO LAKE ONTARIO

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	4.0	9.0	7.5	16.0	15.0	16.0	14.5	14.5	13.5	14.5	14.0
2	4.0	4.0	9.5	9.0	16.0	12.0	15.0	14.0	14.5	11.5	15.0	13.5
3	4.5	4.0	9.5	8.5	16.0	13.5	14.0	13.5	14.0	11.5	14.5	11.5
4	5.0	4.0	9.0	7.0	17.0	14.0	14.5	12.0	15.5	12.5	14.0	13.5
5	6.0	4.0	9.0	6.0	18.5	14.5	16.5	14.0	15.5	14.0	13.5	12.5
6	7.0	5.5	9.0	9.0	17.0	15.0	17.0	15.0	15.5	14.0	13.5	10.5
7	7.5	6.0	9.0	7.5	17.5	15.5	17.0	15.5	14.0	12.0	13.5	11.0
8	6.5	5.5	8.5	7.0	20.0	15.0	16.0	15.0	14.0	12.0	15.5	12.0
9	6.5	4.5	9.5	7.0	19.5	16.5	16.0	14.0	14.5	13.5	15.5	12.5
10	7.5	5.5	12.5	8.5	20.0	16.5	15.5	14.0	14.5	13.5	15.0	14.0
11	7.5	4.0	12.5	11.5	19.0	17.0	16.0	14.0	14.5	12.0	14.0	11.5
12	5.5	3.5	11.5	9.5	18.5	15.0	15.5	13.5	15.0	14.0	13.5	10.0
13	7.0	3.5	11.0	7.5	17.0	14.0	13.5	11.5	16.0	15.0	14.5	12.0
14	9.0	6.0	11.0	10.5	17.5	14.5	12.0	11.5	16.0	15.0	15.5	13.5
15	7.5	6.5	15.5	11.0	20.5	15.5	14.0	11.0	16.0	15.0	16.5	14.5
16	9.5	7.5	16.0	14.0	20.0	18.5	14.0	13.5	15.0	13.5	16.0	15.5
17	11.0	8.5	16.5	15.0	19.5	17.0	13.5	12.0	14.0	12.0	16.0	15.0
18	12.5	10.0	16.0	11.5	19.5	16.0	13.5	11.5	14.5	12.0	16.5	15.5
19	14.0	11.0	11.5	6.5	20.0	17.5	14.5	12.0	15.5	12.5	17.0	15.0
20	14.0	11.5	6.5	5.5	18.5	16.0	15.0	13.5	16.0	14.0	16.5	14.5
21	12.5	10.0	6.0	5.0	17.5	15.5	17.0	14.5	17.5	15.5	14.5	12.0
22	12.5	11.0	6.5	6.0	17.5	17.0	16.5	13.5	18.5	16.0	12.0	10.5
23	11.0	8.5	9.5	6.5	19.0	17.0	14.5	13.5	17.5	15.5	10.5	10.0
24	9.0	7.0	9.5	9.5	19.5	17.5	15.0	14.0	17.0	14.5	10.0	9.0
25	9.0	7.0	10.0	9.0	19.0	16.5	14.5	11.5	16.5	13.5	10.0	7.5
26	7.0	5.0	11.0	10.0	17.0	15.5	15.0	11.5	16.5	14.0	10.0	8.5
27	5.0	4.5	14.0	12.0	17.5	15.5	16.0	14.0	17.0	15.5	10.0	9.0
28	6.0	5.0	15.5	12.0	17.5	15.5	16.0	13.5	17.0	15.5	10.0	9.5
29	6.0	5.0	15.5	14.5	17.5	15.5	15.5	14.0	17.0	16.0	10.0	8.5
30	9.0	6.0	16.0	15.0	17.0	15.5	14.0	13.5	16.0	12.5	10.5	9.5
31	---	---	16.0	15.5	---	---	14.5	13.5	14.5	10.0	---	---
MONTH	14.0	3.5	16.5	5.0	20.5	12.0	17.0	11.0	18.5	10.0	17.0	7.5

04256500 STILLWATER RESERVOIR NEAR BEAVER RIVER, NY

LOCATION.--Lat 43°53'50", long 75°03'05", Herkimer County, Hydrologic Unit 04150101, in gatehouse at Stillwater Dam on Beaver River, 2.5 mi (4.0 km) upstream from Moshier Creek, and 7.5 mi (12.1 km) west of Beaver River Post Office.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--May 1908 to current year. Prior to February 1925, monthend contents only, published in WSP 1307. February 1925 to September 1937, compiled in WSP 824.

GAGE.--Nonrecording gage read once daily and prior to reservoir gate changes. Datum of gage is at mean sea level, adjustment of 1912.

REMARKS.--Reservoir originally formed about 1885; enlarged at various times and in 1924 enlarged to a usable capacity of 4,623 mil ft³ (131 hm³) between elevations 1,650.3 ft (503.01 m) and 1,679.3 ft (511.85 m) (top of 24-inch flashboards in place throughout year). Elevation of gate sill of lowest outlet, 1,642.3 ft (500.57 m). Capacity below elevation 1,650.3 ft (503.01 m), 90 mil ft³ (2.55 hm³), is included in records presented herein, but is not ordinarily available for release. Reservoir is used to regulate flow of Beaver and Black Rivers for flood control, power development, and general public welfare.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 1,680.08 ft (512.088 m) May 20, 1969, contents, 4,939 mil ft³ (140 hm³); minimum observed since first filling, 1,644.80 ft (501.335 m) Mar. 25-27, 1949, contents, 8 mil ft³ (0.227 hm³).

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 1,679.49 ft (511.909 m) May 23, contents, 4,768 mil ft³ (135 hm³); minimum observed, 1,665.99 ft (507.794 m) Mar. 20, contents, 1,682 mil ft³ (47.6 hm³).

Capacity table, current year (elevation, in feet, and contents, in millions of cubic feet)

1,658.0	604	1,670.0	2,431
1,660.0	821	1,675.0	3,556
1,665.0	1,518	1,680.0	4,916

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1672.23	1673.38	1675.28	1674.08	1670.30	1667.83	1673.79	1678.93	1679.22	1679.20	1678.01	1676.87
2	1672.28	1673.35	1675.52	1673.93	1670.24	1667.86	1674.79	1678.88	1679.17	1679.20	1677.93	1676.87
3	1672.29	1673.34	1675.57	1673.82	1670.14	1667.86	1675.37	1679.05	1679.18	1679.22	1677.83	1676.78
4	1672.27	1673.51	1675.57	1673.71	1670.02	1667.84	1675.87	1679.15	1679.18	1679.30	1677.73	1676.64
5	1672.24	1673.74	1675.52	1673.56	1669.90	1667.81	1676.20	1679.24	1679.20	1679.34	1677.56	1676.53
6	1672.16	1673.93	1675.49	1673.43	1669.77	1668.12	1676.48	1679.20	1679.26	1679.36	1677.44	1676.43
7	1672.15	1673.91	1675.55	1673.35	1669.60	1668.32	1676.65	1679.31	1679.21	1679.32	1677.33	1676.32
8	1672.12	1673.88	1675.56	1673.13	1669.47	1668.33	1676.82	1679.35	1679.18	1679.46	1677.25	1676.19
9	1672.09	1673.89	1675.54	1672.97	1669.32	1668.23	1676.93	1679.36	1679.15	1679.44	1677.40	1676.07
10	1671.95	1673.85	1675.53	1672.80	1669.13	1668.09	1677.03	1679.32	1679.10	1679.34	1677.43	1676.09
11	1671.83	1673.94	1675.49	1672.65	1668.97	1667.94	1677.11	1679.25	1679.05	1679.22	1677.45	1675.92
12	1671.77	1674.02	1675.44	1672.50	1668.83	1667.73	1677.18	1679.22	1679.04	1679.14	1677.38	1675.80
13	1671.72	1674.09	1675.37	1672.33	1668.63	1667.56	1677.19	1679.17	1678.98	1679.12	1677.41	1675.67
14	1671.72	1674.41	1675.30	1672.22	1668.46	1667.40	1677.21	1679.06	1678.95	1679.11	1677.77	1675.53
15	1671.87	1674.41	1675.24	1672.08	1668.26	1667.19	1677.23	1679.13	1678.93	1679.09	1677.95	1675.37
16	1671.98	1674.53	1675.30	1671.92	1668.08	1666.94	1677.30	1679.17	1678.84	1679.04	1678.10	1675.20
17	1672.09	1674.60	1675.32	1671.77	1667.95	1666.73	1677.51	1679.09	1678.83	1679.02	1678.22	1675.06
18	1672.30	1674.66	1675.32	1671.58	1667.83	1666.49	1677.72	1678.98	1678.70	1678.96	1678.25	1675.02
19	1672.58	1674.57	1675.25	1671.41	1667.80	1666.23	1677.88	1679.05	1678.70	1678.88	1678.15	1674.99
20	1672.96	1674.50	1675.18	1671.23	1667.76	1665.99	1678.00	1679.17	1678.67	1678.80	1678.06	1674.95
21	1673.31	1674.49	1675.13	1671.07	1667.69	1666.02	1678.10	1679.38	1678.72	1678.82	1677.97	1674.75
22	1673.49	1674.57	1675.04	1670.87	1667.73	1666.78	1678.17	1679.44	1678.66	1678.80	1677.87	1674.57
23	1673.61	1674.67	1674.94	1670.68	1667.87	1667.60	1678.26	1679.49	1678.61	1678.73	1677.77	1674.57
24	1673.64	1674.71	1674.84	1670.48	1668.00	1668.13	1678.36	1679.47	1678.54	1678.67	1677.63	1674.50
25	1673.67	1674.72	1674.73	1670.27	1667.98	1668.59	1678.43	1679.38	1678.57	1678.58	1677.47	1674.37
26	1673.70	1674.68	1674.73	1670.11	1667.92	1669.20	1678.55	1679.27	1678.88	1678.49	1677.34	1674.23
27	1673.71	1674.79	1674.65	1670.17	1667.85	1669.77	1678.64	1679.25	1679.11	1678.37	1677.22	1674.28
28	1673.66	1674.89	1674.56	1670.27	1667.85	1670.92	1678.78	1679.28	1679.25	1678.32	1677.20	1674.47
29	1673.60	1675.00	1674.46	1670.33	1667.83	1671.90	1678.90	1679.28	1679.22	1678.22	1677.21	1674.51
30	1673.54	1675.12	1674.34	1670.37	---	1672.52	1679.00	1679.27	1679.19	1678.15	1677.12	1674.38
31	1673.48	---	1674.23	1670.37	---	1673.04	---	1679.23	---	1678.07	1677.01	---
MEAN	1672.65	1674.27	1675.16	1671.92	1668.66	1668.22	1677.32	1679.22	1678.98	1678.93	1677.63	1675.43
MAX	1673.71	1675.12	1675.57	1674.08	1670.30	1673.04	1679.00	1679.49	1679.26	1679.46	1678.25	1676.87
MIN	1671.72	1673.34	1674.23	1670.11	1667.69	1665.99	1673.79	1678.88	1678.54	1678.07	1677.01	1674.23
†	3,174	3,614	3,344	2,496	2,009	3,205	4,611	4,690	4,681	4,351	4,049	3,387
‡	+105	+170	-101	-317	-194	+447	+542	+29.5	-3.47	-123	-113	-255
CAL YR 1975	MEAN	1670.78	MAX	1677.52	MIN	1658.81	† +21.6					
WTR YR 1976	MEAN	1674.88	MAX	1679.49	MIN	1665.99	‡ +15.7					

† Content, in millions of cubic feet, at 2400 on last day of month by interpolation.

‡ Change in contents, equivalent in cubic feet per second.

STREAMS TRIBUTARY TO LAKE ONTARIO

04257000 BEAVER RIVER BELOW STILLWATER DAM, NEAR BEAVER RIVER, NY

LOCATION.--Lat 43°53'50", long 75°03'05", Herkimer County, Hydrologic Unit 04150101, in gatehouse at Stillwater Dam, 2.5 mi (4.0 km) upstream from Moshier Creek, and 7.5 mi (12.1 km) west of Beaver River Post Office.

DRAINAGE AREA.--172 mi² (445 km²).

PERIOD OF RECORD.--May 1908 to current year. Published as "at State dam, near Beaver River" prior to June 1924.

REVISED RECORDS.--WSP 714: Drainage area. WRD NY 1967: 1966. WRD NY 1973: 1971.

GAGE.--Nonrecording gage read once daily and after reservoir gate changes. Datum of gage is at mean sea level, adjustment of 1912. Prior to June 1, 1924, nonrecording gage at present site and datum. June 1, 1924 to Nov. 14, 1929, nonrecording gage at site 1,000 ft (305 m) downstream at same datum.

REMARKS.--Records poor. Flow regulated by Stillwater Reservoir (see station 04256500). Discharge determined from ratings for gates and spillway of Stillwater Dam applied to log of reservoir elevation and gate operation.

COOPERATION.--Records furnished by Board of Hudson River-Black River Regulating District.

AVERAGE DISCHARGE.--68 years, 372 ft³/s (10.54 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,700 ft³/s (105 m³/s) May 3, 1926; practically no flow at times when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,730 ft³/s (49.0 m³/s) May 23; minimum daily, 64 ft³/s (1.81 m³/s) Mar. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	224	512	444	740	718	870	71	958	670	635	602	681
2	531	512	631	737	717	870	72	608	523	635	599	680
3	531	415	632	736	716	870	72	421	443	462	596	680
4	531	326	632	735	715	980	73	425	384	328	661	678
5	531	162	632	733	713	1060	307	540	109	337	691	677
6	492	521	631	731	711	1060	502	601	333	552	688	676
7	407	517	631	729	709	1070	540	847	444	648	686	674
8	407	517	632	726	702	1070	541	1020	443	916	267	673
9	489	517	632	724	727	1070	542	1030	442	1060	326	474
10	529	517	632	722	736	1070	543	1020	441	1040	473	422
11	527	517	631	721	733	1060	544	1020	417	1020	546	671
12	473	518	630	719	732	1060	610	1020	333	759	589	669
13	431	409	630	718	729	1050	646	1020	331	632	514	668
14	197	300	630	715	726	1050	647	788	522	631	477	713
15	69	301	629	714	717	1050	647	667	623	631	480	735
16	69	301	629	711	720	1040	619	871	622	630	485	733
17	69	302	630	709	718	1040	419	1010	621	629	488	490
18	70	553	630	707	717	1030	422	785	539	625	628	284
19	70	615	630	705	717	1020	424	743	341	623	704	283
20	70	523	629	703	716	1020	428	1250	340	621	702	580
21	287	522	628	723	715	1020	431	1630	525	621	699	728
22	395	523	628	727	715	580	432	1710	617	620	696	728
23	396	524	627	725	716	64	434	1730	616	619	694	727
24	397	524	626	721	818	64	436	1670	615	618	692	726
25	398	524	625	718	873	65	438	1650	468	616	689	725
26	398	449	624	716	872	66	440	1240	99	614	687	723
27	471	72	623	716	871	66	443	795	104	611	685	548
28	515	72	622	717	871	67	527	673	459	608	684	454
29	515	72	621	718	870	68	652	673	635	606	684	508
30	514	72	688	719	---	70	732	673	634	604	684	724
31	513	---	741	719	---	70	---	672	---	603	684	---
TOTAL	11516	12209	19480	22354	21710	22610	13634	29760	13693	20154	18780	18732
MEAN	371	407	628	721	749	729	454	960	456	650	606	624
MAX	531	615	741	740	873	1070	732	1730	670	1060	704	735
MIN	69	72	444	703	702	64	71	421	99	328	267	283
CAL YR 1975	TOTAL	165468	MEAN	453	MAX	1730	MIN	57				
WTR YR 1976	TOTAL	224632	MEAN	614	MAX	1730	MIN	64				

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LOCATION.--Lat 43°53'50", long 75°24'16", Lewis County, Hydrologic Unit 04150101, on left bank 1,200 ft (366 m) upstream from Black Creek, and 0.5 mi (0.8 km) west of Croghan.

PERIOD OF RECORD.--September 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 806.20 ft (245.730 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 582 ft³/s (16.48 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft³/s (144 m³/s) May 21, 1969, gage height, 6.98 ft (2.128 m); minimum, 11 ft³/s (0.31 m³/s) Jan. 22, 29, Feb. 4, 1967, gage height, 0.63 ft (0.192 m); minimum daily, 22 ft³/s (0.62 m³/s) July 18, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,000 ft³/s (85.0 m³/s) May 22, gage height, 5.50 ft (1.676 m); minimum, 95 ft³/s (2.69 m³/s) July 4, gage height, 1.41 ft (0.430 m); minimum daily, 306 ft³/s (8.67 m³/s) June 13.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	691	517	657	769	1120	1240	1230	1110	765	889	591	905
2	717	513	1140	773	1070	1220	1140	1090	818	789	845	1040
3	677	646	1430	770	1020	1470	1050	1030	702	605	835	1010
4	572	742	1040	596	950	1520	948	1010	702	384	721	899
5	351	694	928	520	875	1900	879	1040	480	778	793	846
6	638	793	937	752	823	1850	865	994	369	741	840	767
7	669	665	784	818	838	2000	838	1060	607	736	800	833
8	624	803	780	714	762	1720	899	977	382	779	562	818
9	507	790	969	714	833	1480	963	1030	480	821	878	613
10	636	721	1080	804	847	1460	934	1410	581	931	785	708
11	411	928	1110	845	848	1440	934	1460	500	892	830	880
12	460	869	1100	858	855	1210	941	1210	552	858	805	858
13	454	961	1000	886	859	1240	934	1440	306	905	1110	611
14	677	1090	928	892	851	1230	852	1450	367	902	976	710
15	735	1080	892	831	828	1210	838	1240	622	913	1200	740
16	660	897	931	752	834	1210	831	1240	772	882	1030	636
17	497	963	845	733	869	1130	825	1180	712	875	995	737
18	422	895	865	785	970	1200	822	1040	760	787	1010	730
19	735	679	823	798	1130	1430	818	1300	398	733	952	675
20	792	582	793	999	1100	1260	705	2180	717	608	884	587
21	737	590	784	721	1180	1750	591	2720	728	641	644	701
22	760	816	728	684	1270	2500	525	2780	932	848	772	671
23	845	772	788	671	1200	2240	456	2660	592	812	808	756
24	683	990	796	571	1340	1690	456	2420	607	812	599	856
25	387	902	558	696	1320	1350	478	2160	805	554	598	709
26	364	700	527	777	1510	1090	553	2000	1480	834	738	759
27	496	472	738	1190	1300	1070	886	1880	1150	695	669	1010
28	526	324	817	1410	1290	1450	992	1330	910	694	666	1050
29	462	351	1040	1180	1140	1410	1400	1050	762	654	1090	1100
30	545	470	1000	1130	---	1340	1010	955	889	702	1050	1040
31	501	---	808	1170	---	1080	---	818	---	624	1000	---
TOTAL	18231	22215	27616	25809	29832	46190	25593	45264	20447	23678	26076	24255
MEAN	588	741	891	833	1029	1490	853	1460	682	764	841	809
MAX	845	1090	1430	1410	1510	2500	1400	2780	1480	931	1200	1100
MIN	351	324	527	520	762	1070	456	818	306	384	562	587
CAL YR 1975	TOTAL	250319	MEAN	686	MAX	1940	MIN	53				
WTR YR 1976	TOTAL	335206	MEAN	916	MAX							

STREAMS TRIBUTARY TO LAKE ONTARIO

04260500 BLACK RIVER AT WATERTOWN, NY
(National stream-quality accounting network station)

LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, Hydrologic Unit 04150101, on downstream side of right abutment of Vanduzee Street Bridge at Watertown, and 3.5 mi (5.6 km) upstream from Philomel Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--1,876 mi² (4,859 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1920 to current year.

REVISED RECORDS.--WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 374.88 ft (114.263 m) above mean sea level. Prior to Sept. 3, 1921, nonrecording gage at same site and datum.

REMARKS.--Records fair. Flow regulated by Stillwater Reservoir (see station 04256500), Fulton Chain of Lakes (see station 04253500), and other reservoirs. Extensive diurnal fluctuation at low and medium flow caused by mills and powerplants in and above Watertown. During canal season, water is diverted out of basin through Forestport feeder and Black River Canal (flowing south), see station 04252000.

AVERAGE DISCHARGE.--56 years, 3,947 ft³/s (111.8 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,700 ft³/s (1,040 m³/s) Apr. 5, 1963, gage height, 11.57 ft (3.527 m); minimum, 10 ft³/s (0.28 m³/s) Sept. 2, 1934, gage height, -0.19 ft (-0.058 m); minimum daily, 137 ft³/s (3.88 m³/s) Sept. 4, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, about 39,700 ft³/s (1,120 m³/s) Apr. 23, 1869 (from New York State Museum Bulletin 85).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 17,000 ft³/s (480 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 24	0400	18,100 513	7.86 2.396	Apr. 3	1530	*25,400 719	*9.38 2.859
Mar. 30	0115	22,800 646	8.83 2.691				

Minimum discharge, 572 ft³/s (16.2 m³/s) June 14, gage height, 1.16 ft (0.354 m); minimum daily, 1,920 ft³/s (54.4 m³/s), Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11100	3010	7050	4120	8900	11200	16700	8660	5600	5860	3570	2970
2	8890	2940	7850	4180	8790	10700	19800	8430	4930	5560	4150	2950
3	7290	3290	7470	3370	8520	10200	24600	8120	4670	5590	4290	3150
4	5950	4260	7110	3250	7710	9760	22200	7870	4230	5190	3480	2840
5	4710	5800	7200	3340	7310	12000	16800	7780	3610	4610	2990	2540
6	3740	6380	7520	3110	6610	15600	13300	7530	3050	4380	2790	2300
7	3470	6810	7250	3000	5890	15800	11200	7950	2650	3630	2600	2250
8	3230	7470	6610	3250	5010	14600	10100	8610	3180	3210	3050	2390
9	2650	8510	5800	3250	4620	12600	9330	8230	3180	3470	4090	2110
10	2750	9260	5600	3660	4280	10400	8700	8050	3280	3810	4970	1920
11	2680	9510	7550	3630	4230	8860	8130	7790	2850	3630	5240	2650
12	2730	9380	7190	3680	4390	7900	7680	7460	2700	3300	5110	3080
13	3440	8790	6460	3490	4350	7070	7420	7310	2790	4230	5300	2910
14	4730	9380	5680	3000	4620	6640	7020	7580	2350	5700	6540	2650
15	5580	9670	5940	3310	4610	6650	6620	7710	2830	5840	6190	2410
16	5610	9450	6820	3470	4790	6380	6410	7470	3210	5380	5840	2190
17	5100	8860	6440	3240	5580	4590	6630	7230	3600	4810	5680	2100
18	4920	8180	5810	3680	6410	4520	7130	7000	3890	5240	5630	2010
19	6230	7250	4490	3630	7460	5380	7780	7220	4350	5400	4920	2260
20	7700	6300	3900	2950	8100	6900	8230	12400	4530	4820	4240	2550
21	8340	7000	4420	2840	8090	12100	8260	14900	5350	4230	3410	2410
22	8830	6790	4740	2660	9370	14700	7840	15700	5940	3980	2690	2680
23	8830	5990	4160	3170	10500	16600	7360	16300	5710	3670	2670	4680
24	8040	5600	4350	3670	10600	17600	6910	15400	5170	3230	2430	4750
25	6810	5580	4140	3430	10700	16200	6620	14000	5480	2850	2130	4250
26	5470	5640	3350	2650	10900	15000	6920	12700	7030	2730	2010	3680
27	4570	7410	3220	3530	11600	14500	7510	11700	8080	2660	2070	5030
28	4070	7920	4160	6100	12000	16300	8650	10500	7990	2420	1960	6670
29	3580	8400	4700	6900	11500	20900	9210	9090	7350	2310	2730	6510
30	3280	7880	4590	7680	---	21700	9210	7840	6670	2370	3930	5810
31	3100	---	4300	8700	---	18200	---	6600	---	2770	3400	---
TOTAL	167420	212710	175870	119940	217440	371550	304270	295130	136250	126880	120100	96700
MEAN	5401	7090	5673	3869	7498	11990	10140	9520	4542	4093	3874	3223
MAX	11100	9670	7850	8700	12000	21700	24600	16300	8080	5860	6540	6670
MIN	2650	2940	3220	2650	4230	4520	6410	6600	2350	2310	1960	1920
CAL YR 1975 TOTAL	1791905			MEAN 4909	MAX 18700	MIN 745						
WTR YR 1976 TOTAL	2344260			MEAN 6405	MAX 24600	MIN 1920						

STREAMS TRIBUTARY TO LAKE ONTARIO

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04260500 BLACK RIVER AT WATERTOWN, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956-60, 1962 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1955 to September 1959, July 1962 to March 1969.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT 21...	1430	8380	110	6.9	9.0	6	12.0	100	1500	800
NOV 19...	1000	7300	58	6.4	6.0	2	12.1	98	240	63
DEC 16...	1100	6900	110	6.7	3.0	2	10.8	81	210	370
JAN 20...	1030	2920	100	6.7	.0	3	13.2	91	110	78
FEB 17...	1100	5630	130	6.8	.5	2	12.2	87	680	260
MAR 23...	1000	8950	88	6.6	1.0	7	12.4	91	8160	110
APR 21...	0900	8270	54	6.5	14.0	2	11.1	109	1500	70
MAY 18...	1000	6950	75	6.8	14.0	2	11.4	112	260	90
JUN 15...	0945	2920	89	7.1	22.0	3	8.3	95	150	83
JUL 20...	1000	4880	64	7.1	21.0	3	7.9	89	210	840
AUG 24...	0915	2480	74	6.9	21.0	1	8.9	100	827	830
SEP 22...	0915	2600	81	7.2	15.5	2	9.4	95	170	270

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT 21...	40	5	14	1.2	1.3	1.1	43	0	35	11
NOV 19...	34	9	12	1.0	1.9	.7	30	0	25	8.8
DEC 16...	51	15	17	2.0	1.8	.7	44	0	36	12
JAN 20...	35	5	12	1.3	2.7	.6	37	0	30	13
FEB 17...	52	9	18	1.6	2.6	.7	52	0	43	11
MAR 23...	31	5	11	.8	1.3	.7	31	0	25	8.5
APR 21...	--	--	--	--	--	--	18	0	15	7.0
MAY 18...	25	4	8.3	1.0	1.1	.5	26	0	21	8.6
JUN 15...	40	8	14	1.3	2.4	.9	40	0	33	8.1
JUL 20...	28	6	9.9	.9	1.3	.7	27	0	22	12
AUG 24...	29	3	10	1.0	2.1	.5	32	0	26	8.5
SEP 22...	32	0	11	1.1	2.5	.7	41	0	34	5.7

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

STREAMS TRIBUTARY TO LAKE ONTARIO

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SI02) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 21...	2.6	.2	5.9	79	59	.16	.52	.68	.07
NOV 19...	1.8	.1	5.7	91	47	.27	.30	.57	.03
DEC 16...	2.4	.1	6.1	65	64	.41	.26	.67	.08
JAN 20...	2.6	.2	7.3	59	58	.46	.42	.88	.04
FEB 17...	3.2	.3	6.4	95	69	.71	.27	.98	.04
MAR 23...	2.6	.1	4.4	60	45	.65	.56	1.2	.05
APR 21...	.4	.1	3.8	29	--	.45	.33	.78	.03
MAY 18...	1.4	.1	4.2	47	38	.27	.40	.67	.03
JUN 15...	1.9	.1	5.2	62	54	.29	.38	.67	.06
JUL 20...	1.4	.1	5.4	55	45	.19	.33	.52	.02
AUG 24...	1.0	.1	5.9	62	45	.18	.43	.61	.05
SEP 22...	2.1	.1	6.2	54	50	.20	.33	.53	.05

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDED CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)
OCT 21...	1	1	0	1	0	1	10	10	0	1	1
MAR 23...	0	0	0	0	0	0	<10	0	<10	1	1
JUN 15...	0	0	0	3	3	0	20	0	20	0	0
JUL 20...	0	0	--	1	0	1	10	0	--	0	0

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS-PENDED MANGANESE (MN) (UG/L)
OCT 21...	0	10	10	0	520	160	16	9	7	40	20
MAR 23...	0	10	10	0	1100	100	10	9	1	50	30
JUN 15...	0	0	0	0	430	200	4	1	3	40	20
JUL 20...	1	0	0	0	480	190	6	3	3	40	20

DATE	DIS-SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUS-PENDED SELENIUM (SE) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)
OCT 21...	20	<.5	.0	<.5	20	10	10	0	0	0
MAR 23...	20	<.5	.0	<.5	10	0	20	0	0	0
JUN 15...	20	<.5	.0	<.5	10	0	10	0	0	0
JUL 20...	20	<.5	.0	<.5	10	0	20	0	0	0

STREAMS TRIBUTARY TO LAKE ONTARIO

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)
OCT 21...	7.8	--	--	--	--	--	--	--	--	--	--
NOV 19...	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 17...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAR 23...	5.0	--	--	--	--	--	--	--	--	--	--
MAY 18...	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN 15...	5.8	--	--	--	--	--	--	--	--	--	--
SEP 22...	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
OCT 21...	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 17...	ND	--	ND	--	ND	--	ND	--	ND	--	ND
MAR 23...	--	--	--	--	--	--	--	--	--	--	--
MAY 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 22...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

ND Material specifically analyzed for, but not detected.

STREAMS TRIBUTARY TO LAKE ONTARIO

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL PARA- THION (UG/L)
OCT 21...	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 17...	--	ND	--	ND	--	ND	ND	--	ND	--	ND
MAR 23...	--	--	--	--	--	--	--	--	--	--	--
MAY 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 22...	--	ND	--	ND	--	ND	ND	--	ND	--	ND

DATE	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)
OCT 21...	--	--	--	--	--	--	--	--	--	--	--
NOV 19...	ND	ND	ND	ND	ND	ND	--	ND	--	ND	--
FEB 17...	--	ND	--	ND	--	ND	--	ND	--	ND	--
MAR 23...	--	--	--	--	--	--	--	--	--	--	--
MAY 18...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN 15...	--	--	--	--	--	--	--	--	--	--	--
SEP 22...	--	ND	--	ND	--	ND	--	ND	--	ND	--

ND Material specifically analyzed for, but not detected.

STREAMS TRIBUTARY TO LAKE ONTARIO

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04260500 BLACK RIVER AT WATERTOWN, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Oct. 21	1430	CHRYSTOPHYTA			Nov. 19	1000	CHRYSTOPHYTA		
		BACILLARIOPHYCEAE					BACILLARIOPHYCEAE		
		CENTRALES					CENTRALES		
		COSCONODISCACEAE					COSCONODISCACEAE		
		CYCLOTELLA	L	0			CYCLOTELLA	L	0
		MELOSIRA	18	36			PENNALES		
		PENNALES					ACHNANTHACEAE		
		ACHNANTHACEAE					COCCONEIS	16	1
		ACHNANTHES	2	4			CYMBELLACEAE		
		COCCONEIS	2	4			CYMBELLA	L	0
		CYMBELLACEAE					DIATOMACEAE		
		CYMBELLA	6	12			DIATOMA	L	0
		EUNOTIACEAE					NAVICULACEAE		
		EUNOTIA	2	4			NAVICULA	L	0
		FRAGILARIACEAE					NITZSCHACEAE		
		FRAGILARIA	6	12			NITZSCHIA	16	1
		SYNEDRA	L	0			CHRYSTOPHYCEAE		
		GOMPHONEMACEAE					CHRYSONOMADALES		
		GOMPHONEMA	2	4			OCHROMONADACEAE		
		NAVICULACEAE					DINOBRYON	L	0
		NAVICULA	10	20			CYANOPHYTA		
		NITZSCHACEAE					MYXOPHYCEAE		
		NITZSCHIA	2	4			OSCILLATORIALES		
		TABELLARIACEAE					OSCILLATORIA	L	0
		TABELLARIA	L	0			LYNGBYA	L	0
		CHRYSTOPHYCEAE					OSCILLATORIA	1,600	98
		CHRYSONOMADALES					TOTAL	1,600	
		OCHROMONADACEAE							
		DINOBRYON	L	0					
		BACILLARIOPHYCEAE							
		PENNALES							
		ACHNANTHACEAE							
		RHOICOSPHEA	L	0					
		TOTAL	51						
Dec. 16	1100	CHRYSTOPHYTA			Jan. 20	1030	CHRYSTOPHYTA		
		BACILLARIOPHYCEAE					BACILLARIOPHYCEAE		
		PENNALES					PENNALES		
		ACHNANTHACEAE					ACHNANTHACEAE		
		ACHNANTHES	19	8			ACHNANTHES	L	0
		CYMBELLACEAE					FRAGILARIACEAE		
		AMPHORA	4	2			SYNEDRA	L	0
		CYMBELLA	19	8			GOMPHONEMACEAE		
		DIATOMACEAE					GOMPHONEMA	L	0
		DIATOMA	4	2			NAVICULACEAE		
		FRAGILARIACEAE					FRUSTULIA	L	0
		ASTERIONELLA	L	0			NAVICULA	L	0
		FRAGILARIA	L	0			NITZSCHACEAE		
		SYNEDRA	15	6			NITZSCHIA	L	0
		GOMPHONEMACEAE					CYANOPHYTA		
		GOMPHONEMA	L	0			MYXOPHYCEAE		
		MERIDIONACEAE					OSCILLATORIALES		
		MERIDION	4	2			OSCILLATORIA		
		NAVICULACEAE					LYNGBYA	1,900	100
		NAVICULA	12	5			TOTAL	1,900	
		STAURONEIS	4	2					
		NITZSCHACEAE							
		HANTZSCHIA	L	0					
		NITZSCHIA	L	0					
		TABELLARIACEAE							
		TABELLARIA	19	8					
		CYANOPHYTA							
		MYXOPHYCEAE							
		CHROOCOCCALES							
		CHROOCOCCACEAE							
		ANACYSTIS	120	45					
		OSCILLATORIALES							
		OSCILLATORIA							
		PHORMIDIUM	38	15					
		TOTAL	250						

L - less than 1%, may not have been actually counted.

STREAMS TRIBUTARY TO LAKE ONTARIO

04260500 BLACK RIVER AT WATERTOWN, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Feb. 17	1100	CHLOROPHYTA CHLOROPHYCEAE CHLOROCOCCALES OCCYSTACEAE ANKISTRODESMUS	16	1	Mar. 23	1000	CHRYSOPHYTA BACILLARIOPHYCEAE PENNALES ACHNANTHACEAE ACHNANTHES	16	1
		CHRYSOPHYTA BACILLARIOPHYCEAE PENNALES ACHNANTHACEAE ACHNANTHES	31	2			CYMBELLACEAE CYMBELLA	L	0
		NAVICULACEAE NAVICULA	16	1			EUNOTIACEAE EUNOTIA	L	0
		NITZSCHACEAE NITZSCHIA	16	1			FRAGILARIACEAE SYNEDRA	16	1
		CYANOPHYTA MYXOPHYCEAE OSCILLATORIALES OSCILLATORIA	1,600	95			GOMPHONEMACEAE GOMPHONEMA	32	3
		TOTAL	1,600				MERIDIONACEAE MERIDION	32	3
							NAVICULACEAE NAVICULA	48	4
							PINNULARIA	L	0
							NITZSCHACEAE NITZSCHIA	32	3
							TABELLARIACEAE TABELLARIA	16	1
							CYANOPHYTA MYXOPHYCEAE OSCILLATORIALES OSCILLATORIA	910	83
							TOTAL	1,100	
Apr. 21	0900	CHLOROPHYTA CHLOROPHYCEAE CHLOROCOCCALES OCCYSTACEAE ANKISTRODESMUS	12	2	May 18	1000	CHLOROPHYTA CHLOROPHYCEAE CHLOROCOCCALES SCENEDESMACEAE SCENEDESMUS	43	7
		CHRYSOPHYTA BACILLARIOPHYCEAE CENTRALES COSCONODISCACEAE CYCLOTELLA	24	5			CHRYSOPHYTA BACILLARIOPHYCEAE PENNALES ACHNANTHACEAE ACHNANTHES	110	18
		PENNALES ACHNANTHACEAE ACHNANTHES	35	7			COCCONEIS CYMBELLACEAE CYMBELLA	11	2
		CYMBELLACEAE AMPHORA CYMBELLA	82	16			FRAGILARIACEAE HANNAEA SYNEDRA	65	11
		DIATOMACEAE DIATOMA	L	0			MERIDIONACEAE MERIDION	11	2
		FRAGILARIACEAE FRAGILARIA	12	2			NAVICULACEAE NAVICULA	11	2
		SYNEDRA	47	9			NITZSCHACEAE NITZSCHIA	87	14
		GOMPHONEMACEAE GOMPHONEMA	59	12			TABELLARIACEAE TABELLARIA	11	2
		MERIDIONACEAE MERIDION	24	5			CHRYSOPHYCEAE CHRYSOMONADALES MALLOMONADACEAE	22	4
		NAVICULACEAE NAVICULA	47	9			MALLOMONAS	22	4
		PINNULARIA	24	5			OCHROMONADACEAE DINOBRYON	22	4
		NITZSCHACEAE NITZSCHIA	59	12			CYANOPHYTA MYXOPHYCEAE OSCILLATORIALES NOSTOCACEAE ANABAENA	140	23
		TABELLARIACEAE TABELLARIA	L	0			TOTAL	610	
		CHRYSOPHYCEAE CHRYSOMONADALES OCHROMONADACEAE DINOBRYON OCHROMONAS	47	9					
			12	2					
		TOTAL	510						

L - less than 1%, may not have been actually counted.

STREAMS TRIBUTARY TO LAKE ONTARIO

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04260500 BLACK RIVER AT WATERTOWN, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
June 15	0945	CHLOROPHYTA			July 20	1000	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					COELASTRACEAE		
		ANKISTRODESMUS	80	6			COELASTRUM	78	10
		KIRCHNERIELLA	8	1			HYDRODICTYACEAE		
		OCCYSTIS	32	2			PEDIASTRUM	39	5
		SCENEDESMACEAE					OCCYSTACEAE		
		SCENEDESMUS	80	6			ANKISTRODESMUS	34	4
		VOLVOCALES					OCCYSTIS	10	1
		CHLAMYDOMONADACEAE					SCENEDESMACEAE		
		CHLAMYDOMONAS	88	6			CRUCIGENIA	120	15
		CHRYSPHYTA					SCENEDESMUS	160	20
		BACILLARIOPHYCEAE					CHRYSPHYTA		
		CENTRALES					BACILLARIOPHYCEAE		
		COSCINODISCEAE					CENTRALES		
		CYCLOTELLA	150	11			COSCINODISCEAE		
		MELOSIRA	56	4			CYCLOTELLA	5	1
		PENNALES					PENNALES		
		ACHNANTHACEAE					ACHNANTHACEAE		
		ACHNANTHES	96	7			ACHNANTHES	87	11
		COCCONEIS	8	1			CYMBELLACEAE		
		CYMBELLACEAE					CYMBELLA	10	1
		CYMBELLA	48	4			FRAGILARIACEAE		
		DIATOMACEAE					FRAGILARIA	5	1
		DIATOMA	16	1			SYNEDRA	5	1
		FRAGILARIACEAE					GOMPHONEMACEAE		
		FRAGILARIA	32	2			GOMPHONEMA	15	2
		SYNEDRA	40	3			NAVICULACEAE		
		GOMPHONEMACEAE					NAVICULA	49	6
		GOMPHONEMA	8	1			PINNULARIA	5	1
		NAVICULACEAE					NITZSCHACEAE		
		NAVICULA	72	5			NITZSCHIA	29	4
		NITZSCHACEAE					TABELLARIACEAE		
		NITZSCHIA	64	5			TABELLARIA	29	4
		SURIRELLACEAE					CHRYSPHYCEAE		
		SURIRELLA	8	1			CHRYSONOMADALES		
		CHRYSPHYCEAE					MALLOMONADACEAE		
		CHRYSONOMADALES					MALLOMONAS	5	1
		OCHROMONADACEAE					CYANOPHYTA		
		DINOBRYON	88	6			MYXOPHYCEAE		
		CYANOPHYTA					CHROOCOCCALES		
		MYXOPHYCEAE					CHROOCOCCACEAE		
		CHROOCOCCALES					ANACYSTIS	97	13
		CHROOCOCCACEAE					TOTAL	770	
		ANACYSTIS	280	21					
		EUGLENOPHYTA							
		CRYPTOPHYCEAE							
		CRYPTOMONIDALES							
		CRYPTOMONADACEAE							
		CRYPTOMONAS	32	2					
		EUGLENOPHYCEAE							
		EUGLENALES							
		EUGLENACEAE							
		TRACHELOMONAS	24	2					
		PYRRHOPHYTA							
		DINOPHYCEAE							
		PERIDINIALES							
		GLENODINIACEAE							
		GLENODINIUM	32	2					
		PERIDINIACEAE							
		PERIDINIUM	16	1					
		TOTAL	1,400						

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Aug. 24	0915	CHLOROPHYTA			Sep. 22	0915	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		COELASTRACEAE					SCENEDESMACEAE		
		COELASTRUM	L	0			SCENEDESMUS	35	3
		OCCYSTACEAE					CHRYSOPHYTA		
		ANKISTRODESMUS	13	3			BACILLARIOPHYCEAE		
		DICTYOSPHAERIUM	26	7			CENTRALES		
		KIRCHNERIELLA	7	2			COSCINODISCAEAE		
		SCENEDESMACEAE					MELOSIRA	80	6
		SCENEDESMUS	52	13			PENNALES		
		CHRYSOPHYTA					NAVICULACEAE		
		BACILLARIOPHYCEAE					NAVICULA	27	2
		CENTRALES					CYANOPHYTA		
		COSCINODISCAEAE					MYXOPHYCEAE		
		MELOSIRA	46	12			OSCILLATORIALES		
		PENNALES					OSCILLATORIAEAE		
		ACHNANTHACEAE					OSCILLATORIA	1,200	89
		ACHNANTHES	20	5			TOTAL	1,300	
		COCCONEIS	7	2					
		CYMBELLACEAE							
		CYMBELLA	7	2					
		FRAGILARIACEAE							
		SYNEDRA	7	2					
		GOMPHONEMACEAE							
		GOMPHONEMA	13	3					
		NAVICULACEAE							
		NAVICULA	20	5					
		NITZSCHACEAE							
		NITZSCHIA	13	3					
		TABELLARIACEAE							
		TABELLARIA	7	2					
		CHRYSOPHYCEAE							
		CHRYSONOMADALES							
		OCHROMONADACEAE							
		DINOBYRON	7	2					
		CYANOPHYTA							
		MYXOPHYCEAE							
		OSCILLATORIALES							
		OSCILLATORIAEAE							
		OSCILLATORIA	150	38					
		TOTAL	390						

L - less than 1%, may not have been actually counted.

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
May 18	27	0.231	0.154	0.250	0.0	310	Polyethylene strip
Sept. 22	29	3.69	2.54	9.32	.382	120	Polyethylene strip

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DI- MENT (MG/L)	SUS- PENDE MENT (T/DAY)	SUS. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DI- MENT (MG/L)	SUS- PENDE MENT (T/DAY)	SUS. SIEVE DIAM. % FINER THAN .062 MM
OCT 21...	1430	8380	11	249	65	MAY 18...	1000	6950	6	113	88
NOV 19...	1000	7300	4	79	69	JUN 15...	0945	2920	8	63	84
DEC 16...	1100	6900	4	75	76	JUL 06...	1100	4450	2	24	87
JAN 20...	1030	2920	2	16	77	20...	1000	4880	6	79	95
FEB 12...	1100	4240	8	92	30	AUG 03...	0930	4300	3	35	85
MAR 23...	1000	8950	32	773	84	24...	0915	2480	3	20	89
APR 21...	0900	8270	20	447	59	SEP 08...	0845	2350	1	6.4	91
						22...	0915	2600	4	28	94

LAKES AND RESERVOIRS IN STREAMS TRIBUTARY TO LAKE ONTARIO

04221990 RUSHFORD LAKE.--Lat 42°22'49", long 78°11'00", Allegany County, Hydrologic Unit 04130002, at Caneadea Dam, 2.3 mi (3.7 km) upstream from Caneadea Creek mouth.
Lake is formed by Caneadea Dam completed in 1928 with capacity of 1,104,000 ft³ (31,265 m³) and is used for power generation (see station 04221991 for monthly mean discharges).

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

04227980 CONESUS LAKE NEAR LAKEVILLE, NY (see station for daily mean elevation).

04228845 HONEOYE LAKE NEAR HONEOYE, NY (see station for daily mean elevation).

04228950 CANADICE LAKE NEAR HEMLOCK, NY (see station 04229000 for observed and adjusted monthly mean discharges).

04232400 SENECA LAKE AT WATKINS GLEN, NY (see station for daily mean elevation).

04232450 KEUKA LAKE AT HAMMONDSPORT, NY (see station for daily mean elevation).

04233500 CAYUGA LAKE AT ITHACA, NY (see station for daily mean elevation).

04234500 CANANDAIGUA LAKE AT CANANDAIGUA, NY (see station for daily mean elevation).

04235396 OWASCO LAKE NEAR AUBURN, NY (see station for daily mean elevation).

04236000 SKANEATELES LAKE AT SKANEATELES, NY (see station for daily mean elevation).

04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

04253300 SIXTH LAKE.--Lat 43°44'43", long 74°46'58", Hamilton County, Hydrologic Unit 04150101, on dam at outlet of Sixth Lake at Inlet, and 11.2 mi (18.0 km) upstream from dam at Old Forge. DRAINAGE AREA, 18.6 mi² (48.2 km²). PERIOD OF RECORD, November 1911 to current year. GAGE, nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Hudson River-Black River Regulating District).

The Sixth and Seventh Lakes of Fulton Chain Lakes are partially formed and controlled by the concrete dam at Inlet, while the Eighth Lake is upstream and at approximately 5 feet (1.5 m) higher elevation. Storage began around 1881. The present structure is a concrete dam with control gates which were installed in 1938. Usable capacity 296.6 mil ft³ (8.400 hm³) between minimum operating level, elevation 1,755.1 ft (541.05 m) and crest of spillway, elevation 1,786.0 ft (544.37 m); no dead storage below minimum operating level. Figures given herein represent total contents. The dam is operated, records collected, furnished, and stored by Board of Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 332 mil ft³ (9.4 hm³) Oct. 3, 1945, elevation, 1,787.1 ft (544.71 m); minimum observed, less than 900,000 ft³ (25,500 m³) Nov. 18, 1943, water level below elevation 1,775.6 ft (541.20 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 304.6 mil ft³ (8.6 hm³) Oct. 20, elevation, 1786.25 ft (544.45 m); minimum observed, 139.7 mil ft³ (3.96 hm³) Sept. 30, elevation, 1780.95 ft (542.83 m).

04253400 FIRST LAKE (formerly published as "Old Forge Reservoir").--Lat 43°42'44", long 74°58'12", Herkimer County, Hydrologic Unit 04150101, at dam on Middle Branch Moose River, and 100 ft (30 m) downstream from bridge on State Highway 28 at Old Forge, 11.2 mi (18.0 km) downstream from dam on Sixth Lake outlet at Inlet. DRAINAGE AREA, 52.1 mi² (135 km²). PERIOD OF RECORD, November 1911 to current year. GAGE, nonrecording gage read daily about 0800. Datum of gage is 1,700.15 ft (518.206 m) above mean sea level (levels by Board of Hudson River-Black River Regulating District).

The First through Fifth Lakes of Fulton Chain Lakes are partially formed and controlled by a concrete dam with 12-inch flashboards. Storage began around 1881 or 1882 with a wooden crib dam. This dam was replaced with a concrete dam in 1905 and gates were installed in 1927. Usable capacity with flashboards, 895.6 mil ft³ (25.36 hm³), gage height, 6.89 ft (2.100 m). Usable capacity without flashboards, 764.3 mil ft³ (21.64 hm³), gage height, 5.91 ft (1.801 m); no dead storage below minimum operating level. Figures given herein represent total contents. The dam is operated, records collected, furnished, and stored by Board of Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 1,019 mil ft³ (28.85 hm³) June 17, 1972, gage height, 7.78 ft (2.371 m); minimum observed, 6,500,000 ft³ (184,000 m³) Nov. 3, 1939, gage height, -0.35 ft (-0.107 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 946.4 mil ft³ (26.80 hm³) June 26, gage height, 7.26 ft (2.213 m); minimum observed, 434.2 mil ft³ (12.30 hm³) Mar. 5, gage height, 3.34 ft (1.018 m).

04256500 STILLWATER RESERVOIR NEAR BEAVER RIVER, NY (see station for daily elevation, skeleton capacity table, monthly contents, and change in contents).

MONTHEND ELEVATION, GAGE HEIGHT, AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	*Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	*Gage height (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
04253300 Sixth Lake				04253400 First Lake		
Sept. 30.....	1,785.62	284.4		7.01	911.4	
Oct. 31.....	1,785.33	275.2	- 3.44	6.27	811.8	- 37.2
Nov. 30.....	1,783.93	231.1	-17.0	5.02	648.6	- 63.0
Dec. 31.....	1,783.65	222.4	- 3.25	4.76	614.8	- 12.6
CAL YR 1975			+ 2.94			- 1.40
Jan. 31.....	1,782.80	196.0	- 9.86	4.96	640.8	+ 9.71
Feb. 29.....	1,782.65	191.4	- 1.83	4.80	620.0	- 8.30
Mar. 31.....	1,783.95	231.7	+15.0	4.63	597.9	- 8.25
Apr. 30.....	1,785.17	270.1	+14.8	6.63	860.2	+101
May 31.....	1,785.88	292.8	+ 8.47	7.05	917.0	+ 21.2
June 30.....	1,785.87	292.4	- 0.15	7.08	921.2	+ 1.62
July 31.....	1,785.80	290.2	- 0.82	7.09	922.6	+ .52
Aug. 31.....	1,785.55	282.2	- 2.99	6.94	902.2	- 7.62
Sept. 30.....	1,780.85	136.7	-56.1	7.02	912.8	+ 4.09
WTR YR 1976			- 4.67			+ 0.04

* Elevations or gage heights at 2400, by interpolation.

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04261000 OSWEGATCHIE RIVER AT CRANBERRY LAKE, NY

LOCATION.--Lat 44°13'15", long 74°51'00", St. Lawrence County, Hydrologic Unit 04150302, on right bank 900 ft (274 m) downstream from dam at outlet of Cranberry Lake, at village of Cranberry Lake.

DRAINAGE AREA.--144 mi² (373 km²).

PERIOD OF RECORD.--May 1923 to current year. Prior to October 1958, published as "East Branch Oswegatchie River at Cranberry Lake."

GAGE.--Water-stage recorder. Datum of gage is 1,458.23 ft (444.468 m) above mean sea level. Prior to Oct. 1, 1938, nonrecording gage at site 80 ft (24 m) upstream at same datum.

REMARKS.--Records good. Since 1867, flow regulated by Cranberry Lake.

AVERAGE DISCHARGE.--53 years, 289 ft³/s (8.184 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,940 ft³/s (54.9 m³/s) May 13, 1943, gage height, 7.70 ft (2.347 m); minimum daily, 3 ft³/s (0.085 m³/s) Apr. 9-16, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,140 ft³/s (32.3 m³/s) May 24, 25; minimum daily, 173 ft³/s (4.90 m³/s) Jan. 24-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	572	413	542	612	180	546	935	854	768	329	197	192
2	621	468	538	608	182	546	985	852	760	299	197	192
3	672	468	538	603	182	550	1010	850	649	233	197	192
4	635	468	538	603	231	550	1010	846	426	233	197	192
5	568	468	538	599	329	572	1000	809	340	233	197	192
6	590	468	538	594	329	626	985	741	235	258	197	192
7	590	468	538	585	326	631	929	744	232	311	197	192
8	550	468	538	585	326	635	806	746	228	311	197	192
9	546	464	533	581	326	635	581	748	217	342	197	192
10	453	464	533	576	326	635	231	747	194	406	197	189
11	217	464	533	572	323	635	231	771	194	406	194	190
12	217	464	529	500	323	631	230	800	195	402	197	189
13	217	464	529	333	323	631	230	799	194	402	262	189
14	217	508	529	333	323	631	230	797	194	365	402	188
15	217	550	572	333	323	626	230	793	194	283	402	192
16	217	550	663	333	320	621	230	773	194	283	525	201
17	217	550	663	323	323	621	230	652	194	283	741	199
18	217	546	658	323	345	617	230	406	194	283	736	199
19	217	546	658	323	392	608	230	409	195	254	730	199
20	280	550	654	280	392	608	230	517	197	197	725	199
21	392	550	649	187	392	617	225	828	197	197	725	199
22	392	550	649	187	399	640	225	1030	197	197	715	231
23	392	550	644	182	399	649	236	1100	197	194	576	293
24	392	550	644	173	402	663	256	1140	198	197	317	292
25	392	546	640	173	453	672	256	1140	404	197	268	292
26	392	546	635	173	492	686	373	1110	905	197	192	292
27	392	546	496	175	449	701	646	1060	832	197	192	372
28	392	542	358	175	538	677	752	1030	693	197	192	453
29	392	542	358	178	538	691	773	1000	426	197	192	392
30	388	538	358	180	---	823	856	975	329	197	192	294
31	388	---	438	180	---	869	---	895	---	197	192	---
TOTAL	12334	15269	17231	11562	10186	19843	15371	25962	10372	8277	10637	6972
MEAN	398	509	556	373	351	640	512	837	346	267	343	232
MAX	672	550	663	612	538	869	1010	1140	905	406	741	453
MIN	217	413	358	173	180	546	225	406	194	194	192	188
CAL YR 1975	TOTAL	123541	MEAN	338	MAX	852	MIN	152				
WTR YR 1976	TOTAL	164016	MEAN	448	MAX	1140	MIN	173				

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

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04262500 WEST BRANCH OSWEGATCHIE RIVER NEAR HARRISVILLE, NY

LOCATION.--Lat 44°11'08", long 75°19'52", Lewis County, Hydrologic Unit 04150302, on right bank just downstream from highway bridge, 0.5 mi (0.8 km) northeast of Geers Corners, 1.5 mi (2.4 km) downstream from Big Creek, and 4.0 mi (6.4 km) downstream from Harrisville.

DRAINAGE AREA.--258 mi² (668 km²).

PERIOD OF RECORD.--July 1916 to current year.

REVISED RECORDS.--WSP 759: Drainage area. WSP 784: 1934.

GAGE.--Water-stage recorder. Datum of gage is 738.51 ft (225.098 m) above mean sea level. Prior to Nov. 30, 1933, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--60 years, 507 ft³/s (14.36 m³/s), 26.69 in/yr (677.93 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,920 ft³/s (196 m³/s) Jan. 9, 1930, gage height, 9.6 ft (2.93 m); minimum, 25 ft³/s (0.71 m³/s) Sept. 1, 1934, gage height, 0.86 ft (0.262 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,300 ft³/s (93 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 22	1900	*4,310 122	*7.37 2.246	May 23	UNKNOWN	†4,200 119	UNKNOWN
Mar. 29	0500	3,740 106	6.85 2.088				

† About.

Minimum discharge, 145 ft³/s (4.11 m³/s) Aug. 27, gage height, 1.91 ft (0.582 m); minimum daily, 147 ft³/s (4.16 m³/s) Aug. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	258	694	260	1120	1450	1850	1290	554	682	333	569
2	719	263	998	260	1010	1210	2400	1130	516	590	427	562
3	597	316	1170	250	887	1040	2480	1130	455	584	366	549
4	506	446	1100	250	768	1080	1910	1090	387	705	282	462
5	412	572	900	240	657	1360	1470	980	339	707	226	402
6	342	601	787	240	569	2330	1200	889	303	567	198	370
7	292	526	920	240	490	2750	1000	993	279	436	191	321
8	257	447	1100	240	450	2110	877	1570	267	375	233	282
9	235	423	960	230	408	1670	787	1780	244	341	348	239
10	225	421	896	220	379	1310	699	1470	225	323	411	219
11	216	654	908	220	387	1020	645	1190	210	293	441	302
12	248	896	840	220	418	828	632	1080	210	281	413	383
13	338	969	760	220	436	735	613	1150	205	299	460	394
14	405	1150	619	210	445	707	577	1130	194	427	896	335
15	502	1320	679	210	426	679	543	1030	194	596	1190	276
16	511	1230	828	210	506	549	538	993	198	556	1010	234
17	515	1060	760	210	670	490	583	921	228	465	844	209
18	578	872	757	210	805	500	639	828	273	409	670	194
19	854	903	658	212	1030	516	665	880	244	346	510	203
20	1120	892	540	205	1240	665	632	1500	455	297	395	254
21	1330	829	450	202	1300	1560	554	2800	846	329	303	247
22	1290	873	400	205	1430	3690	506	3700	1130	542	243	301
23	1080	972	350	205	1690	3520	571	3900	1190	559	212	439
24	827	933	310	205	1910	2640	619	3500	915	476	186	574
25	629	801	300	198	1700	2200	583	2800	1170	414	172	519
26	522	656	300	231	1500	2230	714	2000	2140	351	153	432
27	450	582	290	565	1520	2330	915	1500	2120	288	147	596
28	372	662	290	993	1710	2860	1070	1000	1690	257	204	922
29	325	685	290	1140	1630	3570	1300	852	1320	226	624	980
30	300	612	280	1220	---	2770	1430	699	895	241	733	820
31	274	---	270	1190	---	2070	---	600	---	255	636	---
TOTAL	17301	21824	20404	10911	27491	52439	29002	46375	19396	13217	13457	12589
MEAN	558	727	658	352	948	1692	967	1496	647	426	434	420
MAX	1330	1320	1170	1220	1910	3690	2480	3900	2140	707	1190	980
MIN	216	258	270	198	379	490	506	600	194	226	147	194
CFSM	2.16	2.82	2.55	1.36	3.67	6.56	3.75	5.80	2.51	1.65	1.68	1.63
IN.	2.49	3.15	2.94	1.57	3.96	7.56	4.18	6.69	2.80	1.91	1.94	1.82
CAL YR 1975 TOTAL	197892			MEAN 542	MAX 4220	MIN 48	CFSM 2.10	IN 28.53				
WTR YR 1976 TOTAL	284406			MEAN 777	MAX 3900	MIN 147	CFSM 3.01	IN 41.01				

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04263000 OSWEGATCHIE RIVER NEAR HEUVELTON, NY

LOCATION.--Lat 44°35'58", long 75°22'45", St. Lawrence County, Hydrologic Unit 04150302, on right bank 1.5 mi (2.4 km) downstream from Beaver Creek, and 2.5 mi (4.0 km) upstream from Heuvelton.

DRAINAGE AREA.--973 mi² (2,520 km²).

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 288.85 ft (88.041 m) above mean sea level. Prior to Sept. 16, 1916, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for winter periods, which are poor. Since 1867, seasonal flow regulated by Cranberry Lake; slight diurnal fluctuation at low flow and medium flow caused by powerplants. During high stages on Grass River, part of flow of that stream may pass through Upper Lake, Indian Creek and Lower Lake and enter Oswegatchie River at Rensselaer Falls, 4.5 mi (7.2 km) above station. In October 1973, a dike was installed on Indian Creek to prevent overflow of Grass River during high flows.

AVERAGE DISCHARGE.--60 years, 1,696 ft³/s (48.03 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s (555 m³/s) Apr. 6, 1960, gage height, 10.36 ft (3.158 m); minimum recorded, 130 ft³/s (3.68 m³/s) Aug. 17, 1949, gage height, 0.47 ft (0.143 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,400 ft³/s (323 m³/s) Mar. 24, gage height, 7.63 ft (2.326 m); minimum, 559 ft³/s (15.8 m³/s) Sept. 20, gage height, 1.28 ft (0.390 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3470	1260	2360	1000	4000	5950	7450	3550	2900	2760	932	1210
2	2450	1250	2560	1000	3540	5510	7310	3990	3270	2250	1010	1060
3	2020	1200	2830	1000	2700	5020	7260	4410	2870	1930	1350	991
4	1710	1200	2980	980	2300	4440	7090	4140	2350	1840	1330	962
5	1780	1400	2740	960	1900	4300	6490	3640	1980	1750	1210	947
6	1700	1590	2470	940	1700	5460	5480	3290	1610	1650	1150	847
7	1530	1620	2960	920	1700	6300	4560	3730	1400	1460	1070	778
8	1480	1720	2800	900	1600	6790	3890	5320	1280	1250	1030	804
9	1350	1850	2700	900	1500	6770	3170	5610	1160	1230	1190	1150
10	1200	1860	2600	860	1610	6000	2580	5380	992	1070	1640	867
11	1190	2180	2600	840	1730	4950	2410	4800	758	924	1580	732
12	1070	2420	2600	820	1900	4010	2400	4300	732	982	1250	973
13	965	2800	2300	800	2090	3280	2410	4070	698	1210	1080	1220
14	863	3590	2200	800	2490	3000	2000	3720	688	1370	1120	1210
15	1170	4220	2500	780	2710	2700	1600	3610	633	1660	1650	1070
16	1140	4280	2600	780	3090	2500	1460	3830	652	1790	2300	907
17	1060	4200	2200	760	3580	2300	1390	3600	895	1750	2310	875
18	1140	4090	2000	760	3720	2200	1380	3170	991	1570	1920	725
19	1400	3810	1700	740	4220	2100	1330	3570	952	1260	1670	639
20	2170	3480	1600	720	5140	2970	1540	5980	1010	964	1680	598
21	3280	3200	1500	720	5340	5260	1500	8520	1320	1010	1550	694
22	3700	3180	1400	700	5530	6990	1450	10000	1950	867	1530	818
23	3790	2780	1300	700	6540	8360	1260	10700	2450	863	1380	897
24	3270	2690	1300	700	6560	10000	1240	10500	2440	1020	1250	889
25	2570	2590	1200	700	6110	10400	1480	9330	2310	1100	1130	1030
26	2140	2430	1200	760	5940	8870	1440	7710	3290	999	978	1180
27	1820	2190	1200	2230	5960	7980	1840	6230	4460	989	736	1430
28	1400	2250	1200	4420	6100	7630	2430	5050	4770	911	668	2120
29	1500	2350	1100	4820	6140	7470	3060	4110	4130	954	757	2640
30	1310	2370	1100	4830	---	7700	3340	3520	3460	863	1180	2210
31	1290	---	1100	4610	---	7730	---	3140	---	879	1350	---
TOTAL	56928	76050	62900	42450	107440	174940	92240	162520	58401	41125	40981	32473
MEAN	1836	2535	2029	1369	3705	5643	3075	5243	1947	1327	1322	1082
MAX	3790	4280	2980	4830	6560	10400	7450	10700	4770	2760	2310	2640
MIN	863	1200	1100	700	1500	2100	1240	3140	633	863	668	598
CAL YR 1975	TOTAL	626584	MEAN	1717	MAX	7910	MIN	221				
WTR YR 1976	TOTAL	948448	MEAN	2591	MAX	10700	MIN	598				

ST. LAWRENCE RIVER MAIN STEM

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04264050 ST. LAWRENCE RIVER NEAR WADDINGTON, NY

LOCATION.--Lat 44°51'27", long 75°14'46", St. Lawrence County, Hydrologic Unit 04150301, on right bank at Leishman Point, 2.1 mi (3.4 km) west of Waddington, 2.5 mi (4.0 km) upstream from Sucker Brook, and 3.3 mi (5.3 km) downstream from Iroquois Dam.

DRAINAGE AREA.--298,500 mi² (773,100 km²).

PERIOD OF RECORD.--January to September 1976.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (International Great Lakes Datum).

REMARKS.--Flow regulated by international agreement administered by International St. Lawrence River Board of control under the International Joint Commission. Records do not include water diverted from Lake Michigan by Chicago Sanitary and Ship Canal, operation of which began in 1900. Records include water diverted into Lake Superior from Hudson Bay drainage by the Long Lake Project, operation of which began in July 1939, and by the Ogoki Project, operation of which began in July 1943.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation during period January to September, 244.80 ft (74.615 m) Apr. 6, minimum daily, 237.09 ft (72.265 m) Feb. 15.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				240.92	238.62	239.83	242.00	242.60	242.42	241.41	241.16	241.09
2				240.67	238.94	238.86	242.60	242.61	242.41	241.76	241.09	240.99
3				240.95	238.64	237.59	243.10	242.92	242.62	241.83	241.21	240.72
4				241.15	238.33	237.69	243.35	243.17	242.55	241.55	241.34	241.06
5				240.98	238.16	238.57	243.45	243.18	242.41	241.56	241.32	241.04
6				241.08	238.27	239.69	244.80	242.79	242.49	241.54	241.18	240.84
7				241.25	238.41	240.12	243.27	242.31	242.61	241.46	240.86	240.80
8				240.85	238.80	240.04	243.08	242.61	242.55	241.42	240.96	240.73
9				241.00	238.69	239.99	242.96	242.76	242.35	241.49	241.25	240.56
10				240.86	238.36	240.03	242.99	242.61	242.27	241.52	241.33	240.71
11				239.76	238.28	240.09	242.18	242.48	242.40	241.44	241.45	241.09
12				240.19	238.25	240.00	242.48	242.53	242.04	241.40	241.47	241.00
13				240.62	238.30	239.83	242.60	242.70	241.97	241.49	241.55	240.93
14				241.10	238.32	240.10	242.44	242.65	242.19	241.47	241.57	240.91
15				241.15	237.09	240.16	242.31	242.56	242.27	241.23	241.60	240.77
16				240.71	238.46	239.66	242.38	242.30	242.21	241.67	241.73	240.49
17				241.04	238.20	239.19	242.36	242.45	242.13	241.90	241.70	240.32
18				240.71	237.98	238.96	242.34	242.46	241.88	241.97	241.57	240.39
19				240.36	238.27	239.06	242.36	242.68	241.72	241.95	241.50	240.65
20				240.28	238.40	237.36	242.41	243.00	241.78	241.87	241.50	240.63
21				240.25	238.52	240.95	242.20	242.95	241.64	241.73	241.68	240.50
22				240.25	238.84	241.28	242.25	243.44	241.50	241.40	241.83	240.61
23				240.10	238.87	241.55	242.63	243.59	241.55	241.32	241.71	240.88
24				239.80	239.35	241.64	242.46	243.60	241.59	241.41	241.25	241.02
25				239.40	239.09	241.78	242.09	243.50	241.57	241.26	240.87	240.81
26				238.90	239.61	241.80	241.66	243.43	241.79	241.30	240.77	240.54
27				238.70	239.83	241.81	242.36	243.57	241.90	241.51	240.74	240.29
28				238.54	239.77	241.56	242.66	243.30	241.88	241.22	240.88	240.46
29				238.64	239.91	241.92	242.57	242.92	241.75	240.92	241.14	240.80
30				238.58	---	241.55	242.83	242.76	241.48	240.82	240.98	240.60
31				238.57	---	241.50	---	242.71	---	241.01	240.94	---
MEAN				240.24	238.64	240.13	242.64	242.88	242.06	241.48	241.29	240.74
MAX				241.25	239.91	241.92	244.80	243.60	242.62	241.97	241.83	241.09
MIN				238.54	237.09	237.36	241.66	242.30	241.48	240.82	240.74	240.29

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY
(National stream-quality accounting network station)

LOCATION.--Lat 45°00'22", long 74°47'43", Stormont County, Ontario--St. Lawrence County, NY, Hydrologic Unit 04150301, at Robert Moses-Robert H. Saunders power dam on Lake St. Lawrence at the International Boundary at Cornwall, Ontario, 2.9 mi (4.7 km) upstream from Grass River, 6.2 mi (10.0 km) upstream from Raquette River, and 5.9 mi (9.5 km) northeast of Massena, NY. Water-quality samples collected at power dam from taps at generators 17 and 30.

DRAINAGE AREA.--298,800 mi² 773,890 km², revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1860 to current year. Monthly discharges only for some periods published in WSP 1307.
Prior to October 1971 published as -04264000 "St. Lawrence River at Ogdensburg."

REVISED RECORDS.--WSP 1437: 1870, 1874, 1881, 1883, 1890.

GAGE.--There is no gage. Discharge is determined from summation of discharge through the Robert Moses-Robert H. Saunders power dam, the Long Sault Dam, the Massena Diversion, the Rasin River Diversion, the Cornwall and Massena municipal water supply, and the Cornwall and the Wiley-Dondero navigation canals. U.S.-Canada co-ordinated discharge figures supplied by Corps of Engineers. Prior to 1956, base gage at Lock 25 at Iroquois Ont. with supplementary gages. August 1956 to June 1958, base gage at Lock 24 between Iroquois and Morrisburg, Ont., and supplementary gages. These gages, prior to Aug. 1956, were gages of the Canadian Hydrographic Service and from August 1956 to June 1958, the Hydro-Electric Power Commission of Ontario. Discharge in the reach of river at Cornwall, Ont.--near Massena, NY is considered to be the same as discharge at Ogdensburg, NY when adjusted for storage in Lake St. Lawrence.

REMARKS.--Since July 1958, flow regulated by international agreement administered by International St. Lawrence River Board of Control under the International Joint Commission. Records do not include water diverted from Lake Michigan by Illinois and Michigan Canal during period of its operation prior to 1910 and by Chicago Sanitary and Ship Canal, which began operation in 1900. Records include water diverted into Lake Superior from Hudson Bay drainage by the Long Lake Project, which began operation in July 1939, and by the Ogoki project, which began operation in July 1943.

COOPERATION.--Records of daily discharge furnished by Detroit District, Corps of Engineers through International St. Lawrence River Board of Control.

AVERAGE DISCHARGE.--116 years (1860-1976), 241,600 ft³/s (6,842 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 352,000 ft³/s (9,969 m³/s) June 22, 1976; minimum daily, 139,000 ft³/s (3,940 m³/s) Feb. 7, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum monthly discharge, 350,000 ft³/s (9,910 m³/s) July 1973; minimum monthly 154,000 ft³/s (4,360 m³/s) Feb. 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 352,000 ft³/s (9,969 m³/s) June 22; minimum daily, 210,000 ft³/s (5,947 m³/s) Jan. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282000	291000	284000	270000	250000	280000	300000	325000	340000	351000	340000	316000
2	282000	291000	284000	270000	250000	280000	282000	325000	340000	350000	341000	316000
3	282000	291000	284000	270000	251000	268000	275000	325000	340000	350000	340000	316000
4	289000	291000	284000	270000	255000	260000	275000	325000	343000	351000	340000	313000
5	289000	291000	284000	270000	255000	260000	275000	325000	345000	350000	340000	313000
6	289000	291000	282000	270000	255000	265000	275000	325000	345000	350000	340000	313000
7	289000	291000	281000	270000	245000	275000	278000	325000	348000	350000	330000	313000
8	289000	285000	281000	270000	245000	280000	280000	335000	349000	350000	330000	312000
9	289000	291000	281000	270000	255000	280000	288000	336000	350000	349000	330000	313000
10	289000	288000	281000	270000	260000	285000	292000	335000	350000	351000	330000	313000
11	286000	288000	281000	248000	260000	290000	298000	335000	350000	350000	330000	309000
12	286000	289000	281000	220000	260000	290000	305000	335000	350000	350000	330000	309000
13	286000	288000	282000	210000	260000	290000	310000	335000	350000	350000	331000	309000
14	286000	288000	282000	210000	260000	290000	317000	335000	350000	350000	321000	309000
15	286000	288000	282000	215000	260000	290000	317000	335000	350000	350000	321000	309000
16	286000	288000	282000	224000	262000	290000	317000	335000	350000	350000	321000	309000
17	286000	288000	282000	230000	265000	291000	320000	335000	351000	350000	321000	309000
18	291000	288000	282000	230000	265000	291000	320000	336000	349000	350000	321000	306000
19	291000	288000	271000	240000	265000	290000	320000	335000	351000	350000	321000	306000
20	291000	288000	230000	240000	265000	300000	321000	335000	350000	350000	321000	306000
21	291000	288000	230000	240000	265000	300000	320000	323000	350000	349000	320000	306000
22	291000	285000	230000	244000	265000	301000	320000	310000	352000	350000	320000	306000
23	291000	285000	230000	246000	265000	300000	320000	310000	348000	350000	320000	306000
24	291000	285000	230000	235000	265000	301000	320000	310000	351000	350000	320000	306000
25	293000	279000	230000	235000	265000	300000	320000	310000	350000	350000	320000	306000
26	293000	280000	230000	238000	270000	301000	320000	313000	350000	350000	320000	306000
27	293000	285000	230000	248000	270000	306000	320000	322000	350000	350000	320000	305000
28	293000	286000	230000	250000	271000	306000	320000	333000	349000	350000	316000	304000
29	293000	284000	230000	250000	280000	306000	320000	340000	351000	350000	316000	306000
30	293000	284000	240000	250000	---	306000	320000	340000	350000	350000	316000	306000
31	293000	---	260000	250000	---	306000	---	340000	---	340000	316000	---
TOTAL	8959000	8623000	8151000	7653000	7559000	8978000	9165000	10183000	10452000	10841000	10103000	9276000
MEAN	289000	287400	262900	246900	260700	289600	305500	328500	348400	349700	325900	309200
MAX	293000	291000	284000	270000	280000	306000	321000	340000	352000	351000	341000	316000
MIN	282000	279000	230000	210000	245000	260000	275000	310000	340000	340000	316000	304000
CAL YR 1975	TOTAL	103583000	MEAN	283800	MAX	310000	MIN	230000				
WTR YR 1976	TOTAL	109943000	MEAN	300400	MAX	352000	MIN	210000				

ST. LAWRENCE RIVER MAIN STEM

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04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year. Prior to October 1970, published as "near Massena, NY".

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1976.

WATER TEMPERATURES: January 1966 to current year.

REMARKS.--Temperature measurements made approximately 68 ft (21 m) below normal forebay level. Unpublished temperature records for October 1955 to October 1958 collected at Aluminum Company of America Massena Canal Power station are on file in district office. No specific-conductance record Dec. 28, Apr. 25, and Aug. 26. No temperature record Nov. 14, 15, Dec. 31, and Mar. 27, 31.

COOPERATION.--Water-temperature record furnished by the Power Authority of the State of New York.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 380 micromhos June 15, 1976; minimum, 310 micromhos on many days.

WATER TEMPERATURES: Maximum, 24.5°C on several days in August and September 1973 and August 1975; minimum, freezing point on many days during winter periods except 1972-74.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 380 micromhos June 15; minimum, 310 micromhos on many days.

WATER TEMPERATURES: Maximum, 21.0°C Aug. 26-31; minimum, freezing point January 9-20.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG/L)
OCT										
28...	1000	335	7.5	12.5	1	8.0	78	83	81	120
NOV										
24...	1000	328	7.5	8.5	1	10.4	89	85	82	130
DEC										
29...	1100	360	7.6	.0	1	13.1	90	<1	--	130
JAN										
27...	1015	380	7.5	.5	0	11.2	84	81	<1	130
FEB										
23...	1045	330	7.6	.0	1	9.6	66	86	84	130
MAR										
25...	1100	330	7.4	.0	1	10.6	84	84	84	120
APR										
26...	1315	340	7.9	6.5	1	8.4	69	810	81	130
MAY										
24...	1030	330	7.5	9.0	2	9.6	88	27	76	130
JUN										
24...	1015	330	7.7	17.0	1	7.4	85	83	81	130
JUL										
26...	1000	340	7.6	19.0	2	8.2	89	87	81	120
AUG										
25...	1030	315	7.8	20.5	3	7.9	93	87	83	130
SEP										
23...	1145	320	7.7	18.5	4	9.2	96	83	82	130

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

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT 28...	35	34	9.1	12	1.5	106	0	87	28
NOV 24...	44	40	8.5	13	1.6	111	0	91	28
DEC 29...	32	37	8.0	13	1.4	114	0	94	24
JAN 27...	34	38	8.2	13	1.5	116	0	95	26
FEB 23...	35	38	7.7	12	1.4	112	0	92	27
MAR 25...	29	36	7.4	12	1.6	112	0	92	26
APR 26...	36	39	7.7	12	1.5	113	0	93	26
MAY 24...	42	40	7.1	11	1.4	106	0	87	26
JUN 24...	38	39	7.6	13	1.5	110	0	90	27
JUL 26...	27	38	5.3	14	1.5	110	0	90	31
AUG 25...	42	39	8.5	13	1.4	110	0	90	30
SEP 23...	44	39	8.7	13	1.4	109	0	89	29

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 28...	28	.2	.5	207	166	.13	.25	.38	.01
NOV 24...	27	.2	.2	187	173	.14	.31	.45	.05
DEC 29...	26	.2	.3	181	166	.24	.07	.31	.03
JAN 27...	27	.2	.4	182	171	.24	.25	.49	.04
FEB 23...	28	.1	.5	191	170	.31	.25	.56	.04
MAR 25...	26	.0	.6	184	165	.32	.22	.54	.03
APR 26...	26	.1	.2	189	168	.18	.48	.66	.03
MAY 24...	24	.1	.3	140	162	.19	.40	.59	.03
JUN 24...	26	.3	.2	191	169	.19	.33	.52	.03
JUL 26...	26	.1	.4	197	171	.15	.48	.63	.01
AUG 25...	27	.1	.3	213	174	.11	.38	.49	.03
SEP 23...	28	.2	.5	195	173	.07	.30	.37	.04

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04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)
NOV 24...	1	0	1	0	0	1	0	0	0	0	0
FEB 23...	1	0	1	0	0	1	<10	0	<10	0	0
APR 26...	0	0	0	0	0	0	10	0	10	0	0
JUL 26...	2	2	0	1	0	1	<10	0	<10	0	0

DATE	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)
NOV 24...	0	10	0	10	60	10	1	0	--	10	10
FEB 23...	0	0	0	0	60	20	2	1	1	10	10
APR 26...	0	0	0	0	80	20	4	2	2	10	10
JUL 26...	0	10	10	0	120	0	4	2	2	10	10

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE D MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	SUS- PENDE D SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)
NOV 24...	0	<.5	.0	<.5	40	10	30	0	0	0
FEB 23...	0	<.5	.0	<.5	30	0	30	1	0	1
APR 26...	0	<.5	.0	<.5	20	0	20	0	0	0
JUL 26...	0	1.0	.5	<.5	30	0	--	2	1	1

DATE	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
FEB 23...	<2.1	<.4	5.1	4.1	.5	.04	.40
SEP 23...	<2.6	<.4	3.1	2.5	.4	.05	.30

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Oct. 28	1000	CHLOROPHYTA			Nov. 24	1000	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					HYDRODICTYACEAE		
		OOCYSTIS	200	8			PEDIASTRUM	13	1
		SCENEDESMACEAE					OCCYSTACEAE		
		SCENEDESMUS	300	12			ANKISTRODESMUS	39	2
		TETRASTRUM	100	4			TREUBARIA	52	3
		ZYGNEATALES					SCENEDESMACEAE		
		DESMIDIACEAE					SCENEDESMUS	52	3
		CLOSTERIUM	25	1			CLADOPHORALES		
		CHRYSOHYTA					CLADOPHORACEAE		
		BACILLARIOPHYCEAE					RHIZOCLONIUM	160	10
		CENTRALES					ZYGNEATALES		
		COSCINODISCACEAE					DESMIDIACEAE	L	0
		CYCLOTELLA	150	6			STAUSTRUM		
		MELOSIRA	100	4			CHRYSOHYTA		
		STEPHANODISCUS	50	2			BACILLARIOPHYCEAE		
		PENNALES					CENTRALES		
		ACHNANTHACEAE					COSCINODISCACEAE		
		COCCONEIS	25	1			CYCLOTELLA	26	2
		CHRYSOHYCEAE					MELOSIRA	160	10
		CHRYSONOMADALES					STEPHANODISCUS	130	8
		OCHROMONADACEAE					PENNALES		
		OCHROMONAS	220	9			ACHNANTHACEAE		
		CYANOPHYTA					COCCONEIS	26	2
		MYXOPHYCEAE					CYMBELLACEAE		
		OSCILLATORIALES					CYMBELLA	26	2
		NOSTOCACEAE					FRAGILARIACEAE		
		APHANIZOMENON	300	12			ASTERIONELLA	26	2
		OSCILLATORIA					NAVICULACEAE		
		OSCILLATORIA	700	29			NAVICULA	13	1
		EUGLENOPHYTA					NITZSCHACEAE		
		CRYPTOPHYCEAE					NITZSCHIA	52	3
		CRYPTOMONADALES					CYANOPHYTA		
		CRYPTOMONADACEAE					MYXOPHYCEAE		
		CRYPTOMONAS	200	8			OSCILLATORIALES		
		PYRRHOPHYTA					NOSTOCACEAE		
		DINOPHYCEAE					ANABAENA	620	38
		PERIDINIALES					OSCILLATORIA	230	14
		PERIDINIACEAE					OSCILLATORIA		
		PERIDINIUM	25	1			PYRRHOPHYTA		
		TOTAL	2,400				DINOPHYCEAE		
							GYMNODINIALES		
							GYMNODINIACEAE		
							GYMNODINIUM	13	1
							TOTAL	1,600	
Dec. 29	1100	CHLOROPHYTA			Jan. 27	1015	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					OCCYSTACEAE		
		CLOSTERIOPSIS	L	0			OCCYSTIS	59	5
		OOCYSTIS	L	0			VOLVOCALES		
		SCENEDESMACEAE					VOLVOCAEAE		
		SCENEDESMUS	100	9			PANDORINA	240	19
		CHRYSOHYTA					ZYGNEATALES		
		BACILLARIOPHYCEAE					DESMIDIACEAE		
		CENTRALES					CLOSTERIUM	15	1
		COSCINODISCACEAE					CHRYSOHYTA		
		CYCLOTELLA	480	44			BACILLARIOPHYCEAE		
		MELOSIRA	350	33			CENTRALES		
		PENNALES					COSCINODISCACEAE		
		FRAGILARIACEAE					CYCLOTELLA	160	13
		ASTERIONELLA	150	14			PENNALES		
		FRAGILARIA	L	0			FRAGILARIACEAE		
		GOMPHONEMATAEAE					ASTERIONELLA	180	14
		GOMPHONEMA	L	0			FRAGILARIA	L	0
		NITZSCHACEAE					TABELLARIACEAE		
		NITZSCHIA	L	0			TABELLARIA	150	12
		TABELLARIACEAE					CYANOPHYTA		
		TABELLARIA	L	0			MYXOPHYCEAE		
		ACHNANTHACEAE					OSCILLATORIALES		
		RHOICOSPHENIA	L	0			OSCILLATORIAEAE		
		CYANOPHYTA					OSCILLATORIA	440	36
		MYXOPHYCEAE					TOTAL	1,200	
		OSCILLATORIALES							
		OSCILLATORIAEAE							
		OSCILLATORIA	L	0					
		TOTAL	1,100						

L - less than 1%, may not have been actually counted.

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04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Feb. 23	1045	CHLOROPHYTA			Mar. 25	1100	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					OCCYSTACEAE		
		ANKISTRODESMUS	110	4			ANKISTRODESMUS	96	8
		SELENASTRUM	L	0			SCENEDESMACEAE		
		TETRAEDRON	22	1			SCENEDESMUS	110	9
		SCENEDESMACEAE					CHRYSOPHYTA		
		SCENEDESMUS	L	0			BACILLARIOPHYCEAE		
		VOLVOCALES					CENTRALES		
		VOLVOCEAE					COSCIINODISCACEAE		
		PANDORINA	L	0			CYCLOTELLA	96	8
		ZYGNEMATALES					MELOSIRA	300	24
		DESMIDIACEAE					PENNALES		
		STAUROSTRUM	L	0			ACHNANTHACEAE		
		CHRYSOPHYTA					COCCONEIS	11	1
		BACILLARIOPHYCEAE					CYMBELLACEAE		
		CENTRALES					CYMBELLA	L	0
		COSCIINODISCACEAE					FRAGILARIACEAE		
		CYCLOTELLA	1,400	49			ASTERIONELLA	210	17
		MELOSIRA	L	0			FRAGILARIA	330	26
		STEPHANODISCUS	L	0			GOMPHONEMATACEAE		
		PENNALES					GOMPHONEMA	L	0
		CYMBELLACEAE					NAVICULACEAE		
		CYMBELLA	L	0			NAVICULA	11	1
		DIATOMACEAE					NITZSCHACEAE		
		DIATOMA	65	2			NITZSCHIA	21	2
		FRAGILARIACEAE					TABELLARIACEAE		
		ASTERIONELLA	350	12			TABELLARIA	11	1
		FRAGILARIA	L	0			ACHNANTHACEAE		
		NITZSCHACEAE					RHOICOSPHENIA	L	0
		NITZSCHIA	L	0			CYANOPHYTA		
		TABELLARIACEAE					MYXOPHYCEAE		
		TABELLARIA	22	1			OSCILLATORIALES		
		CYANOPHYTA					OSCILLATORIACEAE		
		MYXOPHYCEAE					OSCILLATORIA	43	3
		CHROOCOCCALES					PYRRHOPHYTA		
		CHROOCOCCACEAE					DINOPHYCEAE		
		ANACYSTIS	130	5			PERIDINIALES		
		COCCOCHLORIS	87	3			PERIDINIACEAE		
		OSCILLATORIALES					PERIDINIUM	11	1
		OSCILLATORIACEAE							
		OSCILLATORIA	630	23			TOTAL	1,200	
		EUGLENOPHYTA							
		EUGLENOPHYCEAE							
		EUGLENALES							
		EUGLENACEAE							
		TRACHELOMONAS	L	0					
		PYRRHOPHYTA							
		DINOPHYCEAE							
		PERIDINIALES							
		PERIDINIACEAE							
		PERIDINIUM	L	0					
		TOTAL	2,800						

L - less than 1%, may not have been actually counted.

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Apr. 26	1315	CHLOROPHYTA			May 24	1030	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					OCCYSTACEAE		
		ANKISTRODESMUS	200	3			ANKISTRODESMUS	170	4
		SCENEDESMACEAE					KIRCHNERIELLA	29	1
		SCENEDESMUS	720	11			SCENEDESMACEAE		
		CHRYSOPHYTA					SCENEDESMUS	170	4
		BACILLARIOPHYCEAE					CHRYSOPHYTA		
		CENTRALES					BACILLARIOPHYCEAE		
		COSCINODISCEAE					CENTRALES		
		CYCLOTELLA	460	7			COSCINODISCEAE		
		MELOSIRA	660	10			MELOSIRA	1,100	25
		PENNALES					PENNALES		
		FRAGILARIACEAE					DIATOMACEAE		
		ASTERIONELLA	610	9			DIATOMA	460	11
		FRAGILARIA	870	13			FRAGILARIACEAE		
		CHRYSOPHYCEAE					ASTERIONELLA	260	6
		CHRYSONOMADALES					FRAGILARIA	400	9
		OCHROMONADACEAE					GOMPHONEMACEAE		
		DINOBRYON	L	0			GOMPHONEMA	29	1
		RHIZOCHRYSIDALES					NITZSCHIA		
		RHIZOCHRYSIDACEAE					NITZSCHIA	29	1
		CHRYSAMOEBA	L	0			CYANOPHYTA		
		CYANOPHYTA					MYXOPHYCEAE		
		MYXOPHYCEAE					OSCILLATORIALES		
		CHROOCOCCALES					OSCILLATORIA		
		CHROOCOCCACEAE					OSCILLATORIA	1,700	39
		ANACYSTIS	660	10			TOTAL	4,400	
		OSCILLATORIALES							
		OSCILLATORIA	2,200	32					
		EUGLENOPHYTA							
		CRYPTOPHYCEAE							
		CRYPTOMONIDALES							
		CRYPTOMONADACEAE							
		CRYPTOMONAS	290	4					
		PYRRHOPHYTA							
		DINOPHYCEAE							
		PERIDINIALES							
		GLENODINIACEAE							
		GLENODINIUM	L	0					
		PERIDINIACEAE							
		PERIDINIUM	120	2					
		TOTAL	6,900						

L - less than 1%, may not have been actually counted.

ST. LAWRENCE RIVER MAIN STEM

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04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA. NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
July 26	1000	CHLOROPHYTA			Aug. 25	1030	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		COELASTRACEAE					HYDRODICTYACEAE		
		COELASTRUM	L	0			PEDIASTRUM	180	12
		OCCYSTACEAE					MICRACTINIACEAE		
		ANKISTRODESMUS	21	4			GOLENKINIA	22	1
		TETRAEDRON	L	0			OCCYSTACEAE		
		SCENEDESMACEAE					CHODATELLA	L	0
		SCENEDESMUS	31	6			CLOSTEROPSIS	L	0
		TETRASPORALES					DICTYOSPHAERTUM	110	7
		COCCOMYXACEAE					OCCYSTIS	270	18
		ELAKATOTHRIX	94	18			TETRAEDRON	22	1
		VOLVOCALES					SCENEDESMACEAE		
		PHACOTACEAE					SCENEDESMUS	470	31
		PHACOTUS	10	2			VOLVOCALES		
		CHRYSOPHYTA					CHLAMYDOMONADACEAE		
		BACILLARIOPHYCEAE					CHLAMYDOMONAS	L	0
		CENTRALES					PHACOTACEAE		
		COSCINODISCACEAE					PHACOTUS	45	3
		CYCLOTELLA	52	10			CHRYSOPHYTA		
		MELOSTIRA	52	10			BACILLARIOPHYCEAE		
		PENNALES					CENTRALES		
		GOMPHONEMATACEAE					COSCINODISCACEAE		
		GOMPHONEMA	21	4			CYCLOTELLA	L	0
		NAVICULACEAE					PENNALES		
		NAVICULA	10	2			ACHNANTHACEAE		
		NITZSCHACEAE					COCCONEIS	22	1
		NITZSCHIA	L	0			FRAGILARIACEAE		
		CYANOPHYTA					FRAGILARIA	L	0
		MYXOPHYCEAE					CHRYSOPHYCEAE		
		CHROOCOCCALES					CHRYSONOMADALES		
		CHROOCOCCACEAE					OCHROMONADACEAE		
		ANACYSTIS	42	8			OCHROMONAS	270	18
		OSCILLATORIALES					CYANOPHYTA		
		NOSTOCACEAE					MYXOPHYCEAE		
		ANABAENA	52	10			OSCILLATORIALES		
		EUGLENOPHYTA					NOSTOCACEAE		
		CRYPTOPHYCEAE					ANABAENA	45	3
		CRYPTOMONIDALES					OSCILLATORIAACEAE		
		CRYPTOMONODACEAE					OSCILLATORIA	L	0
		CRYPTOMONAS	120	24			EUGLENOPHYTA		
		TOTAL	510				CRYPTOPHYCEAE		
							CRYPTOMONIDALES		
							CRYPTOMONODACEAE		
							CRYPTOMONAS	67	4
							TOTAL	1,500	

L - less than 1%, may not have been actually counted.

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total
Sep. 23	1145	CHLOROPHYTA		
		CHLOROPHYCEAE		
		CHLOROCOCCALES		
		COELASTRACEAE		
		COELASTRUM	170	17
		HYDRODICTYACEAE		
		PEDIASTRUM	140	14
		MICRACTINIACEAE		
		GOLENKINIA	L	0
		OCCYSTACEAE		
		DICTYOSPHAERIUM	58	6
		FRANCEIA	L	0
		TETRAEDRON	15	2
		SCENEDESMACEAE		
		SCENEDESMUS	200	19
		VOLVOCALES		
		CHLAMYDOMONADACEAE		
		CHLAMYDOMONAS	19	2
		ZYGNEMATALES		
		DESMIDIACEAE		
		CLOSTERIUM	L	0
		STAUROSTRUM	L	0
		CHRYSOPHYTA		
		BACILLARIOPHYCEAE		
		CENTRALES		
		COSCINODISCACEAE		
		CYCLOTELLA	31	3
		MELOSTIRA	8	1
		PENNALES		
		ACHNANTHACEAE		
		COCCONEIS	12	1
		FRAGILARIACEAE		
		FRAGILARIA	12	1
		NAVICULACEAE		
		NAVICULA	8	1
		NITZSCHACEAE		
		NITZSCHIA	12	1
		ACHNANTHACEAE		
		RHOICOSPHENIA	L	0
		CYANOPHYTA		
		MYXOPHYCEAE		
		CHROOCOCCALES		
		CHROOCOCCACEAE		
		GOMPHOSPHAERIA	L	0
		OSCILLATORIALES		
		OSCILLATORIACEAE		
		OSCILLATORIA	230	23
		EUGLENOPHYTA		
		CRYPTOPHYCEAE		
		CRYPTOMONIDALES		
		CRYPTOCHRYSIDACEAE		
		CHROOMONAS	12	1
		CRYPTOMONODACEAE		
		CRYPTOMONAS	35	3
		EUGLENOPHYCEAE		
		EUGLENALES		
		EUGLENACEAE		
		EUGLENA	12	1
		TRACHELOMONAS	15	2
		PYRRHOPHYTA		
		DINOPHYCEAE		
		PERIDINIALES		
		GLENODINIACEAE		
		GLENODINIUM	L	0
		TOTAL	1,000	

L - less than 1%, may not have been actually counted.

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll ^a	Chlorophyll ^b	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	(mg/m ²)	(mg/m ²)		
June 24	31	6.46	4.46	1.03	0.00	1900	Polyethylene strip
July 26	32	85.2	63.0	23.0	2.70	970	Polyethylene strip
Aug. 25	30	3.46	1.31	7.40	.569	290	Polyethylene strip

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04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued
 SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
 (ONCE DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	340	340	330	360	350	330	330	350	360	320	320	320
2	340	340	340	360	340	330	340	360	360	320	310	320
3	340	340	340	340	340	320	350	360	340	330	320	320
4	340	330	340	360	340	320	330	340	340	340	310	320
5	340	340	340	340	350	320	340	340	340	320	310	320
6	340	350	340	340	350	330	340	340	340	310	320	320
7	340	350	330	330	340	320	340	340	340	320	320	320
8	350	350	340	330	340	320	340	330	330	320	320	320
9	340	340	330	340	350	320	340	330	340	320	320	320
10	340	350	330	340	350	320	340	340	340	320	310	320
11	345	340	330	340	350	330	350	340	340	320	310	310
12	340	350	330	350	340	330	340	340	340	330	320	320
13	340	340	330	350	340	320	340	340	340	330	320	320
14	345	340	330	350	360	320	350	340	330	330	330	310
15	345	350	330	350	350	330	360	340	380	330	320	320
16	345	340	330	360	360	330	360	340	340	330	320	310
17	345	330	330	360	350	330	360	340	340	330	320	310
18	345	340	330	370	350	330	370	340	340	330	320	310
19	345	330	330	340	350	330	370	340	340	320	320	320
20	345	330	330	340	360	330	360	340	340	330	320	320
21	345	330	330	340	360	340	370	360	340	330	320	310
22	345	330	330	340	370	330	370	340	340	330	320	320
23	345	340	330	350	360	330	370	330	330	320	320	320
24	350	340	330	340	340	330	370	330	340	320	310	310
25	350	340	330	340	330	330	---	320	330	320	310	310
26	345	340	330	340	330	350	370	320	330	330	---	310
27	345	340	350	340	330	340	350	320	320	320	320	310
28	345	340	---	350	330	340	350	320	330	320	320	310
29	345	340	340	350	330	340	350	320	330	330	320	320
30	345	340	360	350	---	340	350	350	340	320	320	320
31	345	---	360	350	---	340	---	340	---	310	320	---
AVERAGE	344	340	335	346	346	330	352	338	340	324	318	316

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	12.0	7.0	1.0	0.5	0.5	2.0	7.0	11.5	18.5	20.0	20.0
2	16.0	12.0	7.0	1.0	0.5	1.0	2.0	7.0	11.5	18.5	20.0	20.0
3	15.0	12.0	7.0	1.0	0.5	1.0	2.0	7.0	12.0	18.5	20.0	20.0
4	15.0	12.0	6.0	1.0	0.5	1.0	2.0	7.0	13.0	18.5	20.0	20.0
5	15.0	12.0	6.0	1.0	0.5	0.5	2.0	7.0	13.0	19.0	20.0	19.0
6	15.0	12.0	6.0	1.0	0.5	0.5	3.0	7.0	13.0	19.0	20.0	19.0
7	15.0	12.0	6.0	1.0	0.5	0.5	3.0	7.0	13.5	19.5	20.0	18.5
8	15.0	12.0	5.0	1.0	0.5	0.5	3.0	7.0	13.5	19.5	19.5	18.5
9	15.0	12.0	5.0	0.0	0.5	0.5	4.0	7.0	14.0	20.0	19.0	19.0
10	14.0	12.0	5.0	0.0	0.5	0.5	4.0	7.5	14.0	20.0	19.5	19.0
11	14.0	12.0	4.5	0.0	0.5	0.5	4.0	8.0	14.0	20.0	19.5	19.0
12	14.0	12.0	4.5	0.0	0.5	0.5	4.0	8.0	14.0	20.0	20.0	18.5
13	14.0	12.0	4.0	0.0	0.5	0.5	3.0	7.5	14.5	20.0	20.0	18.5
14	14.0	---	4.0	0.0	0.5	0.5	4.0	8.0	15.0	20.0	19.5	18.5
15	14.0	---	4.0	0.0	0.5	0.5	4.0	8.0	16.0	20.0	19.5	18.5
16	14.0	10.5	4.0	0.0	0.5	0.5	5.0	8.5	16.0	20.0	19.0	18.0
17	14.0	10.0	4.0	0.0	0.5	0.5	5.0	9.0	16.0	20.0	19.0	19.0
18	13.5	10.0	3.5	0.0	0.5	0.5	6.0	9.0	16.0	19.5	19.0	19.0
19	13.0	10.0	3.0	0.0	0.5	0.5	6.0	9.0	16.5	19.0	19.0	19.0
20	13.0	10.0	2.5	0.0	0.5	0.5	6.0	9.0	16.5	19.0	20.0	19.0
21	13.0	10.0	1.5	0.5	0.5	0.5	6.0	9.0	16.5	19.0	20.0	18.0
22	13.0	9.5	1.0	0.5	0.5	0.5	6.0	9.0	16.5	19.0	20.0	18.0
23	13.0	9.0	1.0	1.0	0.5	0.5	6.0	9.0	17.0	19.0	20.0	18.5
24	13.0	8.5	1.0	0.5	0.5	0.5	6.0	9.0	17.0	19.0	20.5	17.0
25	13.0	8.5	1.0	0.5	0.5	0.5	6.0	9.0	17.5	19.0	20.5	17.0
26	13.0	8.5	1.0	0.5	0.5	0.5	6.5	9.5	17.5	19.0	21.0	17.0
27	13.0	8.0	1.0	0.5	1.0	---	6.5	9.5	17.5	19.5	21.0	17.0
28	12.5	8.0	1.0	1.0	1.0	1.5	6.0	10.0	17.5	20.0	21.0	16.5
29	12.5	8.0	1.0	0.5	1.0	2.0	6.0	10.5	18.0	20.5	21.0	16.0
30	12.5	8.0	0.5	0.5	---	2.0	6.5	11.0	18.5	20.5	21.0	16.0
31	12.5	---	---	0.5	---	---	---	11.0	---	20.5	21.0	---
AVERAGE	14.0	10.5	3.5	0.5	0.5	0.5	4.5	8.5	15.0	19.5	20.0	18.5

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT						JUN					
21...	1000	291000	5	3930	58	24...	1015	351000	1	948	75
MAR						JUL					
25...	1100	300000	3	2430	100	26...	1000	350000	6	5670	92
APR						AUG					
26...	1315	320000	12	10400	57	25...	1030	320000	6	5180	44
MAY						SEP					
24...	1030	310000	4	3350	66	23...	1145	306000	3	2480	89

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

481

04265000 GRASS RIVER AT PYRITES, NY

LOCATION.--Lat 44°31'28", long 75°11'48", St. Lawrence County, Hydrologic Unit 04150304, on left bank 1,000 ft (305 m) downstream from lower bridge in Pyrites, and 0.5 mi (0.8 km) upstream from Harrison Creek.

DRAINAGE AREA.--335 mi² (868 km²).

PERIOD OF RECORD.--August 1924 to current year.

REVISED RECORDS.--WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 350.61 ft (106.866 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by powerplant upstream from station.

AVERAGE DISCHARGE.--52 years, 604 ft³/s (17.11 m³/s), 24.49 in/yr (622.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 8,300 ft³/s (235 m³/s) Nov. 18, 1927, gage height, 13.0 ft (3.96 m), from floodmark; minimum daily, 59 ft³/s (1.67 m³/s) Aug. 29 to Sept. 1, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s (100 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 6	2200	4,190 119	9.17 2.975	May 21	0830	*5,500 156	*11.22 3.420
Mar. 20	0915	5,100 144	10.61 3.234				

Minimum discharge, 151 ft³/s (4.28 m³/s) Sept. 20, gage height, 1.45 ft (0.442 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	508	328	751	380	1000	1400	2590	1170	718	569	374	257
2	422	351	1080	380	960	1300	3410	1370	790	597	464	343
3	414	419	949	370	900	1100	3110	1420	699	583	414	414
4	370	671	634	370	840	1300	2240	1210	601	610	325	343
5	317	708	643	360	760	2040	1640	1080	521	569	264	299
6	281	583	810	360	640	3810	1290	1080	456	468	234	264
7	244	477	1010	350	540	3690	1100	1890	426	390	227	241
8	224	481	933	350	480	2530	990	2800	406	347	268	224
9	205	629	873	350	430	1800	908	2350	386	343	452	205
10	199	666	898	340	400	1640	824	1670	359	351	494	202
11	196	939	893	320	410	1500	810	1270	340	325	525	261
12	227	949	648	320	440	1200	805	1370	418	657	464	317
13	289	1010	661	310	450	1000	780	1410	473	775	418	310
14	374	1460	766	310	450	860	761	1200	406	985	592	264
15	468	1500	923	310	500	760	727	1150	370	888	601	221
16	439	1230	1110	300	600	720	708	1090	406	638	610	196
17	382	1070	756	290	800	680	727	923	486	494	583	187
18	460	1150	727	280	940	660	732	918	464	414	464	179
19	805	1260	700	270	1100	640	703	1630	390	355	359	179
20	1330	1150	640	270	1300	1300	657	4310	634	306	292	165
21	1580	1000	600	270	1400	3210	597	5380	785	328	247	202
22	1480	1060	560	260	1600	4990	574	4380	873	402	224	218
23	1230	1010	520	260	1800	4110	694	3350	766	340	199	278
24	923	849	490	260	2000	3100	775	2470	597	317	187	317
25	699	703	480	260	1800	2680	703	1830	873	374	179	278
26	583	587	460	260	1600	2910	810	1500	1810	370	167	251
27	499	556	450	450	1700	2890	1120	1340	1730	328	165	538
28	435	643	430	780	1700	3220	1420	1150	1260	370	173	775
29	398	620	420	1000	1800	3810	1670	939	839	340	271	620
30	370	560	410	1100	---	2850	1490	790	597	303	359	464
31	343	---	400	1100	---	2080	---	699	---	310	292	---
TOTAL	16694	24619	21625	12590	29340	65780	35365	55139	19879	14446	10887	9012
MEAN	539	821	698	406	1012	2122	1179	1779	663	466	351	300
MAX	1580	1500	1110	1100	2000	4990	3410	5380	1810	985	610	775
MIN	196	328	400	260	400	640	574	699	340	303	165	165
CFSM	1.61	2.45	2.08	1.21	3.02	6.33	3.52	5.31	1.98	1.39	1.05	.90
IN.	1.85	2.73	2.40	1.40	3.26	7.30	3.93	6.12	2.21	1.60	1.21	1.00

CAL YR 1975 TOTAL 234772 MEAN 643 MAX 4670 MIN 67 CFSM 1.92 IN 26.07
WTR YR 1976 TOTAL 315376 MEAN 862 MAX 5380 MIN 165 CFSM 2.57 IN 35.02

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04266500 RAQUETTE RIVER AT PIERCEFIELD, NY

LOCATION.--Lat 44°14'05", long 74°34'20", St. Lawrence County, Hydrologic Unit 04150305, on left bank 0.5 mi (0.8 km) downstream from powerplant at Piercefield, and 1.5 mi (2.4 km) upstream from Dead Creek.

DRAINAGE AREA.--722 mi² (1,870 km²).

PERIOD OF RECORD.--August 1908 to current year.

REVISED RECORDS.--WSP 604: 1924. WSP 759: Drainage area. WSP 1387: 1910, 1913, 1914(M), 1916, 1921.

GAGE.--Water-stage recorder. Datum of gage is 1,502.12 ft (457.846 m) above mean sea level. Prior to Oct. 22, 1912, non-recording gage at same site (datum of gage lowered 2 ft (0.6 m) Jan. 1, 1911, to present datum).

REMARKS.--Records good. Seasonal distribution of flow modified by natural storage in lakes and ponds upstream from station and by regulation of Forked Lake, Round Lake, Lows Lake, and Raquette Pond (Tupper Lake) at Setting Pole Dam. Extensive diurnal fluctuation caused by powerplant at Piercefield.

AVERAGE DISCHARGE.--68 years, 1279 ft³/s (36.22 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,360 ft³/s (237 m³/s) May 8, 1972, gage height, 12.25 ft (3.734 m); minimum daily, 4.1 ft³/s (0.12 m³/s) Oct. 12, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,940 ft³/s (196 m³/s) Apr. 5, gage height, 11.30 ft (3.444 m); minimum, 70 ft³/s (1.98 m³/s) Sept. 17, gage height, 1.89 ft (0.576 m); minimum daily, 599 ft³/s (17.0 m³/s) Jan. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1970	1610	1880	1070	1250	2040	5470	3340	3690	2540	1100	997
2	1930	1540	1870	1060	1270	2080	6040	3300	3490	2480	1200	992
3	1920	1470	1820	977	1270	2080	6440	3240	3300	2490	1090	1020
4	1850	1440	1800	1030	1260	2090	6700	3220	3150	2440	919	1010
5	1780	1410	1790	1000	1230	2220	6850	3260	2960	2410	936	982
6	1660	1390	1800	886	1200	2440	6830	3170	2800	2310	912	963
7	1610	1350	1800	882	1210	2590	6560	3260	2630	2190	721	930
8	1560	1280	1800	834	1190	2660	6220	3370	2480	2220	809	805
9	1460	1200	1800	855	1120	2720	5840	3470	2340	2190	1020	694
10	1390	1280	1800	843	1070	2730	5450	3510	2200	2140	1170	780
11	1340	1340	1720	847	1070	2750	5060	3510	2080	2090	1180	790
12	1190	1430	1630	821	1100	2720	4670	3510	1930	2040	1340	716
13	1240	1430	1520	805	1160	2680	4400	3490	1770	1910	1400	820
14	1310	1550	1490	834	1240	2620	4140	3470	1610	1870	1610	826
15	1390	1760	1500	834	1190	2540	3910	3440	1400	1720	1780	810
16	1370	1830	1510	838	1180	2500	3720	3370	1210	1610	2040	678
17	1370	1820	1530	817	1100	2380	3580	3260	1370	1520	2070	610
18	1410	1800	1530	788	1110	2250	3530	3120	1130	1510	2070	620
19	1630	1820	1500	701	1180	2190	3530	3040	1190	1470	2030	638
20	1890	1820	1470	599	1430	2230	3570	3390	1160	1410	1980	690
21	2130	1840	1440	609	1410	2470	3670	3500	996	1340	1840	668
22	2280	1930	1410	631	1480	2750	3750	3790	825	1230	1740	754
23	2330	2110	1390	634	1620	2930	3770	4030	1340	1250	1600	851
24	2290	2180	1380	613	1660	3100	3730	4240	1450	1270	1490	798
25	2240	2140	1230	631	1700	3280	3690	4400	1990	1290	1440	900
26	2140	2100	1210	697	1720	3460	3650	4480	2460	1320	1320	753
27	2080	2090	1290	904	1860	3650	3590	4490	2580	1210	1210	933
28	1990	1980	1310	1130	2040	4140	3540	4410	2590	1190	1100	1120
29	1870	1920	1210	1280	2040	4440	3490	4300	2550	993	1120	1100
30	1740	1920	1040	1260	---	4820	3410	4090	2540	1090	1020	1230
31	1660	---	1090	1250	---	5030	---	3880	---	1110	948	---
TOTAL	54020	50780	47560	26960	39360	88580	138800	112350	63211	53853	42205	25478
MEAN	1743	1693	1534	870	1357	2857	4627	3624	2107	1737	1361	849
MAX	2330	2180	1880	1280	2040	5030	6850	4490	3690	2540	2070	1230
MIN	1190	1200	1040	599	1070	2040	3410	3040	825	993	721	610
CAL YR 1975	TOTAL	518132	MEAN	1420	MAX	4950	MIN	85				
WTR YR 1976	TOTAL	743157	MEAN	2030	MAX	6850	MIN	599				

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

483

04267500 RAQUETTE RIVER AT SOUTH COLTON, NY

LOCATION.--Lat 44°30'42", long 74°53'00", St. Lawrence County, Hydrologic Unit 04150305, on left bank 300 ft (91 m) upstream from bridge on State Highway 56 at South Colton, 500 ft (152 m) downstream from Niagara Mohawk Power Corp. powerplant, and 0.8 mi (1.3 km) upstream from Cold Brook.

DRAINAGE AREA.--939 mi² (2,432 km²).

PERIOD OF RECORD.--January 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 882.05 ft (268.849 m) above mean sea level.

REMARKS.--Records good except those for February and March, which are poor. Flow regulated 16 mi (26 km) upstream by Carry Falls Reservoir since 1953; considerable natural storage in large lakes above Piercefield. Large diurnal fluctuation caused by five powerplants.

AVERAGE DISCHARGE.--23 years, 1,710 ft³/s (48.43 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft³/s (275 m³/s) May 11, 1971, gage height, 9.80 ft (2.987 m); minimum, 1.3 ft³/s (0.037 m³/s) Feb. 1, 1962, Aug. 8, 1964, gage height, 1.53 ft (0.466 m); minimum daily, 4.6 ft³/s (0.13 m³/s) June 2, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,710 ft³/s (218 m³/s) Apr. 8, gage height, 8.74 ft (2.664 m); minimum, 11 ft³/s (0.31 m³/s) Oct. 17, gage height, 1.78 ft (0.542 m); minimum daily, 716 ft³/s (20.28 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1570	2030	2520	2040	2170	2300	6460	3890	4780	3610	837	2640
2	1380	1920	2550	1360	2280	2080	6540	3960	4730	3930	1520	2560
3	1110	2150	2010	1830	1910	2100	6490	3910	4450	3450	1530	2180
4	772	1910	2350	1360	2400	2380	6750	3830	3980	3300	1870	1090
5	716	2180	2370	1960	2200	3350	7260	3710	3770	2960	1430	1070
6	1150	1880	2310	1580	2400	3080	7180	3710	3630	3160	1510	1220
7	1630	1950	2310	1550	2100	3600	7380	4830	3590	3070	939	1850
8	1780	2040	2140	1790	1900	3330	7480	4980	3330	2840	1260	1490
9	1470	2070	2720	1420	2100	3550	7360	4850	3160	2390	1170	1610
10	1610	2100	2770	1410	2400	3650	7230	4620	2450	2520	1630	1640
11	1360	1980	2730	1480	2400	3660	6720	4530	2310	2590	1710	958
12	1750	1920	2590	1800	2270	3430	6490	4610	2220	2920	1390	1370
13	1520	1960	2520	1530	2110	3880	5410	4360	1730	3090	1430	1190
14	1490	2140	2020	1210	2440	3850	4020	4050	2430	3170	1250	1560
15	1870	2120	2500	1540	2500	3800	3770	4310	2240	2730	1250	1760
16	847	2120	2490	1560	1700	3090	3710	4310	2180	2820	1650	1590
17	923	1940	2510	1590	1800	3440	3670	4270	2300	2650	2000	1550
18	1180	1880	2390	1260	1900	3680	3640	4050	2070	2710	2310	1450
19	1770	2030	2140	1910	1900	3700	3500	4130	1450	2430	2100	883
20	1700	1890	2550	1290	1900	3860	3630	4710	1520	1990	2440	1800
21	1840	2700	2550	1610	1800	4320	3430	5350	2160	1880	2040	1530
22	1590	2890	2280	1660	1900	4500	3520	5510	1610	1650	1810	1070
23	1590	2490	2350	1570	2600	4600	3220	5430	1870	1880	2200	1440
24	1620	2900	2930	1390	2000	4800	3240	5730	1770	1300	2490	1400
25	1640	2820	2510	1280	2200	5000	3090	5570	2050	1280	2580	1340
26	1100	2790	2210	1740	2000	5200	3560	5610	2070	1440	2590	1270
27	1700	2780	2530	1210	2500	5400	3680	5220	2080	1820	2350	1630
28	2200	2410	1780	1780	2150	5400	3680	5010	2900	1650	2440	1190
29	2160	2840	2430	1960	1970	5600	3680	4570	2930	1370	2210	1510
30	2310	2700	2180	2180	---	5800	3710	4600	3460	1640	2090	1540
31	1550	---	1430	2010	---	6000	---	4790	---	1150	2590	---
TOTAL	46898	67530	73670	49860	61900	122830	149500	143010	81220	75390	56616	45381
MEAN	1513	2251	2376	1608	2134	3962	4983	4613	2707	2432	1826	1513
MAX	2310	2900	2930	2180	2600	6000	7480	5730	4780	3930	2590	2640
MIN	716	1880	1430	1210	1700	2080	3090	3710	1450	1150	837	883

CAL YR 1975 TOTAL 685146 MEAN 1877 MAX 3960 MIN 81
WTR YR 1976 TOTAL 973805 MEAN 2661 MAX 7480 MIN 716

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04268000 RAQUETTE RIVER AT RAYMONDVILLE, NY

LOCATION.--Lat 44°50'20", long 74°58'45", St. Lawrence County, Hydrologic Unit 04150305, on right bank 250 ft (76 m) upstream from bridge on Grant Road at Raymondville, 0.3 mi (0.5 km) downstream from Trout Brook, 0.4 mi (0.6 km) downstream from Niagara Mohawk Power Corp. powerplant, and 18.0 mi (29.0 km) upstream from mouth.

DRAINAGE AREA.--1,131 mi² (2,929 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 183.33 ft (55.879 m) above mean sea level.

REMARKS.--Records fair except those for winter periods, which are poor. Extensive diurnal fluctuation caused by power and industrial operations. Flow regulated since 1953 by Carry Falls Reservoir, about 46 mi (74 km) upstream; considerable natural storage in large lakes above Piercefield.

AVERAGE DISCHARGE.--32 years (1944-76), 1,997 ft³/s (56.56 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s (368 m³/s) Apr. 5, 1974, gage height, 8.40 ft (2.560 m); maximum gage height, 9.24 ft (2.816 m) Feb. 22, 1954 (backwater from ice); minimum discharge, 2.2 ft³/s (0.062 m³/s) Sept. 18, 19, 1966; minimum daily, 7.0 ft³/s (0.20 m³/s) Oct. 15, 1951; minimum gage height, 0.42 ft (0.128 m) July 13, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,030 ft³/s (256 m³/s) Apr. 1, gage height, 6.84 ft (2.084 m); maximum gage height, 7.25 ft (2.210 m) Feb. 7 (backwater from ice); minimum daily discharge, 791 ft³/s (22.4 m³/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	2220	2940	1600	2100	2600	7860	4010	5210	4530	1600	2550
2	1460	2200	2830	1700	2300	2400	8060	4520	5210	4370	1500	2570
3	1320	2150	2840	1800	2400	2400	7600	4690	4940	4750	1900	2610
4	1060	2260	2710	1800	2500	2700	7210	4670	4310	3850	2100	1980
5	791	2180	2740	1900	2600	3300	7080	4230	4070	3260	1900	1310
6	854	2180	3010	1900	2700	3500	7360	4040	3940	3180	1700	1160
7	1420	2190	3100	1900	2700	3700	7310	5280	3830	2950	1600	1650
8	1520	2210	2880	1900	2500	3800	7430	7040	4000	2930	1300	1670
9	1600	2560	2820	1900	2300	3800	7490	5880	4030	2970	1600	1680
10	1690	2510	2830	1900	2200	3900	7450	5480	2650	2610	1800	1920
11	1730	2550	2830	1700	3300	3900	7390	5200	2030	2460	2100	1570
12	1720	2490	2760	1600	3300	4000	7140	4720	2040	2570	2000	1150
13	1730	2570	2690	1500	3300	4000	6490	4940	2340	3700	1800	1400
14	1730	2830	2860	1400	3300	4100	4590	4840	2280	3610	1600	1680
15	1560	2710	3150	1300	3400	4000	4280	4640	2520	3240	1700	1470
16	1860	2730	3170	1500	3300	4000	4270	4630	3130	3130	2100	1680
17	1890	2740	2910	1700	2400	3700	4120	4630	2290	2620	2430	1970
18	1950	2860	2810	1800	2100	3900	3960	4760	2980	2710	2310	1440
19	1730	2680	2920	1900	2100	4200	3770	5550	3150	2570	2280	1180
20	1880	2690	3000	1900	2200	4500	3160	7940	1540	2630	2230	1330
21	2110	2920	2900	1800	2300	5800	3370	7040	911	2300	2220	1930
22	2060	3000	2700	1700	2300	6600	3720	6380	1890	1970	2180	1930
23	2060	3510	2600	1700	2400	5990	3850	6250	2170	1760	2200	1070
24	1950	3490	2600	1700	2500	5660	3710	6070	2460	1390	2510	1440
25	1850	3430	2700	1800	2600	5880	3320	6070	2810	1520	2480	1410
26	1860	3330	2800	1800	2700	5940	3400	6030	2790	1370	2520	1520
27	1830	2800	2700	1800	3000	5430	3990	5970	2790	1300	2550	1520
28	1940	2750	2600	1700	3100	5910	4400	5490	3590	1500	2560	1840
29	2480	2700	2500	1800	3100	5670	4360	4510	3490	1200	2560	1830
30	1850	2810	2100	1900	---	6230	4420	4650	3670	1700	2510	1710
31	2150	---	1700	2000	---	6540	---	4790	---	1900	2510	---
TOTAL	52845	80250	85700	54300	77000	138450	162560	164940	93061	82550	64350	50170
MEAN	1705	2675	2765	1752	2655	4466	5419	5321	3102	2663	2076	1672
MAX	2480	3510	3170	2000	3400	6600	8060	7940	5210	4750	2560	2610
MIN	791	2150	1700	1300	2100	2400	3160	4010	911	1200	1300	1070
CAL YR 1975	TOTAL	796911	MEAN	2183	MAX	5420	MIN	365				
WTR YR 1976	TOTAL	1106176	MEAN	3022	MAX	8060	MIN	791				

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

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04269000 ST. REGIS RIVER AT BRASHER CENTER, NY
(National stream-quality accounting network station)

LOCATION.--Lat 44°51'49", long 74°46'45", St. Lawrence County, Hydrologic Unit 04150306, on left bank 600 ft (183 m) upstream from highway bridge at Brasher Center, and 6.5 mi (10.5 km) downstream from West Branch. Water-quality sampling site at discharge station.

DRAINAGE AREA.--616 mi² (1,595 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to current year. Monthly discharge only for some periods, published in WSP 1307.

REVISED RECORDS.--WSP 584: Drainage area. WSP 1387: 1910-16, 1917(M).

GAGE.--Water-stage recorder. Datum of gage is 217.23 ft (66.212 m) above mean sea level. Prior to June 24, 1916, nonrecording gage at site 600 ft (183 m) downstream at different datum. June 24, 1916 to Nov. 10, 1917, and Jan. 1, 1919 to Aug. 13, 1920, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter periods and period of no gage-height record, which are poor. Slight diurnal fluctuation caused by powerplant operations above station.

AVERAGE DISCHARGE.--66 years, 1,040 ft³/s (29.45 m³/s), 22.93 in/yr (582.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft³/s (476 m³/s) Apr. 6, 1937, gage height, 12.82 ft (3.908 m); maximum gage height recorded, about 15.3 ft (4.66 m) Apr. 6, 1937 (ice jam); minimum discharge observed, about 34 ft³/s (0.96 m³/s) Aug. 8, 1917, gage height, 5.25 ft (1.600 m); minimum daily, 37 ft³/s (1.05 m³/s) Aug. 8, 1917.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,600 ft³/s (160 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 22	--	5,800 164	ice jam	Apr. 2	0500	7,490 212	9.95 3.033
Mar. 28	1845	*8,680 246	*10.37 3.161	May 21	--	7,300 207	unknown

Minimum discharge, 196 ft³/s (5.55 m³/s) Oct. 8, gage height, 5.81 ft (1.771 m); minimum daily, 255 ft³/s (7.22 m³/s) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	841	571	980	490	1300	1700	5650	1710	1500	931	896	371
2	744	581	1200	480	1200	1300	7170	2090	1700	1000	885	363
3	765	590	1200	470	1200	1200	5550	2100	1590	1140	722	453
4	620	620	1000	470	1100	1600	4190	1700	1480	1440	571	461
5	610	630	940	460	1000	2300	3310	1500	1130	1400	496	571
6	496	630	1100	450	940	4200	2810	1600	1040	1170	453	581
7	427	571	2000	450	900	3500	2510	2700	942	965	436	542
8	255	660	1810	440	860	3000	2300	3600	863	830	444	470
9	296	1100	1690	430	800	2600	2080	2900	786	797	620	419
10	325	1010	1310	430	760	2000	1870	2300	733	797	650	386
11	325	1170	1310	420	760	1700	1810	2100	691	701	744	386
12	340	1190	1200	420	780	1300	1740	2300	722	650	701	403
13	363	1130	980	420	800	1100	1640	2100	722	712	691	411
14	487	1780	840	420	800	960	1590	1800	765	874	1400	395
15	630	1970	960	410	780	800	1540	1600	681	954	1580	419
16	670	1710	1100	400	820	760	1590	1500	775	885	1580	355
17	620	1590	1200	400	920	720	1750	1300	1190	808	1450	340
18	670	1810	840	390	1000	680	1830	1500	977	712	1210	355
19	965	1950	700	380	1100	900	1770	2600	754	640	1050	363
20	1780	1720	680	370	1300	1500	1680	5400	660	552	841	427
21	2250	1590	640	370	1500	2500	1550	6800	691	524	733	533
22	2090	2030	620	360	1800	5400	1450	5400	863	487	640	524
23	1980	1870	600	360	2100	4600	1510	4500	965	524	561	552
24	1580	1550	580	360	1900	4400	1590	4000	841	514	487	542
25	1320	1280	580	400	1800	4700	1470	2800	874	571	444	571
26	1110	1050	560	600	1800	5000	1430	2300	1310	571	403	453
27	931	977	540	1100	1900	5430	1770	2000	1770	552	386	830
28	797	920	520	1300	2000	7880	2140	1800	1490	681	371	1140
29	701	880	500	1400	2100	6950	2270	1700	1230	852	371	1100
30	650	860	500	1400	---	5430	2040	1500	1020	863	355	896
31	610	---	500	1300	---	4500	---	1400	---	733	310	---
TOTAL	26248	35990	29180	17550	36020	90610	71600	78600	30755	24830	22481	15612
MEAN	847	1200	941	566	1242	2923	2387	2535	1025	801	725	520
MAX	2250	2030	2000	1400	2100	7880	7170	6800	1770	1440	1580	1140
MIN	255	571	500	360	760	680	1430	1300	660	487	310	340
CFSM	1.38	1.95	1.53	.92	2.02	4.75	3.88	4.12	1.66	1.30	1.18	.84
IN.	1.59	2.17	1.76	1.06	2.18	5.47	4.32	4.75	1.86	1.50	1.36	.94

CAL YR 1975 TOTAL 372380 MEAN 1020 MAX 8050 MIN 148 CFSM 1.66 IN 22.49
WTR YR 1976 TOTAL 479476 MEAN 1310 MAX 7880 MIN 255 CFSM 2.13 IN 28.96

Note.--No gage-height record May 3 to June 2.

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: September 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 29.0°C Aug. 4, 1975; minimum, freezing point on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 25.0°C June 16; minimum, freezing point on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT										
08...	1030	219	70	6.8	10.0	1	10.8	96	690	120
NOV										
05...	1000	650	70	6.8	10.5	1	10.0	89	820	810
DEC										
04...	1030	1470	89	6.6	.0	1	13.6	94	140	120
JAN										
13...	0715	1060	97	6.7	.0	1	12.0	83	75	46
FEB										
10...	1100	2040	70	6.7	.0	1	12.6	87	816	83
MAR										
09...	1115	3410	57	6.0	.0	1	13.3	92	22	87
APR										
13...	1100	1610	56	6.3	4.0	1	12.0	92	440	21
MAY										
03...	0930	2000	70	6.5	8.5	1	11.2	92	97	68
JUN										
02...	1030	1680	55	6.8	17.0	2	8.9	93	67	59
JUL										
06...	1100	1170	62	6.6	23.0	2	7.3	86	837	38
AUG										
03...	1000	808	75	7.1	20.0	1	8.5	93	25	28
SEP										
08...	0915	461	81	6.7	15.0	1	9.8	98	40	41

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT										
08...	37	16	10	3.0	1.7	.6	26	0	21	13
NOV										
05...	42	16	12	3.0	1.6	.5	32	0	26	13
DEC										
04...	38	18	11	2.6	1.4	.3	25	0	21	13
JAN										
13...	40	9	10	3.7	1.5	.5	38	0	31	11
FEB										
10...	33	9	8.5	2.9	1.3	.4	30	0	25	10
MAR										
09...	22	11	6.0	1.7	.8	.4	13	0	11	8.8
APR										
13...	23	9	6.0	1.9	.8	.3	17	0	14	8.1
MAY										
03...	32	12	8.0	2.8	1.2	.2	24	0	20	7.1
JUN										
02...	24	5	6.4	2.0	1.0	.3	24	0	20	6.8
JUL										
06...	24	24	6.4	1.9	1.4	.3	--	0	--	11
AUG										
03...	34	2	9.0	2.7	1.2	.4	39	0	32	7.0
SEP										
08...	37	4	9.2	3.3	1.3	.5	40	0	33	7.3

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

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

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04269000 ST. REGIS RIVER AT BRASHER CENTER, NY --Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 08...	1.4	.2	6.7	--	49	.05	.35	.40	.03
NOV 05...	1.6	.2	6.8	67	55	.07	.33	.40	.02
DEC 04...	2.4	.1	7.8	65	51	.28	.28	.56	.02
JAN 13...	1.6	.2	9.3	72	57	.40	.24	.64	.04
FEB 10...	1.8	.2	8.5	58	49	.54	.25	.79	.03
MAR 09...	1.6	.2	6.1	53	32	.50	.34	.84	.03
APR 13...	1.7	.1	5.4	45	33	.27	.38	.65	.04
MAY 03...	2.0	.1	4.4	47	38	.09	.43	.52	.04
JUN 02...	1.3	.1	3.8	42	34	.08	.40	.48	.05
JUL 06...	1.8	.1	6.2	57	--	.13	.78	.91	.06
AUG 03...	1.7	.1	6.5	62	48	.12	.48	.60	.03
SEP 08...	1.4	.1	6.8	63	50	.16	.43	.59	.03

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
July 6	34	3.85	1.85	7.70	0.0	260	Polyethylene strip
Aug. 3	28	4.85	2.85	15.4	2.14	130	Polyethylene strip
Sept. 8	36	3.31	1.92	10.5	.322	130	Polyethylene strip

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04269000 ST. REGIS, RIVER AT BRASHER CENTER, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Oct. 8	1030	CHLOROPHYTA			Nov. 5	1000	CHRYSOPHYTA		
		CHLOROPHYCEAE					BACILLARIOPHYCEAE		
		CHLOROCOCCALES					PENNALES		
		HYDRODICTYACEAE					ACHNANTHACEAE		
		SORASTRUM	L	0			ACHNANTHES	540	65
		OCCYSTACEAE					CYMBELLACEAE		
		ANKISTRODESMUS	8	1			CYMBELLA	L	0
		SCENEDESMACEAE					EUNOTIACEAE		
		SCENEDESMUS	15	3			EUNOTIA	L	0
		ZYGNEMATALES					FRAGILARIACEAE		
		DESMIDIACEAE					SYNEDRA	49	6
		SPONDYLIUM	8	1			GOMPHONEMACEAE		
		CHRYSOPHYTA					GOMPHONEMA	49	6
		BACILLARIOPHYCEAE					NAVICULACEAE		
		PENNALES					NAVICULA	49	6
		ACHNANTHACEAE					NITZSCHACEAE		
		ACHNANTHES	260	47			NITZSCHIA	150	18
		CYMBELLACEAE					TOTAL	830	
		CYMBELLA	23	4					
		FRAGILARIACEAE							
		FRAGILARIA	23	4					
		HANNAEA	8	1					
		SYNEDRA	8	1					
		GOMPHONEMACEAE							
		GOMPHONEMA	15	3					
		NAVICULACEAE							
		NAVICULA	45	8					
		NITZSCHACEAE							
		NITZSCHIA	38	7					
		TABELLARIACEAE							
		TABELLARIA	8	1					
		CHRYSOPHYCEAE							
		CHRYSOMONADALES							
		OCHROMONADACEAE							
		DINOBRYON	8	1					
		CYANOPHYTA							
		MYXOPHYCEAE							
		OSCILLATORIALES							
		OSCILLATORIA	83	15					
		TOTAL	540						
Dec. 4	1030	CHLOROPHYTA			Jan. 13	0715	CHRYSOPHYTA		
		CHLOROPHYCEAE					BACILLARIOPHYCEAE		
		ZYGNEMATALES					PENNALES		
		DESMIDIACEAE					ACHNANTHACEAE		
		SPONDYLIUM	30	4			ACHNANTHES	19	16
		CHRYSOPHYTA					COCCONEIS	5	4
		BACILLARIOPHYCEAE					CYMBELLACEAE		
		PENNALES					CYMBELLA	L	0
		ACHNANTHACEAE					DIATOMACEAE		
		ACHNANTHES	330	44			DIATOMA	38	32
		COCCONEIS	30	4			FRAGILARIACEAE		
		CYMBELLACEAE					SYNEDRA	5	4
		CYMBELLA	60	8			NAVICULACEAE		
		FRAGILARIACEAE					NAVICULA	14	12
		HANNAEA	L	0			NITZSCHACEAE		
		SYNEDRA	30	4			NITZSCHIA	9	8
		GOMPHONEMACEAE					CYANOPHYTA		
		GOMPHONEMA	30	4			MYXOPHYCEAE		
		NAVICULACEAE					OSCILLATORIALES		
		NAVICULA	91	12			NOSTOCACEAE		
		NITZSCHACEAE					ANABAENA	28	24
		NITZSCHIA	120	16			TOTAL	120	
		CHRYSOPHYCEAE							
		CHRYSOMONADALES							
		OCHROMONADACEAE							
		DINOBRYON	30	4					
		CYANOPHYTA							
		MYXOPHYCEAE							
		OSCILLATORIALES							
		OSCILLATORIA	L	0					
		TOTAL	750						

L - less than 1%, may not have been actually counted.

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

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04269000 ST. REGIS RIVER AT BRASHER CENTER, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Feb. 10	1100	CHRYSOPHYTA			Mar. 9	1115	CHLOROPHYTA		
		BACILLARIOPHYCEAE					CHLOROPHYCEAE		
		PENNALES					CHLOROCOCCALES		
		ACHNANTHACEAE					SCENEDESMACEAE		
		ACHNANTHES	29	19			SCENEDESMUS	L	0
		CYMBELLACEAE					CHRYSOPHYTA		
		CYMBELLA	L	0			BACILLARIOPHYCEAE		
		FRAGILARIACEAE					CENTRALES		
		FRAGILARIA	10	6			COSCINODISCEAE		
		SYNEDRA	5	3			MELOSIRA	L	0
		GOMPHONEMACEAE					PENNALES		
		GOMPHONEMA	19	12			ACHNANTHACEAE		
		NAVICULACEAE					ACHNANTHES	62	21
		NAVICULA	19	12			COCCONEIS	L	0
		CYANOPHYTA					CYMBELLACEAE		
		MYXOPHYCEAE					CYMBELLA	L	0
		OSCILLATORIALES					DIATOMACEAE		
		OSCILLATORIA					DIATOMA	L	0
		OSCILLATORIA	71	47			EUNOTIACEAE		
							EUNOTIA	L	0
		TOTAL	150				FRAGILARIACEAE		
							FRAGILARIA	170	57
							HANNAEA	L	0
							SYNEDRA	21	7
							MERIDIONACEAE		
							MERIDION	L	0
							NAVICULACEAE		
							FRUSTULIA	L	0
							NAVICULA	21	7
							NITZSCHIA		
							NITZSCHIA	21	7
							TABELLARIACEAE		
							TABELLARIA	L	0
							TOTAL	290	
Apr. 13	1100	CHLOROPHYTA			May 3	0930	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		SCENEDESMACEAE					COELASTRACEAE		
		SCENEDESMUS	50	12			COELASTRUM	L	0
		CHRYSOPHYTA					ZYGNEMALES		
		BACILLARIOPHYCEAE					DESMIDIACEAE		
		PENNALES					COSMARIUM	15	2
		ACHNANTHACEAE					CHRYSOPHYTA		
		ACHNANTHES	120	30			BACILLARIOPHYCEAE		
		FRAGILARIACEAE					PENNALES		
		FRAGILARIA	74	18			ACHNANTHACEAE		
		SYNEDRA	50	12			ACHNANTHES	310	33
		GOMPHONEMACEAE					COCCONEIS	L	0
		GOMPHONEMA	87	21			CYMBELLACEAE		
		MERIDIONACEAE					CYMBELLA	30	3
		MERIDION	12	3			DIATOMACEAE		
		TABELLARIACEAE					DIATOMA	15	2
		TABELLARIA	12	3			FRAGILARIACEAE		
							FRAGILARIA	59	6
		TOTAL	410				SYNEDRA	190	20
							MERIDIONACEAE		
							MERIDION	15	2
							NAVICULACEAE		
							NAVICULA	44	5
							NITZSCHIA		
							NITZSCHIA	270	28
							TOTAL	940	

L - less than 1%, may not have been actually counted.

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
June 2	1030	CHLOROPHYTA			July 6	1100	CHLOROPHYTA		
		CHLOROPHYCEAE					CHLOROPHYCEAE		
		CHLOROCOCCALES					CHLOROCOCCALES		
		OCCYSTACEAE					OCCYSTACEAE		
		ANKISTRODESMUS	28	1			OCCYSTIS	35	3
		TETRASPORALES					SCENEDESMACEAE		
		COCCOMYXACEAE					CRUCIGENIA	160	13
		ELAKATOTHRIX	28	1			SCENEDESMUS	92	8
		CHRYSOPHYTA					CHRYSOPHYTA		
		BACILLARIOPHYCEAE					BACILLARIOPHYCEAE		
		CENTRALES					CENTRALES		
		COSCINODISACEAE					COSCINODISACEAE		
		MELOSIRA	140	7			CYCLOTELLA	81	7
		PENNALES					MELOSIRA	23	2
		ACHNANTHACEAE					PENNALES		
		ACHNANTHES	780	41			ACHNANTHACEAE		
		CYMBELLACEAE					ACHNANTHES	280	23
		CYMBELLA	28	1			FRAGILARIACEAE		
		FRAGILARIACEAE					ASTERIONELLA	12	1
		FRAGILARIA	140	7			NAVICULACEAE		
		SYNEDRA	140	7			NAVICULA	81	7
		GOMPHONEMACEAE					PINNULARIA	12	1
		GOMPHONEMA	28	1			NITZSCHIA		
		NAVICULACEAE					NITZSCHIA	200	16
		NAVICULA	55	3			TABELLARIACEAE		
		NITZSCHIA	280	15			TABELLARIA	12	1
		TABELLARIACEAE					CYANOPHYTA		
		TABELLARIA	140	7			MYXOPHYCEAE		
		CHRYSOPHYCEAE					CHROOCOCCALES		
		CHRYSONADAE					CHROOCOCCACEAE		
		OCHROMONADACEAE					ANACYSTIS	230	19
		DINOBRYON	110	6			TOTAL	1,200	
		TOTAL	1,900						
Aug. 3	1000	CHLOROPHYTA			Sep. 8	0915	CHRYSOPHYTA		
		CHLOROPHYCEAE					BACILLARIOPHYCEAE		
		CHLOROCOCCALES					CENTRALES		
		OCCYSTACEAE					COSCINODISACEAE		
		ANKISTRODESMUS	11	3			CYCLOTELLA	6	3
		KIRCHNERIELLA	11	3			PENNALES		
		SCENEDESMACEAE					ACHNANTHACEAE		
		SCENEDESMUS	L	0			ACHNANTHES	110	59
		ZYGNEMATALES					CYMBELLACEAE		
		DESMIDIACEAE					CYMBELLA	6	3
		STAUSTRUM	11	3			NAVICULACEAE		
		CHRYSOPHYTA					NAVICULA	34	19
		BACILLARIOPHYCEAE					NITZSCHIA	29	16
		CENTRALES					CYANOPHYTA		
		COSCINODISACEAE					MYXOPHYCEAE		
		CYCLOTELLA	11	3			OSCILLATORIALES		
		PENNALES					NOSTOCACEAE		
		ACHNANTHACEAE					ANABAENA	L	0
		ACHNANTHES	170	44			TOTAL	180	
		CYMBELLACEAE							
		AMPHORA	11	3					
		CYMBELLA	11	3					
		FRAGILARIACEAE							
		ASTERIONELLA	11	3					
		SYNEDRA	21	6					
		GOMPHONEMACEAE							
		GOMPHONEMA	L	0					
		NAVICULACEAE							
		NAVICULA	21	6					
		NITZSCHIA	32	8					
		CHRYSOPHYCEAE							
		CHRYSONADAE							
		OCHROMONADACEAE							
		DINOBRYON	11	3					
		CYANOPHYTA							
		MYXOPHYCEAE							
		CHROOCOCCALES							
		CHROOCOCCACEAE							
		ANACYSTIS	53	14					
		TOTAL	380						

L - less than 1%, may not have been actually counted.

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

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04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.5	9.0	1.0	0.0	0.0	0.0	1.5	6.0	17.5	21.0	21.5	21.0
2	14.0	9.0	1.0	0.0	0.0	0.0	2.0	6.5	17.5	21.0	21.5	19.5
3	13.0	9.0	1.0	0.0	0.0	0.0	3.5	7.0	17.5	21.0	20.5	18.0
4	13.0	9.0	0.5	0.0	0.0	0.0	4.5	8.5	18.0	21.0	21.0	17.5
5	13.0	9.0	0.5	0.0	0.0	0.0	3.0	9.5	18.0	21.5	21.0	17.0
6	13.0	9.0	0.5	0.0	0.0	0.0	3.0	9.0	18.0	21.5	20.5	17.0
7	13.0	9.0	0.5	0.0	0.0	0.0	4.0	8.0	18.0	21.5	20.5	17.5
8	13.0	9.0	0.5	0.0	0.0	0.0	4.0	7.0	18.5	22.0	20.0	17.5
9	12.5	8.5	0.5	0.0	0.0	0.0	3.5	7.5	18.5	22.0	20.0	18.0
10	12.5	8.5	0.0	0.0	0.0	0.0	3.5	9.5	19.0	22.5	19.5	18.0
11	12.0	7.5	0.0	0.0	0.0	0.0	4.0	13.0	19.5	22.5	19.5	18.5
12	12.0	7.5	0.0	0.0	0.0	0.0	4.0	13.0	19.5	22.0	19.0	18.5
13	12.0	7.0	0.0	0.0	0.0	0.0	3.0	14.5	19.5	22.0	19.0	18.5
14	12.0	6.0	0.0	0.0	0.0	0.0	4.5	14.5	20.5	22.0	19.0	18.0
15	12.0	5.5	0.0	0.0	0.0	0.0	4.5	14.0	23.0	21.5	18.5	18.0
16	12.0	5.0	0.0	0.0	0.0	0.0	6.0	14.0	25.0	21.5	18.0	18.5
17	12.0	5.0	0.0	0.0	0.0	0.0	8.5	13.0	24.0	20.0	18.0	17.5
18	11.5	4.5	0.0	0.0	0.0	0.0	15.0	13.0	23.5	20.0	19.5	17.5
19	11.0	4.0	0.0	0.0	0.0	0.0	16.5	10.0	23.5	20.0	18.5	17.0
20	10.0	4.0	0.0	0.0	0.0	0.0	15.5	7.5	23.5	20.0	18.5	17.0
21	9.5	3.5	0.0	0.0	0.0	0.0	14.0	7.0	23.5	20.0	19.0	16.5
22	9.5	3.0	0.0	0.0	0.0	0.0	10.5	6.5	23.5	20.0	19.0	15.5
23	9.0	2.5	0.0	0.0	0.0	0.0	10.0	7.0	24.0	20.0	19.5	13.0
24	10.0	2.5	0.0	0.0	0.0	0.0	8.0	7.5	24.0	20.0	20.5	12.5
25	12.5	2.0	0.0	0.0	0.0	0.0	8.0	8.5	23.5	20.0	22.5	12.5
26	12.0	2.0	0.0	0.0	0.0	0.5	7.5	10.0	22.0	20.0	24.0	12.5
27	11.5	2.0	0.0	0.0	0.0	0.5	7.0	12.0	22.5	20.0	24.5	12.5
28	11.0	1.5	0.0	0.0	0.0	1.0	6.0	14.5	23.0	20.0	24.5	12.0
29	10.0	1.5	0.0	0.0	0.0	1.0	6.0	16.0	22.0	20.0	24.5	12.0
30	10.0	1.0	0.0	0.0	---	1.5	5.5	17.5	21.0	20.0	23.5	12.0
31	9.5	---	0.0	0.0	---	1.5	---	17.5	---	20.0	---	---
AVERAGE	11.5	5.5	0.0	0.0	0.0	0.0	6.5	10.5	21.0	21.0	20.5	16.5

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV						MAR					
05...	1000	650	4	7.0	55	09...	1115	3410	4	37	58
DEC						APR					
04...	1030	1470	3	12	74	13...	1100	1610	3	13	67
JAN						MAY					
13...	0715	1060	3	8.6	67	03...	0930	2000	3	16	84
FEB						JUN					
10...	1100	2040	1	5.5	44	02...	1030	1680	13	59	65

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER
04269043 DEER RIVER AT NORTH LAWRENCE, NY

LOCATION.--Lat 44°47'57", long 74°40'24", St. Lawrence County, Hydrologic Unit 04150306, on right bank 0.4 mi (0.6 km) upstream from abandoned railroad bridge, 0.5 mi (0.8 km) upstream from dam at Kraft Co. plant at North Lawrence, and 1.7 mi (2.7 km) downstream from Kingston Brook.

DRAINAGE AREA.--88.2 mi² (228 km²).

PERIOD OF RECORD.--December 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 330 ft (101 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are poor.

COOPERATION.--Observer services furnished by personnel of the Kraft Co. plant, North Lawrence N.Y.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,350 ft³/s (67.3 m³/s) Apr. 4, 1974, gage height, 5.22 ft (1.591 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s); maximum gage height, 12.03 ft (3.667 m) Jan. 8, 1973 (backwater from ice); minimum discharge, 18 ft³/s (0.51 m³/s) Aug. 20, 21, 1975, gage height, 1.35 ft (0.411 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 21	1530	ice jam	*9.74 2.969	Apr. 1	2330	1,280 36.2	3.93 1.198
Mar. 22	--	1,000 28.3	ice jam	May 7	1400	1,120 31.7	3.70 1.128
Mar. 28	0900	1,450 41.1	4.15 1.265	May 19	2200	*1,550 43.9	4.28 1.305

Minimum discharge, 40 ft³/s (1.13 m³/s) Aug. 31, Sept. 1, gage height, 1.57 ft (0.479 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	84	219	96	160	290	977	280	258	121	161	48
2	129	84	214	88	150	240	1190	357	280	137	126	69
3	111	86	169	84	140	200	834	280	248	157	98	71
4	95	90	120	86	140	250	607	238	209	286	84	64
5	79	86	120	96	130	330	464	204	171	214	76	88
6	71	79	150	86	120	450	394	233	150	181	83	93
7	66	76	190	88	110	540	357	717	129	147	77	90
8	59	107	190	88	98	400	321	656	111	139	77	79
9	59	181	180	86	92	300	275	494	93	124	81	71
10	62	171	200	86	92	280	238	386	83	107	83	66
11	59	181	170	80	120	240	228	333	86	98	90	62
12	69	159	140	76	140	200	214	402	109	90	88	62
13	84	171	200	74	160	180	204	351	105	92	95	57
14	129	304	260	70	200	180	209	280	93	129	121	52
15	129	286	100	72	240	180	194	264	83	129	116	50
16	114	269	220	80	280	140	194	228	152	114	139	48
17	105	280	130	78	200	130	204	204	214	102	145	48
18	145	382	120	76	170	110	214	228	116	98	126	50
19	174	310	100	74	260	170	214	685	98	90	105	62
20	390	253	90	70	260	300	204	1090	109	81	88	77
21	398	275	80	72	210	450	189	757	114	76	77	88
22	378	382	70	74	270	780	179	620	119	71	69	86
23	316	327	70	70	280	700	204	545	126	68	64	86
24	258	248	70	66	240	580	199	427	109	76	55	81
25	204	189	80	64	210	700	174	370	129	79	50	74
26	174	161	96	100	280	961	184	321	150	76	44	72
27	150	157	110	320	460	1060	275	253	243	81	43	176
28	124	157	100	280	400	1390	345	199	181	100	45	166
29	107	145	92	240	370	1060	386	169	152	111	50	145
30	96	139	98	210	---	772	351	150	126	119	47	126
31	90	---	110	180	---	627	---	145	---	114	43	---
TOTAL	4561	5819	4258	3310	5982	14190	10222	11866	4346	3607	2646	2407
MEAN	147	194	137	107	206	458	341	383	145	116	85.4	80.2
MAX	398	382	260	320	460	1390	1190	1090	280	286	161	176
MIN	59	76	70	64	92	110	174	145	83	68	43	48
CFSM	1.67	2.20	1.55	1.21	2.34	5.19	3.87	4.34	1.64	1.32	.97	.91
IN.	1.92	2.45	1.80	1.40	2.52	5.98	4.31	5.00	1.83	1.52	1.12	1.02
CAL YR 1975	TOTAL	54234	MEAN 149	MAX 1150	MIN 18	CFSM 1.69	IN 22.87					
WTR YR 1976	TOTAL	73214	MEAN 200	MAX 1390	MIN 43	CFSM 2.27	IN 30.88					

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

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04270000 SALMON RIVER AT CHASM FALLS, NY

LOCATION.--Lat 44°45'22", long 74°13'09", Franklin County, Hydrologic Unit 04150307, on right bank 0.1 mi (0.2 km) downstream from Niagara Mohawk Power Corp. powerplant at Chasm Falls, and 3.0 mi (4.8 km) downstream from Duane Stream.

DRAINAGE AREA.--132 mi² (342 km²).

PERIOD OF RECORD.--July 1925 to current year.

REVISED RECORDS.--WSP 729: 1931 (m). WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,011.52 ft (308.311 m) above mean sea level.

REMARKS.--Records good except those for winter periods, which are fair. Seasonal regulation of flow by upstream reservoirs. Diurnal fluctuation at low and medium flow caused by powerplant. A small diversion from tributary stream above station is used as water supply for village of Malone.

AVERAGE DISCHARGE.--51 years, 225 ft³/s (6.372 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,890 ft³/s (81.8 m³/s) Apr. 25, 1926, gage height, 5.0 ft (1.52 m); minimum, 9.8 ft³/s (0.28 m³/s) Sept. 26, 27, 1963, minimum daily, 28 ft³/s (0.79 m³/s) Sept. 4, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,980 ft³/s (56.1 m³/s) Mar. 28, gage height, 4.06 ft (1.237 m); minimum, 19 ft³/s (0.54 m³/s) Sept. 22, gage height, 0.54 ft (0.165 m); minimum daily, 128 ft³/s (3.62 m³/s) Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	241	312	178	231	360	1230	383	596	240	262	134
2	193	244	236	162	215	313	1420	444	439	267	274	191
3	198	242	194	168	202	305	1030	412	338	257	229	182
4	185	240	172	181	201	306	801	381	308	365	199	170
5	171	225	175	159	188	424	658	341	272	287	174	188
6	164	159	258	168	186	724	594	341	250	229	174	207
7	168	161	324	169	181	743	509	557	234	203	173	171
8	169	181	255	169	182	650	408	766	228	218	177	177
9	146	243	255	161	168	520	376	598	216	256	220	161
10	156	202	267	160	171	447	356	474	195	221	276	146
11	140	242	266	162	182	399	369	412	190	199	308	200
12	162	208	215	159	186	326	338	480	217	223	244	178
13	201	259	200	157	190	329	321	439	199	243	221	162
14	270	375	226	156	185	290	332	377	193	240	289	153
15	231	334	332	165	177	204	351	425	190	246	269	136
16	221	286	385	157	213	171	406	382	191	223	293	128
17	223	266	283	159	213	186	441	340	229	196	278	145
18	291	321	297	159	210	198	436	314	211	190	246	157
19	351	453	161	157	233	210	397	485	179	167	215	181
20	460	400	169	152	247	308	360	967	183	168	179	169
21	497	409	173	153	232	740	325	841	223	157	178	182
22	467	509	178	154	290	1150	246	667	201	170	172	171
23	414	405	180	153	393	1180	265	571	214	155	158	164
24	342	329	160	150	426	1030	264	477	199	194	152	155
25	321	297	174	149	356	935	239	428	244	182	141	142
26	354	264	166	157	326	991	245	396	301	165	138	149
27	289	266	175	247	340	1160	281	256	306	228	139	320
28	276	260	179	280	364	1750	405	250	304	304	142	279
29	266	249	175	276	338	1440	429	247	228	232	174	224
30	257	243	175	262	---	1020	400	242	208	232	151	198
31	249	---	179	241	---	935	---	255	---	221	150	---
TOTAL	8018	8513	6896	5480	7026	19744	14232	13948	7436	6878	6395	5320
MEAN	259	284	222	177	242	637	474	450	248	222	206	177
MAX	497	509	385	280	426	1750	1420	967	596	365	308	320
MIN	140	159	160	149	168	171	239	242	179	155	138	128
CAL YR 1975 TOTAL	90673			MEAN 248	MAX 1420	MIN 76						
WTR YR 1976 TOTAL	109886			MEAN 300	MAX 1750	MIN 128						

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER
04270200 LITTLE SALMON RIVER AT BOMBAY, NY

LOCATION.--Lat 44°56'24", long 74°33'24", Franklin County, Hydrologic Unit 04150307, on right bank 50 ft (15 m) downstream from bridge on road to Fort Covington Center, 0.5 mi (0.8 km) east of village of Bombay, and 7.2 mi (11.6 km) upstream from mouth.

DRAINAGE AREA.--93.6 mi² (242 km²).

PERIOD OF RECORD.--August to November 1957, July 1958 to current year. Occasional low-flow measurements, water years 1954-55, 1957.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft (53.008 m) above mean sea level. August to November 1957, at site 100 ft (30 m) upstream at datum 0.72 ft (0.219 m) higher.

REMARKS.--Records fair except those for winter periods and period of no gage-height record, which are poor.

AVERAGE DISCHARGE.--18 years (1958-76), 117 ft³/s (3.313 m³/s), 16.98 in/yr (431.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,250 ft³/s (92.0 m³/s) Apr. 4, 1974, gage height, 12.90 ft (3.932 m); minimum, 8.0 ft³/s (0.23 m³/s) Aug. 6, 7, 1965, gage height, 1.52 ft (0.463 m); minimum gage height, 0.85 ft (0.259 m) Sept. 2, 1957, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 22	--	ice jam	*12.22 3.725	Apr. 1	2330	1,210 34.3	7.59 2.313
Mar. 28	0930	958 27.1	6.76 2.060	May 20	0900	*2,020 57.2	10.04 3.060

Minimum discharge, 24 ft³/s (0.68 m³/s) Sept. 16, gage height, 1.66 ft (0.506 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	54	178	96	140	320	756	147	246	94	150	32
2	58	61	158	82	130	290	820	238	198	111	110	54
3	68	62	100	76	120	250	425	216	121	107	86	47
4	50	62	70	70	110	280	302	147	104	192	68	36
5	42	58	64	66	110	400	235	121	89	144	60	48
6	36	51	74	70	100	600	193	120	77	99	54	68
7	33	48	100	72	90	740	169	631	71	81	62	51
8	32	77	130	68	80	300	151	790	69	76	58	41
9	30	187	120	66	74	250	137	334	66	97	54	36
10	29	119	120	60	90	200	128	209	63	79	52	33
11	30	145	130	54	110	180	132	156	58	72	50	36
12	34	107	100	47	120	150	131	302	73	66	52	38
13	53	130	90	45	140	140	133	233	69	68	80	33
14	98	306	78	49	170	140	149	153	62	78	140	30
15	86	282	68	52	210	130	130	160	58	90	110	27
16	133	258	64	56	210	110	119	135	56	80	90	25
17	109	293	150	62	180	74	116	115	294	70	88	25
18	133	479	110	54	160	60	108	114	108	64	80	31
19	167	371	80	50	190	90	98	488	71	58	68	40
20	508	230	64	56	200	130	90	1460	93	54	60	42
21	516	215	58	54	180	300	84	478	110	50	50	44
22	232	360	54	52	220	1100	82	342	90	48	42	52
23	154	226	50	48	230	900	97	318	108	52	38	49
24	113	143	50	44	200	640	124	224	89	64	35	42
25	92	117	50	41	180	580	103	178	113	62	32	36
26	86	103	50	80	260	580	107	162	156	58	30	35
27	76	109	70	190	360	620	259	136	163	68	28	152
28	69	136	98	340	370	720	313	115	132	82	28	124
29	64	126	84	210	400	469	266	101	121	96	35	76
30	61	104	82	170	---	349	201	92	94	120	31	58
31	54	---	90	150	---	317	---	85	---	110	27	---
TOTAL	3292	5019	2784	2630	5114	11409	6158	8500	3222	2590	1948	1441
MEAN	106	167	89.8	84.8	176	368	205	274	107	83.5	62.8	48.0
MAX	516	479	178	340	400	1100	820	1460	294	192	150	152
MIN	29	48	50	41	74	60	82	85	56	48	27	25
CFSM	1.13	1.78	.96	.91	1.88	3.93	2.19	2.93	1.14	.89	.67	.51
IN.	1.31	1.99	1.11	1.05	2.03	4.53	2.45	3.38	1.28	1.03	.77	.57

CAL YR 1975 TOTAL 39320 MEAN 108 MAX 1830 MIN 12 CFSM 1.15 IN 15.63
WTR YR 1976 TOTAL 54107 MEAN 148 MAX 1460 MIN 25 CFSM 1.58 IN 21.50

Note.--No gage-height record July 11 to Aug. 26.

495

LOCATION.--Lat 44°57'49", long 74°07'53", Franklin County, Hydrologic Unit 04150307, on left bank 10 ft (3 m) downstream from bridge on Sam Cook Road, 0.2 mi (0.3 km) downstream from Marble River, 2.4 mi (3.9 km) upstream from international boundary, and 4.1 mi (6.6 km) northeast of Chateaugay.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,200 ft³/s (147 m³/s) Apr. 4, 1974, gage height, 7.33 ft (2.234 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s); maximum gage height, 10.99 ft (3.350 m) Feb. 11, 1966 (ice jam); minimum discharge, 45 ft³/s (1.27 m³/s) Aug. 31, 1969, gage height, 2.66 ft (0.811 m); minimum daily, 54 ft³/s (1.53 m³/s) Aug. 20, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,790 ft³/s (79.0 m³/s) Mar. 21, gage height, 6.23 ft (1.899 m), from rating curve extended above 1,600 ft³/s (45.3 m³/s); minimum, 55 ft³/s (1.56 m³/s) Oct. 11, 12, gage height, 2.69 ft (0.820 m); minimum daily, 55 ft³/s (1.56 m³/s) Oct. 11.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	278	210	240	96	120	495	1330	169	472	258	237	150
2	281	210	230	92	120	423	1230	185	353	268	177	140
3	251	210	270	90	120	436	1090	174	334	302	158	120
4	213	197	330	86	120	423	1040	166	309	296	156	121
5	188	180	310	86	110	905	1000	158	237	301	162	145
6	174	185	260	86	110	954	978	174	237	302	161	124
7	148	200	260	86	110	721	937	436	233	294	158	120
8	109	200	310	88	110	635	770	338	233	295	162	118
9	105	190	370	88	110	586	468	251	230	283	171	117
10	94	190	370	88	110	545	468	223	194	269	179	122
11	55	191	330	90	110	522	468	220	171	266	185	130
12	61	274	330	90	110	511	500	281	169	260	174	120
13	61	342	406	92	110	545	463	305	161	236	209	119
14	71	270	369	92	110	528	459	297	158	241	212	117
15	64	349	398	94	110	495	445	301	155	229	225	117
16	83	430	349	96	110	486	441	361	241	224	259	116
17	66	410	353	96	110	481	373	522	194	218	237	117
18	107	390	353	98	110	486	285	522	163	200	227	129
19	130	390	310	100	110	486	281	905	158	178	221	125
20	206	410	270	100	130	1060	278	987	169	161	215	114
21	194	400	250	100	140	1960	274	770	163	105	204	105
22	174	380	220	100	150	921	278	749	166	81	187	97
23	185	370	190	100	170	756	285	714	161	82	172	96
24	230	430	160	100	220	763	278	694	163	138	150	91
25	244	360	140	100	340	874	274	575	210	94	145	90
26	270	320	140	100	440	820	293	342	204	91	117	101
27	266	290	130	110	522	866	342	338	200	146	119	234
28	255	270	120	140	459	1040	436	330	204	130	174	149
29	262	260	110	140	481	995	450	326	194	131	148	135
30	266	250	110	130	---	937	305	322	208	156	136	128
31	244	---	100	120	---	945	---	373	---	188	135	---
TOTAL	5335	8758	8088	3074	5182	22601	16519	12508	6444	6423	5572	3707
MEAN	172	292	261	99.2	179	729	551	403	215	207	180	124
MAX	281	430	406	140	522	1960	1330	987	472	302	259	234
MIN	55	180	100	86	110	423	274	158	155	81	117	90
CAL YR 1975	TOTAL	87978	MEAN 241	MAX	3080	MIN 54						
WTR YR 1976	TOTAL	104211	MEAN 285	MAX	1960	MIN 55						

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04273500 SARANAC RIVER AT PLATTSBURGH, NY

LOCATION.--Lat 44°40'54", long 73°28'18", Clinton County, Hydrologic Unit 02010006, on right bank at Plattsburgh, 600 ft (183 m) downstream from Imperial Paper and Color Corp. dam, 3.0 mi (4.8 km) upstream from mouth, and 5.5 mi (8.8 km) downstream from Mead Brook.

DRAINAGE AREA.--608 mi² (1,575 km²). Prior to Nov. 12, 1919, 607 mi² (1,572 km²).

PERIOD OF RECORD.--March 1903 to September 1930, October 1943 to current year. Published as "near Plattsburgh," 1903-30.

REVISED RECORDS.--WSP 345: Drainage area. WSP 384: 1909-10 (monthly discharge only). WSP 1387: 1907-8. WSP 1437: 1908 (minimum daily only).

GAGE.--Water-stage recorder. Datum of gage is 155.74 ft (47.470 m) above mean sea level. Prior to Nov. 12, 1919, non-recording gage and Nov. 12, 1919 to Sept. 30, water-stage recorder, at site 1.5 mi (2.4 km) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. Considerable diurnal fluctuation caused by power and industrial operations. Slight regulation by storage in Upper and Lower Saranac Lakes and elsewhere. During year, city of Plattsburgh diverted an average of 5.92 ft³/s (0.17 m³/s) from Saranac River and Mead and West Brooks, tributaries above station, for municipal supply. About 1 ft³/s (0.028 m³/s) diverted from Great Chazy River basin into Saranac River for water supply of State Institutions at Dannemora.

AVERAGE DISCHARGE.--60 years, 826 ft³/s (23.39 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s (326 m³/s) Apr. 8, 1928, from computation of flow over dam and through waste gates and powerplant; minimum daily, 10 ft³/s (0.28 m³/s) July 5, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,710 ft³/s (190 m³/s) Mar. 28, gage height, 8.33 ft (2.539 m); minimum, 56 ft³/s (1.59 m³/s) July 24, gage height, 1.95 ft (0.594 m); minimum daily, 324 ft³/s (9.18 m³/s) Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	611	703	866	580	799	1510	4410	1520	1700	1200	907	730
2	633	662	945	500	777	1400	5260	1700	1580	1000	1080	639
3	530	652	894	520	782	1280	3860	1790	1360	1200	842	743
4	498	614	832	520	765	1280	3180	1760	1330	1500	749	651
5	434	638	745	560	733	1500	2770	1610	1260	1400	705	639
6	442	617	847	480	696	2410	2420	1510	1170	840	639	639
7	465	611	902	520	646	2390	2270	1750	1110	940	616	508
8	542	620	816	520	636	1970	2090	2590	1050	1300	663	561
9	324	654	770	450	663	1740	1920	2150	984	1500	639	864
10	383	724	846	390	679	1630	1840	1940	878	1200	938	588
11	417	761	893	440	654	1530	1840	1850	788	960	1060	718
12	455	802	809	500	654	1390	1790	2560	730	1200	968	687
13	570	793	675	540	710	1360	1640	2300	561	1300	864	599
14	776	1190	717	560	698	1320	1570	2010	711	1400	1150	539
15	839	1140	800	560	680	1230	1550	1950	498	1340	1250	577
16	737	1020	895	520	731	1090	1600	1830	545	1240	1210	523
17	643	932	752	490	780	1030	1710	1690	498	1160	1120	498
18	781	956	701	460	825	1040	1700	1580	429	1060	953	458
19	1160	1040	633	430	879	1020	1600	1820	425	991	849	429
20	1650	996	507	450	906	1180	1490	3210	439	871	795	463
21	1360	990	500	520	833	2030	1360	2550	448	835	788	420
22	1500	1040	500	560	846	3210	1290	2390	775	795	711	448
23	1330	1100	500	560	1260	2820	1370	2360	953	768	681	498
24	1200	1010	518	500	1160	2570	1330	2260	945	571	633	415
25	1110	950	588	450	1130	2910	1260	2130	1100	645	639	453
26	1060	897	627	540	1110	3250	1340	1990	1450	687	582	477
27	1000	878	639	752	1460	3690	1490	1860	1500	801	639	743
28	795	804	616	890	1590	5490	1660	1740	1440	1060	675	984
29	810	880	622	871	1500	4060	1790	1610	1300	730	705	808
30	776	827	627	783	---	3520	1670	1510	1200	645	782	749
31	735	---	633	803	---	3400	---	1380	---	633	577	---
TOTAL	24566	25501	22215	17219	25582	66250	61070	60900	29157	31772	25409	18048
MEAN	792	850	717	555	882	2137	2036	1965	972	1025	820	602
MAX	1650	1190	945	890	1590	5490	5260	3210	1700	1500	1250	984
MIN	324	611	500	390	636	1020	1260	1380	425	571	577	415
CAL YR 1975 TOTAL	289054			792	MAX 4610	MIN 207						
WTR YR 1976 TOTAL	407689			1114	MAX 5490	MIN 324						

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

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04273900 LAKE PLACID AT LAKE PLACID, NY

LOCATION.--Lat 44°17'42", long 73°59'26", Essex County, Hydrologic Unit 02010004, on south shore of East Lake on Victor Herbert Drive, and 400 ft (122 m) north of State Highway 86 in village of Lake Placid.

DRAINAGE AREA.--20.1 mi² (52.1 km²) at outlet 0.7 mi (1.1 km) northwest of gage.

PERIOD OF RECORD.--November 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,859.42 ft (566.751 m) May 3, 1972; minimum, 1,857.60 ft (566.196 m) Oct. 2, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,858.84 ft (566.574 m) Apr. 2; minimum, 1,858.02 ft (566.324 m) Oct. 10, 11.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1858.18	1858.21	1858.28	1858.17	1858.20	1858.31	1858.72	1858.46	1858.47	1858.44	1858.25	1858.19
2	1858.18	1858.20	1858.28	1858.17	1858.22	1858.33	1858.81	1858.50	1858.44	1858.41	1858.24	1858.22
3	1858.15	1858.22	1858.27	1858.17	1858.22	1858.34	1858.75	1858.53	1858.41	1858.40	1858.22	1858.20
4	1858.13	1858.24	1858.25	1858.17	1858.20	1858.35	1858.67	1858.52	1858.39	1858.41	1858.20	1858.18
5	1858.12	1858.22	1858.23	1858.17	1858.19	1858.43	1858.60	1858.49	1858.36	1858.39	1858.18	1858.17
6	1858.11	1858.20	1858.25	1858.17	1858.18	1858.59	1858.54	1858.48	1858.33	1858.36	1858.19	1858.16
7	1858.09	1858.20	1858.27	1858.16	1858.17	1858.60	1858.49	1858.58	1858.31	1858.33	1858.18	1858.14
8	1858.07	1858.20	1858.26	1858.17	1858.16	1858.55	1858.46	1858.66	1858.26	1858.36	1858.16	1858.13
9	1858.06	1858.20	1858.24	1858.16	1858.16	1858.50	1858.42	1858.63	1858.29	1858.37	1858.23	1858.12
10	1858.05	1858.19	1858.26	1858.15	1858.14	1858.45	1858.39	1858.58	1858.26	1858.35	1858.31	1858.13
11	1858.04	1858.22	1858.25	1858.15	1858.14	1858.42	1858.38	1858.53	1858.26	1858.35	1858.35	1858.16
12	1858.07	1858.23	1858.24	1858.15	1858.16	1858.39	1858.37	1858.59	1858.28	1858.45	1858.34	1858.16
13	1858.08	1858.25	1858.22	1858.14	1858.15	1858.38	1858.34	1858.60	1858.25	1858.45	1858.38	1858.15
14	1858.11	1858.32	1858.23	1858.17	1858.13	1858.35	1858.32	1858.56	1858.25	1858.44	1858.42	1858.15
15	1858.13	1858.34	1858.23	1858.16	1858.13	1858.33	1858.32	1858.55	1858.24	1858.44	1858.44	1858.14
16	1858.14	1858.32	1858.24	1858.16	1858.13	1858.32	1858.38	1858.52	1858.23	1858.43	1858.46	1858.13
17	1858.13	1858.31	1858.22	1858.14	1858.15	1858.33	1858.44	1858.48	1858.23	1858.41	1858.44	1858.13
18	1858.24	1858.31	1858.23	1858.13	1858.16	1858.31	1858.55	1858.47	1858.22	1858.36	1858.42	1858.15
19	1858.34	1858.33	1858.18	1858.13	1858.20	1858.31	1858.57	1858.54	1858.20	1858.33	1858.38	1858.17
20	1858.48	1858.34	1858.17	1858.13	1858.21	1858.31	1858.57	1858.58	1858.25	1858.30	1858.35	1858.16
21	1858.50	1858.38	1858.18	1858.13	1858.21	1858.41	1858.54	1858.60	1858.36	1858.31	1858.31	1858.16
22	1858.49	1858.44	1858.18	1858.12	1858.26	1858.59	1858.52	1858.66	1858.38	1858.28	1858.29	1858.18
23	1858.46	1858.42	1858.18	1858.12	1858.29	1858.57	1858.50	1858.69	1858.36	1858.25	1858.27	1858.17
24	1858.43	1858.40	1858.18	1858.11	1858.29	1858.54	1858.47	1858.69	1858.34	1858.28	1858.24	1858.16
25	1858.39	1858.37	1858.18	1858.11	1858.29	1858.53	1858.44	1858.65	1858.44	1858.26	1858.21	1858.15
26	1858.36	1858.34	1858.18	1858.14	1858.29	1858.56	1858.45	1858.62	1858.53	1858.23	1858.19	1858.16
27	1858.33	1858.33	1858.17	1858.19	1858.29	1858.58	1858.43	1858.58	1858.53	1858.24	1858.22	1858.28
28	1858.30	1858.32	1858.17	1858.23	1858.32	1858.71	1858.43	1858.53	1858.48	1858.28	1858.22	1858.31
29	1858.29	1858.29	1858.17	1858.23	1858.32	1858.70	1858.46	1858.49	1858.46	1858.27	1858.24	1858.30
30	1858.26	1858.29	1858.17	1858.22	---	1858.65	1858.46	1858.45	1858.46	1858.26	1858.21	1858.28
31	1858.23	---	1858.17	1858.21	---	1858.64	---	1858.43	---	1858.24	1858.18	---
MEAN	1858.22	1858.29	1858.22	1858.16	1858.32	1858.42	1858.49	1858.56	1858.34	1858.34	1858.28	1858.18
MAX	1858.50	1858.44	1858.28	1858.23	1858.71	1858.71	1858.81	1858.69	1858.53	1858.45	1858.46	1858.31
MIN	1858.04	1858.19	1858.17	1858.11	1858.13	1858.31	1858.32	1858.43	1858.20	1858.23	1858.18	1858.12
CAL YR 1975	MEAN	1858.18	MAX	1858.70	MIN	1857.70						
WTR YR 1976	MEAN	1858.31	MAX	1858.81	MIN	1858.04						

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04275000 EAST BRANCH AUSABLE RIVER AT AU SABLE FORKS, NY

LOCATION.--Lat 44°26'20", long 73°40'55", Essex County, Hydrologic Unit 02010004, on left bank 700 ft (213 m) upstream from bridge on Burt Street in Au Sable Forks, and 0.5 mi (0.8 km) upstream from confluence with West Branch.

DRAINAGE AREA.--198 mi² (513 km²).

PERIOD OF RECORD.--September 1924 to current year.

REVISED RECORDS.--WSP 759: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 545.37 ft (166.229 m) above mean sea level. Prior to Sept. 21, 1938, nonrecording gage at lower highway bridge in Au Sable Forks, 400 ft (122 m) upstream from confluence with West Branch at datum 3.54 ft (1.079 m) lower.

REMARKS.--Records good except those for winter periods, which are poor. Occasional regulation of storage in Upper and Lower Ausable Lakes and occasional small diurnal fluctuation, cause unknown.

AVERAGE DISCHARGE.--52 years, 305 ft³/s (8.638 m³/s), 20.92 in/yr (531.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,100 ft³/s (569 m³/s) Sept. 22, 1938, gage height, 12.91 ft (3.935 m); from rating curve extended above 5,800 ft³/s (164 m³/s) on basis of velocity-area studies; minimum observed, 20 ft³/s (0.57 m³/s) Aug. 11, 14, 28, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,700 ft³/s (105 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 21	2100	4,760 135	6.59 2.009	Apr. 1	2100	*5,730 162	*7.17 2.185

Minimum daily discharge, 70 ft³/s (1.98 m³/s) Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	122	496	98	190	400	3130	710	658	409	539	114
2	142	120	446	92	160	250	2580	2210	500	422	364	162
3	130	127	336	90	140	270	1340	1350	376	324	209	136
4	117	165	241	92	130	350	862	936	330	332	157	119
5	101	171	185	90	120	1200	653	688	278	262	129	110
6	94	147	273	86	120	1400	559	650	241	202	115	106
7	86	139	288	90	120	908	501	1680	220	168	119	95
8	79	132	196	94	120	610	456	1750	201	395	138	88
9	75	135	212	90	120	465	400	988	176	409	198	83
10	74	137	369	88	130	404	369	706	160	285	1050	85
11	74	1270	395	84	130	361	386	618	149	228	1200	230
12	105	626	273	80	140	281	328	1920	177	456	543	183
13	202	559	221	82	140	312	330	1220	170	308	470	141
14	304	774	288	96	150	308	319	825	152	288	703	118
15	277	565	320	98	160	262	361	846	141	347	604	102
16	235	409	418	92	180	179	1080	718	133	255	824	93
17	206	348	262	80	200	200	1860	635	155	321	506	92
18	604	461	262	70	220	220	1920	593	141	268	348	97
19	856	527	160	80	250	262	1690	1010	121	205	259	103
20	1410	400	100	100	320	732	1420	1080	122	164	212	106
21	856	598	92	120	400	2800	982	1150	247	148	176	99
22	548	1020	90	92	520	1870	838	1310	284	144	150	112
23	373	598	90	76	1000	882	882	954	252	124	133	138
24	285	413	90	84	660	721	651	775	206	151	119	130
25	231	320	90	76	540	875	494	646	576	173	108	111
26	209	262	92	130	520	1020	506	562	882	144	98	106
27	190	245	100	380	600	1130	463	527	527	133	107	663
28	168	248	110	500	660	2320	544	454	328	152	146	535
29	152	202	110	430	680	1110	653	389	238	122	205	326
30	139	206	96	320	---	843	784	346	248	124	154	229
31	130	---	100	250	---	875	---	314	---	132	122	---
TOTAL	8620	11446	6801	4230	8820	23820	27341	28560	8389	7595	10205	4812
MEAN	278	382	219	136	304	768	911	921	280	245	329	160
MAX	1410	1270	496	500	1000	2800	3130	2210	882	456	1200	663
MIN	74	120	90	70	120	179	319	314	121	122	98	83
CFSM	1.40	1.93	1.11	.69	1.54	3.88	4.60	4.65	1.41	1.24	1.66	.81
IN.	1.62	2.15	1.28	.79	1.66	4.48	5.14	5.37	1.58	1.43	1.92	.90

CAL YR 1975	TOTAL	110723	MEAN 303	MAX 2540	MIN 31	CFSM 1.53	IN 20.80
WTR YR 1976	TOTAL	150639	MEAN 412	MAX 3130	MIN 70	CFSM 2.08	IN 28.30

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

499

04278000 LAKE GEORGE AT ROGERS ROCK, NY

LOCATION.--Lat 43°48'28", long 73°27'30", Essex County, Hydrologic Unit 02010001, on west shore about 500 ft (152 m) north of Hooper's dock at Rogers Rock, and 0.4 mi (0.6 km) west of Baldwin.

DRAINAGE AREA.--233 mi² (603 km²) at outlet at Ticonderoga.

PERIOD OF RECORD.--July 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 315.93 ft (96.295 m) above mean sea level, adjustment of 1912. Prior to Nov. 4, 1929, nonrecording gages at several sites within a half mile of present site at same datum. Nov. 4, 1929 to Sept. 26, 1936, nonrecording gage at present site and datum.

REMARKS.--Elevation of lake regulated by floodgates at Ticonderoga. Prior to October 1974, lake was regulated by powerplant wheel gate and floodgates. Lake George has been controlled by a dam at its outlet for more than 100 years. Area of water surface is 44 mi² (114 km²).

EXTREMES FOR PERIOD OF RECORD.--Maximum observed gage height, 5.09 ft (1.551 m) Apr. 9, 1936; minimum, 0.64 ft (0.195 m) Dec. 20, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.41 ft (1.344 m) Apr. 3; minimum, 2.60 ft (0.792 m) Jan. 24.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.99	3.49	3.64	2.84	3.17	3.32	4.05	3.78	3.69	3.92	3.49	3.64
2	3.93	3.42	3.59	2.85	3.31	3.36	4.29	3.86	3.72	3.92	3.52	3.58
3	3.91	3.40	3.56	2.87	3.34	3.42	4.35	3.89	3.74	3.86	3.55	3.64
4	3.79	3.45	3.49	2.85	3.34	3.44	4.33	3.89	3.74	3.78	3.55	3.66
5	3.77	3.41	3.49	2.80	3.31	3.46	4.34	3.88	3.75	3.75	3.56	3.61
6	3.72	3.40	3.42	2.79	3.29	3.50	4.29	3.79	3.78	3.70	3.49	3.59
7	3.60	3.42	3.34	2.75	3.28	3.51	4.25	3.78	3.84	3.67	3.49	3.58
8	3.56	3.44	3.34	2.70	3.24	3.48	4.20	3.80	3.85	3.61	3.59	3.54
9	3.50	3.43	3.28	2.73	3.21	3.47	4.15	3.77	3.81	3.53	3.59	3.56
10	3.50	3.49	3.32	2.69	3.19	3.45	4.14	3.73	3.83	3.53	3.70	3.60
11	3.48	3.54	3.30	2.68	3.17	3.41	4.09	3.72	3.82	3.56	3.87	3.66
12	3.44	3.53	3.25	2.70	3.12	3.39	4.06	3.78	3.71	3.71	3.87	3.63
13	3.45	3.59	3.22	2.71	3.11	3.37	4.03	3.81	3.77	3.68	3.88	3.64
14	3.46	3.71	3.22	2.76	3.05	3.34	3.95	3.80	3.75	3.63	3.88	3.64
15	3.43	3.77	3.19	2.75	3.04	3.32	3.94	3.77	3.75	3.60	3.90	3.63
16	3.46	3.77	3.08	2.73	3.00	3.28	3.89	3.77	3.74	3.60	3.92	3.62
17	3.38	3.79	3.11	2.73	3.02	3.32	3.84	3.79	3.76	3.61	3.87	3.64
18	3.43	3.76	3.07	2.72	3.03	3.28	3.80	3.80	3.75	3.57	3.83	3.69
19	3.58	3.75	3.00	2.71	3.09	3.27	3.77	3.94	3.76	3.55	3.82	3.70
20	3.79	3.74	2.91	2.71	3.09	3.24	3.73	4.06	3.72	3.54	3.81	3.73
21	3.89	3.77	2.90	2.69	3.06	3.31	3.70	4.09	3.70	3.48	3.77	3.69
22	3.84	3.82	2.87	2.69	3.12	3.41	3.72	4.09	3.71	3.46	3.75	3.70
23	3.81	3.78	2.90	2.67	3.20	3.43	3.74	4.08	3.69	3.50	3.69	3.71
24	3.80	3.72	2.86	2.66	3.23	3.44	3.70	4.01	3.69	3.50	3.66	3.66
25	3.75	3.68	2.87	2.66	3.23	3.46	3.66	3.97	3.77	3.46	3.66	3.65
26	3.71	3.65	2.90	2.71	3.21	3.50	3.76	3.96	3.78	3.49	3.64	3.64
27	3.68	3.64	2.93	2.93	3.26	3.55	3.82	3.94	3.76	3.46	3.65	3.70
28	3.64	3.67	2.92	3.15	3.28	3.78	3.83	3.91	3.78	3.43	3.71	3.73
29	3.57	3.63	2.91	3.18	3.33	3.81	3.82	3.85	3.76	3.43	3.70	3.76
30	3.44	3.64	2.93	3.16	---	3.86	3.79	3.81	3.78	3.45	3.63	3.71
31	3.44	---	2.91	3.16	---	3.88	---	3.76	---	3.45	3.62	---
MEAN	3.64	3.61	3.15	2.80	3.18	3.45	3.97	3.87	3.76	3.59	3.70	3.65
MAX	3.99	3.82	3.64	3.18	3.34	3.88	4.35	4.09	3.85	3.92	3.92	3.76
MIN	3.38	3.40	2.86	2.66	3.00	3.24	3.66	3.72	3.69	3.43	3.49	3.54
CAL YR 1975	MEAN 3.46		MAX 4.10	MIN 2.60								
WTR YR 1976	MEAN 3.53		MAX 4.35	MIN 2.66								

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04278300 NORTHWEST BAY BROOK NEAR BOLTON LANDING, NY

LOCATION.--Lat 43°39'48", long 73°36'14", Warren County, Hydrologic Unit 02010001, on left bank 10 ft (3 m) downstream from county bridge on Padanarum Road, 7.7 mi (12.4 km) north of Bolton Landing.

DRAINAGE AREA.--23.4 mi² (61.6 km²).

PERIOD OF RECORD.--October 1965 to September 1968, October 1971 to current year. Annual maximum, water years 1969-71.

GAGE.--Water-stage recorder. Datum of gage is 423.60 ft (129.113 m) above mean sea level. Prior to Oct. 1, 1973, at datum 1.00 ft (0.305 m) higher.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--8 years (1966-68, 1972-76), 37.8 ft³/s (1.070 m³/s), 21.94 in/yr (557.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s (46.7 m³/s) Dec. 21, 1973, gage height, 6.15 ft (1.875 m) from rating curve extended above 190 ft³/s (5.38 m³/s) on basis of slope-area measurement at gage height 5.53 ft (1.686 m); maximum gage height, 6.82 ft (2.079 m) Jan. 27, 1976 (ice jam); minimum discharge recorded, 0.28 ft³/s (0.008 m³/s) Sept. 27, 28, 29, 1968 (gage height, 1.18 ft or 0.360 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 20	0100	611 17.3	4.02 1.225	Mar. 28	0315	897 25.4	4.73 1.442
Jan. 27	--	ice jam	*6.82 2.079	Apr. 1	1415	*974 27.6	4.90 1.494
Mar. 21	2000	469 13.3	3.60 1.097	Aug. 10	1145	408 11.6	3.40 1.036

Minimum discharge, 5.4 ft³/s (0.153 m³/s) Sept. 25, gage height, 0.99 ft (0.302 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	21	100	20	100	82	579	48	27	50	65	14
2	42	19	79	19	86	72	301	151	23	30	45	24
3	33	18	59	18	76	66	174	104	19	23	26	14
4	28	43	46	17	68	64	129	91	17	19	18	12
5	24	36	49	16	62	78	96	66	15	15	14	11
6	21	31	42	15	54	94	79	56	13	12	12	9.5
7	19	27	41	14	49	76	69	64	26	9.9	13	8.3
8	17	29	51	13	44	60	60	65	19	9.2	28	7.7
9	15	32	33	14	39	54	52	52	14	8.9	19	6.9
10	15	40	56	14	35	50	47	45	14	7.7	195	8.9
11	14	68	52	15	32	46	46	45	13	17	105	15
12	17	53	41	15	29	57	41	121	11	69	54	11
13	17	125	35	13	26	41	38	74	9.5	31	54	8.9
14	28	190	34	19	24	37	36	57	8.9	23	52	8.0
15	23	119	35	14	25	35	35	51	11	18	49	7.2
16	20	84	32	13	24	28	37	43	9.5	18	51	6.9
17	17	70	37	12	25	28	36	43	13	23	37	10
18	127	61	28	10	27	28	33	77	10	15	28	14
19	151	53	21	10	33	29	30	245	8.3	13	23	11
20	332	47	18	11	27	30	26	237	9.2	11	19	9.2
21	145	142	16	10	35	257	24	146	12	15	16	8.3
22	96	169	15	12	70	224	27	100	9.9	12	14	7.2
23	69	100	15	13	130	128	30	71	8.9	11	12	6.7
24	54	74	17	14	90	117	25	57	10	18	11	6.2
25	46	60	20	13	62	191	31	50	37	12	9.2	5.7
26	41	50	25	25	72	207	76	49	32	9.5	8.6	7.7
27	35	57	34	100	88	313	70	50	22	15	15	26
28	31	57	32	250	82	537	68	40	13	16	32	18
29	28	47	28	180	104	214	60	34	11	12	19	12
30	24	47	23	150	---	167	48	29	21	19	12	11
31	22	---	21	130	---	167	---	26	---	22	11	---
TOTAL	1594	1969	1135	1189	1618	3577	2403	2387	467.2	584.2	1066.8	326.3
MEAN	51.4	65.6	36.6	38.4	55.8	115	80.1	77.0	15.6	18.8	34.4	10.9
MAX	332	190	100	250	130	537	579	245	37	69	195	26
MIN	14	18	15	10	24	28	24	26	8.3	7.7	8.6	5.7
CFSM	2.20	2.80	1.56	1.64	2.38	4.91	3.42	3.29	.67	.80	1.47	.47
IN.	2.53	3.13	1.80	1.89	2.57	5.69	3.82	3.79	.74	.93	1.70	.52
CAL YR 1975	TOTAL	15412.80	MEAN	42.2	MAX	425	MIN	.80	CFSM	1.80	IN	24.50
WTR YR 1976	TOTAL	18316.50	MEAN	50.0	MAX	579	MIN	5.7	CFSM	2.14	IN	29.12

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

501

04279000 LA CHUTE AT TICONDEROGA, NY

LOCATION.--Lat 43°50'38", long 73°25'57", Essex County, Hydrologic Unit 02010001, on right bank 250 ft (76 m) downstream from International Paper Co. "C" Mill dam, at Ticonderoga, 250 ft (76 m) upstream from Trout Brook, and 0.5 mi (0.8 km) downstream from upper ("A" Mill) dam.

DRAINAGE AREA.--234 mi² (606 km²).

PERIOD OF RECORD.--August 1904 to December 1905, October 1942 to current year. Prior to October 1973, published as "Lake George Outlet at Ticonderoga."

REVISED RECORDS.--WRD NY 1971: 1970.

GAGE.--Water-stage recorder and concrete control on river channel. Datum of gage is 190.41 ft (58.037 m) above mean sea level. Prior to June 25, 1971, turbine gate-opening recorder in powerplant at "C" Mill dam. Prior to Dec. 31, 1905, nonrecording gage at site 2,000 ft (610 m) upstream at different datum.

REMARKS.--Records fair. Prior to June 25, 1971 discharge in tailrace determined from rating for turbine gage developed from discharge measurements. From June 25, 1971, leakage through inoperative turbine gate determined from periodic discharge measurements. Records represent total discharge from Lake George and include flow in river channel and in tailrace. Flow regulated by Lake George (see station 04278000).

AVERAGE DISCHARGE.--34 years (1942-76), 306 ft³/s (8.666 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,290 ft³/s (36.5 m³/s) June 5, 6, 1947; minimum daily, 0.50 ft³/s (0.14 m³/s) Sept. 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,170 ft³/s (33.1 m³/s) Apr. 3, 5, 6; minimum daily, 0.50 ft³/s (0.14 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	979	361	932	465	706	842	1090	906	500	420	96	11
2	955	350	911	466	705	852	1150	931	123	827	35	8.4
3	960	349	900	471	705	881	1170	939	129	1020	10	5.2
4	913	354	875	469	705	891	1160	990	127	981	10	5.4
5	913	346	885	460	705	921	1170	1060	131	976	10	4.7
6	902	211	860	460	705	921	1170	1010	135	959	10	2.9
7	856	135	811	460	705	921	1150	1010	146	951	10	1.8
8	847	135	829	359	705	901	1130	1020	347	935	12	.60
9	574	135	803	274	705	891	1110	1010	583	603	12	.50
10	380	135	822	274	705	891	1110	794	587	96	70	1.9
11	374	135	824	274	705	881	1080	651	584	99	300	5.4
12	366	135	794	274	719	862	1080	659	558	479	560	6.3
13	368	139	786	274	753	862	1080	658	575	782	560	6.9
14	369	279	801	277	722	852	1050	656	570	768	580	7.7
15	368	382	780	274	733	842	1060	649	567	763	580	8.1
16	372	382	727	274	735	814	1040	652	566	540	580	8.5
17	364	382	757	274	735	837	1030	660	564	378	560	8.5
18	374	375	736	274	746	823	1010	802	563	373	560	9.3
19	391	581	708	274	767	818	790	960	564	368	560	10
20	732	756	673	274	767	828	517	1040	561	370	560	11
21	962	862	661	274	767	853	513	1100	555	370	550	12
22	944	973	468	274	785	869	525	1110	555	250	550	11
23	934	963	297	274	795	884	528	1100	320	160	540	12
24	932	942	297	274	814	887	519	1080	128	160	450	12
25	913	932	297	274	814	894	518	1070	140	160	350	12
26	897	932	299	274	823	901	530	1070	139	160	350	11
27	896	932	300	274	842	935	535	1070	135	160	350	12
28	883	942	298	286	842	1000	750	1060	139	160	348	75
29	865	921	297	707	862	995	915	1050	137	130	348	13
30	814	932	392	703	---	1010	908	1020	138	96	183	12
31	562	---	474	708	---	1030	---	1010	---	96	13	---
TOTAL	21959	15388	20294	11223	21777	27589	27388	28797	10866	14590	9707	306.10
MEAN	708	513	655	362	751	890	913	929	362	471	313	10.2
MAX	979	973	932	708	862	1030	1170	1110	587	1020	580	75
MIN	364	135	297	274	705	814	513	649	123	96	10	.50

CAL YR 1975 TOTAL 140798.00 MEAN 386 MAX 1000 MIN 57
WTR YR 1976 TOTAL 209884.10 MEAN 573 MAX 1170 MIN .50

Note.--No gage-height record July 21 to August 27.

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER
04280000 POULTNEY RIVER BELOW FAIR HAVEN, VT

LOCATION.--Lat 43°37'40", long 73°18'50", Rutland County, Hydrologic Unit 02010001, on right bank 0.3 mi (0.5 km) downstream from Carver Falls, 1.9 mi (3.1 km) upstream from Hubbardton River, and 3.2 mi (5.1 km) northwest of Fair Haven.

DRAINAGE AREA.--187 mi² (484 km²).

PERIOD OF RECORD.--Discharge: October 1928 to current year.
Chemical analyses: Water year 1954 (partial-record station).

REVISED RECORDS.--WSP 1114: 1929(M), 1932-35.

GAGE.--Water-stage recorder. Altitude of gage is 105 ft (32 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by powerplant upstream and by Lake Bomoseen. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--48 years, 244 ft³/s (6.910 m³/s), 17.72 in/yr (450 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft³/s (419 m³/s) July 20, 1945, gage height, 24.36 ft (7.425 m, from high-water mark in gage well), from rating curve extended above 2,400 ft³/s (68.0 m³/s) on basis of computations of flow over dam at gage heights 16.10 ft (4.907 m), 21.40 ft (6.523 m), and 24.36 ft (7.425 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Aug. 8, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,600 ft³/s (73.6 m³/s) and maximums (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 20	1700	3,430 97.1	13.00 3.962	May 20	1145	2,810 79.6	11.86 3.615
Mar. 22	1230	2,600 73.6	11.44 3.487	July 12	1830	4,530 128	14.72 4.487
Apr. 2	0800	2,800 79.3	11.83 3.606	Aug. 11	0500	*4,570 129	*14.77 4.502

Minimum daily discharge, 73 ft³/s (2.07 m³/s) June 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	401	347	490	260	550	1100	1280	276	463	465	1200	98
2	355	324	450	250	690	899	2370	482	496	421	1430	181
3	309	300	370	250	600	749	1480	481	351	339	958	259
4	304	354	330	230	510	801	1160	533	180	310	774	100
5	284	387	300	220	450	854	961	436	159	208	492	116
6	242	337	340	230	420	1260	835	337	149	134	407	113
7	214	322	390	240	380	1180	768	318	228	111	277	93
8	196	313	290	230	360	959	691	346	239	111	487	88
9	187	386	320	210	340	842	635	348	197	175	489	87
10	179	348	410	220	330	803	578	297	161	108	1560	87
11	176	498	430	220	320	730	544	266	127	137	2130	223
12	428	404	350	210	310	595	460	497	162	2790	765	275
13	517	667	300	200	300	512	353	668	144	2690	1170	193
14	555	921	310	230	290	490	280	545	132	1450	1250	95
15	463	869	360	230	320	450	254	613	73	1220	1030	96
16	438	705	243	220	450	418	202	608	86	1030	1050	91
17	405	642	210	200	520	373	206	422	272	963	865	92
18	1120	638	191	190	530	343	194	736	265	842	653	110
19	1840	590	174	190	720	339	179	1470	177	688	409	111
20	2760	520	224	180	780	367	168	2630	160	516	305	102
21	1750	660	300	180	700	1020	132	1820	166	324	221	88
22	1120	810	270	180	950	2370	122	1440	288	393	214	90
23	854	600	260	180	1790	1530	144	1150	211	408	195	99
24	733	470	240	180	1350	1250	138	927	180	443	159	75
25	640	420	240	190	999	1300	135	803	192	507	144	78
26	636	400	280	210	986	1310	263	736	291	397	109	78
27	537	410	330	1100	1270	1250	416	659	200	260	107	261
28	490	430	310	1680	1660	1650	388	567	155	749	192	517
29	453	370	280	1550	1150	1540	404	481	122	491	245	523
30	407	390	260	1100	---	1150	328	407	169	579	120	408
31	367	---	270	650	---	1010	---	355	---	545	105	---
TOTAL	19360	14832	9522	11610	20025	29444	16068	21654	6195	19804	19512	4827
MEAN	625	494	307	375	691	950	536	699	207	639	629	161
MAX	2760	921	490	1680	1790	2370	2630	2630	496	2790	2130	523
MIN	176	300	174	180	290	339	122	266	73	108	105	75
CFSM	3.34	2.64	1.64	2.01	3.70	5.08	2.87	3.74	1.11	3.42	3.36	.86
IN.	3.85	2.95	1.89	2.31	3.98	5.86	3.20	4.31	1.23	3.94	3.88	.96
CAL YR 1975 TOTAL	113787.0			MEAN 312	MAX 2760	MIN	4.2	CFSM 1.67	IN 22.64			
WTR YR 1976 TOTAL	192853.0			MEAN 527	MAX 2790	MIN	73	CFSM 2.82	IN 38.36			

LOCATION.--Lat 44°28'52", long 73°13'27", Chittenden County, Hydrologic Unit 02010003, 50 ft (15 m) south of Gulf Oil Co. dock at Burlington, 0.1 mi (0.2 km) north of Burlington Water Department pumping station, and 0.5 mi (0.8 km) north of railroad station.

REVISED RECORDS.--WSP 684: 1912-29 (datum correction). WSP 1207: 1938 (datum correction).

GAGE.--Water-stage recorder. Datum of gage is 92.86 ft (28.304 m) above mean sea level. Prior to July 20, 1937, nonrecording gage at site 0.7 mi (1.1 km) south, and July 20, 1937, to Sept. 7, 1939, nonrecording gage at site 0.1 mi (0.2 km) south, both at present datum.

REMARKS.--Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.80 ft (2.682 m) Apr. 4, 1976; minimum observed, -0.25 ft (-0.076 m) Dec. 4, 1908.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.80 ft (2.682 m) Apr. 4, affected by seiche; minimum, 2.41 ft (0.735 m) Oct. 11, affected by seiche.

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.57	3.60	4.21	3.61	3.70	5.20	7.86	6.51	6.34	4.40	4.19	4.77
2	2.63	3.61	4.29	3.56	3.81	5.29	8.32	6.49	6.28	4.40	4.31	4.71
3	2.61	3.60	4.31	3.48	3.87	5.34	8.65	6.47	6.16	4.40	4.31	4.68
4	2.63	3.57	4.30	3.50	3.93	5.39	8.76	6.44	6.07	4.38	4.28	4.54
5	2.61	3.53	4.20	3.46	3.98	5.42	8.73	6.34	5.96	4.37	4.26	4.52
6	2.56	3.48	4.11	3.38	4.00	5.65	8.68	6.27	5.85	4.33	4.27	4.48
7	2.57	3.43	4.21	3.35	4.02	5.85	8.64	6.33	5.73	4.30	4.27	4.44
8	2.56	3.41	4.22	3.35	4.01	5.96	8.56	6.34	5.68	4.27	4.24	4.37
9	2.56	3.43	4.21	3.31	4.03	5.98	8.46	6.32	5.60	4.30	4.24	4.29
10	2.52	3.43	4.23	3.29	4.00	5.97	8.34	6.28	5.47	4.28	4.35	4.24
11	2.47	3.43	4.24	3.26	4.01	5.96	8.25	6.20	5.40	4.27	4.61	4.24
12	2.52	3.46	4.25	3.25	4.01	5.90	8.14	6.32	5.34	4.26	4.82	4.25
13	2.54	3.54	4.21	3.20	3.98	5.85	8.00	6.36	5.21	4.27	5.02	4.21
14	2.60	3.72	4.08	3.22	3.98	5.85	7.88	6.35	4.96	4.27	5.09	4.17
15	2.64	3.82	4.09	3.19	3.93	5.81	7.72	6.34	4.95	4.30	5.19	4.15
16	2.65	3.89	4.15	3.15	3.94	5.77	7.64	6.31	4.91	4.28	5.33	4.13
17	2.66	3.93	4.12	3.13	3.95	5.76	7.58	6.23	4.86	4.27	5.40	4.08
18	2.80	3.98	4.11	3.12	3.96	5.70	7.52	6.21	4.78	4.26	5.43	4.05
19	2.97	4.04	4.06	3.10	4.01	5.63	7.45	6.27	4.66	4.26	5.42	3.99
20	3.21	4.08	4.00	3.09	4.07	5.60	7.38	6.51	4.65	4.25	5.40	3.96
21	3.45	4.11	3.98	3.08	4.11	5.75	7.28	6.69	4.60	4.23	5.36	3.93
22	3.65	4.25	3.93	3.08	4.20	6.18	7.12	6.77	4.56	4.20	5.35	3.86
23	3.75	4.36	3.90	3.04	4.35	6.45	7.03	6.78	4.50	4.13	5.31	3.77
24	3.75	4.42	3.85	3.02	4.46	6.55	6.94	6.78	4.45	4.12	5.26	3.72
25	3.76	4.44	3.79	3.00	4.56	6.69	6.85	6.75	4.44	4.11	5.18	3.67
26	3.80	4.41	3.81	2.97	4.63	6.86	6.80	6.72	4.45	4.10	5.12	3.64
27	3.79	4.40	3.81	3.08	4.73	6.96	6.74	6.65	4.08	4.08	5.05	3.72
28	3.77	4.40	3.77	3.31	4.95	7.25	6.69	6.60	4.46	4.10	5.05	3.79
29	3.78	4.38	3.73	3.48	5.05	7.55	6.64	6.53	4.43	4.11	4.95	3.76
30	3.78	4.18	3.65	3.60	---	7.67	6.59	6.45	4.41	4.10	4.91	3.79
31	3.72	---	3.64	3.66	---	7.68	---	6.37	---	4.11	4.81	---
MEAN	3.03	3.88	4.05	3.27	4.15	6.11	7.71	6.45	5.12	4.24	4.86	4.13
MAX	3.80	4.44	4.31	3.66	5.05	7.68	8.76	6.78	6.34	4.40	5.43	4.77
MIN	2.47	3.41	3.64	2.97	3.70	5.20	6.59	6.20	4.41	4.08	4.19	3.64

LOCATION.--Lat 44°59'46", long 73°21'37", Clinton County, Hydrologic Unit 02010006, on left bank at outlet of Lake Champlain in Rouses Point, and 1.0 mi (1.6 km) south of Fort Montgomery ruins. Water-quality sampling site at stage station.

DRAINAGE AREA.--8,277 mi² (21,437 km²).

WATER-STAGE RECORDS

PERIOD OF RECORD.--October 1863 to December 1870 (maximum and minimum monthly gage heights at St. Johns, Quebec, published in WSP 97) and March 1871 to current year (daily gage heights prior to October 1970, elevations thereafter: those for 1871-1907 published in WSP 894). Gage heights prior to Oct. 1, 1925, published as "Richelieu River at Fort Montgomery, Rouzes Point." Discharge records for January 1875 to September 1916 at "Chambly, Quebec," published in WSP 65, 82, 97, 129, 170, 206, 424, and 1307 have been found to be unreliable and should not be used. Daily discharge record for "Richelieu River at Fryers Rapids, Quebec," published in Water Survey of Canada annual reports.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. March 1871 to May 1923, nonrecording gage located in Fort Montgomery and May 1923 to October 1938, nonrecording gage at present site. Prior to October 1970, at datum 93.00 ft (28.346 m) higher.

REMARKS.--Area of lake surface about 490 mi² (1,269 km²). Total volume below 92.5 ft (28.19 m) elevation, reported by Lake Champlain Studies Center, 902.2 bil ft³ (25,600 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 101.80 ft (31.029 m) Mar. 30, 1903; minimum observed, 92.17 ft (28.093 m) Oct. 23, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known since at least 1827, 102.1 ft (31.12 m) May 4, 1869, from marks at railroad bridge near present gage, according to data published on p. 428 of the Report of the Board of Engineers on Deep Waterways, 1900: U.S. 56th Cong., 2d sess. H. Doc. 149.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 101.64 ft (30.98 m) Apr. 5; minimum, 95.19 ft (29.01 m) Oct. 7, 12.

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95.55	96.80	97.22	96.41	96.56	97.98	100.74	99.39	99.07	97.34	96.99	97.79
2	95.43	96.49	97.20	96.42	96.64	98.07	101.17	99.36	99.08	97.34	97.09	97.62
3	95.60	96.50	97.14	96.45	96.75	98.20	101.40	99.39	99.02	97.34	97.24	97.66
4	95.41	96.47	97.14	96.32	96.79	98.22	101.51	99.33	98.90	97.30	97.28	97.74
5	95.56	96.34	97.39	96.30	96.81	98.30	101.51	99.46	98.82	97.29	97.27	97.46
6	95.56	96.43	97.11	96.36	96.85	98.45	101.51	99.17	98.74	97.26	97.13	97.35
7	95.38	96.42	96.98	96.29	96.86	98.70	101.44	99.12	98.67	97.26	97.12	97.30
8	95.40	96.39	97.07	96.15	96.88	98.76	101.35	99.22	98.54	97.25	97.19	97.23
9	95.36	96.30	97.05	96.21	96.85	98.82	101.28	99.22	98.44	97.20	97.15	97.22
10	95.41	96.37	97.05	96.12	96.89	98.83	101.21	99.18	98.42	97.22	97.09	97.24
11	95.47	96.36	97.05	96.10	96.83	98.78	100.92	99.13	98.28	97.25	97.50	97.26
12	95.28	96.54	97.06	96.08	96.84	98.79	100.87	99.16	98.12	97.17	97.80	97.16
13	95.40	96.40	97.15	96.10	96.84	98.73	100.84	99.28	98.27	97.19	97.88	97.19
14	95.42	96.47	97.37	96.09	96.79	98.68	100.72	99.30	98.16	97.16	97.94	97.16
15	95.44	96.75	97.00	96.04	96.86	98.61	100.66	99.18	97.97	97.21	98.04	97.08
16	95.48	96.82	96.89	96.05	96.92	98.60	100.49	99.22	97.87	97.28	98.17	97.01
17	95.49	96.91	97.11	95.95	97.10	98.58	100.40	99.20	97.75	97.25	98.23	96.97
18	95.53	96.86	96.88	95.96	97.57	98.54	100.37	99.01	97.70	97.24	98.26	96.94
19	95.82	96.90	96.84	95.98	97.82	98.52	100.33	99.15	97.71	97.21	98.30	96.89
20	96.14	96.92	96.81	95.98	97.96	98.49	100.18	99.36	97.56	97.22	98.31	96.83
21	96.44	97.02	96.77	95.91	96.99	98.63	100.11	99.55	97.53	97.07	98.26	96.75
22	96.52	97.11	96.71	95.89	97.01	98.99	100.11	99.61	97.50	97.06	98.20	96.78
23	96.62	97.23	96.68	95.86	97.17	99.37	99.86	99.60	97.43	97.19	98.09	96.87
24	96.78	97.21	96.67	95.83	97.37	99.50	99.75	99.61	97.37	97.01	98.08	96.61
25	96.79	97.21	96.70	95.82	97.41	99.61	99.62	99.61	97.35	96.97	98.07	96.61
26	96.64	97.26	96.63	95.85	97.49	99.71	99.53	99.58	97.37	97.05	98.02	96.55
27	96.73	97.31	96.63	95.88	97.58	99.95	99.53	99.54	97.37	97.05	97.99	96.54
28	96.73	97.26	96.61	96.14	97.74	100.09	99.52	99.47	97.40	96.99	98.02	96.63
29	96.62	97.27	96.58	96.34	97.96	100.38	99.50	99.42	97.34	97.02	97.90	96.79
30	96.44	97.75	96.61	96.40	---	100.52	99.42	99.33	97.28	97.00	97.78	96.62
31	96.58	---	96.49	96.51	---	100.68	---	99.23	---	96.99	97.78	---
MEAN	95.90	96.80	96.92	96.12	97.11	98.97	100.53	99.33	98.03	97.17	97.75	97.06
MAX	96.79	97.75	97.39	96.51	97.96	100.68	101.51	99.61	99.08	97.34	98.31	97.79
MIN	95.28	96.30	96.49	95.82	96.56	97.98	99.42	99.01	97.28	96.97	96.99	96.54
CAL YR 1975	MEAN	96.23	MAX	98.99	MIN	94.56						
WTR YR 1976	MEAN	97.64	MAX	101.51	MIN	95.28						

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

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04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-72, 1974 to current year.

COOPERATION.--Pesticide samples were collected by the U.S. Geological Survey and were analyzed by the Environmental Protection Agency.

WATER QUALITY DATA, WATER YEAR, OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	ELEVATION ABOVE MEAN SEA LEVEL (FT)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT 15...	1000	95.39	148	7.2	12.0	1	10.2	94	B19	B15
NOV 04...	1000	96.36	153	6.9	10.0	1	11.6	104	B12	B6
APR 27...	1000	99.51	150	7.1	6.0	1	12.9	104	46	<1
MAY 25...	1000	99.62	140	7.6	10.0	1	10.0	89	B4	<1
JUN 08...	1000	98.59	146	7.0	17.0	1	9.4	98	B3	B2
JUL 07...	0930	97.28	140	7.5	23.0	0	8.5	100	B10	B14
AUG 18...	1030	98.27	140	7.3	20.0	0	7.8	86	B2	<1
SEP 14...	0900	97.22	138	6.8	17.5	2	9.3	99	B2	B1

DATE	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT 15...	62	15	18	4.2	4.5	1.2	58	0	48	13
NOV 04...	67	19	20	4.1	4.9	1.3	58	0	48	14
APR 27...	53	8	15	3.8	4.3	1.1	55	0	45	12
MAY 25...	55	14	16	3.7	4.1	1.2	50	0	41	12
JUN 08...	55	11	15	4.3	4.0	.9	54	0	44	11
JUL 07...	51	10	15	3.3	4.6	1.0	50	0	41	11
AUG 18...	67	22	20	4.2	5.1	1.1	55	0	45	15
SEP 14...	55	10	16	3.6	4.6	1.0	55	0	45	12

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT 15...	7.5	.1	1.0	86	78	.05	.30	.35	.03
NOV 04...	6.6	.1	.8	82	80	.11	.28	.39	.02
APR 27...	6.4	.1	1.2	77	71	.26	.30	.56	.03
MAY 25...	6.2	.1	.7	73	69	.20	.28	.48	.02
JUN 08...	6.4	.1	.6	85	69	.15	.33	.48	.02
JUL 07...	6.8	.1	.4	84	67	.08	.20	.28	.02
AUG 18...	8.7	.1	.8	86	82	.10	.48	.58	.03
SEP 14...	6.8	.1	.7	78	72	.09	.38	.47	.03

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

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)
APR 27...	0	0	0	0	0	0	10	0	<10	0	0
JUN 08...	1	1	0	1	1	0	10	0	10	0	0
JUL 07...	0	0	0	0	0	--	10	0	<10	0	0

DATE	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)
APR 27...	0	0	0	0	90	10	4	3	1	0	0
JUN 08...	0	10	10	0	50	0	6	5	1	0	0
JUL 07...	0	0	0	0	40	0	8	1	7	10	7

DATE	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE D MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	SUS- PENDE D SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)
APR 27...	0	<.5	.0	<.5	0	0	0	0	0	0
JUN 08...	0	<.5	.0	<.5	10	10	0	0	0	0
JUL 07...	3	<.5	.0	<.5	10	0	10	0	0	0

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

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04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)
NOV 04...	--	ND	ND	ND	ND	ND	--	ND	--	ND	ND
APR 27...	4.8	--	ND	--	ND	--	--	--	8.0	ND	ND
MAY 25...	--	ND	ND	ND	ND	ND	ND	ND	2.0	ND	.8
JUN 08...	3.8	--	--	--	--	--	--	--	--	--	--
JUL 07...	4.4	--	--	--	--	--	--	--	--	--	--
SEP 14...	--	ND	--	ND	--	ND	--	ND	--	ND	--

DATE	TOTAL DI- AZINON (UG/L)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	ETHION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)
NOV 04...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APR 27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 25...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN 08...	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	--	--	--	--	--	--	--	--	--	--
SEP 14...	ND	--	ND	--	ND	--	ND	--	ND	--	ND

DATE	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL PARA- THION (UG/L)
NOV 04...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APR 27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 25...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JUN 08...	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	--	--	--	--	--	--	--	--	--	--
SEP 14...	--	ND	--	ND	--	ND	ND	--	ND	--	ND

DATE	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	TOTAL 2,4,5-T (UG/L)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	TOTAL SILVEX (UG/L)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)
NOV 04...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
APR 27...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 25...	ND	ND	ND	ND	ND	ND	--	ND	--	ND	--
JUN 08...	--	--	--	--	--	--	--	--	--	--	--
JUL 07...	--	--	--	--	--	--	--	--	--	--	--
SEP 14...	--	ND	--	ND	--	ND	--	ND	--	ND	--

ND Material specifically analyzed for, but not detected.

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Oct. 15	1000	CHLOROPHYTA CHLOROPHYCEAE CHLOROCOCCALES SCENEDESMACEAE SCENEDESMUS	L	0	Nov. 4	1000	CHLOROPHYTA CHLOROPHYCEAE CHLOROCOCCALES OCCYSTACEAE ANKISTRODESMUS DICTYOSPHAERIUM	18 140	2 15
		CHRYSOPHYTA BACILLARIOPHYCEAE CENTRALES COSCONODISCACEAE CUCLOTELLA	15	5			SCENEDESMACEAE SCENEDESMUS	73	8
		PENNALES ACHNANTHACEAE COCCONEIS	15	5			CHRYSOPHYTA BACILLARIOPHYCEAE CENTRALES COSCONODISCACEAE	18	2
		NAVICULACEAE NAVICULA NITZSCHACEAE NITZSCHIA	15 44	5 15			CYCLOTELLA STEPHANODISCUS	9	1
		CYANOPHYTA MYXOPHYCEAE OSCILLATORIALES NOSTOCACEAE ANABAENA	210	70			PENNALES ACHNANTHACEAE COCCONEIS CYMBELLACEAE AMPHORA	9	1
		EUGLENOPHYTA EUGLENOPHYCEAE EUGLENALES EUGLENACEAE TRACHELOMONAS	L	0			FRAGILARIACEAE ASTERIONELLA NAVICULACEAE NAVICULA NITZSCHACEAE NITZSCHIA	37 64	4 7
		PYRRHOPHYTA DINOPHYCEAE PERIDINIALES GLENODINIACEAE GLENODINIUM	L	0			ACHNANTHACEAE RHOICOSPHEINIA	9	1
		TOTAL	290				CYANOPHYTA MYXOPHYCEAE CHROOCOCCALES CHROOCOCCACEAE GOMPHOSPHERIA	380	43
							PYRRHOPHYTA DINOPHYCEAE PERIDINIALES PERIDINIACEAE PERIDINIUM	64	7
							TOTAL	900	
Apr. 27	1000	CHRYSOPHYTA BACILLARIOPHYCEAE CENTRALES COSCONODISCACEAE CYCLOTELLA	5,000	88	May 25	1000	CHRYSOPHYTA BACILLARIOPHYCEAE PENNALES FRAGILARIACEAE FRAGILARIA SYNEDRA	4,000 56	99 1
		PENNALES FRAGILARIACEAE ASTERIONELLA	670	12			TOTAL	4,000	
		TOTAL	5,700						
June 8	1000	CHLOROPHYTA CHLOROPHYCEAE CHLOROCOCCALES OCCYSTACEAE ANKISTRODESMUS	69	4	July 7	0930	CHLOROPHYTA CHLOROPHYCEAE CHLOROCOCCALES OCCYSTACEAE ANKISTRODESMUS	63	9
		CHRYSOPHYTA BACILLARIOPHYCEAE PENNALES FRAGILARIACEAE ASTERIONELLA FRAGILARIA	140 990	8 58			CHRYSOPHYTA BACILLARIOPHYCEAE CENTRALES COSCONODISCACEAE CYCLOTELLA	12	2
		NITZSCHACEAE NITZSCHIA	34	2			PENNALES ACHNANTHACEAE ACHNANTHES COCCONEIS	6 6	1 1
		CHRYSOPHYCEAE CHRYSONADACEAE OCHROMONAS	450	26			NITZSCHACEAE NITZSCHIA	6	1
		PYRRHOPHYTA DINOPHYCEAE PERIDINIALES GLENODINIACEAE GLENODINIUM	34	2			CYANOPHYTA MYXOPHYCEAE CHROOCOCCALES CHROOCOCCACEAE ANACYSTIS	580	85
		TOTAL	1,700				PYRRHOPHYTA DINOPHYCEAE PERIDINIALES CERATIACEAE CERATIUM	12	2
							TOTAL	680	

L - less than 1%, may not have been actually counted.

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY --Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Date	Time	Organism	Count (cells/ml)	Percent of total
Aug. 18	1030	CHLOROPHYTA			Sep. 14	0900	CHRYSOPHYTA		
		CHLOROPHYCEAE					BACILLARIOPHYCEAE		
		CHLOROCOCCALES					PENNALES		
		CHARACIACEAE					DIATOMACEAE		
		SCHROEDERIA	50	4			DIATOMA	11	22
		TETRASPORALES					FRAGILARIACEAE		
		PALMELLACEAE					SYNEDRA	17	33
		SPHAEROCYSTIS	150	11			NAVICULACEAE		
		CHRYSOPHYTA					GYROSIGMA	6	11
		BACILLARIOPHYCEAE					NAVICULA	11	22
		CENTRALES					NITZSCHACEAE		
		COSCONODISACEAE					NITZSCHIA	6	11
		CYCLotella	25	2			TOTAL	52	
		PENNALES							
		ACHNANTHACEAE							
		ACHNANTHES	25	2					
		COCCONEIS	25	2					
		CHRYSOPHYCEAE							
		CHRYSONOMADALES							
		OCHROMONADACEAE							
		OCHROMONAS	50	4					
		CYANOPHYTA							
		MYXOPHYCEAE							
		CHROOCOCCALES							
		CHROOCOCCACEAE							
		ANACYSTIS	800	57					
		EUGLENOPHYTA							
		CRYPTOPHYCEAE							
		CRYPTOMONIDALES							
		CRYPTOMONODACEAE							
		CRYPTOMONAS	250	18					
		PYRRHOPHYTA							
		DINOPHYCEAE							
		PERIDINIALES							
		CERATIACEAE							
		CERATIUM	25	2					
		TOTAL	1,400						

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
June 24	30	1.92	0.303	3.27	0.077	500	Polyethylene strip
Aug. 18	42	12.8	5.85	40.7	1.54	170	Polyethylene strip
Sept. 14	27	3.00	1.31	6.15	.861	280	Polyethylene strip

SUSPENDED-SEDIMENT MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	SUS- PENDE DIAM. % FINER THAN .062 MM		DATE	TIME	SUS- PENDE DIAM. % FINER THAN .062 MM	
		(MG/L)				(MG/L)	
NOV 04...	1000	3	50	JUL 07...	0930	73	26
APR 27...	1000	6	59	AUG 18...	1030	14	34
MAY 25...	1000	8	34	SEP 14...	0900	1	82
JUN 08...	1000	6	35				

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

LAKES AND RESERVOIRS IN STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04260990 CRANBERRY LAKE AT CRANBERRY LAKE, NY--Lat 44°13'14", long 74°50'55", St. Lawrence County, Hydrologic Unit 04150302, on right wall at outlet structure, at village of Cranberry Lake. DRAINAGE AREA, 144 mi² (373 km²). PERIOD OF RECORD, April 1923 to current year. GAGE, nonrecording gage read daily at 1200. Datum of gage is 1,469.75 ft (447.980 m) above mean sea level.

Dam completed in 1867 and controlled storage for which records are available began in 1923. Usable capacity above elevation 1,475.25 ft (449.656 m) is 2,530 mil ft³ (71.6 hm³). Crest at spillway is at elevation, 1,486.43 ft (453.064 m). Length of spillway is 110 ft (34 m). Area of water surface at crest elevation is 10.9 mi² (28.2 km²). Records furnished by Oswegatchie River-Cranberry Reservoir Commission.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 2,985 mil ft³ (84.5 hm³) May 13-15, 1971, gage height, 18.5 ft (5.64 m); minimum observed, 70 mil ft³ (1.98 hm³) Apr. 1-4, 1956, gage height, 6.0 ft (1.83 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 2,710 mil ft³ (76.7 hm³) May 24-26, gage height, 17.6 ft (5.36 m); minimum observed, 947 mil ft³ (26.8 hm³) Jan. 22-25, gage height, 10.7 ft (3.26 m).

04266700 CARRY FALLS RESERVOIR NEAR SOUTH COLTON, NY--Lat 44°26'07", long 74°44'50", St. Lawrence County, Hydrologic Unit 04150305, near center of upstream wall of dam between Carry Falls and Stark Falls Reservoirs, 2.0 mi (3.2 km) southeast of Stark, and 8.8 mi (14.2 km) southeast of South Colton. DRAINAGE AREA, 873 mi² (2,261 km²). PERIOD OF RECORD, October 1954 to current year. GAGE, nonrecording gage. Datum of gage is at mean sea level.

Dam completed January 1953 and controlled storage for which records are available began in October 1954. Usable capacity above elevation 1,332.0 ft (405.99 m) is 5,114.9 mil ft³ (145 hm³). Crest at spillway is at elevation 1,386.0 (422.45 m). Length of spillway is 830 ft (253 m). Area of water surface at crest elevation is 5.16 mi² or 13.4 km² (3,300 acres or 1,300 hm²). The pond has a length of 6 mi (10 km) and a perimeter of 25 mi (40 km). Below crest elevation, capacity controlled by a taintor gate, 27 ft x 15 ft (8m x 5m), and 2 sluice gates, 10 ft x 10 ft (3m x 3m). Records furnished by Niagara Mohawk Power Corp.

EXTREMES FOR PERIOD OF RECORD: Maximum contents observed, 5,146 mil ft³ (146 hm³) June 1, 5, 6, 1955, elevation, 1,386.1 ft (422.48 m); minimum observed, 8.64 mil ft³ (0.245 hm³) Mar. 27-30, 1963, Apr. 4-11, 1964, elevation, 1,331.0 ft (405.69 m).

EXTREMES FOR CURRENT YEAR: Maximum contents observed, 5,132 mil ft³ (145 hm³) May 5, elevation, 1,386.0 ft (422.45 m); minimum observed, 2,008 mil ft³ (56.9 hm³) Feb. 21, 22, elevation, 1,360.2 ft (414.59 m).

04273900 LAKE PLACID AT LAKE PLACID, NY (see station for daily mean gage heights).

04278000 LAKE GEORGE AT ROGERS ROCK, NY (see station for daily mean gage heights).

04294500 LAKE CHAMPLAIN AT BURLINGTON, VT (see station for daily mean gage heights).

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY (see station for daily mean elevations).

MONTHEND GAGE HEIGHT, ELEVATION, AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Gage height (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)	Contents (million ft ³)	Change in contents (equivalent in ft ³ /s)
04260990 Cranberry Lake				04266700 Carry Falls Reservoir		
Sept. 30.....	15.9	2,212		1,371.0	3,162.2	
Oct. 31.....	15.2	2,022	- 70.9	1,384.4	4,911.0	+653
Nov. 30.....	14.2	1,762	-100	1,384.5	4,924.8	+ 5.33
Dec. 31.....	12.4	1,318	-166	1,377.0	3,913.9	-377
CAL YR 1975			- 11.6			- 13.2
Jan. 31.....	11.4	1,098	- 82.1	1,367.8	2,802.8	-415
Feb. 29.....	12.1	1,252	+ 61.4	1,363.0	2,298.2	-201
Mar. 31.....	15.5	2,100	+317	1,372.3	3,319.5	+381
Apr. 30.....	16.8	2,470	+143	1,384.4	4,911.0	+614
May 31.....	16.8	2,470	0	1,385.2	5,021.6	+ 41.3
June 30.....	16.4	2,352	- 45.5	1,385.0	4,993.9	- 10.7
July 31.....	16.0	2,240	- 41.8	1,379.5	4,237.9	-282
Aug. 31.....	15.3	2,048	- 71.7	1,376.0	3,784.3	-169
Sept. 30.....	14.8	1,918	- 50.2	1,367.6	2,780.4	-387
WTR YR 1976			- 9.29			- 12.1

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.

Records collected at partial-record 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. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

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. 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 when continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1976

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Mianus River basin						
01210000 ^{c/}	Mianus River at Bedford	Lat 41°12'06", long 73°37'59", Westchester County, at bridge on Middle Patent Road, and 0.6 mi (1.0 km) east of Bedford.	10.42	1956-59, 1961-62	8- 4-76 8-31-76	4.1 4.2
Hudson River basin						
01355200	Alplaus Kill at Burnt Hills	Lat 42°54'18", long 73°55'08", Schenectady County, at bridge on Van Vorst Road, just downstream from LaRue Creek, and 1 mi (1.6 km) west of Burnt Hills.	37.9	1960-61, 1967, 1973-74	8- 9-76	5.5
01359650	Moordener Kill at Schodack Center	Lat 42°33'17", long 73°40'33", Rensselaer County, 0.2 mi (0.3 km) upstream from North Branch Moordener Kill, at Schodack Center.	13.7	1960-66	9- 3-75	6.3
01359660	North Branch Moordener Kill at Schodack Center	Lat 42°33'20", long 73°40'39", Rensselaer County, at U.S. Highway 9 and 20 Bridge, 0.1 mi (0.2 km) upstream from Moordener Kill, at Schodack Center.	13.3	1960-66	9- 3-75	5.6
01361300	Taghkanic Creek near Claverack	Lat 42°12'59", long 73°45'35", Columbia County, at bridge on County Highway 29, 0.2 mi (0.3 km) upstream from Loomis Creek, 0.9 mi (1.4 km) upstream from mouth, and 1.5 mi (2.4 km) southwest of Claverack.	83.0	1949, 1956-61, 1964-65	6-11-75	44

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1976

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Housatonic River basin							
01199400	Webatuck Creek near South Amenia, NY	Lat 41°46'51", long 73°33'21", Dutchess County, at bridge on Pump House Road, 200 ft (61 m) upstream from conflu- ence with Wassaic Creek, and 1.6 mi (2.6 km) southwest of South Amenia.	81.0	1962-69, 1971-76	1-28-76	5.81	2,100
01199420	Tenmile River near Wassaic, NY	Lat 41°46'50", long 73°33'34", Dutchess County, at county bridge A-30, 0.2 mi (0.3 km) downstream from confluence of Wassaic and Webatuck Creeks, and 1.6 mi (2.6 km) south of Wassaic.	120	1959-60†, 1961-65, 1967-76	1-28-76	7.71	3,500
01199477	Stony Brook near Dover Plains, NY	Lat 41°42'38", long 73°37'18", Dutchess County, at culvert on town road, 100 ft (30 m) upstream from Mill River, and 2.9 mi (4.7 km) southwest of Dover Plains.	1.93	1976	1-28-76	2.51	152
Hudson River basin							
01319800	West Branch Sacandaga River at Arietta, NY	Lat 43°15'03", long 74°31'06", Hamilton County, at bridge on State Highway 10, 0.4 mi (0.6 km) north of Arietta.	28.9	1963-76	4- 1-76	10.89	947
01319950	Sand Lake Outlet near Piseco, NY	Lat 43°22'15", long 74°32'47", Hamilton County, at bridge on State Highway 10, 0.9 mi (1.4 km) upstream from mouth, and 5.5 mi (8.8 km) south of Piseco.	7.16	1962-66, 1968-76	4- 1-76	2.36	228
01323000	Kennyetto Creek near Broadalbin, NY	Lat 43°03'57", long 74°09'48", Fulton County, at bridge on county highway, 1.8 mi (2.9 km) east of Broadalbin.	28.3	1940-46†, 1960-65, 1969-76	4- 1-76	4.94	†
01328758	Pecks Creek at Fort Miller, NY	Lat 43°09'10", long 73°35'24", Saratoga County, at culvert on River Road, 0.5 mi (0.8 km) up- stream from mouth, and 0.9 mi (1.4 km) southwest of Fort Miller.	2.43	1976	5-20-76	15.84	165
01329780	Sessions Brook at Porter Corners, NY	Lat 43°09'21", long 73°52'45", Saratoga County, at culvert on County Highway 17, 0.7 mi (1.1 km) northeast of Porter Corners, and 0.9 mi (1.4 km) upstream from mouth.	1.12	1976	5-20-76	3.19	64
01329900	Glowegee Creek tributary at Mosherville, NY	Lat 43°03'24", long 74°00'58", Saratoga County, at culvert on Parkis Mill Road, and 0.4 mi (0.6 km) south of Mosherville.	1.37	1968-76	4- 1-76	12.62	102
01330880	Saratoga Lake tributary near Bemis Heights, NY	Lat 42°59'43", long 73°43'06", Saratoga County, at culvert on State Highway 423, 1.4 mi (2.3 km) upstream from mouth, and 4.6 mi (7.4 km) northwest of Bemis Heights.	2.98	1976	4- 2-76	12.48	100
01333367	Little Hoosic River at Cherryplain, NY	Lat 42°37'57", long 73°21'23", Rensselaer County, at bridge on town road, just above Kronk Brook, in Cherryplain, 4.2 mi (6.8 km) south of Berlin.	2.22	1976	5-20-76	6.37	130

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
		Hudson River basin--Continued					
01334550	Case Brook near Eagle Bridge, NY	Lat 42°55'50", long 73°23'15", Rensselaer County, at bridge on town road, 1.2 mi (1.9 km) upstream from mouth, and 1.4 mi (2.3 km) southeast of Eagle Bridge.	2.89	1976	1-27-76	7.26	†
01342730	Steele Creek at Ilion, NY	Lat 43°00'04", long 75°26'10", Herkimer County, at bridge on Whitney Street in Ilion, and 1.6 mi (2.6 km) upstream from mouth.	26.1	1964-65, 1966-68†, 1969, 1971-74, 1976	2-22-76	3.56	830
01342800	West Canada Creek at Nobleboro, NY	Lat 43°23'47", long 74°51'34", Herkimer County, on right bank 30 ft (9.1 m) downstream from bridge on State Highway 8, in village of Nobleboro, and 2.9 mi (4.7 km) northeast of Wilmurt.	192	1946, 1958-66, 1967-68†, 1969, 1972, 1974, 1976	4- 1-76	9.79	10,400
01346820	Mohawk River tributary at Indian Castle, NY	Lat 43°00'34", long 74°47'47", Herkimer County, at culvert on State Highway 5S, 0.35 mi (0.6 km) west of Indian Castle, and 0.4 mi (0.7 km) upstream from mouth.	1.37	1974-76	2-22-76	1.08	74
01347460	Spruce Lake tributary near Salisbury Center, NY	Lat 43°10'51", long 74°48'44", Herkimer County, at culvert on town road (Jerseyfield Road), 1.3 mi (2.1 km) upstream from mouth, and 2.9 mi (4.7 km) north of Salisbury Center.	.53	1975-76	2-22-76	2.97	53
01348420	North Creek near Ephratah, NY	Lat 43°00'28", long 74°33'54", Fulton County, at culvert on town road, 0.4 mi (0.7 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Ephratah.	6.68	1975-76	2-22-76	7.23	360
01349360	Van Wie Creek tributary near Randall, NY	Lat 42°54'11", long 74°25'55", Montgomery County, at culvert on Brumley Road, 0.3 mi (0.5 km) south of intersection with Argisinger Road, and 0.9 mi (1.4 km) southwest of Randall.	1.03	1974-76	5-20-76	3.46	56
01349850	Batavia Kill at Hensonville, NY	Lat 42°17'17", long 74°12'55", Greene County, on County Highway 40, at Hensonville, 0.7 mi (1.1 km) upstream from Silver Lake Outlet, and 1.8 mi (2.9 km) upstream from Nauvo Stream.	13.5	1955, 1960, 1961-66, 1972, 1974, 1976	8-11-76	8.24	1,060
01350900	Beaverdam Creek near Knox, NY	Lat 42°38'57", long 74°07'56", Albany County, 250 ft (76 m) downstream from bridge, 1.2 mi (1.9 km) south of Knox, and 1.7 mi (2.7 km) upstream from mouth.	6.91	1963-64, 1966, 1967-74, 1976	2-22-76	5.81	†
01351610	Schoharie Creek tributary No. 2 at Eaton Corners, NY	Lat 42°49'11", long 74°14'49", Schenectady County, at culvert on Peck Road, 1.0 mi (1.6 km) north of Eaton Corners, and 1.2 mi (1.9 km) upstream from mouth.	1.22	1976	2-22-76	5.33	197
01354200	Sandsea Kill at Pattersonville, NY	Lat 42°53'20", long 74°04'42", Schenectady County, at bridge on State Highway 5S, in village of Pattersonville.	9.56	1961, 1963-67, 1971-74, 1976	2-22-76	4.52	1,020
01354300	Plotter Kill at Rynex Corners, NY	Lat 42°49'16", long 74°04'20", Schenectady County, at bridge on State Highway 159, in hamlet of Rynex Corners.	3.70	1958, 1976	10-18-75	15.75	200

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Hudson River basin--Continued							
01355405	Indian Kill near Glenville Center, NY	Lat 42°53'40", long 73°57'27", Schenectady County, 1.1 mi (1.7 km) east of Glenville Center, and 1.3 mi (2.1 km) west of East Glenville.	2.39	1974-76	10-20-75	18.60	160
01361200	Claverack Creek near Claverack, NY	Lat 42°12'54", long 73°43'46", Columbia County, on right bank, 70 ft (21 m) upstream from bridge on State Highway 9H, 0.5 mi (0.9 km) south of Claverack.	60.6	1960-68, 1969-73, 1975-76	1-28-76	9.98	3,290
01361453	Catskill Creek tributary at Franklinton, NY	Lat 42°31'35", long 74°18'33", Schoharie County, at culvert on town road, 0.2 mi (0.3 km) upstream from mouth, and 0.5 mi (0.8 km) northwest of Franklinton.	3.64	1976	2-22-76	5.75	200
01361900	Shingle Kill at Cairo, NY	Lat 42°18'22", long 74°00'15", Greene County, at bridge on town road at Cairo, southeast of State Highway 32, about 400 ft (122 m) south of State Highway 23, and 0.8 mi (1.3 km) upstream from mouth.	13.9	1953, 1966, 1967-74, 1976	8-10-76	5.33	438
01362100	Roeliff Jansen Kill near Hillsdale, NY	Lat 42°09'14", long 73°31'14", Columbia County, at bridge on county highway off State Highway 22, 1.8 mi (2.9 km) south of Hillsdale.	27.5	1958-60†, 1963-64, 1968-76	8-10-76	4.15	625
01362197	Bushnellsville Creek at Shandaken, NY	Lat 42°07'25", long 74°24'04", Ulster County, along State Highway 42, 0.4 mi (0.6 km) upstream from Esopus Creek, and 0.4 mi (0.6 km) northwest of Shandaken.	11.4	1951, 1956, 1972, 1976	1-26-76	8.17	350
01363388	Dry Brook at West Shokan, NY	Lat 41°58'22", long 74°17'50", Ulster County, at bridge on town road, 0.6 mi (1.0 km) northwest of West Shokan, and 1.2 mi (1.9 km) upstream from mouth.	1.67	1976	1-26-76	5.55	†
01368713	Wawayanda Creek at Durland, NY	Lat 41°16'44", long 74°18'20", Orange County, on bridge on State School Road, at Durland, 0.1 mi (0.2 km) downstream from Wickham Lake, and 2.5 mi (4.0 km) northeast of Warwick.	5.15	1971-76	1-28-76	15.48	41
01368724	Long House Creek at Bellvale, NY	Lat 41°15'10", long 74°18'30", Orange County, at bridge on Iron Forge Road, at Bellvale, and 1.9 mi (3.1 km) upstream from mouth.	11.8	1971-76	1-28-76	15.99	230
01368810	Wawayanda Creek at New Milford, NY	Lat 41°14'18", long 74°25'03", Orange County, at bridge on Ryerson Road, at New Milford, 0.2 mi (0.3 km) upstream from Double Kill.	45.0	1971-76	1-28-76	14.05	805
01372040	Crum Elbow Creek at Hyde Park, NY	Lat 41°47'24", long 73°55'53", Dutchess County, at bridge on Hyde Park-East Park Road, at Hyde Park, and 0.3 mi (0.5 km) east of U.S. Highway 9.	18.6	1959-62†, 1963-74, 1976	1-28-76	4.43	440
01372948	Clove Creek near North Highland, NY	Lat 41°28'50", long 73°54'35", Putnam County, at bridge on Mill Road, 1.6 mi (2.6 km) northeast of North Highland.	12.1	1975-76	1-28-76	3.40	315

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Hudson River basin--Continued							
01374130	Canopus Creek at Oscawana Corners, NY	Lat 41°22'43", long 73°52'23", Putnam County, at bridge on Hortun Hollow Road, 0.4 mi (0.6 km) downstream from West Branch, and 0.8 mi (1.3 km) west of Oscawana Corners.	8.30	1975-76	1-28-76	3.56	80
01374250	Peekskill Hollow Creek at Tompkins Corners, NY	Lat 41°23'18", long 73°48'47", Putnam County, at bridge on Bryant Pond Road, 0.9 mi (1.4 km) southwest of Tompkins Corners, and 1.1 mi (1.8 km) downstream from Wicopee Brook.	14.96	1975-76	8-10-76	3.03	237
01374460	South Branch Minisceongo Creek at Letchworth Village, NY	Lat 41°12'15", long 74°01'54", Rockland County, 200 ft (61 m) downstream from Letchworth village road and pond, and 1,000 ft (305 m) downstream from Palisades Interstate Parkway, at Letchworth Village.	5.83	1960-74	1-27-76	2.93	98
01374645	Lake Carmel Inlet at Kent Corners, NY	Lat 41°28'19", long 73°39'15", Putnam County, at culvert on State Highway 311, 0.3 mi (0.5 km) upstream from mouth, and 0.4 mi (0.6 km) northeast of Kent Corners.	10.6	1975-76	1-28-76	2.29	351
Hackensack River basin							
01376570	New City Brook near New City, NY	Lat 41°10'09", long 73°58'46", Rockland County, at bridge on road north of Christie Airport, 0.5 mi (0.8 km) east of Zukor Road, 0.8 mi (1.3 km) upstream from mouth, and 1.1 mi (1.8 km) north of New City.	5.51	1972-76	6-22-76	7.45	1,450
01376600	Hackensack River at Brookside Park, NY	Lat 41°10'18", long 73°58'24", Rockland County, at Brookside Park, 900 ft (270 m) upstream from State Highway 304, 1,300 ft (400 m) upstream from DeForest Lake, 0.8 mi (1.3 km) downstream from unnamed tributary, and 1.2 mi (1.9 km) from Lake Lucille.	13.2	1959-63†, 1967-76	6-30-76	7.42	1,400
01376690	East Branch Hackensack River near Congers, NY	Lat 41°07'32", long 73°57'24", Rockland County, about 0.1 mi (0.2 km) downstream from small pond, half a mile (0.8 km) upstream from DeForest Lake, and 2 mi (3 km) south of Congers.	6.86	1960, 1968-69, 1971-76	4- 1-76	9.13	150
01377180	Pascack Brook at Spring Valley, NY	Lat 41°06'45", long 74°02'00", Rockland County, on road to Orange and Rockland Utilities substation, and 0.7 mi (1.1 km) east of Spring Valley.	2.13	1972-76	6-30-76	5.11	575
01377200	Pascack Brook tributary at Spring Valley, NY	Lat 41°06'15", long 74°01'57", Rockland County, 100 ft (30 m) upstream from mouth, and 150 ft (46 m) downstream from bridge on Pascack Road at Spring Valley.	4.58	1960-62†, 1963-74, 1976	4- 2-76	5.77	435
01387350	Nakoma Brook at Sloatsburg, NY	Lat 41°09'14", long 74°11'38", Rockland County, 50 ft (15 m) downstream from tributary, 100 ft (30 m) upstream from State Highway 17, 0.5 mi (0.8 km) upstream from mouth, 1.1 mi (1.8 km) downstream from Cranberry Pond Outlet, at Sloatsburg.	5.35	1960-76	6-30-76	6.39	118
01387410	Torne Brook at Ramapo, NY	Lat 41°08'34", long 74°09'44", Rockland County, 0.2 mi (0.3 km) upstream from mouth, and 0.5 mi (0.8 km) east of Ramapo.	2.62	1960, 1962-76	1-27-76	7.50	600

† Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Delaware River basin							
01417185	Campbell Brook tributary near Downsville, NY	Lat 42°02'41", long 74°58'37", Delaware County, at culvert on Campbell Brook Road Left Fork, 200 ft (61 m) upstream from mouth, 2.0 mi (3.2 km) southwest of Downsville Dam, and 2.7 mi (4.3 km) southeast of Downsville.	0.41	1975-76	2-22-76	2.01	13
01422530	Peaks Brook near Delhi, NY	Lat 42°15'58", long 74°57'24", Delaware County, at culvert on town road, 0.9 mi (1.4 km) upstream from mouth, and 2.0 mi (3.2 km) west of Delhi.	5.04	1975-76	10-20-76	4.04	725
01436050	Neversink River tributary to tributary No. 3 near Loch Sheldrake, NY	Lat 41°48'05", long 74°37'53", Sullivan County, at culvert on town road, 0.2 mi (0.3 km) up- stream from mouth, and 2.5 mi (4.0 km) northeast of Loch Sheldrake.	1.36	1975-76	5- 2-76	1.49	36
01437345	Basher Kill tributary near Westbrookville, NY	Lat 41°30'34", long 74°32'36", Sullivan County, at culvert on town road, 0.2 mi (0.3 km) upstream from mouth, and 1.0 mi (1.6 km) northeast of Westbrookville.	1.51	1975-76	4-13-76	4.15	95
Susquehanna River basin							
01496363	Ocuqionis Creek at Richfield Springs, NY	Lat 42°51'13", long 74°59'30", Otsego County, at bridge on River Street in Richfield Springs, and 1.4 mi (2.3 km) upstream from mouth.	20.0	1975-76	2-22-76	3.48	650
01496370	Mink Creek at Richfield Springs, NY	Lat 42°50'55", long 75°00'11", Otsego County, at bridge on State Highway 28, 0.4 mi (0.6 m) southwest of Richfield Springs, and 1.0 mi (1.6 km) upstream from mouth.	10.4	1969-76	2-22-76	5.84	b
01496390	Hyder Creek near Richfield Springs, NY	Lat 42°49'00", long 75°01'12", Otsego County, State Highway 28, 0.3 mi (0.5 km) upstream from mouth, and 3.0 mi (4.8 km) southwest of Richfield Springs.	9.52	1975-76	2-22-76	6.25	b
01496448	Herkimer Creek at Schuyler Lake, NY	Lat 42°47'19", long 75°01'31", Otsego County, at bridge on State Highway 28, 0.5 mi (0.8 km) upstream from mouth, and 0.6 mi (1.0 km) north of Schuyler Lake.	12.6	1976	2-22-76	4.57	660
01496630	Susquehanna River tributary near Milford, NY	Lat 42°37'07", long 74°59'34", Otsego County, on town road, 150 ft (46 m) upstream from unnamed tributary, 2.7 mi (4.3 km) northwest of Milford, and 4.2 mi (6.8 km) upstream from mouth.	3.52	1976	10-18-75	4.76	†
01497800	Schenevus Creek at Schenevus, NY	Lat 42°32'45", long 74°50'00", Otsego County, at bridge on Tannery Street, Schenevus.	57.8	1963-76	2-22-76	7.53	1,700
01501140	Wharton Creek tributary near Edmeston, NY	Lat 42°42'35", long 75°13'19", Otsego County, at culvert on town road, 1.1 mi (1.8 km) upstream from mouth, and 1.4 mi (2.3 km) northeast of Edmeston.	2.02	1976	2-22-76	2.47	†
01502714	Oquaga Creek near Belden, NY	Lat 42°10'12", long 75°40'45", Broome County, at culvert on Kane Road, 2.3 mi (3.7 km) south of Belden, 2.8 mi (4.5 km) west of Harpursville, and 4.5 mi (7.2 km) upstream from mouth.	3.37	1975-76	2-25-75 10-18-75	4.58 5.15	300 340

† Discharge not determined.

b Ice jam.

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Susquehanna River basin--Continued							
01503960	Electric Light Stream near Morrisville, NY	Lat 42°52'51", long 75°38'37", Madison County, at bridge between Eaton-Morrisville road, in Eagleville, 0.4 mi (0.6 km) upstream from mouth, and 1.3 mi (2.1 km) south of Morrisville.	1.22	1976	4-16-76	10.67	†
01503980	Chenango River at Eaton, NY	Lat 42°51'02", long 75°36'21", Madison County, at bridge on London Road, at Eaton, 0.1 mi (0.2 km) upstream from Eaton Brook, and 1.0 mi (1.6 km) downstream from State Highway 26.	24.3	1964-65, 1967-76	4-16-76	7.44	1,000
01505018	Cold Brook at North Norwich, NY	Lat 42°36'26", long 75°31'58", Chenango County, at culvert on town road, 0.8 mi (1.3 km) southwest of North Norwich, and 1.5 mi (2.4 km) upstream from mouth.	4.77	1976	10-18-75	2.17	†
01507000	Chenango River at Greene, NY	Lat 42°19'28", long 75°46'18", Chenango County, on left bank 1,700 ft (520 m) downstream from bridge, on State Highway 206 at Greene, and 0.6 mi (1.0 km) downstream from Birdsall Creek.	593	1937-70†, 1971-76	2-20-76 2-23-76	12.48 11.75	b 7,740
01508500	Albright Creek at East Homer, NY	Lat 42°40'09", long 76°06'13", Cortland County, on left bank 0.2 mi (0.3 km) upstream from highway bridge in East Homer, and 0.5 mi (0.8 km) upstream from mouth.	6.81	1939-68†, 1970-73, 1974-76	2-22-76	3.00	180
01508946	Otter Creek tributary at State Highway 222 near Cortland, NY	Lat 42°35'22", long 76°14'01", Cortland County, at culvert on State Highway 222, 1.0 mi (1.6 km) upstream from mouth, and 1.8 mi (2.9 km) west of Cortland.	2.85	1976	2-22-76	11.81	†
01510610	Merrill Creek tributary near Texas Valley, NY	Lat 42°28'03", long 75°59'19", Cortland County, at bridge on town road, 0.3 mi (0.5 km) upstream from mouth, and 1.4 mi (2.3 km) southwest of Texas Valley.	5.32	1976	2-22-76	3.32	†
01511500	Tioughnioga River at Itaska, NY	Lat 42°17'55", long 75°54'30", Broome County, on right bank at Itaska, 3.8 mi (6.1 km) downstream from Otselic River and village of Whitney Point, and 6 mi (10 km) upstream from mouth.	730	1929-67†, 1968-76	a2-19-76	10.38	b
01512515	Page Brook tributary near Page Brook, NY	Lat 42°17'16", long 75°43'24", Broome County, at culvert on Wiley Road, 0.1 mi (0.2 mi) upstream from mouth, and 2.9 mi (4.7 km) northeast of Page Brook.	2.07	1976	10-18-75	5.03	864
01513500	Susquehanna River at Vestal, NY	Lat 42°05'27", long 76°03'23", Broome County, 400 ft (120 m) downstream from highway bridge at Vestal, and 800 ft (240 m) upstream from Choconut Creek.	3,941	1938-67†, 1968-72, 1974-76	2-19-76	19.43	44,900
01513712	Nanticoke Creek tributary at Nanticoke, NY	Lat 42°16'40", long 76°02'51", Broome County, at culvert on Rabbit Road, 0.4 mi (0.6 km) northeast of Nanticoke, and 0.6 mi (1.0 km) upstream from mouth.	1.70	1976	7-11-76	8.02	1,780

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

b Ice jam.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Susquehanna River basin--Continued							
01525500	Canisteo River at West Cameron, NY	Lat 42°13'20", long 77°25'05", Steuben County, on right bank 250 ft (76 m) downstream from bridge on County Highway 119, 0.3 mi (0.5 km) southeast of West Cameron, and 1.7 mi (2.7 km) north of Cameron.	340	1930-31†, 1937-70†, 1971-72, 1974-76	1-27-76 2-17-76	15.60 13.63	b 9,100
Allegheny River basin							
03010800	Olean Creek near Olean, NY	Lat 42°07'12", long 78°25'12", Cattaraugus County, on right bank at upstream side of highway bridge, 1,000 ft (300 m) west of State Highway 16, 1.4 mi (2.3 km) northeast of Olean, and 4.6 mi (7.4 km) upstream from mouth.	198	1959-68†, 1970-76	2-17-76	11.99	5,360
Streams tributary to Lake Erie							
04213490	South Branch Cattaraugus Creek near Otto, NY	Lat 42°21'54", long 78°48'06", Cattaraugus County, at highway bridge, 0.2 mi (0.3 km) upstream from Mansfield Creek, and 1.7 mi (2.7 km) northeast of Otto.	25.6	1963-76	3-17-63 3- 5-64 2- 7-65 3- 5-66 9-28-67 4- 4-68 1-30-69 8-22-70 3-15-71 6-23-72 12- 6-72 4- 2-74 9-26-75 2-17-76	6.54 6.37 8.48 6.94 7.23 6.23 6.23 8.13 5.62 7.34 4.65 5.51 6.00 7.09	R1,780 R1,660 R3,580 R2,110 R2,360 R1,560 R1,560 R3,230 1,220 R2,460 635 1,150 1,400 2,230
04214040	Delaware Creek near Angola, NY	Lat 42°37'46", long 79°03'15", Erie County, at bridge on State Highway 5, 1.5 mi (2.4 km) southwest of Angola, and 1.6 mi (2.6 km) upstream from mouth.	8.15	1963-76	3- 3-76	3.00	200
04214200	Eighteenmile Creek at North Boston, NY	Lat 42°41'04", long 78°46'41", Erie County, on left bank 60 ft (18 m) upstream from bridge on Zimmerman Road, at North Boston and 1.4 mi (2.3 km) downstream from Irish Gulf.	37.2	1963-68†, 1971-76	7-29-76	10.81	4,300
04214250	Smoke Creek at Lackawanna, NY	Lat 42°49'21", long 78°48'10", Erie County, at bridge on Abbott Road, at Lackawanna.	14.6	1955, 1963-68, 1970-74, 1976	3- 3-76	3.66	514
04214260	South Branch Smoke Creek at Lackawanna, NY	Lat 42°48'17", long 78°48'38", Erie County, at bridge on Willet Road at Lackawanna, 1.6 mi (2.6 km) upstream from mouth.	13.6	1953, 1955, 1967-76	4-25-76	4.82	410
04214410	Hunter Creek at Colegrave, NY	Lat 42°44'11", long 78°32'55", Erie County, at bridge on Center Line Road, 0.3 mi (0.5 km) east of Colegrave, and 3.5 mi (5.6 km) upstream from mouth.	14.0	1964-76	7-29-76	6.25	1,400
04214980	Little Buffalo Creek near East Lancaster, NY	Lat 42°52'46", long 78°36'27", Erie County, at bridge on Schwartz Road, 1.9 mi (3.1 km) southeast of East Lancaster, and 2.9 mi (4.7 km) upstream from mouth.	23.9	1963-73, 1976	7-11-76	7.45	1,020
Streams tributary to Niagara River							
04216400	Tonawanda Creek near Johnsonburg, NY	Lat 42°43'05", long 78°19'18", Wyoming County, on State Highway 98 near Johnsonburg, and 0.6 mi (1.0 km) downstream from East Fork.	23.6	1962-74, 1976	7-29-76	8.16	968

† Operated as a continuous-record gaging station.

b Ice jam.

R Revised.

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Streams tributary to Niagara River--Continued							
04216875	Little Tonawanda Creek tributary near Batavia, NY	Lat 42°56'33", long 78°09'46", Genesee County, at culvert on Francis Road, 1.6 mi (2.6 km) upstream from mouth, and 2.7 mi (4.3 km) south of city of Batavia.	1.01	1976	3- 5-76 7-29-76	12.07 12.23	† †
04217700	Murder Creek at Pembroke, NY	Lat 42°59'37", long 78°26'08", Genesee County, at Lake Road bridge, 0.3 mi (0.5 km) south of Pembroke, and 12.5 mi (20.1 km) west of Batavia.	43.9	1962-72, 1974-76	3- 5-76	7.99	955
Streams tributary to Lake Ontario							
04219900	Johnson Creek near Lyndonville, NY	Lat 43°20'21", long 78°20'55", Orleans County, at bridge on Woodworth Road, 3.3 mi (5.3 km) downstream from dam at Lyndonville, and 4.4 mi (7.1 km) upstream from mouth.	87.7	1962-68, 1976	3- 5-76	6.85	1,450
04219925	Oak Orchard Creek near Elba, NY	Lat 43°06'46", long 78°07'39", Genesee County, at bridge on Strouts Road, at inter- section with Watson Road, and 3.3 mi (5.3 km) north- west of Elba village line.	7.49	1976	3- 5-76	8.46	110
04220150	Oak Orchard Creek at Medina, NY	Lat 43°12'26", long 78°23'11", Orleans County, at bridge on State Highway 31A, at Medina, and 1.2 mi (1.9 km) upstream from Erie (Barge) Canal.	157	1962-70, 1972, 1975-76	3- 5-76	6.95	1,170
04221725 ^{c/}	Genesee River at Transit Bridge near Angelica, NY (formerly published as "near Belfast, NY")	Lat 42°17'46", long 78°04'36", Allegheny County, at Transit Bridge, at intersection of State Highways 19 and 408, 0.3 mi (0.5 km) downstream from Angelica Creek, and 2.3 mi (3.7 km) west of Angelica.	577	1975-76	2-24-75 2-17-76	16.64 17.12	R17,600 19,500
04222600	Wiscoy Creek at Bliss, NY	Lat 42°34'59", long 78°14'16", Wyoming County, at bridge on county road, 0.1 mi (0.2 km) north of State Highway 39, and 0.6 mi (1.0 km) east of Bliss.	21.8	1962-65, 1967-76	3- 3-76	3.43	1,240
04224740 ^{c/}	Sugar Creek near Canaseraga, NY	Lat 42°30'07", long 77°44'43", Livingston County, at bridge on county road, 1.6 mi (2.6 km) upstream from mouth, and 3.4 mi (5.5 km) north of Canaseraga.	19.2	1976	2-17-76	3.59	1,200
04224900	Mill Creek at Patchinville, NY	Lat 42°31'13", long 77°35'06", Steuben County, at bridge on Ellinger Road, 0.1 mi (0.2 km) east of State Highway 21, 0.8 mi (1.3 km) south of Wayland, and 9.1 mi (14.6 km) upstream from mouth.	5.00	1964-76	2-17-76	1.91	168
04225500 ^{c/}	Canaseraga Creek at Groveland, NY	Lat 42°39'45", long 77°46'10", Livingston County, at bridge on State Highway 36, 0.1 mi (0.2 km) west of Groveland.	181	1956-64†, 1975-76	a2-17-75 2-24-75 3- 4-76	12.46 12.37 15.19	b R2,640 4,350
04225600 ^{c/}	Bradner Creek near Dansville, NY	Lat 42°34'49", long 77°44'20", Livingston County, at bridge on old state highway, about 150 ft (46 m) upstream from State Highway 36, 1.5 mi (2.4 km) northwest of Dansville, and 8.5 mi (13.7 km) upstream from mouth.	7.45	1976	2-17-76	4.27	2,000
04225915 ^{c/}	Keshequa Creek at Nunda, NY	Lat 42°35'19", long 77°55'14", Livingston County, at bridge on Bailey Road, 0.4 mi (0.6 km) northeast of Nunda.	32.6	1975-76	3- 3-76	5.12	1,700

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

b Ice jam.

c Water-quality data included in this report.

R Revised.

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Streams tributary to Lake Ontario--Continued							
04225950 ^{c/}	Keshequa Creek at Tuscarora, NY	Lat 42°38'17", long 77°52'01", Livingston County, at bridge on State Highway 258, 100 ft (30 m) downstream from tribu- tary in Wildcat Gully, and 0.5 mi (0.8 km) north of Tuscarora.	58.6	1976	3- 3-76	7.74	3,000
04228370 ^{c/}	Little Conesus Creek near South Lima, NY	Lat 42°53'14", long 77°40'03", Livingston County, at bridge on on Cleary Road, 1.1 mi (1.8 km) upstream from partial-record station (04228380) near East Avon, and 2.2 mi (3.5 km) north of South Lima.	7.39	1975-76	R2-25-75 3- 3-76	R7.09 7.41	R150 160
04228380 ^{c/}	Little Conesus Creek near East Avon, NY	Lat 42°53'34", long 77°41'05", Livingston County, at bridge on Bronson Hill Road, 1.1 mi (1.8 km) downstream from partial- record station (04228370) near South Lima, and 1.6 mi (2.6 km) southeast of East Avon.	8.05	1975-76	R2-25-75 3- 3-76	R3.10 3.15	R150 168
04230400 ^{c/}	Oatka Creek at Pearl Creek, NY	Lat 42°50'54", long 78°03'37", Wyoming County, at bridge on State Highway 19 at Pearl River, and 2 mi (3 km) north- east of Wyoming.	80.7	1975-76	3- 4-76	13.30	2,870
04230410 ^{c/}	Pearl Creek at Pearl Creek, NY	Lat 42°50'55", long 78°02'36", Wyoming County, at bridge on State Highway 19, 0.2 mi (0.3 km) east of Pearl Creek, and 1.0 mi (1.6 km) upstream from mouth.	10.9	1975-76	3- 3-76	7.76	532
04230423 ^{c/}	Oatka Creek near Pavilion Center, NY	Lat 42°55'43", long 78°02'20", Genesee County, at bridge on Junction Road, 1.6 mi (2.6 km) northwest of Pavilion Center, and 3.7 mi (6.0 km) northwest of Pavilion.	111	1975-76	3- 4-76	11.17	4,700
04230470 ^{c/}	Mad Creek near LeRoy, NY	Lat 42°58'47", long 77°57'00", Genesee County, at bridge on State Highway 5, 1.2 mi (1.9 km) east of LeRoy, and 2.3 mi (3.7 km) upstream from mouth.	10.1	1975-76	3- 5-76	3.98	550
042320527	Mill Creek tributary near Webster, NY	Lat 43°14'45", long 77°26'43", Monroe County, at culvert on Woodboro Farms Road, 400 ft (120 m) east of Holt Road, and 1.0 mi (1.6 km) north of Webster.	1.80	1976	3- 4-76	13.17	182
042320578	Bear Creek at Ontario, NY	Lat 43°13'30", long 77°17'00", Wayne County, at culvert on New Street in Ontario, 100 ft (30 m) west of Furnace Road.	6.74	1975-76	3- 4-76	11.72	66
042320713	Second Creek tributary at Alton, NY	Lat 43°12'36", long 76°59'32", Wayne County, at culvert on Bond Road, 200 ft (60 m) north of U.S. Highway 104, 0.3 mi (0.5 km) from mouth, and 0.6 mi (1.0 km) west of Alton.	1.07	1976	4-16-76	13.44	54
04232087	Red Creek tributary No. 16 near Red Creek, NY	Lat 43°13'36", long 76°42'23", Cayuga County, at culvert on town road (Red Creek Road), 1.3 mi (2.1 km) southeast of Red Creek.	2.90	1976	a2-17-76	d7.82	†
04232460	Sugar Creek at Guyanoga, NY	Lat 42°37'23", long 77°09'30", Yates County, at bridge on Sid White Road, 0.4 mi (0.6 km) east of Guyanoga, and 2.3 mi (3.7 km) upstream from mouth.	28.9	1966-76	2-24-75 2-17-76	3.28 4.11	455 690

† Discharge not determined.

a Approximately.

c Water-quality data included in this report.

d Crest-stage gage topped.

R Revised.

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Streams tributary to Lake Ontario--Continued							
04232630	Kendig Creek near MacDougall, NY	Lat 42°50'57", long 76°53'33", Seneca County, at downstream side of bridge on County High- way 120, 3.0 mi (4.8 km) north of MacDougall, 3.5 mi (5.6 km) southwest of Waterloo, and 4.6 mi (7.4 km) upstream from mouth.	13.8	1965-68†, 1969-73, 1975-76	2-17-76	5.82	655
04233255	Cayuga Inlet at Ithaca, NY	Lat 42°25'38", long 76°31'19", Tompkins County, on upstream abutment face of flood-control weir, at east end of Burtt Place, south of Ithaca city line, 0.3 mi (0.5 km) east of State Highway 13a, 0.9 mi (1.4 km) downstream from Buttermilk Creek, and 2.4 mi (3.9 km) upstream from mouth.	86.7	1972, 1975-76	2-17-76	8.16	2,100
04233310	Sixmile Creek above Ithaca, NY	Lat 42°24'33", long 76°27'14", Tompkins County, at bridge on Burns Road, 1.8 mi (2.9 km) southeast of Ithaca, and 4.4 mi (7.1 km) upstream from mouth.	42.0	1976	7-11-76	10.04	6,150
04233632	Fall Creek tributary No. 7 at Stevens Corners, NY	Lat 42°33'57", long 76°17'57", Tompkins County, at culvert on county highway, 0.1 mi (0.2 km) north of Stevens Corners, and 1.0 mi (1.6 km) northwest of McLean.	.52	1975-76	2-22-76	0.81	70
04233676	Virgil Creek at Dryden, NY	Lat 42°29'18", long 76°18'08", Tompkins County, at bridge on Mill Street at Dryden, and 0.1 mi (0.2 km) upstream from Dryden Lake Outlet.	20.6	1966-70, 1972, 1975-76	2-22-76	5.24	†
04233678	Dryden Lake Inlet near Harford, NY	Lat 42°26'50", long 76°14'44", Cortland County, on right bank, 20 ft (6 m) upstream from bridge on East Lake Road at intersection with Cotterill Lane, 2.0 mi (3.2 km) northwest of Harford, and 1.6 mi (2.6 km) upstream from Dryden Lake.	2.59	1974†, 1975-76	7-11-76	3.91	283
04233700	Virgil Creek at Freeville, NY	Lat 42°30'18", long 76°21'01", Tompkins County, on left bank, 10 ft (3 m) upstream from bridge on Johnson Street in Freeville, and 0.8 mi (1.3 km) upstream from Fall Creek.	40.3	1974-75†, 1975-76	2-22-76	16.82	1,260
042340588	Yawger Creek tributary near Auburn, NY	Lat 42°54'41", long 76°39'46", Cayuga County, at culvert on Chamberlain Road, 3.5 mi (5.6 km) west of Auburn, and 4.3 mi (6.9 km) upstream from mouth.	1.76	1976	7-11-76	11.57	†
04234200	Mud Creek at East Victor, NY	Lat 42°58'28", long 77°22'57", Ontario County, 25 ft (8 m) downstream from bridge on State Highway 96, 0.3 mi (0.5 km) upstream from Fish Creek, at East Victor.	64.2	1958-68†, 1972, 1976	2-17-76	7.06	1,560
04234363	Erie (Barge) Canal tributary near Newark, NY	Lat 43°02'47", long 77°02'57", Wayne County, at culvert at intersection of Brumm and Sutton Roads, and 1.2 mi (1.9 km) east of Newark.	.58	1976	2-17-76	5.33	†
04234400	West River near Middlesex, NY	Lat 42°41'06", long 77°17'20", Yates County, at bridge on town road, 0.2 mi (0.3 km) west of State Highway 245, 1.6 mi (2.6 km) southwest of Middlesex, and 5.5 mi (8.8 km) upstream from Naples Creek.	29.3	1965-72, 1975-76	2-17-76	5.42	1,240

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

b Ice jam.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Streams tributary to Lake Ontario--Continued							
04235276	Black Brook at Tyre, NY	Lat 42°59'30", long 76°48'13", Seneca County, at bridge on County Highway 101, in village of Tyre, and 0.8 mi (1.3 km) upstream from mouth.	19.0	1966-73, 1975-76	2-18-76	3.63	527
04245236	Meadow Brook at Hurlburt Road, Syracuse, NY	Lat 43°02'30", long 76°06'02", Onondaga County, on right bank, 170 ft (52 m) downstream from culvert at intersection of Hurlburt Road and Meadowbrook Drive, and 2.3 mi (3.7 km) upstream from mouth.	2.90	1971-73†, 1974-76	6-23-76	2.85	116
04245405	Negro Brook near Bridgeport, NY	Lat 43°07'46", long 75°56'50", Madison County, at culvert on Marsh Mill Road, 0.2 mi (0.3 km) upstream from mouth, and 2.1 mi (3.4 km) southwest of Bridgeport.	1.53	1976	2-19-76	5.53	†
04245840	Scriba Creek near Constantia, NY	Lat 43°15'35", long 76°00'11", Oswego County, on right bank, 8 ft (2 m) upstream from road to Ingersol Road, and about 0.8 mi (1.3 km) north of village of Constantia.	38.4	1966-68†, 1969, 1971-76	2-19-76	6.53	859
04249011	Wine Creek at Oswego, NY	Lat 43°27'43", long 76°28'43", Oswego County, at culvert on U.S. Highway 104, 0.3 mi (0.5 km) west of east city limits of City of Oswego, and 1.4 mi (2.3 km) upstream from mouth.	3.11	1976	2-19-76	11.07	†
04249050	Catfish Creek at New Haven, NY	Lat 43°29'00", long 76°19'34", Oswego County, at bridge on State Highway 104B, at New Haven, 1.4 mi (2.3 km) upstream from mouth.	31.7	1962-66, 1968-76	4-16-76	7.02	†
042490673	North Branch Grindstone Creek near Altmar, NY	Lat 43°29'31", long 76°05'41", Oswego County, at culvert on Hong Kong Road, 4.1 mi (6.6 km) upstream from confluence with South Branch Grindstone Creek, and 4.1 mi (6.6 km) southwest of Altmar.	11.2	1976	4-16-76	14.63	†
04250752	Sandy Creek tributary No. 2 near Woodville, NY	Lat 43°45'59", long 76°12'02", Jefferson County, at culvert 250 ft (76 m) north of Southwick Road, 0.2 mi (0.3 km) west of junction of State Highways 3 and 193, 1.9 mi (3.0 km) northwest of Woodville.	4.26	1969-71, 1976	4-10-69 4-4-70 4-21-71 5-20-76	15.99 14.40 16.61 15.57	150 90 170 140
04256040	Mill Creek tributary near Lowville, NY	Lat 43°45'43", long 75°31'13", Lewis County, at culvert on West Road, 2.0 mi (3.2 km) south and west of Lowville, and 2.2 mi (3.5 km) above mouth.	1.68	1976	5-20-76	10.55	†
04258015	Widmeyer Creek near Beaver Falls, NY	Lat 43°54'02", long 75°26'29", Lewis County, at culvert on Swiss Road, 1.2 mi (1.9 km) northwest of Beaver Falls, and 1.5 mi (2.4 km) upstream from mouth.	2.43	1976	3-22-76	8.91	†
04260575	Horse Creek tributary near Dexter, NY	Lat 44°04'47", long 76°03'28", Jefferson County, at bridge on Weaver Road, 0.3 mi (0.5 km) upstream from mouth, 1.0 mi (1.6 km) southwest of Reynolds Corners, and 5.1 mi (8.2 km) north of Dexter.	4.59	1976	3-23-76	8.03	†

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Streams tributary to St. Lawrence River							
04263445	Birch Creek at Pierces Corners, NY	Lat 44°25'42", long 75°32'16", St. Lawrence County, at culvert on Old State Road at Pierces Corners, 4.4 mi (7.1 km) south-east of Pope Mills, and 11.1 mi (17.9 km) upstream from mouth.	1.56	1976	3-23-76	1.43	†
04264200	Little Sucker Brook at Waddington, NY	Lat 44°50'28", long 75°11'28", St. Lawrence County, on left bank, on downstream side of bridge on State Highway 345, 0.6 mi (1.0 km) south of Waddington, and 3.9 mi (6.3 km) upstream from mouth.	19.9	1959-60†, 1961-69, 1971-76	5-20-76	4.34	†
04264300	Brandy Brook near Waddington, NY	Lat 44°49'42", long 75°04'32", St. Lawrence County, at bridge on Halfway House Road, 3.2 mi (5.1 km) southeast of Waddington, and 4.4 mi (8.2 km) upstream from mouth.	27.0	1959-63†, 1964-69, 1971-76	5-20-76	6.68	4.54
04264400	Middle Branch Grass River near Clare, NY	Lat 44°22'34", long 75°03'42", St. Lawrence County, at highway bridge, 1.1 mi (1.8 km) upstream from confluence with South Branch, and 1.9 mi (3.1 km) south of Clare.	63.6	1959-60†, 1961-68, 1971-76	5-20-76	7.23	†
04265100	Elm Creek near Hermon, NY	Lat 44°26'14", long 75°12'52", St. Lawrence County, on left bank, 100 ft (30 m) downstream from highway bridge, 2.3 mi (3.7 km) south of Hermon, and 6.8 mi (10.9 km) upstream from confluence with Tanner Creek.	33.0	1958-68†, 1969-76	5-25-76	8.25	998
04265300	Little River near Canton, NY	Lat 44°32'24", long 75°06'56", St. Lawrence County, at old dam 50 ft (15 m) downstream from highway, at Brick Chapel, 4.0 mi (6.4 km) southeast of Canton, and 7.4 mi (11.9 km) upstream from mouth.	42.4	1959-60†, 1961-69, 1971-76	5-20-76	7.44	2,160
04267600	Cold Brook near South Colton, NY	Lat 44°29'39", long 74°52'11", St. Lawrence County, at bridge on State Highway 56, 1.5 mi (2.4 km) south of South Colton, and 1.6 mi (2.6 km) upstream from mouth.	19.0	1962-64†, 1971-76	4-20-75 5-20-76	4.27 3.76	465 370
04267700	Parkhurst Brook near Potsdam, NY	Lat 44°39'11", long 74°58'15", St. Lawrence County, at bridge on State Highways 56 and 72, 0.3 mi (0.5 km) upstream from mouth, and 1.2 mi (1.9 km) south-east of Campus of State University of New York, College of Education at Potsdam.	17.8	1958-63†, 1964-76	4-20-75 5-20-76	6.01 6.81	570 870
04267800	Trout Brook at Allen Corners, NY	Lat 44°47'33", long 75°01'59", St. Lawrence County, at abandoned bridge off State Highway 56A, at Allen Corners, and 2 mi (3 km) southwest of Norfolk.	56.2	1958-63†, 1964-65, 1967-74, 1976	5-20-76	9.63	1,200
04268200	Plum Brook at Grantville, NY	Lat 44°52'45", long 74°54'52", St. Lawrence County, at bridge on Grant Road, 0.7 mi (1.1 km) downstream from unnamed tributary, 1.1 mi (1.8 km) upstream from mouth, 1.4 mi (2.3 km) north of Grantville, and 2.3 mi (3.7 km) southwest of Massena city limits.	37.6	1958-63†, 1964, 1966-68, 1971-76	5-20-76	5.77	850

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Streams tributary to St. Lawrence River--Continued							
04268800	West Branch St. Regis River near Parishville, NY	Lat 44°35'52", long 74°44'19", St. Lawrence County, at highway bridge, 4.1 mi (6.6 km) downstream from Mud Pond Outlet, 4.2 mi (6.8 km) southeast of Parishville, and 4.8 mi (7.7 km) upstream from Niagara Mohawk Power Corp. dam.	172	1959-68†, 1969, 1971, 1974, 1976	3-28-76	5.77	3,820
04268900	Trout Brook at Stockholm Center, NY	Lat 44°46'16", long 74°48'47", St. Lawrence County, at bridge on town road, 0.7 mi (1.1 km) upstream from mouth, and 1.0 mi (1.6 km) northeast of Stockholm Center.	44.9	1959-60†, 1961-67, 1970-74, 1976	4-20-75 5-20-76	4.15 4.03	† †
04269050	Allen Brook near Brasher Falls, NY	Lat 44°48'07", long 74°43'40", St. Lawrence County, at bridge on U.S. Highway 11, 0.8 mi (1.3 km) upstream from mouth, and 2.2 mi (3.5 km) east of Brasher Falls.	16.0	1961-66†, 1967-74, 1976	5-20-76	4.79	†
04269100	Lawrence Brook near Moira, NY	Lat 44°50'22", long 74°35'46", Franklin County, at highway bridge, 2.4 mi (3.9 km) northwest of Moira, and 5.4 mi (8.7 km) upstream from mouth.	28.0	1959-60†, 1961-74	4-19-75 5-20-76	6.18 6.06	b 934
04269500	Deer River at Brasher Iron Works, NY	Lat 44°53'32", long 74°41'28", St. Lawrence County, 400 ft (122 m) upstream from highway bridge, at Brasher Iron Works, 2.6 mi (4.2 km) southeast of Helena, 3.6 mi (5.8 km) upstream from mouth, and 3.8 mi (6.1 km) downstream from Lawrence Brook.	189	1913-16†, 1959-68†, 1969, 1971-74, 1976	5-20-76	6.60	3,520
04270100	West Branch Deer Creek at Fort Covington Center, NY	Lat 44°56'49", long 74°28'49", Franklin County, at highway bridge, 0.8 mi (1.3 km) west of Fort Covington Center, 2.1 mi (3.4 km) upstream from East Branch, and 3.1 mi (5.0 km) south Fort Covington.	31.4	1962-74, 1976	5-20-76	5.17	598
04270150	East Branch Deer Creek at Fort Covington Center, NY	Lat 44°56'52", long 74°27'51", Franklin County, at highway bridge, at Fort Covington Center, 1.9 mi (3.1 km) upstream from West Branch, and 3.2 mi (5.1 km) south of Fort Covington.	23.1	1961-62†, 1963-74, 1976	5-20-76	6.33	732
04270700	Trout River at Trout River, NY	Lat 44°59'23", long 74°17'56", Franklin County, at bridge on county highway, 0.2 mi (0.3 km) east of State Highway 30, at Trout River, 0.5 mi (0.8 km) upstream from international boundary, 1.5 mi (2.4 km) downstream from unnamed tributary, and 3.3 mi (5.3 km) downstream from Little Trout River.	107	1960-66†, 1967-74, 1976	5-20-76	6.07	3,240
04270800	English River near Mooers Forks, NY	Lat 44°58'32", long 73°39'49", Clinton County, at highway bridge, 1.6 mi (2.6 km) upstream from unnamed tributary, 1.7 mi (2.7 km) northwest of Mooers Forks, and 2.5 mi (4.0 km) upstream from international boundary.	40.8	1960-68†, 1969, 1971-74, 1976	5- 7-76	3.45	658

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

b Ice jam.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

525

Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Streams tributary to St. Lawrence River--Continued							
04273700	Salmon River at South Plattsburgh, NY	Lat 44°38'24", long 73°29'43", Clinton County, on left bank, at bridge on Salmon River Road, at South Plattsburgh, 0.4 mi (0.6 km) west of State Highway 22, and 3.9 mi (6.3 km) upstream from mouth.	61.9	1960-68†, 1969, 1971-76	4-20-75 5-12-76	3.72 3.61	R642 597
04276200	Bouquet River at New Russia, NY	Lat 44°09'51", long 73°36'30", Essex County, at county highway bridge, 0.2 mi (0.3 km) east of State Highway 9, at New Russia.	37.6	1949, 1951, 1953, 1956-68, 1971-73, 1976	4- 1-76	8.65	1,260

† Operated as a continuous-record gaging station.
R Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Rippowan River basin						
01209797 ^{c/} Mill River	Rippowan River	Lat 41°12'32", long 73°33'21", Westchester County, at bridge in town highway (Winterbottom Road), 0.2 mi (0.3 km) down- stream from Trinity Lake Outlet, 0.6 mi (1.0 km) downstream from Mill River reservoir, and 1.0 mi (1.6 km) east of Pound Ridge.	5.14		8- 4-76	*4.0
Byram River basin						
01211300 ^{c/} Byram River	Long Island Sound	Lat 41°07'27", long 73°42'19", Westchester County, at bridge on State Highway 22 and 128, in Armonk, and inside west interchange for Interstate Highway 684.	4.19		8- 4-76	*.99
01211350 ^{c/} Wampus River	Byram River	Lat 41°07'18", long 73°42'38", Westchester County, 100 ft (30 m) downstream from tributaries entering from both sides, 0.1 mi (0.2 km) down- stream from State Highway 22 and 128, 0.1 mi (0.2 km) south of Armonk, and 0.5 mi (0.8 km) upstream from mouth.	3.34		8- 4-76	*.97
Blind Brook basin						
01299030 ^{c/} Blind Brook	Long Island Sound	Lat 41°01'37", long 73°41'23", Westchester County, in Port Chester, 40 ft (12 m) south of Hutchinson River Parkway, 0.4 mi (0.6 km) east of Lincoln Avenue interchange (No. 25), and 11.2 mi (18.0 km) upstream from mean high tide in Milton Harbor.	2.46	1975	6-18-75 10-21-75 10-30-75	2.52 *5.3 *3.0
01299130 ^{c/} Blind Brook Tributary	Blind Brook	Lat 41°01'28", long 73°42'00", Westchester County, in Port Chester, 50 ft (15 m) north of Hutchinson River Parkway, 0.3 mi (0.5 km) west of Lincoln Avenue interchange (No. 25), and 0.3 mi (0.5 km) upstream from mouth.	2.19	1975	10-21-75 10-30-75	5.76 2.30
Hudson River basin						
01327755 ^{c/} Hudson River	Atlantic Ocean	Lat 43°15'52", long 73°35'28", Saratoga-Washington Counties, at bridges on State Highway 197 over Rogers Island in Fort Edward, 0.4 mi (0.6 km) downstream from former dam, and 0.6 mi (1.0 km) upstream from Champlain Canal.		1966-67	4-21-75 4-22-75 8-24-75 9-27-75 9-28-75 3-29-76 3-30-76 4- 3-76 7-29-76 8-19-76	11,800 11,400 1,010 8,500 8,160 12,000 12,800 24,000 3,970 6,070
01329650 ^{c/} Hudson River	Atlantic Ocean	Lat 43°05'54", long 73°34'25", Saratoga County, at bridge on State Highway 29, 0.2 mi (0.3 km) east of Schuylerville, and 0.8 mi (1.3 km) downstream from Batten Kill.		1966-67	3-26-76 3-30-76	12,600 21,100
01335505 ^{c/} Hudson River	Atlantic Ocean	Lat 42°54'19", long 73°40'59", Saratoga County, at Mechanicville Bridge at Mechanicville.		1967	3-26-76 3-30-76	16,100 24,600
01335770 ^{c/} Hudson River	Atlantic Ocean	Lat 42°47'19", long 73°40'28", Saratoga County, at bridge on U.S. Highway 4 at Waterford, and 2.6 mi (4.2 km) upstream from the Federal Locks at Troy.		1966-67	3-15-76 3-26-76 3-31-76 8-11-76	9,290 16,000 26,800 32,500
01349495 Cayadutta Creek	Mohawk River	Lat 42°59'36", long 74°23'54", Fulton County line, at bridge on town road, 2.3 mi (3.7 km) upstream from Fulton-Montgomery County line, and 0.6 mi (1.0 km) west of Johnstown City boundary line.			8- 4-76	*23

* Base flow.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Hudson River basin--Continued						
01349514 Cayadutta Creek	Mohawk River	Lat 42°58'02", long 74°25'15", Montgomery County, at bridge on State Highway 334, 1.6 mi (2.6 km) southeast of Sammons-ville.			8- 4-76	47.9
01349520 Cayadutta Creek	Mohawk River	Lat 42°57'13", long 74°22'52", Montgomery County, at bridge on State Highway 5, at Fonda.		1966-67 1971 1975	8- 4-76	53.6
01349855 ^{c/} Silver Lake Outlet Tributary	Batavia Kill	Lat 42°19'06", long 74°11'45", Greene County, at culvert on road 0.9 mi (1.4 km) upstream from mouth and 1.2 mi (1.9 km) northeast of Brooksborg.	0.90		5-29-75 6-30-75 7-29-75 8-25-75 9-30-75	.86 .22 .10 .18 1.3
01354135 Bunn Creek	North Chuctanunda Creek	Lat 42°58'16", long 74°10'56", Montgomery County, 100 ft (30 m) downstream from bridge on road between Collins Corners and Wallace Corners, 0.3 mi (0.5 km) east of State Highway 30, 0.7 mi (1.2 km) north of Amsterdam city boundary.			8- 9-76	*1.65
01355420 Alplaus Kill	Mohawk River	Lat 42°52'01", long 73°54'12", Saratoga County, at bridge on Glenridge Road, 0.15 mi (0.3 km) southeast of Glenridge, 0.8 mi (1.3 km) north of Alplaus, and 1.1 mi (1.8 km) upstream from mouth.	54.3	1952-53 1964	8- 9-76	11
†01358080 Hudson River Tributary No. 36	Hudson River	Lat 42°44'27", long 73°43'08", Albany County, 50 ft (15 m) downstream from Watervliet flood-control reservoir, and 0.4 mi (0.6 km) north of Watervliet.	2.48	1975	10-19-75	18
01359643 Moordener Kill	Hudson River	Lat 42°33'27", long 73°39'30", Rensselaer County, at bridge on State Highway 150, 1.3 mi (2.1 km) west of East Schodack.			6- 3-75 9- 3-75	13 5.0
01368495 Indigot Creek Tributary	Indigot Creek	Lat 41°25'16", long 74°31'08", Orange County, at bridge on Manning Road (Town of Mount Hope, Route 12), 1.3 mi (2.1 km) upstream from mouth, and 1.6 mi (2.6 km) south of Mount Hope.	5.78	1973-75	10- 8-75 11- 5-75 12- 8-75	1.6 3.8 5.1
01368705 Wickham Lake Tributary	Wickham Lake	Lat 41°17'38", long 74°17'33", Orange County, at bridge on Kings Highway, at Lake, 0.6 mi (1.0 km) upstream from mouth, and 4.2 mi (6.8 km) northeast of Warwick.	.68	1971-75	10-16-75 12- 1-75 7-23-76	.68 1.8 0
†01368713 Wawayanda Creek	Pochuck Creek	Lat 41°16'44", long 74°18'20", Orange County, at bridge on State School Road, at Durland, 0.1 mi (0.2 km) downstream from Wickham Lake, and 2.5 mi (4.0 km) northeast of Warwick.	5.15	1967 1971-75	10-16-75 12- 1-75 7-23-76	7.2 13 1.6
01368722 Long House Creek	Wawayanda Creek	Lat 41°12'53", long 74°20'02", Orange County, at bridge on Cascade Road, 1.0 mi (1.6 km) downstream from Cascade Lake, and 3.0 mi (4.8 km) southwest of Bellvale.	8.35	1973-75	10-16-75 12- 3-75 7-26-76	8.6 14 2.9
†01368724 Long House Creek	Wawayanda Creek	Lat 41°15'10", long 74°18'30", Orange County, at bridge on Iron Forge Road, at Bellvale, and 1.9 mi (3.1 km) upstream from mouth.	11.8	1971-75	10-16-75 12- 3-75 7-26-76	12 22 4.4

* Base flow.

† Operated as a crest-stage partial-record station.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Hudson River basin--Continued						
01368740 Warwick Reservoir Outlet Tributary	Warwick Reservoir Outlet	Lat 41°14'31", long 74°21'14", Orange County, at bridge on Ball Road, 0.5 mi (0.8 km) upstream from mouth, and 1.0 mi (1.6 km) from Warwick.	0.56	1971-75	10-14-75 12- 1-75 7-23-76	1.3 1.6 *.23
01368760 Wawayanda Creek Tributary	Wawayanda Creek	Lat 41°14'34", long 74°22'18", Orange County, at bridge on State Highway 94 (New Milford Road), 0.8 mi (1.3 km) upstream from mouth, and 1.2 mi (1.9 km) southwest of Warwick.	2.96	1971-75	10-14-75 12- 1-75 7-23-76	2.6 6.0 *.58
†01368810 Wawayanda Creek	Pochuck Creek	Lat 41°14'18", long 74°25'03", Orange County, at bridge on Ryerson Road at New Milford, and 0.2 mi (0.3 km) upstream from Double Kill.	45.0	1971-75	10-14-75 12- 3-75 7-23-76	66 88 *16
01368840 Double Kill	Wawayanda Creek	Lat 41°14'10", long 74°24'58", Orange County, at bridge on Ryerson Road, at New Milford, and 0.3 mi (0.5 km) upstream from mouth.	15.6	1971-75	10-14-75 12- 3-75 7-23-76	27 36 8.8
01369650 Stony Creek	Wheeler Creek	Lat 41°18'06", long 74°23'14", Orange County, at bridge on Union Corners Road, 0.7 mi (1.1 km) upstream from mouth, and 2.6 mi (4.2 km) southwest of Florida.	2.62	1971-75	10-14-75 12- 1-75 7-23-76	4.2 7.7 *.36
01369695 Coleman Ditch	Wallkill River (Black Walnut Creek Channel)	Lat 41°17'37", long 74°26'10", Orange County, at bridge on Little York Road, 0.4 mi (0.6 km) upstream from mouth, and 1.4 mi (2.2 km) east of Pine Island.	1.60	1971-75	10-14-75 12- 1-75 7-23-76	2.9 4.8 *.42
01370740 Wallkill River	Hudson River	Lat 41°33'50", long 74°11'37", Orange County, at bridge on village road in Walden.		1972	8-24-76	*184
01370836 Dwaar Kill	Wallkill River	Lat 41°35'14", long 74°16'04", Orange County, at bridge on Hill Ave., 2.3 mi (3.7 km) southeast of Pine Bush, and 2.8 mi (4.5 km) northeast of Searsville.	12.8	1973-75	10- 6-75 11- 5-75 12- 8-75	6.9 16 20
01372667 Fishkill Creek	Hudson River	Lat 41°35'08", long 73°44'46", Dutchess County, at bridge on Phillips Road, 1.0 mi (1.6 km) north of Stormville, and 1.2 mi (1.9 km) downstream from Frog Hollow Brook.			9- 8-76	32
01372915 Fishkill Creek	Hudson River	Lat 41°31'55", long 73°53'41", Dutchess County, at bridge on State Highway 9 in Fishkill, and 0.9 mi (1.4 km) upstream from Clove Creek.		1973	9- 7-76	*84
01373518 Black Meadow Creek	Otter Kill	Lat 41°19'59", long 74°19'10", Orange County, at bridge on Sugar Loaf-Florida Road (Pine Hills Road), 0.8 mi (1.3 km) downstream from unnamed trib- utary, and 2.0 mi (3.2 km) east of Florida.	3.47	1971-75	10-14-75 12- 1-75 7-23-76	3.8 8.1 *.18
01373580 Trout Brook	Seely Brook	Lat 41°16'36", long 74°15'01", Orange County, at bridge on Lake Road, about 2.5 mi (4.0 km) south- west of Walton Park.	2.39	1964 1971-75	10-16-75 12- 3-75 7-26-76	1.9 5.3 *1.0
01374099 ^{c/} Annsville Creek	Hudson River	Lat 41°19'05", long 73°55'50", Westchester County, 100 ft (30 m) downstream from U.S. Highway 9, 400 ft (121 m) upstream from Wallace Pond, and 0.9 mi (1.4 km) north of Peekskill.	3.59		8- 5-76	.59

* Base flow.

† Operated as a crest-stage partial-record station.

c Water-quality data included in this report.

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Hudson River basin--Continued						
01374260 ^{c/} Barger Brook	Shrub Oak Brook	Lat 41°19'53", long 73°49'15", Westchester County, at culvert on U.S. Highway 6 (GAR Highway) in Shrub Oak, 0.1 mi (0.2 km) upstream from mouth.	2.39		8- 6-76	*0.46
01374268 ^{c/} Shrub Oak Brook	Peekskill Hollow Creek	Lat 41°20'03", long 73°49'34", Westchester County, at end of town road (Sunnyside Street) in Shrub Oak, 0.5 mi (0.8 km) down- stream from Barger Brook.	7.85		8- 6-76	*2.1
01374290 ^{c/} Peekskill Hollow Creek	Hudson River	Lat 41°19'45", long 73°53'02", Westchester County, 300 ft (91 m) downstream from end of town highway (Sherwood Ave.), 0.3 mi (0.5 km) downstream from Putnam-Westchester County line, and 1.9 mi (3.0 km) northeast of Peekskill.	42.0		6-28-76 8- 5-76	*17 *14
01374390 ^{c/} Furnace Brook	Hudson River	Lat 41°14'22", long 73°53'55", Westchester County, 100 ft (30 m) downstream from bridge on Washington Street, 0.2 mi (0.3 km) upstream from Furnace Brook Lake, and 2.4 mi (3.9 km) southeast of Peekskill.	5.45		8- 4-76	*.77
01374398 ^{c/} Furnace Brook	Hudson River	Lat 41°13'51", long 73°54'24", Westchester County, at bridge on Furnace Dock Road, 0.1 mi (0.2 km) northeast of North Riverside Ave., 0.3 mi (0.5 km) downstream from Furnace Brook Lake, and 1.6 mi (2.6 km) north- east of Croton-on-Hudson.	7.21		8- 4-76	*.94
01374545 ^{c/} East Branch Croton River	Croton River	Lat 41°21'25", long 73°39'22", Putnam County, 300 ft (90 m) upstream from private bridge, 0.6 mi (1.0 km) northeast of Croton Falls, and 1.0 mi (1.6 km) upstream from confluence with West Branch.	119		8- 5-76	*56
01374705 ^{c/} West Branch Croton River	Croton River	Lat 41°20'55", long 73°40'03", Westchester County, at bridge on U.S. Highway 202 and State High- way 100, 0.3 mi (0.5 km) east of Croton Falls, 0.2 mi (0.3 km) up- stream from confluence with East Branch Croton River, and 0.9 mi (1.4 km) downstream from Croton Falls Reservoir.	54.3		8- 5-76	*66
01374780 ^{c/} Titicus River	Croton River	Lat 41°19'32", long 73°35'27", Westchester County, at bridge on State Highway 124, 0.4 mi (0.6 km) southeast of Salem Center.	12.4	1974	6-28-76 8- 5-76	4.2 *4.0
01374788 ^{c/} Crook Brook	Titicus River	Lat 41°19'24", long 73°35'51", Westchester County, at bridge on road (Quaker Hill Road) between Turkey Hill Road and State Highway 124, 0.2 mi (0.3 km) upstream from Titicus River, and 0.4 mi (0.6 km) south of Salem Center.	3.88		8- 5-76	*.66
01374830 ^{c/} Croton River Tributary	Croton River	Lat 41°18'16", long 73°40'16", Westchester County, at bridge on State Highway 22, 100 ft (30 m) downstream from small pond, 0.3 mi (0.5 km) upstream from mouth, and 0.8 mi (1.3 km) northeast of Goldens Bridge.	3.62		8- 5-76	*.85
01374840 ^{c/} Muscoot Reservoir Tributary	Muscoot Reservoir	Lat 41°19'37", long 73°41'36", Westchester County, at culvert on U.S. Highway 202, 100 ft (31 m) west of Warren Street, and 0.4 mi (0.6 km) west of Somers.	2.14		8- 5-76	*.39

* Base flow.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Hudson River basin--Continued						
01374860 Plum Brook	Muscoot Reservoir	Lat 41°19'20", long 73°42'42", Westchester County, at bridge on Brick Hill Road in Lincolndale, and 1.4 mi (2.2 km) upstream from Muscoot Reservoir.	5.81		8- 5-76	*1.2
01374880 Waccabuc River	Cross River	Lat 41°15'29", long 73°33'59", Westchester County, on Ward Pound Ridge Reservation, at mouth, 100 ft (30 m) downstream from highway bridge on Boutonville Road, 300 ft (90 m) west of State Highway 124, and 0.1 mi (0.2 km) north of Boutonville.	10.6		7- 7-76 8- 4-76	*4.3 *7.0
01374890 Cross River	Hudson River	Lat 41°15'37", long 73°36'09", Westchester County, at bridge in Ward Pound Ridge Reservation, 0.7 mi (1.1 km) upstream from Cross River Reservoir, and 0.7 mi (1.1 km) east of Cross River.	17.1		6-28-76 8- 5-76	*5.4 *8.8
01374908 Stone Hill River	Muscoot Reservoir	Lat 41°12'57", long 73°37'57", Westchester County, at bridge on State Highway 121 (Old Post Road), 1.0 mi (1.6 km) northeast of State Highway 22 (Cantitoe St.), and 1.0 mi (1.6 km) northeast of Bedford.	7.55		7- 7-76 8- 4-76	*2.7 *2.8
01374917 Broad Brook	Stone Hill River	Lat 41°15'54", long 73°40'14", Westchester County, 150 ft (46 m) upstream from mouth, 0.2 mi (0.3 km) north of Beaver Dam Road, and 1.1 mi (1.8 km) southeast of Katonah.	5.30		8- 5-76	*2.5
01374919 Stone Hill River	Muscoot Reservoir	Lat 41°15'06", long 73°40'35", Westchester County, at bridge on Saw Mill River Parkway, 500 ft (152 m) downstream from bridge on Interstate 684, 0.3 mi (0.5 km) upstream from Muscoot Reservoir, and 0.7 mi (1.1 km) southeast of Katonah.	19.6		7- 6-76 8- 5-76	*9.5 *8.5
01374930 Muscoot River	Croton River	Lat 41°20'17", long 73°46'09", Westchester County, at bridge on U.S. Highway 6 (GAR Highway) 0.4 mi (0.6 km) downstream from Putnam-Westchester County line, and 0.7 mi (1.1 km) southwest of Baldwin Place.	13.5		6-28-76 8- 6-76	*2.5 *1.8
01374937 Lake Shenorock Outlet	Amawalk Reservoir	Lat 41°19'37", long 73°44'22", Westchester County, at outlet of Lake Shenorock, in Shenorock.	1.08		8- 4-76	*1.3
01374942 Muscoot River	Muscoot Reservoir	Lat 41°17'00", long 73°45'08", Westchester County, 200 ft (60 m) upstream from Hallocks Mill Brook, 0.1 mi (0.2 km) west of State Highway 35, 0.3 mi (0.5 km) downstream from Amawalk Reservoir, and 1.1 mi (1.8 km) southwest of Amawalk.	19.9		7- 6-76 7-19-76 7-21-76	*19 *19 *21
01374948 Crum Pond Outlet	Muscoot River	Lat 41°16'52", long 73°47'35", Westchester County, 25 ft (8 m) downstream from culvert on U.S. Highway 202, State Highway 35 (Crumpond Road), and 0.8 mi (1.2 km) northeast of Yorktown Heights.	3.88		8- 4-76	*1.8
01374960 Hallocks Mill Brook	Muscoot River	Lat 41°17'04", long 73°46'28", Westchester County, at bridge on town highway (Greenwood Street), 0.8 mi (1.3 km) northeast of Yorktown Heights.	10.4		7- 6-76 7-19-76 7-21-76	*8.2 *3.8 *3.1

* Base flow.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Hudson River basin--Continued						
01374963 Hallocks Mill Brook	Muscoot River	Lat 41°17'08", long 73°45'58", Westchester County, at bridge on town highway (Pine Bridges Road) in Amawalk, and 1.0 mi (1.6 km) upstream from Muscoot River.	11.4		7-19-76 7-21-76	*5.0 *3.8
01374965 Hallocks Mill Brook	Muscoot River	Lat 41°17'00", long 73°45'09", Westchester County, 50 ft (15 m) upstream from Muscoot River, and 1.0 mi (1.6 km) southeast of Amawalk.	11.9		7- 6-76 7-19-76 7-20-76	*11 *5.9 *5.0
01374970 Muscoot River	Croton River	Lat 41°16'20", long 73°44'46", Westchester County, at bridge on Wood Street, 1.1 mi (1.8 km) downstream from Hallocks Mill Brook, 1.6 mi (2.6 km) southeast of Amawalk.	32.6		7- 6-76 7-19-76 7-21-76	*33 *27 *28
01374976 c/ Angle Fly Brook	Muscoot Reservoir	Lat 41°16'57", long 73°43'33", Westchester County, at bridge on State Highway 35, 0.6 mi (1.0 km) upstream from Muscoot Reservoir, and 1.0 mi (1.6 km) northwest of Whitehall Corners.	3.01		8- 4-76	*.40
01374983 c/ Kisco River	New Croton Reservoir	Lat 41°11'40", long 73°44'00", Westchester County, at bridge, 0.2 mi (0.3 km) upstream from sewage treatment plant in Mount Kisco.	6.06	1974	7- 7-76 8- 4-76	*5.1 *2.3
01374987 c/ Kisco River	New Croton Reservoir	Lat 41°13'43", long 73°44'39", Westchester County, at bridge on road off Pines Branch Road, 0.3 mi (0.5 km) from mouth at New Croton Reservoir, and 0.8 mi (1.3 km) northwest of Mount Kisco.	17.6	1974	7- 7-76 8- 4-76	*9.0 *6.6
01374988 c/ Gedney Brook	New Croton Reservoir	Lat 41°12'52", long 73°46'16", Westchester County, at bridge on Seven Bridges Road, 0.1 mi (0.2 km) upstream of New Croton Reservoir, and 1.6 mi (2.6 km) west of Mt. Kisco.	2.01		8- 4-76	*.67
01374992 Hunter Brook	New Croton Reservoir	Lat 41°17'29", long 73°49'59", Westchester County, at culvert on Stoney Street, 200 ft (60 m) north of U.S. Highway 202-State Highway 35 (Crumpond Road), 0.5 mi (0.8 km) upstream from Mill Pond, and 1.3 mi (2.1 km) southwest of Yorktown.	2.49		8- 4-76	*.47
01374993 c/ Hunter Brook	New Croton Reservoir	Lat 41°16'48", long 73°50'03", Westchester County, at bridge on White Hall Road, 0.1 mi (0.2 km) downstream from Mill Pond, and 1.7 mi (2.7 km) southwest of Yorktown.	5.82		7- 6-76 8- 4-76	*3.0 1.5
0137626925 Sparkill Creek	Hudson River	Lat 41°03'04", long 73°56'46", Rockland County, at bridge on U.S. Highway 303, at Orangeburg, 1.0 mi (1.6 km) north of Palisades Parkway Interchange No. 5, 2.6 mi (4.2 km) upstream from former gage (01376270) at Tappan, and 3.6 mi (5.8 km) upstream from Sparkill Brook tributary.			6-24-76 7-22-76 8-10-76 9-29-76	1.2 1.3 25 1.4
01376270 c/ Sparkill Creek	Hudson River	Lat 41°01'26", long 72°56'52", Rockland County, on left bank, 100 ft (30 m) downstream from Kings Highway bridge, at Tappan, 0.5 mi (0.8 km) upstream from New York-New Jersey State line, and 1 mi (1.6 km) upstream from Sparkill Brook.	4.94		6-23-76 7-27-76 8-10-76 9-29-76	2.7 2.6 68 2.4

* Base flow.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Hackensack River basin						
†01376570 New City Brook	Hackensack River	Lat 41°10'09", long 73°58'46", Rockland County, at bridge on road north of Christie Airport, 0.5 mi (0.8 km) east of Zukor Road, 0.8 mi (1.3 km) upstream from mouth, and 1.1 mi (1.8 km) north of New City.	5.51	1972-75	10- 3-75 10- 3-75 10-29-75 12- 9-75 1-15-76	7.0 6.8 8.1 7.6 11
†01377180 Pascack Brook	Hackensack River	Lat 41°06'45", long 74°02'00", Rockland County, on road to Orange and Rockland Utilities substation, and 0.7 mi (1.1 km) east of Spring Valley.	2.13	1972-75	10- 2-75 10-29-75 12- 9-75 1-15-76	1.3 1.1 1.2 2.8
Delaware River basin						
01421200 Cadosia Creek	East Branch Delaware River	Lat 41°58'03", long 75°15'51", Delaware County, at bridge on State Highway 236, 0.3 mi (0.5 km) upstream from mouth, at Cadosia.	17.7	1949-50 1955 1957-71 1973	5-13-76 5-27-76 6-25-76 8- 5-76	27 30 11 24
01425665 Oquaga Creek	West Branch Delaware River	Lat 42°11'06", long 75°25'27", Broome County, at bridge on North Sanford Road, 0.3 mi (0.5 km) upstream from small tributary, 0.5 mi (0.8 km) west of Arctic, 1.3 mi (2.1 km) up- stream from gaging station near North Sanford, and 2.6 mi (4.2 km) northeast of North Sanford.	1.15	1971-74	8-21-74 9-19-74 10-31-74 11- 8-74 11-13-74 12-11-74 2- 5-75 2-20-75 3-25-75 4-16-75 5-21-75 6-26-75 7-31-75 8-20-75 9-17-75 10- 1-75 3-18-76 4- 8-76 5- 5-76 6- 8-76 7- 7-76 8-24-76 9-21-76	T .12 .36 2.2 9.2 3.4 1.2 1.0 5.4 1.4 .90 .22 .13 .52 7.9 2.1 1.3 1.3 2.5 1.7 .65 .40 .39
01425670 Oquaga Creek Tributary	Oquaga Creek	Lat 42°10'56", long 75°25'16", Broome County, 0.2 mi (0.3 km) upstream from mouth, 0.4 mi (0.6 km) southwest of Arctic, 0.4 mi (0.6 km) downstream from bridge on East Afton Road, and 2.5 mi (4.0 km) northwest of North Sanford.	2.37	1969-74	9-19-74 10-31-74 11- 8-74 11-13-74 12-11-74 2- 5-75 2-20-75 3-25-75 4-16-75 5-21-75 6-26-75 7-31-75 8-20-75 9-17-75 10- 1-75 3-18-76 4- 8-76 5- 5-76 6- 8-76 7- 7-76 8-24-76 9-21-76	.26 .69 4.1 16 6.2 3.5 1.8 14 3.6 2.4 .72 .63 1.1 1.9 4.5 2.5 3.9 6.0 5.8 1.5 .80 1.2
01425992 ^{c/} Bone Creek	Oquaga Creek	Lat 42°03'41", long 75°26'10", Broome County, 45 ft (14 m) west of Shaver Hill Road, 0.3 mi (0.5 km) west of Deposit, and 0.5 mi (0.8 km) upstream from mouth.	1.37		5-23-75 6-25-75 7-30-75 8-21-75 9-16-75 10- 1-75	1.1 .23 .05 .32 .58 2.3

† Operated as a crest-stage partial-record station.

c Water-quality data included in this report.

T Trace.

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Date	Discharge (ft ³ /s)
Delaware River basin--Continued						
01426000 ^{c/} Oquaga Creek	West Branch Delaware River	Lat 42°03'35", long 75°25'40", Broome County, on left bank, 200 ft (60 m) upstream from washed-out dam at rear of Delaware Mills, 400 ft (120 m) upstream from Mill Street Bridge in Deposit, and 0.3 mi (0.5 km) upstream from mouth.	66	1941-73†	5-22-75 5-22-75 6-25-75 6-30-75 8-21-75 9-17-75 10- 2-75	62.9 64.5 23.9 9.70 22.4 39.9 120
01436560 Neversink River	Delaware River	Lat 41°40'39", long 74°35'55", Sullivan County, at bridge on town road, 1.9 mi (3.1 km) upstream from Sheldrake Stream, and 1.5 mi (2.4 km) northeast of Thompsonville.			9-15-76	51
01436800 Bush Kill	Neversink River	Lat 41°30'34", long 74°39'20", Sullivan County, at timber bridge on dirt road, 0.4 mi (0.6 km) northwest of Oakland Valley.	19.5	1957-73 1975	4-15-76 5-28-76 6-26-76 7-20-76 9-22-76	28 33 16 12 16
01437000 Neversink River	Delaware River	Lat 41°29'43", long 74°38'47", Orange County, on right bank, 250 ft (76 m) downstream from road bridge known as Paradise Bridge, 0.7 mi (1.1 km) downstream from Oakland Valley and Bush Kill Creek, and 3.5 mi (5.6 km) northwest of Cuddebackville.	227		6-30-76 9-15-76	130 106
01437025 Neversink River	Delaware River	Lat 41°27'20", long 74°36'02", Orange County, at bridge on U.S. Highway 209, 0.6 mi (1.0 km) upstream from Basher Kill, and 0.7 mi (1.1 km) south of Cuddebackville.			9-14-76	125
Susquehanna River basin						
†01496363 Ocquionis Creek	Canadarago Lake	Lat 42°51'13", long 74°59'30", Otsego County, at bridge on River Street in Richfield Springs, and 1.4 mi (2.3 km) upstream from mouth.	20.0	1963-64 1968-75	10-28-75 11-24-75 2-25-76 5-25-76 6-24-76 7-28-76 8-30-76	*35 63 155 84 24 10 11
†01496370 Mink Creek	Canadarago Lake	Lat 42°50'55", long 75°00'10", Otsego County, at bridge on State Highway 28, 0.4 mi (0.6 km) southwest of Richfield Springs, and 1.0 mi (1.6 km) upstream from mouth.	10.4	1963 1968-73 1975	10-28-75 11-24-75 5- 3-76 5-25-76 6-24-76 7-28-76 8-30-76	*19 29 44 34 14 7.0 *10
†01496390 Hyder Creek	Canadarago Lake	Lat 42°49'00", long 75°01'12", Otsego County, at bridge on State Highway 28, 0.4 mi (0.6 km) upstream from mouth, and 3.0 mi (4.8 km) southwest of Richfield Springs.	9.52	1963 1968-75	10-28-75 11-24-75 5- 3-76 5-25-76 6-24-76 7-28-76 8-30-76	*15 25 52 27 16 4.7 *7.3
†01496448 Herkimer Creek	Canadarago Lake	Lat 42°47'19", long 75°01'31", Otsego County, at bridge on State Highway 28, 0.5 mi (0.8 km) upstream from mouth, and 0.6 mi (1.0 km) north of Schuyler Lake.	12.6	1963 1968-75	10-28-75 11-24-75 2-25-76 5- 3-76 5-25-76 6-24-76 7-28-76 8-30-76	*21 30 54 142 322 20 5.3 *6.2
01496451 Oaks Creek	Susquehanna River	Lat 42°46'52", long 75°01'04", Otsego County, at bridge on County Highway 22, 0.5 mi (0.8 km) east of Schuyler Lake, and 1 mi (1.6 km) downstream from Canadarago Lake.	65		10-26-74 4-19-75 7- 2-75 9-16-75 11-20-75 2-25-76 6-24-76	21 299 16 22 145 596 180

* Base flow.

† Operated as a crest-stage partial-record station.

‡ Operated as a continuous-record gaging station.

c Water-quality data included in this report.

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Susquehanna River basin--Continued						
01498800 Lake Brook	Otego Creek	Lat 42°34'32", long 75°07'35", Otsego County, Hydrologic Unit 02050101, at bridge on park road, 800 ft (240 m) downstream from Gilbert Lake, and 3.5 mi (5.6 km) northwest of Laurens.			9- 9-76	0
01501004 ^{c/} Mill Brook	Unadilla River	Lat 42°38'13", long 75°21'07", Chenango County, at culvert on Sherburne Turnpike, 0.5 mi (0.8 km) northwest of New Berlin, and 1.6 mi (2.6 km) upstream from mouth.			5-19-75 6-19-75 7-14-75 8-12-75 9-18-75 10-23-75 6-22-76 7-13-76 8- 4-76 9- 9-76 10- 6-76	3.1 *.48 *.25 *.06 *.53 4.3 2.1 2.5 *.36 *.79 *1.0
01501008 ^{c/} Mill Brook Tributary	Mill Brook	Lat 42°37'34", long 75°21'06", Chenango County, at culvert on town highway, 0.4 mi (0.6 km) west of New Berlin, and 0.7 mi (1.1 km) upstream from mouth.			5-19-75 6-19-75 7-14-75 8- 1-75 9-18-75 10-23-75 6-22-76 7-13-76 8- 4-76 9- 9-76 10- 6-76	2.9 *.60 *.63 *.19 *.61 4.7 *1.9 3.6 *.71 *1.1 *1.0
01505050 ^{c/} Canasawacta Creek	Chenango River	Lat 42°36'36", long 75°39'41", Chenango County, 50 ft (15 m) southwest of State Highway 23, 0.3 mi (0.5 km) southeast of Gibson Road, 0.5 mi (0.8 km) downstream from Cole Brook, and 2.1 mi (3.4 km) east of North Pharsalia.			6-23-76 7-14-76 8- 4-76 9- 8-76 10- 5-76	27 52 4.0 4.2 *8.9
01505125 ^{c/} East Branch Canasawacta Creek	Canasawacta Creek	Lat 42°38'20", long 75°38'05", Chenango County, 200 ft (61 m) west of highway from Otselic Center to Plymouth, 1.0 mi (1.6 km) upstream from Hawley Brook, and 2.2 mi (3.5 km) northwest of Plymouth.			6-23-76 7-14-76 8- 4-76 9- 8-76 10- 5-76	*1.8 19 *2.8 *7.8 *8.8
01505500 ^{c/} Canasawacta Creek	Chenango River	Lat 42°33'50", long 75°33'10", Chenango County, on right bank, 1.4 mi (2.2 km) southeast of South Plymouth, 2 mi (3.2 km) northwest of Norwich, 2.8 mi (4.4 km) downstream from East Branch, and 4.2 mi (6.7 km) upstream from mouth.	57.9	1946-74†	10-18-74 12-13-74 3- 1-75 6- 3-75 6-26-75 9-23-75 6-23-76 9- 8-76	30 174 195 21 7.6 54 93 *28
†01507000 Chenango River	Susquehanna River	Lat 42°19'28", long 75°46'18", Chenango County, on left bank 1,700 ft (520 m) downstream from bridge on State Highway 206 at Greene, and 0.6 mi (1.0 km) downstream from Birdsall Creek.	593	1937-70‡ 1970-75	3-26-76	1,730
01507910 Tioughnioga Creek	East Branch Tioughnioga River	Lat 42°45'04", long 75°56'45", Cortland County, at highway bridge, 1.0 mi (1.6 km) north of Cuyler, and 1.0 mi (1.6 km) upstream from confluence with West Branch Tioughnioga Creek.	43.6	1973 1975	10- 2-75 9-30-76	152 *20
01508800 ^{c/} Factory Brook	West Branch Tioughnioga River	Lat 42°38'36", long 76°11'19", Cortland County, at bridge on State Highway 281, at Homer, and about 0.9 mi (1.4 km) upstream from mouth.	15.8	1962-66 1970 1972-73	10- 7-75 1-21-76 4- 6-76 8- 3-76	20 13 34 *16
01508907 Dry Creek	West Branch Tioughnioga River	Lat 42°36'08", long 76°12'52", Cortland County, 10 ft (3 m) upstream from Blue Creek, 0.3 mi (0.5 km) downstream from Kinney Gulf Road, and 0.7 mi (1.1 km) west of Cortland.			12- 1-75	*6.0

* Base flow.

† Operated as a crest-stage partial-record station.

‡ Operated as a continuous-record gaging station.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Susquehanna River basin--Continued						
01508918 ^{s/} Dry Creek	West Branch Tioughnioga River	Lat 42°35'58", long 76°12'14", Cortland County, at culvert on State Highway 281, 1.3 mi (2.1 km) upstream from mouth, and 0.2 mi (0.3 km) west of Cortland.	8.42		5-20-75 12- 2-75 1-14-76 9- 9-76	7.1 10 8.4 *.87
01508932 ^{s/} Dry Creek	West Branch Tioughnioga River	Lat 42°36'34", long 76°10'54", Cortland County, in Cortland, 100 ft (30 m) upstream from mouth.	8.78		12- 2-75 1-14-76 2-25-76 3- 4-76 6-18-76 9- 9-76	8.2 5.9 34 85 *3.5 *.02
015089321 Otter Creek	West Branch Tioughnioga River	Lat 42°33'56", long 76°09'58", Cortland County, at culvert on Blodgett Mills Road, 0.5 mi (0.8 km) east of Page Green Road, 1.5 mi (2.4 km) south of Cortland, 2.1 mi (3.4 km) west of Blodgett Mills, and 7.6 mi (12.2 km) up- stream from mouth.			8-15-75	0
01508933 Otter Creek	West Branch Tioughnioga River	Lat 42°33'44", long 75°10'33", Cortland County, at culvert on Page Green Road, 1.7 mi (2.7 km) south of Cortland, and 6.9 mi (11 km) upstream from the mouth.			8-15-75	e*.01
01508934 Otter Creek Tributary No. 2	Otter Creek	Lat 42°33'18", long 76°10'32", Cortland County, at culvert on Page Green Road, 700 ft (200 m) south of Ely Road, 0.7 mi (1.1 km) upstream from the mouth, and 2.2 mi (3.5 km) south of Cortland.			8-15-75	0
015089347 Otter Creek Tributary No. 3	Otter Creek	Lat 42°33'24", long 76°11'04", Cortland County, at culvert on Ely Road, 1,000 ft (300 m) east of State Highway 90, 0.2 mi (0.3 km) upstream from the mouth, and 2.1 mi (3.4 km) south of Cortland.			8-15-75	0
01508935 ^{s/} Otter Creek	West Branch Tioughnioga River	Lat 42°33'38", long 76°11'27", Cortland County, at culvert on State Highway 90, 0.2 mi (0.3 km) north of Gallagher Road, 0.4 mi (0.6 km) south of Bennie Road, 1.8 mi (2.9 km) south of Cortland, and 6.0 mi (9.7 km) upstream from mouth.	1.98		8-15-75 12- 1-75 9-30-76	e*.10 *2.2 *.62
015089354 Otter Creek Tributary No. 4	Otter Creek	Lat 42°33'26", long 76°11'57", Cortland County, at culvert on Gallagher Road, 0.4 mi (0.6 km) upstream from mouth, 0.5 mi (0.8 km) west of State Highway 90, and 2.0 mi (3.2 km) south of Cortland.			8-15-75	e*.04
015089356 Otter Creek Tributary No. 7	Otter Creek	Lat 42°32'40", long 76°14'13", Cortland County, at culvert on Webb Road at Nye Road, 800 ft (243 m) southeast of Sherman Road, 0.6 mi (1.0 km) southeast of State Highway 13, and 1.6 mi (2.6 km) southwest of South Cortland.			8-15-75	e*.005
015089362 Otter Creek Tributary No. 6	Otter Creek	Lat 42°33'24", long 76°13'38", Cortland County, at culvert on dirt road at gravel pit, 0.4 mi (0.6 km) southeast of State Highway 13, 0.5 mi (0.3 km) southwest of South Cortland, and 2.5 mi (4.0 km) southwest of Cortland.			8-15-75	e.11

* Base flow.

e Estimated.

s Seepage investigation included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Susquehanna River basin--Continued						
015089365 Otter Creek Tributary No. 5	Otter Creek	Lat 42°33'38", long 76°13'02", Cortland County, at culvert on Gallagher Road, 0.4 mi (0.6 km) southeast of State Highway 13, and 1.0 mi (1.6 km) southwest of Cortland.			8-15-75	*0.21
01508937 ^{s/} Otter Creek	West Branch Tioughnioga River	Lat 42°33'53", long 76°13'04", Cortland County, at bridge on town road, 0.2 mi (0.3 km) east of South Cortland, 0.9 mi (1.4 km) upstream from State Highway 13.	6.51		12- 1-75 9-30-76	*2.4 0
015089378 Otter Creek	West Branch Tioughnioga River	Lat 42°34'41", long 76°12'47", Cortland County, at bridge on State Highway 13, 0.3 mi (0.5 km) southwest of Munsons Corners, 0.9 mi (1.4 km) southwest of Cortland, and 3.6 mi (5.8 km) upstream from the mouth.			8-15-75	0
01508938 ^{s/} Otter Creek	West Branch Tioughnioga River	Lat 42°34'46", long 76°12'53", Cortland County, at bridge on State Highway 281, 0.3 mi (0.5 km) north of State Highway 13, and 0.9 mi (1.4 km) southwest of Cortland.	7.34		12- 1-75 9-30-76	0 0
01508940 ^{s/} Otter Creek	West Branch Tioughnioga River	Lat 42°34'56", long 76°13'07", Cortland County, at culvert on Cortland Road, 0.2 mi (0.3 km) west of State Highway 281, 1.1 mi (1.8 km) southwest of Cortland, and 3.1 mi (5.0 km) upstream from mouth.	8.98	1972 1974-75	12- 1-75 3- 3-76 6-17-76 7- 6-76 9- 9-76 9-30-76	4.1 119 6.4 *6.3 *.77 0
015089432 Otter Creek Tributary No. 2	Otter Creek	Lat 42°33'24", long 76°10'43", Cortland County, at culvert on Ely Road, 800 ft (240 m) west of Page Green Road, 0.4 mi (0.6 km) upstream from the mouth, and 2.1 mi (3.4 km) south of Cortland.			8-15-75	e*.02
01508945 ^{s/} Otter Creek Tributary	Otter Creek	Lat 42°35'30", long 76°14'20", Cortland County, on Sears Road, 0.2 mi (0.3 km) northwest of State Highway 222, and 2.0 mi (3.2 km) west of Cortland.	2.58	1972 1974-75	12- 1-75	*.84
01508948 ^{s/} Otter Creek Tributary	Otter Creek	Lat 42°35'15", long 76°13'25", Cortland County, at culvert on Fairview Drive, 0.2 mi (0.3 km) south of State Highway 222, 0.4 mi (0.6 km) upstream from the mouth, and 1.3 mi (2.1 km) west of Cortland.		1972 1974	8-31-73 5-20-75 8-15-75 12- 1-75 3- 4-76	0 *.46 0 *.01 1.61
01508949 Otter Creek	West Branch Tioughnioga River	Lat 42°35'08", long 76°13'10", Cortland County, at culvert on town road, 800 ft (240 m) upstream from mouth, and 0.4 mi (0.6 km) northwest of intersec- tion of State Highway 281 and Cortland Road.	3.21		12- 3-75	0
01508951 ^{s/} Otter Creek	West Branch Tioughnioga River	Lat 42°35'30", long 76°12'32", Cortland County, at bridge on State Highway 281, 0.5 mi (0.8 km) west of Cortland, and 2.1 mi (3.4 km) upstream from the mouth.		1972-74	5-20-75 12- 1-75 9-30-76	9.9 3.8 0
01508952 Otter Creek	West Branch Tioughnioga River	Lat 42°35'45", long 76°11'53", Cortland County, 0.7 mi (1.1 km) downstream from bridge on State Highway 281 at Cortland, and 0.6 mi (1.0 km) upstream from bridge on Groton Avenue, at Cortland.			2-13-76	4.5

* Base flow.

e Estimated.

s Seepage investigation included in this report.

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Susquehanna River basin--Continued						
01508953 Otter Creek	West Branch Tioughnioga River	Lat 42°35'50", long 76°11'45", Cortland County, 0.9 mi (1.4 km) downstream from bridge on State Highway 281 at Cortland, and 0.4 mi (0.6 km) upstream from bridge at Groton Avenue, at Cortland.			2-13-76	5.3
01508954 Otter Creek	West Branch Tioughnioga River	Lat 42°35'55", long 76°11'38", Cortland County, 400 ft (120 m) downstream from Cortland Water Works, 0.3 mi (0.5 km) upstream from State Highway 222, and 1.1 mi (1.8 km) upstream from the mouth.			8-15-75	e*.10
01508955 ^{s/} Otter Creek	West Branch Tioughnioga River	Lat 42°36'03", long 76°11'23", Cortland County, at bridge on State Highway 222 in Cortland, 0.8 mi (1.3 km) upstream from the mouth.		1972-75	12- 1-75 9- 9-76 9-30-76	5.9 .08 .03
01508962 ^{c/s/} Otter Creek	West Branch Tioughnioga River	Lat 42°36'32", long 76°10'51", Cortland County, in Cortland, on right bank, 50 ft (15 m) upstream from mouth.	14.3		11-13-75 11-19-75 12- 2-75 12-16-75 1-14-76 2-25-76 3- 3-76 6-17-76 8-22-76 8-31-76 9- 9-76 9-30-76	12 *5.8 *5.2 8.1 3.4 50 109 7.8 *1.8 *2.20 0 0
†01511500 Tioughnioga River	Chenango River	Lat 42°17'55", long 75°54'30", Broome County, on right bank at Itaska, 3.8 mi (6.0 km) downstream from Otselic River and village of Whitney Point, and 6 mi (10 km) upstream from mouth.	730	1929-67† 1967-71	3-29-71 7-13-71 3-19-72 5-12-72 6-28-72 7-11-72 3-10-73 4- 6-73 8- 8-73 4- 5-74 6-22-74 4-18-75 6-30-75 9-26-75 9-26-75 3-26-76 7-27-76	1,360 184 2,390 5,320 5,980 1,060 2,340 4,820 121 10,500 186 2,860 234 13,200 10,100 2,120 491
†01513500 Susquehanna River	Susquehanna River	Lat 42°05'27", long 76°03'23", Broome County, 400 ft (120 m) downstream from highway bridge at Vestal, and 800 ft (240 m) upstream from Choconut Creek.	3,941	1937-67‡ 1968-69 1971-73	9- 9-73 4-26-74 3-21-75 5-21-75 9-26-75 9-28-75 3-29-76 8-24-76	738 6,210 24,800 6,000 56,500 22,700 13,400 2,270
01516000 Cayuta Creek	Susquehanna River	Lat 42°00'32", long 76°31'33", Tioga County, at bridge on Ithaca Street, Waverly.	140	1898-1902‡ 1938-67† 1970-75	3- 7-75 7- 7-75 11-10-75	152 17 60
†01525500 Canisteo River	Tioga River	Lat 42°13'20", long 77°25'05", Steuben County, on right bank 250 ft (76 m) downstream from bridge on County Highway 119, 0.3 mi (0.5 km) southeast of West Cameron, and 1.7 mi (2.7 km) north of Cameron.	340	1930-31‡ 1937-70‡	9-26-75 9-27-75	5,200 2,330
01529931 Cohocton River	Chemung River	Lat 42°09'11", long 77°05'30", Steuben County, at Erie- Lackawanna Railroad bridge, 0.1 mi (0.2 km) upstream from mouth at Painted Post.	604		8-25-76 8-26-76	*127 *100

* Base flow.

† Operated as a crest-stage partial-record station.

‡ Operated as a continuous-record gaging station.

c Water-quality data included in this report.

e Estimated.

s Seepage investigation included in this report.

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Susquehanna River basin--Continued						
01530390 ^{c/} Jackson Creek	Newtown Creek	Lat 42°10'24", long 76°44'04", Chemung County, at bridge on State Highway 223, in Breesport, 0.1 mi (0.2 km) upstream from mouth.		1975	10- 9-75	3.4
01530425 ^{c/} North Branch Newtown Creek	Newtown Creek	Lat 42°11'15", long 76°47'23", Chemung County, at bridge on State Highway 223, 0.1 mi (0.2 km) east of State Highway 13, 0.5 mi (0.8 km) upstream from mouth, and 1.2 mi (1.9 km) east of Horseheads.	18.3	1975	10- 9-75	6.8
01530444 ^{c/} Beaver Brook	Newtown Creek	Lat 42°09'14", long 76°48'37", Chemung County, at downstream side of culvert under State Highway 14 and 17, 0.1 mi (0.2 km) upstream from mouth, 0.1 mi (0.2 km) east of Horseheads, and 0.2 mi (0.3 km) west of State Highway 13.	2.25	1975	10- 9-75	2.3
Allegheny River basin						
03010754 Ischua Creek	Olean Creek	Lat 42°20'13", long 78°27'52", Cattaraugus County, on bridge on Bakerstand Road, 0.3 mi (0.5 km) west of State Highways 16 and 98.			8-19-75	14
03010770 Ischua Creek	Olean Creek	Lat 42°15'52", long 78°26'12", Cattaraugus County, at bridge on Five Mile Road, in Fitch, 0.2 mi (0.3 km) south of State Highway 16, 4.3 mi (6.9 km) south of Franklinville, and 5.3 mi (8.5 km) downstream from Gates Creek.			7- 8-75	*43
030107816 Oil Creek	Olean Creek	Lat 42°13'04", long 78°17'13", Allegany County, at bridge on State Highway 408, in Cuba, 0.5 mi (0.8 km) west of State Highway 305.			8-19-75	1.2
030107824 Griffin Creek	Oil Creek	Lat 42°12'14", long 78°16' 39", Allegany County, at bridge on Keller Hill Road, 0.2 mi (0.3 km) west of State Highway 305, and 0.4 mi (0.6 km) south of Cuba.			8-20-75	1.1
030107828 Griffin Creek	Oil Creek	Lat 42°12'59", long 78°16'57", Allegany County, at bridge on village street in Cuba, and 0.4 mi (0.6 km) upstream from mouth.			8-19-75	1.2
Streams tributary to Lake Erie						
04214020 ^{c/} Cattaraugus Creek	Lake Erie	Lat 42°34'05", long 79°06'16", Chautauqua County, at bridge on U.S. Highway 20 (State Highway 5), 0.5 mi (0.8 km) east of Irving, and 1.1 mi (1.8 km) upstream from mouth.	549	1975	10-21-75 11-19-75 3-30-76	684 379 1,000
Streams tributary to Lake Ontario						
†04219925 Oak Orchard Creek	Lake Ontario	Lat 43°06'46", long 78°07'39", Genesee County, at bridge on Strouts Road, at intersection with Watson Road, and 3.3 mi (5.3 km) northwest of Elba village line.	7.49	1974-75	10-29-75 3-30-76 5- 5-76 5-27-76 8-26-76	.10 9.3 5.0 4.2 1.1
04220045 Oak Orchard Creek	Lake Ontario	Lat 43°10'25", long 78°23'13", Orleans County, on left bank, at bridge on Harrison Road, 0.2 mi (0.3 km), east of State Highway 63, and 1.1 mi (1.8 km) south of Shelby, 4.7 mi (7.6 km) upstream from Erie (Barge) Canal crossing at Medina.	150		10- 1-75 10-29-75 2-18-76 3-31-76 5- 5-76 5-27-76 8-25-76	12 8.7 609 209 272 275 20

* Base flow.

† Operated as a crest-stage partial-record station.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
04220320 Genesee River	Lake Ontario	Lat 41°59'19", long 77°52'06", Potter County, Pa., at bridge on State Highway 244 at Genesee, 200 ft (60 m) east of junction of State Highways 449 and 244, and 0.3 mi (0.5 km) upstream from West Branch Genesee River.			6-28-76	77
04220348 West Branch Genesee River	Genesee River	Lat 41°59'29", long 77°52'13", Potter County, Pa., at bridge on State Highway 449 at Genesee, 0.1 mi (0.2 km) upstream from mouth, and 0.2 mi (0.3 km) north of junction of State Highways 449 and 244.			6-28-76	49
04220500 Dyke Creek	Genesee River	Lat 42°07'45", long 77°54'56", Allegany County, at Erie- Lackawanna railroad bridge, 1.5 mi (2.4 km) northeast of Wellsville.	71.4	1964-65 1972	6-28-76	27
04221530 Gordon Brook	Genesee River	Lat 42°10'44", long 77°59'37", Allegany County, at bridge on town highway, 0.7 mi (1.1 km) upstream from mouth, and 0.9 mi (1.4 km) northwest of Scio.		1964-65	6-28-76	2.6
04221600 Van Campen Creek	Genesee River	Lat 42°12'23", long 78°07'44", Allegany County, on left bank, 210 ft (63 m) downstream from Moss Street bridge, in village of Friendship.	45.8	1964-68‡ 1969	6-28-76	26
04221900 Caneadea Creek	Genesee River	Lat 42°22'57", long 78°15'15", Allegany County, at bridge on Hardy Corners Road, 0.7 mi (1.1 km) south of Rushford, and 2.5 mi (4.0 km) upstream from Rushford Lake.		1964-65	6-28-76	8.3
04222515 Sixtown Creek	Cold Creek	Lat 42°28'54", long 78°08'57", Allegany County, along Centerville Road (County Highway 3), just down- stream from unnamed tributary, 0.2 mi (0.3 km) upstream from mouth, 0.3 mi (0.5 km) southwest of State High- way 19, and 0.9 mi (1.4 km) northwest of Hume.	24.7	1955 1964	6-29-76	8.7
04223950 Silver Lake Outlet	Genesee River	Lat 42°42'05", long 77°56'19", Livingston County, at bridge in Letchworth State Park, 1.5 mi (2.4 km) upstream from mouth, and 2.2 mi (3.5 km) northwest of Ridge.		1964	6-29-76	15
04223970 Silver Lake Outlet Trib- utary	Silver Lake Outlet	Lat 42°41'54", long 77°56'28", Livingston County, at culvert on Park Road in Letchworth State Park, 100 ft (30 m) upstream from mouth, 2.1 mi (3.4 km) northwest of Ridge, and 2.8 mi (4.5 km) southeast of Perry boundary line.	.92		6-29-76	.64
04224560 Canaseraga Creek	Genesee River	Lat 42°27'35", long 77°49'30", Allegany County, at bridge on State Highway 408 at Garwoods, 0.2 mi (0.3 km) west of junction of State Highways 70 and 408, and 1.9 mi (3.1 km) west of Canaseraga.			6-29-76	16
04224700 Sugar Creek	Canaseraga Creek	Lat 42°30'52", long 77°48'12", Livingston County, at bridge on Linzy Road, 1.3 mi (5.4 km) southwest of Ossian, and 5.1 mi (8.2 km) upstream from mouth.	9.83	1964-65 1970-72	4-14-76	6.8

‡ Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
†04224740 ^{c/} Sugar Creek	Canaseraga Creek	Lat 42°30'07", long 77°44'43", Livingston County, at bridge on county road, 1.6 mi (2.6 km) upstream from mouth, and 3.4 mi (5.5 km) north of Canaseraga.	19.2	1975	10-16-75 12- 9-75 4-14-76 6-29-76 9-15-76	5.2 13 12 9.2 *1.7
04224848 ^{c/} Stony Brook	Canaseraga Creek	Lat 42°31'20", long 77°41'42", Livingston County, at foot bridge in Stony Brook State Park, 0.3 mi (0.5 km) south of the north (lower) park entrance, and 2.7 mi (4.3 km) south of Dansville.	20.8	1975	10-16-75 11-12-75 12- 8-75 4-12-76 5-18-76 6- 9-76 6-29-76 8- 9-76 9-15-76	18 21 18 21 33 13 13 16.4 *4.2
04224978 ^{c/} Mill Creek	Canaseraga Creek	Lat 42°33'12", long 77°41'44", Livingston County, on downstream side of bridge, on Knox Road, in Dansville, and 0.9 mi (1.4 km) upstream from mouth.	35.9	1975	10-17-75 11-13-75 1-28-76 2-17-76 2-18-76 4-12-76 5-18-76 6- 9-76 7-15-76 6-29-76 8- 9-76 9-15-76	23 32 102 470 394 46 74 37 35 37 46.0 *22
†04225500 ^{c/} Canaseraga Creek	Genesee River	Lat 42°39'45", long 77°46'10", Livingston County, at bridge on State Highway 36, 0.1 mi (0.2 km) west of Groveland.	181	1917-20† 1955-64‡	10-25-74 12-13-74 2-25-75 4-23-75 6- 6-75 7- 9-75 8-12-75 10-15-75 11-11-75 12-10-75 2-19-76 3- 4-76 4-13-76 5-19-76 6- 8-76 7-14-76 8-11-76	39 221 1,580 158 2,330 68 44 68 175 300 1,590 2,120 149 259 159 150 *129
†04225600 ^{c/} Bradner Creek	Canaseraga Creek	Lat 42°34'49", long 77°44'20", Livingston County, at bridge on old state highway, about 150 ft (46 m) upstream from State Highway 36, 1.5 mi (2.4 km) northwest of Dansville, and 8.5 mi (13.7 km) upstream from mouth.	7.45	1964-65a 1970-72a 1974-75	10-16-75 11-13-75 12- 9-75 12- 9-75 2-17-76 2-18-76 2-19-76 4-13-76 5-18-76 7-14-76 9-14-76	3.4 6.4 5.7 6.0 104 289 61 9.3 24 8.8 *2.8
04225670 Bradner Creek	Canaseraga Creek	Lat 42°41'03", long 77°47'55", Livingston County, at bridge on Pioneer Road, 300 ft (90 m) up- stream from the mouth, and 1.7 mi (2.7 km) east of Sonyea.	16.5	1975	10-15-75 11-11-75 12-10-75 3-10-76 4-13-76 5-19-76 6-28-76 7-13-76 8-16-76	5.2 21 77 215 20 77 22 23 15
†04225915 ^{c/} Keshequa Creek	Canaseraga Creek	Lat 42°35'19", long 77°55'14", Livingston County, at bridge on Bailey Road, 0.4 mi (0.6 km) northeast of Nunda.	32.6	1975	10-15-75 11-12-75 12-10-75 2-11-76 2-17-76 3- 9-76 4-13-76 5-20-76 6- 8-76 7-13-76 8-11-76 9-14-76	7.8 14 47 194 635 70 20 54 27 12 *12 *5.6

* Base flow.

† Operated as a crest-stage partial-record station.

‡ Operated as a continuous-record gaging station.

a Operated as a low-flow partial-record station.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
†04225950 C/ Keshequa Creek	Canaseraga Creek	Lat 42°38'17", long 77°52'01", Livingston County, at bridge on State Highway 258, 100 ft (30 m) downstream from tribu- tary in Wildcat Gully, and 0.5 mi (0.8 km) north of Tuscarora.	58.6	1975	10-15-75 11-12-75 12-10-75 2-11-76 2-17-76 2-18-76 4-13-76 5-19-76 6- 8-76 7-13-76 8-11-76 9-14-76	8.8 18 92 551 773 1,230 30 86 39 17 *16 *5.3
04227720 Salt Creek	Genesee River	Lat 42°51'11", long 77°51'20", Livingston County, at bridge on River Road, 1.6 mi (2.6 km) upstream from mouth, and 1.9 mi (3.1 km) northeast of Retsof.	12.53		6-29-76	5.4
04227780 Browns Creek	Genesee River	Lat 42°52'32", long 77°50'59", Livingston County, at bridge on River Road, 0.8 mi (1.3 km) upstream from mouth, and 1.8 mi (2.9 km) east of York.			6-29-76	5.1
04227830 Genesee River	Genesee River	Lat 42°53'36", long 77°50'35", Livingston County, at bridge on Casey Road, 0.2 mi (0.3 km) east of Fowlerville, and 1.3 mi (2.1 km) upstream from mouth.	11.36		6-29-76	3.9
04228300 Conesus Creek	Genesee River	Lat 42°53'52", long 77°45'51", Livingston County, at bridge on State Highway 39 at Ashantee, and 1.8 mi (2.9 km) upstream from mouth.		1964	6-29-76	35
04228400 Little Conesus Creek	Conesus Creek	Lat 42°53'56", long 77°45'18", Livingston County, at bridge on town road, 0.4 mi (0.6 km) northeast of Littleville, 0.8 mi (1.3 km) upstream from mouth, and 1.0 mi (1.6 km) south of Avon.			6-29-76	4.4
04229330 Beebe Creek	Honeoye Creek	Lat 42°51'38", long 77°32'18", Livingston County, at bridge on South Road, 0.9 mi (1.4 km) east of Idaho, and 1.3 mi (2.1 km) upstream from mouth.	19.5	1964-65	6-30-76	7.2
04229900 Honeoye Creek Tributary	Honeoye Creek	Lat 42°59'53", long 77°35'04", Monroe County, at bridge on State Highway 65, 0.5 mi (0.8 km) upstream from mouth, 0.4 mi (0.6 km) southeast of Rochester Junction, and 2.0 mi (3.2 km) north of Honeoye Falls.			6-30-76	2.7
04230320 C/ Oatka Creek	Genesee River	Lat 42°41'39", long 78°07'15", Wyoming County, at bridge on State Highway 19, 0.6 mi (0.9 km) north of Rock Glen, and 1.2 mi (1.9 km) southeast of South Warsaw.	16.0	1975	10-29-75 12- 5-75 3- 1-76 3-22-76 4-21-76 5-10-76 6- 9-76 7-14-76 8-25-76	3.5 6.2 77 48 9.6 14 *11 16 *4.1
†04230400 C/ Oatka Creek	Genesee River	Lat 42°50'54", long 78°03'37", Wyoming County, at bridge on State Highway 19 at Pearl River, and 2 mi (3 km) northeast of Wyoming.	80.7	1961 1975	10-29-75 12- 5-75 3- 1-76 3-22-76 4-23-76 5-10-76 6- 9-76	14 43 202 322 259 68 *47

* Base flow.

† Operated as a crest-stage partial-record station.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
†04230423 ^{c/} Oatka Creek	Genesee River	Lat 42°55'43", long 78°02'20", Genesee County, at bridge on Junction Road, 1.6 mi (2.6 km) northwest of Pavilion Center, and 3.7 mi (6.0 km) northwest of Pavilion.	111	1975	10-29-75 12- 6-75 1- 7-76 2-18-76 3- 1-76 3-24-76 4-20-76 5-12-76 6-10-76 7-14-76 8-26-76	17 135 96 2,250 314 251 61 141 *69 227 26
†04230470 ^{c/} Mad Creek	Oatka Creek	Lat 42°58'47", long 77°57'00", Genesee County, at bridge on State Highway 5, 1.2 mi (1.9 km) east of LeRoy, and 2.3 mi (3.7 km) upstream from mouth.	10.1	1975	10-30-75 12- 6-75 1- 7-76 2-18-76 3- 2-76 3- 5-76 3-24-76 4-23-76 5-12-76 6-10-76 6-30-76 7-15-76 8-26-76	0 12 0 115 12 201 8.3 15 8.6 *1.2 11 1.0 0
04230650 ^{c/} Genesee River	Lake Ontario	Lat 43°05'31", long 77°40'52", Monroe County, at Ballantyne Bridge, on State Highway 252, 1.6 mi (2.6 km) west of Mortimer, and 2.8 mi (4.5 km) upstream from Erie (Barge) Canal crossing.		1965 1971-72	9-27-75 3- 6-76	5,220 16,600
04230685 Black Creek	Genesee River	Lat 43°02'53", long 78°04'11", Genesee County, at bridge on town road, 0.2 mi (0.3 km) west of South Byron, and 2.3 mi (3.7 km) upstream from Bigelow Creek.			6-30-76	9.2
04230700 Bigelow Creek	Black Creek	Lat 43°02'56", long 78°05'43", Genesee County, at bridge on County Highway 19, 1.5 mi (2.4 km) west of South Byron, and 2.6 mi (4.2 km) upstream from mouth.		1964-65	6-30-76	15
04231400 Red Creek	Erie (Barge) Canal	Lat 43°05'32", long 77°39'08", Monroe County, at culvert under State Highway 252, at Mortimer, 0.8 mi (1.3 km) south of Rochester City boundary line, and 2.2 mi (3.5 km) upstream from Erie (Barge) Canal.	16.2	1964-66 1974	6-30-76	2.5
04232161 ^{c/} Catharine Creek	Seneca Lake	Lat 42°16'07", long 76°46'30", Chemung County, at bridge on Merka Road, 3 mi (4.8 km) east of Millport, 0.2 mi (0.3 km) west of Veteran Hill Road, and 3.9 mi (6.3 km) southwest of Alpine.	.37	1975	10- 8-75	*.16
04232163 ^{c/} Catharine Creek	Seneca Lake	Lat 42°14'05", long 76°47'39", Chemung County, at bridge on Dann Boulevard, 0.6 mi (1.0 km) west of Veteran Hill Road, and 2.1 mi (3.4 km) northwest of Sullivanville.	2.59		7- 8-75 7-30-75 9- 5-75 10- 8-75	*.07 *.14 *.16 *.85
04232170 ^{c/} Catherine Creek	Seneca Lake	Lat 42°13'56", long 76°50'32", Schuyler County, at bridge on Smith Road, 0.3 mi (0.5 km) north of Pine Valley.	14.5	1965 1975	10- 8-75	*11

* Base flow.

† Operated as a crest-stage partial-record station.

c Water-quality data included in this report.

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
04232182 ^c / Catherine Creek	Seneca Lake	Lat 42°15'04", long 76°50'10", Chemung County, at bridge on Burch Hill Road, in Midway, 0.1 mi (0.2 km) east of the intersection with State High- way 14.	25.4		7- 8-75 7-30-75 9- 5-75 10- 8-75	*4.3 *6.5 8.3 *19
04232190 Catherine Creek	Seneca Lake	Lat 42°17'47", long 76°50'49", Chemung County, at bridge on Croton Road, 0.2 mi (0.3 km) north of Schuyler-Chemung County line, and 1.2 mi (1.9 km) north of Millport.	35.9	1965 1975	7- 9-75 7-30-75	6.8 8.4
04233624 Webster Brook	Fall Creek	Lat 42°38'33", long 76°20'32", Cayuga County, at culvert on State Highway 90, 0.85 mi (1.4 km) west of Summer Hill, and 3.8 mi (6.1 km) northeast of Groton.	2.59	1975	10-24-75 12-15-75	2.3 12
†04233632 Fall Creek Tributary No. 7	Fall Creek	Lat 42°33'57", long 76°17'57", Tompkins County, at culvert on county highway, 0.1 mi (0.2 km) north of Stevens Corners, and 1.0 mi (1.6 km) northwest of McLean.	.52		12- 9-74 1-20-75 2-24-75 3-12-75 4- 1-75 6- 4-75 7- 1-75 10-24-75 11-17-75 12-15-75	2.3 .78 6.0 .80 1.5 .53 .18 1.2 .67 1.2
04237004 Skaneateles Creek	Seneca River	Lat 43°04'22", long 76°28'48", Onondaga County, at bridge on State Highway 31, at Jordan, and 2.2 mi (3.5 km) upstream from mouth.			6-14-76 6-15-76	28 38
04237015 Skaneateles Creek	Seneca River	Lat 43°04'42", long 76°30'06", Cayuga County, (at bridge on farm road), 0.5 mi (0.8 km) upstream from mouth, and 0.9 mi (1.4 km) northwest of Jordan.			6-14-76 6-15-76	28 56
04240119 Ley Creek Tributary	Ley Creek	Lat 43°04'38", long 76°10'22", Onondaga County, at culvert in dump in Syracuse, 0.1 mi (0.2 km) upstream from mouth, which is 0.5 mi (0.8 km) up- stream from Onondaga Lake, and 0.1 mi (0.2 km) north of bridge over Ley Creek on Park Street.		1971-75	6-18-75 7-16-75 8-28-75 9-23-75 10-22-75 11-17-75 12-23-75 2-17-76	.30 1.0 1.1 .60 1.1 1.5 1.5 2.1
04242800 Wood Creek	Erie (Barge) Canal	Lat 43°13'18", long 75°35'38", Oneida County, at bridge on State Highway 49, 1.2 mi (1.9 km) north of New London, and 4.8 mi (7.6 km) upstream from Erie (Barge) Canal.	98.3	1966-68	9- 9-76	62
04243820 Vly Creek	Canaseraga Creek	Lat 43°07'36", long 75°52'21", Madison County, at bridge on Chittenango-Lakeport Plank Road, 1.3 mi (2.1 km) south of State Highway 31, and Chittenango-Lakeport Plank Road, at Lakeport.			9- 9-75	1.8
042438793 Tuscarora Lake (Erieville Reservoir Outlet)	Chittenango Creek	Lat 42°52'01", long 75°45'48", Madison County, at bridge on Nelson-Erieville Road, 1.2 mi (1.9 km) northwest of Erieville.	4.50	1957	8-23-76	*6.0
04243880 Chittenango Creek	Oneida Lake	Lat 42°54'41", long 75°52'03", Madison County, at bridge on county road in Rippleton, 0.1 mi (0.2 km) southwest of State Highway 13, and 1.1 mi (1.8 km) south of U.S. Highway 20.	31.8	1963 1967-68	8-23-76	*25

* Base flow.

† Operated as a crest-stage partial-record station.

c Water-quality data included in this report.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1976--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Streams tributary to Lake Ontario--Continued						
042439020 Chittenango Creek	Oneida Lake	Lat 42°55'47", long 75°51'01", Madison County, at bridge on U.S. Highway 20, at Cazenovia.	45.5	1963	8-23-76	*34
04244610 Chittenango Creek	Oneida Lake	Lat 43°04'24", long 75°52'57", Madison County, at bridge on county road, 0.4 mi (0.6 km) east of Bolivar.	80.7	1963	8-23-76	*60
042450016 Limestone Creek	Butternut Creek	Lat 43°03'27", long 76°00'29", Onondaga County, at bridge on State Highway 290, 0.4 mi (0.6 km) northwest of Manlius Center.	92.8	1962	8-24-76	80
04245215 Butternut Creek	Chittenango Creek	Lat 42°58'59", long 76°04'14", Onondaga County, at bridge on town road, below Jamesville Reservoir, and 0.6 mi (1.0 km) south of Jamesville.	43.8	1963	8-24-76	*8.7
04245247 Butternut Creek	Limestone Creek	Lat 43°02'35", long 76°03'03", Onondaga County, at center of downstream side of stone arch on Old Erie Canal, 1.0 mi (1.6 km) northeast of intersection of State Highways 5, 20, and 92 in Dewitt, and 2.2 mi (3.5 km) downstream from Meadow Brook.	53.5		8-24-76	*32
Streams tributary to St. Lawrence River						
04268230 Raquette River	St. Lawrence River	Lat 44°54'58", long 74°53'25", St. Lawrence County, 740 ft (226 m) upstream from bridge on State Highway 420 in Massena Springs, 1,700 ft (520 m) down- stream from Hutchins Creek, and 16.2 mi (26.1 km) upstream from mouth.	1,197		11-18-74 12- 5-74 4- 9-75	1,430 1,580 3,180
04268350 Upper St. Regis Lake Tributary	Upper St. Regis Lake	Lat 44°23'58", long 74°15'42", Franklin County, staff gage at culvert on State Highway 30, 2.3 mi (3.7 km) south of Paul Smiths, and 2.7 mi (4.3 km) south of the junction of State Highways 30 and 192.	.41	1972 1974-75	10-26-74 11-18-74 5-20-75	.03 .03 .10
04273880 West Branch Ausable River	Ausable River	Lat 44°15'25", long 73°57'46", Essex County, at bridge on State Highway 73, 1.1 mi (1.8 km) upstream from Chubb River, and 1.3 mi (2.1 km) south of Lake Placid.			6-26-75 8-12-75 9-30-76	*30 27 84
04273960 Chubb River	West Branch Ausable River	Lat 44°16'28", long 73°58'26", Essex County, 0.3 mi (0.5 km) east of Lake Placid, 0.1 mi (0.2 km) east of State Highway 13, and 1 mi (1.6 km) upstream from mouth.	38.2	1975	9-30-76	66
04274000 West Branch Ausable River	Ausable River	Lat 44°18'40", long 73°55'00", Essex County, 4 mi (6.4 km) northeast of Lake Placid, and 4 mi (6.4 km) downstream from Lake Placid Outlet.	116	1916-17† 1919-68†	9-29-76	233

* Base flow.

† Operated as a continuous-record gaging station.

Dry Creek seepage investigation

Two series of discharge measurements were made during the 1976 water year on Dry Creek, to study channel gains and losses. The reach is 1.3 mi (2.1 km) in length and extends from State Highway 281 to the mouth, lat 42°36'55", long 76°10'55". Duration figures are based on records for the gaging station on Tioughnioga River at Cortland (01509000). Tributary flow was considered a contribution and not a gain. Indicated gains or losses may be substantially in error as affected by small inaccuracies in open-channel measurements. Previous seepage investigations of this reach were made at least once each year since 1972 and published in WRD NY 1975.

Site number	Distance upstream from mouth (miles)	Measuring site	Drainage area (mi ²)	Meas. disch. (ft ³ /s)	Gain or loss	Meas. disch. (ft ³ /s)	Gain or loss
				Dec. 2, 1975 at 29% duration		Sept. 9, 1976 at 73% duration	
01508918	1.3	Dry Creek above Cortland (at State Highway 281)	8.42	10.5	-	0.87	-
01508932	0.0	Dry Creek at mouth	8.78	8.18	-2.32	.02	-0.85

REVISIONS.--The discharge figures for the seepage investigation of May 20, 1975, have been revised as shown in the following table. They supersede figures published in WRD NY 1975.

Site number	Distance upstream from mouth (miles)	Measuring site	Drainage area (mi ²)	Meas. disch. (ft ³ /s)	Gain or loss
				May 20, 1975 at 35% duration	
01508905	2.9	Dry Creek nr Cortland (at Sweeny Road)	3.20	3.65	-
01508910	3.7	Blue Creek nr Cortland (at Cosmos Hill)	3.53	2.45	-
01508913	2.5	Blue Creek at Cortland (at Kinney Gulf Road)	4.30	2.80	+0.35
015089132	2.3	Blue Creek below Kinney Gulf Road at Cortland (at infiltration zone)	4.32	2.21	-.59
01508914	2.2	Blue Creek at mouth at Cortland	4.33	2.99	+.78
01508915	2.1	Dry Creek below Blue Creek	8.19	6.69	+.05
01508918	1.3	Dry Creek above Cortland (at State Highway 281)	8.42	7.10	+.41
01508925	0.6	Dry Creek at Hamlin Street at Cortland	8.66	5.84	-1.26

SUSQUEHANNA RIVER BASIN

Otter Creek seepage investigation

Three series of discharge measurements were made during the 1976 water year on Otter Creek and its tributaries, to study channel gains and losses. The reach is 6.0 mi (9.7 km) in length and extends from State Highway 90, 1.9 mi (3.1 km) south of Cortland, to the mouth, lat 42°36'32", long 76°10'51". Duration figures are based on records for the gaging station Tioughnioga River at Cortland (01509000). Tributary flow was considered a contribution and not a gain. Indicated gains or losses may be substantially in error as affected by small inaccuracies in open-channel measurements. Previous seepage investigations of this reach were made at least once each year since 1972 and published in WRD NY 1974, 1975.

Site number	Distance upstream from mouth (miles)	Measuring site	Drainage area (mi ²)	Meas. disch. (ft ³ /s)	Gain or loss	Meas. disch. (ft ³ /s)	Gain or loss	Meas. disch. (ft ³ /s)	Gain or loss
		OTTER CREEK:		Dec. 1, 1975 at 28% duration		Sept. 9, 1976 at 73% duration		Sept. 30, 1976 at 52% duration	
01508935	6.0	at State Highway 90 nr Cortland	1.98	2.24	-			0.62	-
01508937	4.4	at Bennie Rd at South Cortland	6.51	2.38	+0.14			0	-0.62
01508938	3.4	at State Highway 281 at Cortland	7.34	0	-2.38			0	0
01508940	3.1	at McLean Rd nr Cortland	8.98	4.08	+4.08	0.77	-	0	0
01508945	4.1	tributary at Sears Rd nr Cortland	2.58	.84	-				0
01508948	3.2	tributary at Fairview Dr nr Cortland	3.18	.01	-.83				
01508951	2.1	at State Highway 281 above Cortland	13.5	3.78	-.41			0	0
01508955	0.8	at State Highway 222 at Cortland	14.0	5.93	+2.15	.08	-0.69	.03	+.03
01508962	0.0	at mouth, at Cortland	14.3	-	-	0	-.08	0	-.03

SUSQUEHANNA RIVER BASIN

Gridley Creek seepage investigation

A series of discharge measurements was made on August 24, 1976, on Gridley Creek and tributaries, to study channel gains and losses. The reach is 7.5 mi (12.0 km) in length and extends from the culvert on Page Green Road, 1.8 mi (2.9 km) north of intersection with State Highway 90, to the mouth, lat 42°29'25", long 76°04'24". Duration figures are based on records for the gaging station Cayuga Inlet near Ithaca (04233000). The measurements were made during a period of constant base flow of the streams. Tributary flow was considered a contribution and not a gain. Indicated gains or losses may be substantially in error as affected by small inaccuracies in open-channel measurements. Previous seepage investigations of this reach were made at least once each year since 1973 and published in WRD NY 1974, 1975.

The measurements on each stream are listed in order proceeding downstream, and each tributary is inserted in the order in which it enters the main stream.

Site number	Distance upstream from mouth (miles)	Measuring site	Drainage area (mi ²)	Meas. disch. (ft ³ /s)	Gain or loss
GRIDLEY CREEK:				August 24, 1976 at 74% duration	
01509104	7.6	at Page Green Road nr Blodgett Mills	1.63	0.12	-
01509103	6.7	near Blodgett Mills	2.96	.56	+0.44
01509110	5.8	above Page Green Road nr Virgil	3.46	.29	-.27
01509115	6.2	tributary No. 3 nr Virgil	.35	0	-
01509116	6.2	trib. to trib. No. 3 nr Virgil	.10	.14	-
01509118	5.8	tributary No. 3 at mouth nr Virgil	.53	.18	+0.04
01509120	5.6	at Page Green Road nr Virgil	4.26	.85	+0.38
01509125	5.2	at State Highway 90 nr Virgil	4.67	1.06	+0.21
01509127	5.1	trib. nr Virgil (at State Highway 90)	2.56	.38	-
01509135	4.4	at Greek Peak nr Virgil	7.74	2.15	+0.71
01509145	3.9	tributary No. 2 nr East Virgil	1.87	.40	-
01509150	3.6	above East Virgil	10.4	4.60	+2.05
01509190	2.0	at State Highway 90 nr East Virgil	12.3	4.89	+0.29
01509200	0.1	at Messengersville	16.1	6.97	+2.08

Water-quality partial-record stations are particular sites where chemical-quality, biological and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than quarterly.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04221725 - GENESEE RIVER AT TRANSIT BRIDGE NEAR ANGELICA NY (LAT 42 17 46 LONG 078 04 36)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
15...	1040	177	10	4.8	--	--	--
22...	1115	796	32	69	--	--	--
30...	1020	387	14	15	--	--	--
NOV							
12...	1300	446	114	137	--	--	--
14...	1110	598	12	19	--	--	--
29...	1015	302	7	5.7	--	--	--
29...	1110	1960	7	37	--	--	--
DEC							
09...	1320	525	147	208	--	--	--
14...	1040	1530	100	413	--	--	--
29...	1130	450	10	12	--	--	--
JAN							
28...	1115	2460	87	578	--	--	--
FEB							
12...	1025	1200	105	340	--	--	--
17...	1215	16500	2460	110000	--	--	--
17...	1230	16500	2150	95800	16	22	30
17...	1630	13700	1710	63300	14	20	28
18...	1540	12200	1250	41200	20	27	32
27...	1040	1760	93	442	--	--	--
MAR							
05...	1520	3040	162	1330	--	--	--
13...	1040	650	174	305	--	--	--
25...	1115	521	225	317	--	--	--
30...	1045	456	12	15	--	--	--
APR							
01...	1140	784	34	72	--	--	--
01...	1300	802	33	71	--	--	--
12...	1045	284	6	4.6	--	--	--
13...	1615	266	6	4.3	--	--	--
25...	1130	3770	1390	14100	25	27	36
25...	1205	2160	105	612	--	--	--
25...	1450	4150	1020	11400	18	26	34
27...	1115	1100	22	65	--	--	--
MAY							
07...	1105	348	18	17	--	--	--
11...	1030	268	8	5.8	--	--	--
JUN							
02...	1105	292	229	181	--	--	--
10...	1030	177	8	3.8	--	--	--
JUL							
14...	1030	229	20	12	--	--	--
14...	1450	213	9	5.2	--	--	--
AUG							
13...	1100	207	49	27	--	--	--
25...	1230	125	24	8.1	--	--	--
SEP							
13...	1140	102	8	2.2	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04221725 - GENESEE RIVER AT TRANSIT BRIDGE NEAR ANGELICA NY (LAT 42 17 46 LONG 078 04 36)--Continued

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT							
15...	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--
NOV							
12...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
DEC							
09...	--	--	47	--	--	--	--
14...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
JAN							
28...	--	--	95	--	--	--	--
FEB							
12...	--	--	--	--	--	--	--
17...	--	--	54	--	--	--	--
17...	41	52	70	88	96	100	--
17...	38	50	70	88	97	100	--
18...	46	60	73	90	100	--	--
27...	--	--	--	--	--	--	--
MAR							
05...	--	--	80	--	--	--	--
13...	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--
APR							
01...	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
25...	48	62	80	95	99	100	--
25...	--	--	87	--	--	--	--
25...	46	57	74	89	96	98	100
27...	--	--	--	--	--	--	--
MAY							
07...	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--
JUN							
02...	--	--	60	--	--	--	--
10...	--	--	--	--	--	--	--
JUL							
14...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
AUG							
13...	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--
SEP							
13...	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04224740 - SUGAR CREEK NEAR CANASERAGA NY (LAT 42 30 07 LONG 077 44 43)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT					
14...	0930	2.0	3	.02	--
16...	1250	5.6	4	.06	--
29...	0925	3.9	6	.06	--
NOV					
12...	1510	5.6	3	.05	--
13...	1125	12	2	.06	--
28...	1020	5.0	4	.05	--
DEC					
09...	1540	14	2	.08	--
31...	1310	52	6	.84	--
JAN					
14...	1005	18	12	.58	--
14...	1410	23	15	.93	--
27...	1300	117	42	13	78
FEB					
10...	1045	17	1	.05	--
11...	1020	131	72	25	--
11...	1340	109	49	14	80
11...	1710	104	32	9.0	80
17...	1440	280	193	146	74
17...	1820	203	110	60	84
18...	1110	394	306	326	78
19...	1900	153	30	12	--
20...	1030	96	9	2.3	--
26...	1005	50	6	.81	--
MAR					
05...	1325	128	19	6.6	--
10...	1320	50	8	1.1	--
12...	1000	52	4	.56	--
29...	1045	22	2	.12	--
APR					
01...	1045	47	9	1.1	--
11...	1100	7.0	2	.04	--
14...	1205	12	3	.10	--
25...	1445	318	427	367	89
26...	1100	91	8	2.0	--
26...	1115	91	15	3.7	--
MAY					
10...	1025	5.6	0	.00	--
20...	1630	29	4	.31	--
JUN					
09...	1000	3.4	3	.03	--
09...	1610	3.9	26	.27	--
29...	1200	9.2	19	.47	--
JUL					
01...	1615	11	4	.12	--
02...	1130	11	2	.06	--
13...	1015	9.6	6	.16	--
14...	1320	6.3	1	.02	--
AUG					
11...	1645	7.0	3	.06	--
12...	1100	3.9	6	.06	--
SEP					
15...	1025	1.7	0	.00	--
15...	1050	.70	5	.01	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04224848 - STONY BROOK AT STONY BROOK STATE PARK NY (LAT 42 31 20 LONG 077 41 22)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
14...	1010	9.7	2	.05	--	--	--
16...	1505	19	0	.00	--	--	--
21...	1500	41	7	.77	--	--	--
29...	1020	12	4	.13	--	--	--
NOV							
12...	1635	20	7	.38	--	--	--
13...	1335	19	2	.10	--	--	--
28...	1205	8.8	2	.05	--	--	--
DEC							
08...	1210	20	13	.70	--	--	--
13...	1145	23	8	.50	--	--	--
28...	1110	258	4	2.8	--	--	--
30...	1500	258	14	9.8	--	--	--
JAN							
26...	1300	100	112	30	--	--	--
27...	1110	124	152	51	--	--	--
27...	1310	116	112	35	--	--	--
27...	1415	102	96	26	--	--	--
FEB							
11...	1130	122	309	102	--	--	--
11...	1510	122	262	86	22	28	37
11...	1520	122	275	91	--	--	--
11...	1535	107	224	65	--	--	--
17...	1115	371	1640	1640	13	22	30
17...	1720	238	620	398	--	--	--
18...	0905	467	3140	3960	14	20	23
19...	1725	160	118	51	--	--	--
20...	1130	90	30	7.3	--	--	--
26...	1130	53	12	1.7	--	--	--
MAR							
04...	1525	204	100	55	--	--	--
05...	1415	66	77	14	--	--	--
10...	1445	42	8	.91	--	--	--
12...	1100	34	4	.37	--	--	--
29...	1230	27	0	.00	--	--	--
31...	1130	25	2450	165	35	49	65
APR							
01...	1115	42	2280	259	--	--	--
11...	1330	22	5	.30	--	--	--
12...	1545	20	9	.49	--	--	--
22...	1125	146	4	1.6	--	--	--
25...	1130	79	2890	616	16	18	23
25...	1525	106	1090	312	--	--	--
26...	1150	59	209	33	--	--	--
26...	1310	51	54	7.4	--	--	--
MAY							
10...	1220	20	4	.22	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04224848 - STONY BROOK AT STONY BROOK STATE PARK NY (LAT 42 31 20 LONG 077 41 22)--Continued

DATE	SUS. SED. DIAM. % FINER THAN .016 MM	SUS. SED. DIAM. % FINER THAN .031 MM	SUS. SED. DIAM. % FINER THAN .062 MM	SUS. SED. DIAM. % FINER THAN .125 MM	SUS. SED. DIAM. % FINER THAN .250 MM	SUS. SED. DIAM. % FINER THAN .500 MM
OCT						
14...	--	--	--	--	--	--
16...	--	--	--	--	--	--
21...	--	--	--	--	--	--
29...	--	--	--	--	--	--
NOV						
12...	--	--	--	--	--	--
13...	--	--	--	--	--	--
28...	--	--	--	--	--	--
DEC						
08...	--	--	--	--	--	--
13...	--	--	--	--	--	--
28...	--	--	--	--	--	--
30...	--	--	--	--	--	--
JAN						
26...	--	--	86	--	--	--
27...	--	--	87	--	--	--
27...	--	--	86	--	--	--
27...	--	--	93	--	--	--
FEB						
11...	--	--	82	--	--	--
11...	52	67	88	95	98	100
11...	--	--	87	--	--	--
11...	--	--	85	--	--	--
17...	42	56	77	87	92	100
17...	--	--	81	--	--	--
18...	34	48	62	74	80	86
19...	--	--	--	--	--	--
20...	--	--	--	--	--	--
26...	--	--	--	--	--	--
MAR						
04...	--	--	--	--	--	--
05...	--	--	--	--	--	--
10...	--	--	--	--	--	--
12...	--	--	--	--	--	--
29...	--	--	--	--	--	--
31...	86	96	100	--	--	--
APR						
01...	--	--	100	--	--	--
11...	--	--	--	--	--	--
12...	--	--	--	--	--	--
22...	--	--	--	--	--	--
25...	40	67	93	99	100	--
25...	--	--	87	--	--	--
26...	--	--	--	--	--	--
26...	--	--	--	--	--	--
MAY						
10...	--	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIMENT (MG/L)	SUS- PEN- DED SEDIMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
MAY												
18...	0950	34	28	2.6	--	--	--	--	--	--	--	--
JUN												
09...	1235	15	520	21	--	--	--	--	--	--	--	--
29...	1300	.96	58	.15	--	--	--	--	--	--	--	--
JUL												
13...	1100	24	108	7.0	--	--	--	--	--	--	--	--
29...	1550	49	469	62	--	--	--	--	--	85	--	--
29...	1700	20	138	7.5	--	--	--	--	--	--	--	--
29...	1835	91	1390	342	22	30	39	53	71	92	98	99
30...	1048	148	5	2.0	--	--	--	--	--	--	--	--
30...	1130	16	10	.43	--	--	--	--	--	--	--	--
AUG												
09...	1145	17	2	.09	--	--	--	--	--	--	--	--
12...	1145	10	1	.03	--	--	--	--	--	--	--	--
SEP												
15...	1120	3.8	2	.02	--	--	--	--	--	--	--	--
15...	1215	4.2	1	.01	--	--	--	--	--	--	--	--
23...	1115	6.4	1	.02	--	--	--	--	--	--	--	--
27...	1015	20	28	1.5	--	--	--	--	--	--	--	--
27...	1540	16	8	.35	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04224978 - MILL CREEK AT DANSVILLE NY (LAT 42 33 12 LONG 077 41 44)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
14...	1045	26	72	5.1	--	--	--
17...	0920	30	28	2.3	--	--	--
21...	1540	120	47	15	--	--	--
29...	1050	22	24	1.4	--	--	--
NOV							
13...	1100	33	19	1.7	--	--	--
28...	1310	22	12	.71	--	--	--
DEC							
08...	1545	29	9	.70	--	--	--
13...	1300	103	46	13	--	--	--
28...	1300	29	23	1.8	--	--	--
30...	1520	53	95	14	--	--	--
JAN							
12...	1310	40	39	4.2	--	--	--
14...	1040	49	54	7.1	--	--	--
14...	1305	42	38	4.3	--	--	--
27...	1200	152	298	122	--	--	--
27...	1400	162	323	141	--	--	--
27...	1515	154	261	109	--	--	--
27...	1520	154	252	105	24	30	38
28...	1300	97	86	23	--	--	--
FEB							
10...	1420	42	86	9.8	--	--	--
11...	1400	124	276	92	--	--	--
11...	1630	124	229	77	--	--	--
17...	1525	485	5640	7390	11	14	21
17...	1645	415	4120	4620	13	18	25
17...	1840	415	3790	4250	--	--	--
18...	0930	375	3420	3460	12	18	25
18...	1620	415	2460	2760	--	--	--
19...	1755	169	1130	516	--	--	--
20...	1205	215	465	270	--	--	--
26...	1200	162	231	101	--	--	--
MAR							
04...	1540	347	1200	1120	--	--	--
05...	1350	230	1100	683	--	--	--
10...	1535	171	174	80	--	--	--
12...	1315	140	77	29	--	--	--
APR							
01...	1135	74	184	37	--	--	--
11...	1345	49	32	4.2	--	--	--
12...	1825	48	42	5.4	--	--	--
22...	1055	43	66	7.7	--	--	--
25...	1315	157	1580	670	--	--	--
25...	1650	152	628	258	--	--	--
26...	1220	128	271	94	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04224978 - MILL CREEK AT DANSVILLE NY (LAT 42 33 12 LONG 077 41 44)--Continued

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT							
14...	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
NOV							
13...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
DEC							
08...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--
JAN							
12...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
27...	--	--	67	--	--	--	--
27...	--	--	86	--	--	--	--
27...	--	--	75	--	--	--	--
27...	50	60	79	91	96	99	100
28...	--	--	78	--	--	--	--
FEB							
10...	--	--	89	--	--	--	--
11...	--	--	84	--	--	--	--
11...	--	--	82	--	--	--	--
17...	30	39	51	64	76	100	--
17...	33	45	52	66	78	88	--
17...	--	--	49	--	--	--	--
18...	35	45	60	73	85	100	--
18...	--	--	48	--	--	--	--
19...	--	--	71	--	--	--	--
20...	--	--	68	--	--	--	--
26...	--	--	--	--	--	--	--
MAR							
04...	--	--	65	--	--	--	--
05...	--	--	70	--	--	--	--
10...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
APR							
01...	--	--	92	--	--	--	--
11...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--
25...	--	--	85	--	--	--	--
25...	--	--	87	--	--	--	--
26...	--	--	89	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
 STREAMS TRIBUTARY TO LAKE ONTARIO

04224978 - MILL CREEK AT DANSVILLE NY (LAT 42 33 12 LONG 077 41 44)--Continued

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT (MG/L)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
APR												
26...	1410	124	284	95	--	--	--	--	--	89	--	--
MAY												
10...	1310	45	34	4.1	--	--	--	--	--	--	--	--
18...	1340	79	252	54	--	--	--	--	--	--	--	--
20...	1440	91	365	90	--	--	--	--	--	--	--	--
JUN												
09...	0940	39	84	8.8	--	--	--	--	--	--	--	--
09...	1320	33	51	4.5	--	--	--	--	--	--	--	--
JUL												
01...	1230	34	79	7.3	--	--	--	--	--	--	--	--
02...	1030	32	69	6.0	--	--	--	--	--	--	--	--
13...	1235	81	238	52	--	--	--	--	--	--	--	--
15...	0945	34	108	9.9	--	--	--	--	--	--	--	--
29...	1515	51	420	58	--	--	--	--	--	97	--	--
29...	1610	60	565	92	--	--	--	--	--	98	--	--
29...	1635	85	1055	242	--	--	--	--	--	94	--	--
29...	1650	99	2045	547	--	--	--	--	--	94	--	--
29...	1715	118	1828	582	--	--	--	--	--	91	--	--
29...	1745	145	2010	787	20	20	27	43	59	88	98	100
30...	0930	56	146	22	--	--	--	--	--	--	--	--
30...	1200	48	123	16	--	--	--	--	--	98	--	--
30...	1340	43	112	13	--	--	--	--	--	--	--	--
AUG												
09...	1700	54	77	11	--	--	--	--	--	--	--	--
12...	1400	46	39	4.8	--	--	--	--	--	--	--	--
19...	1330	23	48	3.0	--	--	--	--	--	--	--	--
SEP												
02...	1305	25	22	1.5	--	--	--	--	--	--	--	--
15...	1320	18	22	1.1	--	--	--	--	--	--	--	--
15...	1630	30	25	2.0	--	--	--	--	--	--	--	--
23...	0940	22	61	3.6	--	--	--	--	--	--	--	--
27...	1030	43	229	27	--	--	--	--	--	94	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04225500 - CANASERAGA CREEK AT GROVELAND NY (LAT 42 39 40 LONG 077 46 07)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SED- IMENT (MG/L)	SUS- PEN- DED SED- IMENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
14...	0840	84	15	3.4	--	--	--
15...	1240	78	14	2.9	--	--	--
29...	0840	107	15	4.3	--	--	--
NOV							
11...	1005	183	50	25	--	--	--
13...	0945	183	23	11	--	--	--
28...	0835	126	9	3.1	--	--	--
DEC							
10...	1105	300	97	79	--	--	--
13...	0830	230	53	33	--	--	--
JAN							
27...	0840	2030	643	3520	--	--	--
FEB							
11...	0920	1430	711	2750	--	--	--
11...	1300	1520	643	2640	--	--	--
11...	1500	1480	482	1930	--	--	--
17...	1800	2500	2960	20000	19	22	31
18...	1430	2650	3400	24300	19	23	29
19...	1945	1570	1470	6230	24	26	30
20...	0900	1080	658	1920	--	--	--
26...	0815	534	245	353	--	--	--
MAR							
04...	1810	2050	876	4850	--	--	--
05...	1215	1310	620	2190	10	16	20
10...	1150	436	167	197	--	--	--
12...	0840	362	90	88	--	--	--
29...	0940	263	38	27	--	--	--
APR							
11...	0915	165	18	8.0	--	--	--
13...	1100	155	17	7.1	--	--	--
15...	0900	149	14	5.6	--	--	--
25...	1830	1290	2570	8950	20	24	32
26...	0900	814	385	846	--	--	--
MAY							
10...	0900	188	10	5.1	--	--	--
19...	1245	268	58	42	--	--	--
JUN							
08...	1210	162	51	22	--	--	--
09...	0900	131	38	13	--	--	--
JUL							
13...	0845	191	184	95	--	--	--
14...	1005	148	62	25	--	--	--
AUG							
11...	1050	123	35	12	--	--	--
12...	0925	109	37	11	--	--	--
SEP							
15...	0930	44	27	3.2	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04225500 - CANASERAGA CREEK AT GROVELAND NY (LAT 42 39 40 LONG 077 46 07)--Continued

DATE	SUS. SED. DIAM. % FINER THAN .016 MM	SUS. SED. DIAM. % FINER THAN .031 MM	SUS. SED. DIAM. % FINER THAN .062 MM	SUS. SED. DIAM. % FINER THAN .125 MM	SUS. SED. DIAM. % FINER THAN .250 MM	SUS. SED. DIAM. % FINER THAN .500 MM	SUS. SED. DIAM. % FINER THAN 1.00 MM
OCT							
14...	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
NOV							
11...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
DEC							
10...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
JAN							
27...	--	--	84	--	--	--	--
FEB							
11...	--	--	83	--	--	--	--
11...	--	--	80	--	--	--	--
11...	--	--	81	--	--	--	--
17...	45	60	75	93	99	100	--
18...	40	55	73	92	99	100	--
19...	42	58	76	93	99	100	--
20...	--	--	74	--	--	--	--
26...	--	--	--	--	--	--	--
MAR							
04...	--	--	71	--	--	--	--
05...	32	43	62	83	95	100	100
10...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
APR							
11...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--
25...	45	63	78	91	98	100	--
26...	--	--	60	--	--	--	--
MAY							
10...	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--
JUN							
08...	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--
JUL							
13...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
AUG							
11...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
SEP							
15...	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04225600 - BRADNER CREEK NEAR DANSVILLE NY (LAT 42 34 49 LONG 077 44 20)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
OCT												
14...	0905	4.0	2	.02	--	--	--	--	--	--	--	--
16...	0940	3.7	0	.00	--	--	--	--	--	--	--	--
20...	0910	17	78	3.6	--	--	--	--	--	--	--	--
20...	1740	14	78	2.9	--	--	--	--	--	--	--	--
29...	0900	4.3	3	.03	--	--	--	--	--	--	--	--
NOV												
13...	0925	6.9	2	.04	--	--	--	--	--	--	--	--
13...	1040	6.9	3	.06	--	--	--	--	--	--	--	--
28...	0850	3.8	9	.10	--	--	--	--	--	--	--	--
DEC												
09...	1050	24	2	.13	--	--	--	--	--	--	--	--
13...	0930	6.9	4	.07	--	--	--	--	--	--	--	--
28...	0900	6.0	3	.06	--	--	--	--	--	--	--	--
31...	1220	29	26	2.0	--	--	--	--	--	--	--	--
00...	--	33	24	2.1	--	--	--	--	--	--	--	--
JAN												
27...	1015	76	129	26	--	--	--	--	--	89	--	--
FEB												
11...	0920	78	237	50	--	--	--	--	--	81	--	--
11...	1410	33	89	7.9	--	--	--	--	--	88	--	--
11...	1550	29	82	6.4	--	--	--	--	--	84	--	--
17...	1455	114	307	94	32	52	72	86	93	99	99	100
17...	1625	114	277	85	--	--	--	--	--	95	--	--
18...	1000	382	736	759	31	45	59	74	86	93	96	97
18...	1250	235	362	230	--	--	--	--	--	92	--	--
19...	1510	64	97	17	--	--	--	--	--	--	--	--
20...	0930	37	34	3.4	--	--	--	--	--	--	--	--
26...	0915	23	9	.56	--	--	--	--	--	--	--	--
MAR												
10...	1235	20	12	.65	--	--	--	--	--	--	--	--
12...	0915	11	4	.12	--	--	--	--	--	--	--	--
29...	1040	14	3	.11	--	--	--	--	--	--	--	--
APR												
01...	1205	11	6	.18	--	--	--	--	--	--	--	--
11...	1040	9.2	3	.07	--	--	--	--	--	--	--	--
13...	1710	9.2	3	.07	--	--	--	--	--	--	--	--
21...	1900	4.6	6	.07	--	--	--	--	--	--	--	--
22...	1015	7.4	9	.18	--	--	--	--	--	--	--	--
25...	1825	114	123	38	--	--	--	--	--	93	--	--
26...	1000	33	18	1.6	--	--	--	--	--	96	--	--
26...	1030	33	24	2.1	--	--	--	--	--	--	--	--
MAY												
10...	1000	9.2	3	.07	--	--	--	--	--	--	--	--
18...	1725	26	29	2.0	--	--	--	--	--	--	--	--
JUN												
09...	0950	6.3	6	.10	--	--	--	--	--	--	--	--
09...	1635	6.3	31	.53	--	--	--	--	--	--	--	--
JUL												
01...	1545	8.0	18	.39	--	--	--	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)
JUL				
02...	1050	6.9	16	.30
13...	0945	13	34	1.2
14...	1145	8.6	14	.33
AUG				
10...	1105	7.4	22	.44
12...	1010	6.3	9	.15
SEP				
14...	1630	3.7	3	.03
15...	1020	3.4	2	.02

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
 STREAMS TRIBUTARY TO LAKE ONTARIO

04225915 - KESHEQUA CREEK AT NUNDA NY (LAT 42 35 19 LONG 077 55 14)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
14...	1130	9.5	2	.05	--	--	--
15...	1545	8.3	2	.04	--	--	--
21...	1625	16	8	.35	--	--	--
29...	1125	13	9	.32	--	--	--
NOV							
12...	1205	15	3	.12	--	--	--
13...	1600	17	3	.14	--	--	--
28...	1415	17	2	.09	--	--	--
DEC							
10...	1425	49	46	6.1	--	--	--
13...	1430	27	15	1.1	--	--	--
28...	1345	21	17	.96	--	--	--
31...	1130	52	185	26	--	--	--
JAN							
12...	1420	15	10	.40	--	--	--
14...	1320	66	156	28	--	--	--
14...	1520	66	156	28	--	--	--
15...	1150	27	15	1.1	--	--	--
26...	1130	40	81	8.7	--	--	--
27...	1315	206	387	215	--	--	--
27...	1425	186	275	138	--	--	--
27...	1530	180	222	108	--	--	--
27...	1720	150	195	79	--	--	--
28...	1130	78	230	48	--	--	--
FEB							
11...	1350	180	559	272	--	--	--
11...	1705	122	445	147	--	--	--
17...	1035	654	2120	3740	29	35	41
17...	1200	544	1730	2540	29	34	44
18...	1345	537	1510	2190	28	33	43
20...	0930	65	110	19	--	--	--
26...	1315	32	34	2.9	--	--	--
MAR							
04...	1600	640	1820	3150	17	20	25
05...	1700	272	134	98	--	--	--
09...	1255	73	60	12	--	--	--
12...	1400	34	17	1.6	--	--	--
29...	1430	38	4	.41	--	--	--
APR							
11...	1430	26	5	.35	--	--	--
13...	1405	20	29	1.6	--	--	--
14...	1500	18	5	.24	--	--	--
25...	1130	823	4740	10500	21	26	36
25...	1650	784	1200	2540	--	--	--
26...	1510	270	100	73	--	--	--
MAY							
10...	1420	14	2	.08	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

559

STREAMS TRIBUTARY TO LAKE ONTARIO

04225915 - KESHEQUA CREEK AT NUNDA NY (LAT 42 35 19 LONG 077 55 14)--Continued

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT							
14...	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
NOV							
12...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
DEC							
10...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--
JAN							
12...	--	--	--	--	--	--	--
14...	--	--	81	--	--	--	--
14...	--	--	81	--	--	--	--
15...	--	--	--	--	--	--	--
26...	--	--	90	--	--	--	--
27...	--	--	83	--	--	--	--
27...	--	--	94	--	--	--	--
27...	--	--	94	--	--	--	--
27...	--	--	95	--	--	--	--
28...	--	--	78	--	--	--	--
FEB							
11...	--	--	91	--	--	--	--
11...	--	--	92	--	--	--	--
17...	56	72	84	92	96	100	--
17...	59	74	86	92	96	99	100
18...	58	73	84	91	95	99	100
20...	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--
MAR							
04...	32	43	52	58	64	74	85
05...	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
APR							
11...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--
25...	49	63	74	83	88	92	100
25...	--	--	85	--	--	--	--
26...	--	--	96	--	--	--	--
MAY							
10...	--	--	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
MAY				
20...	1445	52	28	3.9
JUL				
13...	1425	14	2	.08
13...	1430	14	4	.15
AUG				
11...	1350	11	4	.12
12...	1515	10	3	.08
SEP				
14...	1420	5.6	2	.03
15...	1420	7.0	4	.08

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

04225950 - KESHEQUA CREEK AT TUSCARORA NY (LAT 42 38 17 LONG 077 52 01)

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
OCT							
14...	1155	10	15	.40	--	--	--
15...	1410	9.2	5	.12	--	--	--
21...	1045	28	15	1.1	--	--	--
29...	1145	15	3	.12	--	--	--
NOV							
12...	1055	18	1	.05	--	--	--
13...	1615	25	2	.13	--	--	--
28...	1430	16	3	.13	--	--	--
DEC							
10...	1315	98	116	31	--	--	--
13...	1450	31	28	2.3	--	--	--
28...	1405	47	17	2.2	--	--	--
31...	1200	165	311	139	--	--	--
JAN							
12...	1450	23	15	.93	--	--	--
14...	1410	121	109	36	46	52	64
14...	1430	121	131	43	--	--	--
14...	1740	204	89	49	--	--	--
15...	1215	70	23	4.3	--	--	--
27...	1525	300	274	222	--	--	--
27...	1600	264	271	193	--	--	--
28...	1040	84	58	13	--	--	--
FEB							
11...	1135	475	584	749	28	38	49
11...	1730	551	932	1390	--	--	--
17...	1545	773	1230	2570	--	--	--
18...	1200	1230	3740	12400	--	--	--
20...	0910	200	198	107	--	--	--
26...	1350	198	56	30	--	--	--
MAR							
05...	1750	470	299	379	--	--	--
12...	1430	77	29	6.0	--	--	--
29...	1450	61	11	1.8	--	--	--
APR							
11...	1500	35	3	.28	--	--	--
13...	1235	32	1	.09	--	--	--
25...	1220	1170	5360	16900	26	26	34
25...	1720	926	2090	5230	32	33	41
26...	1530	363	209	205	--	--	--
MAY							
10...	1445	34	6	.55	--	--	--
19...	1535	91	17	4.2	--	--	--
JUN							
08...	1350	39	35	3.7	--	--	--
09...	1515	28	9	.68	--	--	--
JUL							
13...	1255	17	13	.60	--	--	--
13...	1500	17	15	.69	--	--	--
AUG							
11...	1225	16	6	.26	--	--	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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STREAMS TRIBUTARY TO LAKE ONTARIO

04225950 - KESHEQUA CREEK AT TUSCARORA NY (LAT 42 38 17 LONG 077 52 01)--Continued

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT							
14...	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
NOV							
12...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
DEC							
10...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--
JAN							
12...	--	--	--	--	--	--	--
14...	73	75	88	94	98	100	--
14...	--	--	66	--	--	--	--
14...	--	--	90	--	--	--	--
15...	--	--	--	--	--	--	--
27...	--	--	95	--	--	--	--
27...	--	--	94	--	--	--	--
28...	--	--	95	--	--	--	--
FEB							
11...	62	75	87	93	96	100	--
11...	--	--	--	--	--	--	--
17...	--	--	90	95	97	100	--
18...	--	--	78	88	94	100	--
20...	--	--	87	--	--	--	--
26...	--	--	--	--	--	--	--
MAR							
05...	--	--	95	99	100	--	--
12...	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--
APR							
11...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
25...	47	60	71	81	91	98	99
25...	54	68	81	89	94	97	100
26...	--	--	--	--	--	--	--
MAY							
10...	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--
JUN							
08...	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--
JUL							
13...	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--
AUG							
11...	--	--	--	--	--	--	--

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
AUG				
12...	1540	13	6	.21
SEP				
14...	1215	5.3	17	.24
15...	1445	5.1	16	.22

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
 STREAMS TRIBUTARY TO LAKE ONTARIO

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
04228370 - LITTLE CONESUS CREEK NEAR SOUTH LIMA NY (LAT 42 53 14 LONG 077 40 03)											
OCT , 1975						FEB , 1976					
15...	1645	13	5	.18	--	13...	1615	77	68	14	--
30...	1320	1.6	10	.04	--	26...	1425	12	10	.32	--
30...	1600	1.7	5	.02	--	27...	1630	11	7	.21	--
NOV						MAR					
14...	1725	4.4	18	.21	--	13...	1540	7.8	8	.17	--
29...	1610	6.2	7	.12	--	24...	0925	9.0	4	.10	--
DEC						30...	1600	4.4	13	.15	--
04...	1630	1.9	12	.06	--	APR					
30...	1430	1.4	8	.03	--	12...	1645	1.6	5	.02	--
JAN , 1976						28...	0925	11	7	.21	--
07...	1700	4.2	33	.37	--	JUN					
14...	1525	38	13	1.3	--	09...	0620	3.0	29	.23	--
30...	0900	25	1	.07	--						
04228380 - LITTLE CONESUS CREEK NEAR EAST AVON NY (LAT 42 53 34 LONG 077 41 05)											
OCT , 1975						FEB , 1976					
15...	1600	4.0	1	.01	--	13...	1550	86	99	23	--
30...	1630	1.5	8	.03	--	26...	1730	14	6	.23	--
30...	1730	1.6	4	.02	--	27...	1620	13	9	.32	--
NOV						MAR					
14...	1710	2.6	21	.15	--	14...	1530	10	11	.30	--
29...	1553	1.5	6	.02	--	24...	1050	9.2	3	.07	--
DEC						31...	1550	5.7	11	.17	--
14...	1730	48	45	5.8	--	APR					
30...	1430	6.9	8	.15	--	12...	1630	3.0	5	.04	--
JAN , 1976						28...	0935	13	5	.18	--
07...	1630	9.9	19	.51	--	JUN					
14...	1515	39	16	1.7	--	09...	1020	1.9	87	.45	--
04230320 - OATKA CREEK AT ROCK GLEN NY (LAT 42 41 39 LONG 078 07 15)											
OCT , 1975						MAR , 1976					
01...	0925	3.4	4	.04	--	01...	1210	84	32	7.3	--
16...	0920	6.7	4	.07	--	03...	1530	376	323	328	75
29...	1150	3.6	4	.04	--	04...	1040	295	120	96	82
30...	0920	3.4	4	.04	--	14...	0900	58	9	1.4	--
NOV						22...	1210	47	10	1.3	--
15...	0830	5.5	0	.00	--	31...	0930	14	5	.19	--
30...	0900	5.5	10	.15	--	APR					
DEC						13...	1340	9.8	2	.05	--
05...	1120	6.1	4	.07	--	21...	1450	10	3	.08	--
12...	1245	23	30	1.9	--	22...	0850	67	42	7.6	86
15...	0835	84	174	39	--	22...	1430	43	18	2.1	77
30...	0900	24	13	.84	--	25...	1130	166	6	2.7	80
31...	1030	54	37	5.4	--	27...	0900	56	12	1.8	--
JAN , 1976						28...	0930	37	3	.30	--
07...	0845	23	24	1.5	--	MAY					
14...	0915	36	11	1.1	--	10...	1430	10	23	.62	--
14...	1240	41	8	.89	54	12...	1035	20	0	.00	--
27...	1115	74	18	3.6	87	20...	1030	86	18	4.2	--
29...	0900	44	7	.83	--	JUN					
FEB						11...	1025	9.3	58	1.5	--
11...	1405	160	42	18	80	11...	1540	9.3	7	.18	--
13...	0940	208	86	48	73	JUL					
17...	1140	346	593	554	29	12...	1505	47	41	5.2	--
17...	1740	200	136	73	71	14...	1000	15	16	.65	--
18...	0950	200	343	185	73	AUG					
18...	1450	200	181	98	68	11...	1000	37	11	1.1	--
18...	1715	220	144	86	72	25...	1345	4.0	60	.65	--
19...	0910	140	82	31	72	SEP					
20...	1000	61	31	5.1	72	14...	1010	4.3	3	.03	--
28...	0825	46	8	.99	--						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

STREAMS TRIBUTARY TO LAKE ONTARIO

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
04230400 - OATKA CREEK AT PEARL CREEK NY (LAT 42 50 54 LONG 078 03 37)											
OCT , 1975						MAR , 1976					
01...	0945	15	11	.45	--	03...	1730	555	23	34	--
16...	1015	14	4	.15	--	04...	1310	2640	123	877	95
29...	1445	14	20	.76	--	14...	1015	248	24	16	--
31...	1010	14	12	.45	--	22...	1705	330	166	148	--
NOV						31...	1100	78	17	3.6	--
15...	1015	35	19	1.8	--	APR					
30...	1025	40	10	1.1	--	13...	1140	47	7	.89	--
DEC						22...	1015	116	136	43	90
05...	1600	41	12	1.3	--	22...	1540	155	63	26	87
15...	1020	495	30	40	--	23...	1035	227	78	48	92
JAN , 1976						25...	1400	286	26	20	--
07...	1210	60	23	3.7	--	27...	1250	636	50	86	86
FEB						28...	1050	210	5	2.8	--
19...	1130	1440	62	241	98	MAY					
20...	1050	374	24	24	--	10...	1830	68	19	3.5	--
28...	0930	272	26	19	--	JUN					
MAR						09...	1610	47	86	11	--
01...	1500	208	305	171	51						
04230410 - PEARL CREEK AT PEARL CREEK NY (LAT 42 50 55 LONG 078 02 36)											
OCT , 1975						FEB , 1976					
01...	0955	5.4	2	.03	--	27...	1330	30	9	.73	--
16...	1030	3.4	1	.01	--	28...	0950	23	4	.25	--
29...	1630	2.1	13	.07	--	MAR					
31...	1030	1.9	6	.03	--	03...	1810	370	274	274	84
NOV						04...	1345	464	256	321	87
15...	1045	4.7	0	.00	--	14...	1030	16	13	.56	--
30...	1035	3.6	3	.03	--	22...	1800	25	3	.20	--
DEC						31...	1110	10	4	.11	--
05...	1710	.55	6	.01	--	APR					
06...	0945	18	19	.92	--	13...	1130	7.4	2	.04	--
15...	1040	169	358	163	--	22...	1040	28	10	.76	--
30...	1030	7.0	5	.09	--	22...	1610	20	9	.49	74
31...	0920	23	12	.75	--	22...	1905	17	2	.09	--
JAN , 1976						25...	1435	200	605	327	93
07...	1320	9.7	61	1.6	--	27...	1310	58	9	1.4	--
14...	1315	20	40	2.2	81	28...	1110	40	6	.65	--
26...	1300	10	30	.81	--	MAY					
27...	1230	87	48	11	60	10...	1945	9.3	3	.08	--
27...	1735	76	40	8.2	70	12...	1145	15	0	.00	--
29...	1045	45	13	1.6	--	JUN					
FEB						09...	1640	8.5	48	1.1	--
11...	1120	102	49	13	81	11...	1410	6.6	23	.41	--
11...	1530	89	52	12	74	30...	1030	18	15	.73	--
13...	1100	79	72	15	--	JUL					
17...	1320	230	162	101	83	12...	1410	9.6	14	.36	--
17...	1810	170	112	51	78	14...	1515	5.4	3	.04	--
18...	1100	308	852	709	83	AUG					
18...	1545	254	171	117	84	11...	1115	5.6	20	.30	--
18...	1800	230	130	81	85	25...	1740	2.6	8	.06	--
19...	1150	122	51	17	73	SEP					
20...	1100	53	21	3.0	--	14...	1115	115	17	5.3	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued
 PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
 STREAMS TRIBUTARY TO LAKE ONTARIO

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER 0.062 MM	DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. SIEVE DIAM. % FINER 0.062 MM
04230423 - OATKA CREEK NEAR PAVILION CENTER NY (LAT 42 55 43 LONG 078 02 20)											
NOV , 1975						MAR , 1976					
15...	1110	32	6	.52	--	05...	1440	3600	65	632	--
30...	1050	28	8	.60	--	14...	1045	210	5	2.8	--
DEC						24...	1330	240	32	21	--
06...	1200	151	42	17	--	31...	1130	134	3	1.1	--
15...	1100	642	88	153	--	APR					
30...	1100	107	8	2.3	--	13...	1100	76	1	.21	--
31...	0945	160	16	6.9	--	20...	1710	57	5	.77	74
JAN , 1976						22...	1115	176	30	14	93
07...	1500	96	32	8.3	--	22...	1630	199	21	11	90
14...	1340	240	15	9.7	83	27...	1330	1120	20	60	89
FEB						28...	1130	562	9	14	--
13...	1110	860	25	58	--	MAY					
17...	1350	2050	136	753	92	12...	1230	110	3	.89	--
17...	1835	2210	87	519	90	JUN					
18...	1315	2110	74	422	96	10...	1030	66	28	5.0	--
18...	1620	2010	62	336	93	11...	1310	52	1	.14	--
18...	1825	2010	59	320	96	JUL					
19...	1210	2010	52	282	100	12...	1350	110	16	4.8	--
20...	1140	1390	29	109	100	14...	1720	228	18	11	--
28...	1010	404	21	23	--	AUG					
MAR						11...	1145	59	10	1.6	--
01...	1630	324	22	19	--	26...	1130	28	9	.68	--
03...	1900	2200	63	374	--	SEP					
04...	1510	3690	130	1300	--	14...	1130	21	2	.11	--
05...	1320	3680	71	705	--						
04230470 - MAD CREEK NEAR LE ROY NY (LAT 42 58 47 LONG 077 57 00)											
NOV						APR					
15...	1250	.23	1	.00	--	13...	1030	2.0	2	.01	--
30...	1250	.44	8	.01	--	22...	1155	18	63	3.1	--
DEC						22...	1705	26	40	2.8	92
06...	1400	12	72	2.3	--	23...	1210	15	17	.69	--
15...	1300	123	36	12	--	25...	1715	113	187	57	94
FEB						27...	1400	56	9	1.4	--
11...	1245	318	7	6.0	--	28...	1330	30	5	.40	--
18...	1000	126	45	15	87	MAY					
18...	1500	117	32	10	86	12...	1410	8.6	9	.21	--
19...	1330	108	18	5.2	84	12...	1415	7.8	6	.13	--
20...	1210	43	13	1.5	--	JUN					
28...	1110	7.4	3	.06	--	10...	1215	1.2	54	.17	--
MAR						11...	1145	.54	13	.02	--
02...	1000	12	6	.19	--	23...	1150	10	51	1.4	--
04...	1600	318	123	106	73	30...	1040	11	30	.89	--
05...	1050	200	31	17	79	JUL					
05...	1200	192	29	15	--	12...	1115	.17	14	.01	--
05...	1730	149	29	12	81	15...	1110	1.0	8	.02	--
06...	1440	46	13	1.6	--	AUG					
14...	1310	9.0	1	.00	--	11...	1330	.23	7	.00	--
24...	1510	8.3	1	.02	--						
31...	1330	4.6	0	.00	--						

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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Samples are collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
RIPPOWAM RIVER BASIN											
G/ 411318073331200 - TRINITY LAKE AT TRINITY LAKE NY (LAT 41 13 18 LONG 073 33 12)											
JUL , 1976											
08...	1300	--	182	7.5	23.5	--	--	--	--	25	86
08...	1305	--	187	6.1	4.0	--	--	--	--	--	--
AUG											
31...	1200	--	190	7.9	23.0	--	--	--	--	27	88
31...	1201	--	170	6.9	5.0	--	--	--	--	--	--
G/ 411436073325000 - LAKE KITCHAWAN AT LAKE KITCHAWAN (LAT 41 14 36 LONG 073 32 50)											
JUL , 1976											
06...	1500	--	170	8.1	25.0	--	--	--	--	8300	815
06...	1505	--	172	7.2	20.0	--	--	--	--	--	--
AUG											
26...	1600	--	160	7.9	27.0	--	--	--	--	290	8480
26...	1601	--	180	6.7	23.0	--	--	--	--	--	--
01209797 - MILL RIVER AT POUND RIDGE NY (LAT 41 12 32 LONG 073 33 21)											
AUG , 1976											
04...	1600	4.0	195	7.4	12.5	--	11.1	105	.0	100	86
MIANUS RIVER BASIN											
01210000 - MIANUS RIVER AT BEDFORD NY (LAT 41 12 06 LONG 073 37 59)											
AUG , 1976											
04...	1300	4.2	210	7.3	20.5	--	7.2	80	.3	89200	8420
BYRAM RIVER BASIN											
01211300 - BYRAM RIVER AT ARMONK NY (LAT 41 07 27 LONG 073 42 19)											
AUG , 1976											
04...	0800	.99	415	7.1	16.0	--	8.7	88	.1	1500	210
01211350 - WAMPUS RIVER AT ARMONK NY (LAT 41 07 18 LONG 073 42 38)											
AUG , 1976											
04...	1000	.97	342	7.3	20.0	--	6.8	74	.5	1600	8340
BLIND BROOK BASIN											
F/ 01299030 - BLIND BROOK AT PORT CHESTER NY (LAT 41 01 37 LONG 073 41 23)											
OCT , 1975											
21...	1400	5.3	215	7.2	13.0	2	10.5	100	--	1900	350
01299130 - BLIND BROOK TRIBUTARY AT PORT CHESTER NY (LAT 41 01 28 LONG 073 42 00)											
OCT , 1975											
30...	1330	2.3	250	7.3	11.0	1	10.4	94	--	--	--
HUDSON RIVER BASIN											
F/ 01327755 - HUDSON RIVER AT ROGERS ISLAND (FORT EDWARD), NY (LAT 43 15 52 LONG 073 35 28)											
MAR , 1976											
29...	1200 12000		54	6.6	3.5	--	13.2	105	--	--	--
F/ 01349855 - SILVER LAKE OUTLET TRIBUTARY NEAR BROOKSBURG NY (LAT 42 19 06 LONG 074 11 45)											
OCT , 1975											
29...	1400	1.3	36	6.5	10.5	1	11.1	106	--	88	82

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

F Additional analyses in following table, "Selected trace constituents."

G Additional analyses in following table, "Chemical quality of bottom material."

CONTINUED NEXT PAGE

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREP- TOCOCCHI (COL- ONIES PER 100 ML)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITAS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
RIPPOWAM RIVER BASIN											
411318073331200 - TRINITY LAKE AT TRINITY LAKE NY (LAT 41 13 18 LONG 073 33 12)											
JUL , 1976											
08...	22	79	15	25	4.0	4.2	1.4	78	0	64	12
08...	--	81	17	26	4.0	4.4	1.5	79	0	65	10
AUG											
31...	52	80	15	24	4.8	4.6	1.3	79	0	65	11
31...	--	84	15	26	4.7	4.4	1.5	85	0	70	12
411436073325000 - LAKE KITCHAWAN AT LAKE KITCHAWAN (LAT 41 14 36 LONG 073 32 50)											
JUL , 1976											
06...	37	70	11	24	2.5	3.9	1.1	72	0	59	6.1
06...	--	73	12	25	2.6	3.9	1.2	74	0	61	5.5
AUG											
26...	812	66	13	21	3.2	3.5	1.0	64	0	52	8.7
26...	--	65	9	21	3.0	3.5	1.0	68	0	56	7.4
01209797 - MILL RIVER AT POUND RIDGE NY (LAT 41 12 32 LONG 073 33 21)											
AUG , 1976											
04...	27	83	18	25	5.1	5.4	1.5	80	--	66	13
MIANUS RIVER BASIN											
01210000 - MIANUS RIVER AT BEDFORD NY (LAT 41 12 06 LONG 073 37 59)											
AUG , 1976											
04...	882	85	22	24	6.2	7.1	2.2	77	0	63	15
BYRAM RIVER BASIN											
01211300 - BYRAM RIVER AT ARMONK NY (LAT 41 07 27 LONG 073 42 19)											
AUG , 1976											
04...	120	170	49	45	13	20	2.8	143	0	117	27
01211350 - WAMPUS RIVER AT ARMONK NY (LAT 41 07 18 LONG 073 42 38)											
AUG , 1976											
04...	88	130	33	32	11	17	3.1	112	0	92	25
BLIND BROOK BASIN											
01299030 - BLIND BROOK AT PORT CHESTER NY (LAT 41 01 37 LONG 073 41 23)											
OCT , 1975											
21...	440	83	28	22	6.9	7.8	3.3	68	0	56	25
01299130 - BLIND BROOK TRIBUTARY AT PORT CHESTER NY (LAT 41 01 28 LONG 073 42 00)											
OCT , 1975											
30...	--	93	40	23	8.6	12	3.1	64	0	53	31
HUDSON RIVER BASIN											
01327755 - HUDSON RIVER AT ROGERS ISLAND (FORT EDWARD), NY (LAT 43 15 52 LONG 073 35 28)											
MAR , 1976											
29...	--	17	5	5.5	.8	1.7	.3	15	0	12	9.5
01349855 - SILVER LAKE OUTLET TRIBUTARY NEAR BROOKSBURG NY (LAT 42 19 06 LONG 074 11 45)											
OCT , 1975											
29...	83	14	5	3.9	1.0	1.1	.3	11	0	9	7.3

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

CONTINUED NEXT PAGE

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
------	---	--	--	--	--	--	--	--	---	---	--

RIPPOWAM RIVER BASIN

411318073331200 - TRINITY LAKE AT TRINITY LAKE NY (LAT 41 13 18 LONG 073 33 12)

JUL , 1976											
08...	7.4	1.5	--	--	.01	.01	.27	.28	.29	.02	.01
08...	7.5	5.0	--	--	.22	.01	.34	.35	.57	.03	.01
AUG											
31...	8.0	1.8	--	--	.01	.00	.30	.30	.31	.01	.01
31...	8.0	5.9	--	--	.16	.11	.37	.48	.64	.04	.01

411436073325000 - LAKE KITCHAWAN AT LAKE KITCHAWAN (LAT 41 14 36 LONG 073 32 50)

JUL , 1976											
06...	6.6	5.0	--	--	.00	.01	.47	.48	.48	.03	.01
06...	6.4	6.0	--	--	.01	.06	.49	.55	.56	.03	.01
AUG											
26...	4.9	7.7	--	--	.01	.01	.53	.54	.55	.01	.00
26...	3.9	7.9	--	--	.01	.05	.58	.63	.64	.04	.01

01209797 - MILL RIVER AT POUND RIDGE NY (LAT 41 12 32 LONG 073 33 21)

AUG , 1976											
04...	9.0	5.0	--	0	.13	.00	.13	.13	.26	.02	--

MIANUS RIVER BASIN

01210000 - MIANUS RIVER AT BEDFORD NY (LAT 41 12 06 LONG 073 37 59)

AUG , 1976											
04...	15	6.8	--	3	.24	.01	.42	.43	.67	.04	--

BYRAM RIVER BASIN

01211300 - BYRAM RIVER AT ARMONK NY (LAT 41 07 27 LONG 073 42 19)

AUG , 1976											
04...	45	10	--	3	.66	.01	.44	.45	1.1	.02	--

01211350 - WAMPUS RIVER AT ARMONK NY (LAT 41 07 18 LONG 073 42 38)

AUG , 1976											
04...	30	8.6	--	7	.53	.11	.37	.48	1.0	.05	--

BLIND BROOK BASIN

01299030 - BLIND BROOK AT PORT CHESTER NY (LAT 41 01 37 LONG 073 41 23)

OCT , 1975											
21...	15	--	124	10	.96	.01	.64	.65	1.6	.04	.05

01299130 - BLIND BROOK TRIBUTARY AT PORT CHESTER NY (LAT 41 01 28 LONG 073 42 00)

OCT , 1975											
30...	22	--	170	1	1.0	.01	.37	.38	1.4	.04	.02

HUDSON RIVER BASIN

01327755 - HUDSON RIVER AT ROGERS ISLAND (FORT EDWARD), NY (LAT 43 15 52 LONG 073 35 28)

MAR , 1976											
29...	2.0	--	44	--	.71	.31	.15	.46	1.2	.04	.01

01349855 - SILVER LAKE OUTLET TRIBUTARY NEAR BROOKSBURG NY (LAT 42 19 06 LONG 074 11 45)

OCT , 1975											
29...	1.0	--	23	1	.02	.00	.08	.08	.10	.01	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
HUDSON RIVER BASIN--Continued											
01374099 - ANNSVILLE CREEK ABOVE WALLACE POND AT PEEKSKILL NY (LAT 41 19 05 LONG 073 55 50)											
AUG , 1976											
05...	0900	.59	208	7.1	16.0	--	8.9	94	.5	1100	240
01374200 - SPROUT BROOK NEAR ANNSVILLE NY (LAT 41 19 11 LONG 073 54 57)											
AUG , 1976											
05...	1200	3.4	144	7.2	22.0	--	8.7	104	.5	640	80
01374260 - BARGER BROOK AT SHRUB OAK NY (LAT 41 19 53 LONG 073 49 15)											
AUG , 1976											
06...	0900	.46	120	6.8	17.0	--	8.0	96	.2	2300	9290
01374268 - SHRUB OAK BROOK AT SHRUB OAK NY (LAT 41 20 03 LONG 073 49 34)											
AUG , 1976											
06...	1000	2.1	208	7.1	20.0	--	8.5	100	1.1	1200	130
G/ 411905073510200 - LAKE MOHEGAN AT MOHEGAN LAKE NY (LAT 41 19 05 LONG 073 51 02)											
JUN , 1976											
30...	1400	--	230	8.0	25.0	--	--	--	--	86	84
30...	1405	--	230	7.1	18.0	--	--	--	--	--	--
AUG											
25...	1200	--	240	8.8	26.0	--	--	--	--	800	<1
25...	1201	--	285	7.4	22.0	--	--	--	--	--	--
01374290 - PEEKSKILL HOLLOW CREEK NEAR PEEKSKILL NY (LAT 41 19 45 LONG 073 53 02)											
AUG , 1976											
05...	1700	14	184	7.8	23.0	--	8.4	104	.4	820	120
G/ 01374300 - PEEKSKILL HOLLOW CREEK AT VANCORTLANDTville NY (LAT 41 19 04 LONG 073 54 19)											
AUG , 1976											
05...	1500	16	216	7.8	21.0	--	9.4	105	.6	350	880
01374390 - FURNACE BROOK NEAR PEEKSKILL NY (LAT 41 14 22 LONG 073 53 55)											
AUG , 1976											
04...	0800	.77	220	7.3	17.0	--	9.0	90	.5	--	46
G/ 01374398 - FURNACE BROOK NEAR CROTON-ON-HUDSON NY (LAT 41 13 51 LONG 073 54 24)											
AUG , 1976											
04...	1100	.94	220	7.6	20.0	--	8.3	91	.5	--	34
G/ 412152073345400 - PEACH LAKE AT PEACH LAKE NY (LAT 41 21 52 LONG 073 34 54)											
JUL , 1976											
07...	1500	--	170	8.1	25.0	--	--	--	--	55	85
07...	1505	--	155	6.6	14.5	--	--	--	--	--	--
AUG											
30...	1200	--	210	8.1	24.0	--	--	--	--	4900	870
30...	1201	--	235	7.5	20.0	--	--	--	--	--	--

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

G Additional analyses in following table, "Chemical quality of bottom material."

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREP- TOCOCCHI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED PO- TAS- SIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
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HUDSON RIVER BASIN--Continued

01374099 - ANNSVILLE CREEK ABOVE WALLACE POND AT PEEKSKILL NY (LAT 41 19 05 LONG 073 55 50)

AUG , 1976 05...	95	93	29	28	5.7	16	1.6	79	0	65	20
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01374200 - SPROUT BROOK NEAR ANNSVILLE NY (LAT 41 19 11 LONG 073 54 57)

AUG , 1976 05...	240	63	18	19	3.7	5.7	1.1	55	0	45	12
---------------------	-----	----	----	----	-----	-----	-----	----	---	----	----

01374260 - BARGER BROOK AT SHRUB OAK NY (LAT 41 19 53 LONG 073 49 15)

AUG , 1976 06...	300	54	13	14	4.7	6.0	1.1	50	0	41	9.5
---------------------	-----	----	----	----	-----	-----	-----	----	---	----	-----

01374268 - SHRUB OAK BROOK AT SHRUB OAK NY (LAT 41 20 03 LONG 073 49 34)

AUG , 1976 06...	400	100	24	26	8.8	19	2.6	94	0	77	22
---------------------	-----	-----	----	----	-----	----	-----	----	---	----	----

411905073510200 - LAKE MOHEGAN AT MOHEGAN LAKE NY (LAT 41 19 05 LONG 073 51 02)

JUN , 1976 30...	B3	79	21	22	5.8	12	1.9	70	0	57	15
30...	--	79	19	22	5.9	12	1.9	74	0	61	11
AUG 25...	22	78	19	21	6.3	13	1.8	72	0	59	11
25...	--	80	19	22	6.2	13	1.8	74	0	61	11

01374290 - PEEKSKILL HOLLOW CREEK NEAR PEEKSKILL NY (LAT 41 19 45 LONG 073 53 02)

AUG , 1976 05...	140	72	20	19	6.0	9.4	1.8	64	0	53	14
---------------------	-----	----	----	----	-----	-----	-----	----	---	----	----

01374300 - PEEKSKILL HOLLOW CREEK AT VANCORTLANDTville NY (LAT 41 19 04 LONG 073 54 19)

AUG , 1976 05...	90	80	22	21	6.8	11	1.8	71	0	58	15
---------------------	----	----	----	----	-----	----	-----	----	---	----	----

01374390 - FURNACE BROOK NEAR PEEKSKILL NY (LAT 41 14 22 LONG 073 53 55)

AUG , 1976 04...	--	100	16	18	14	10	2.2	105	0	86	13
---------------------	----	-----	----	----	----	----	-----	-----	---	----	----

01374398 - FURNACE BROOK NEAR CROTON-ON-HUDSON NY (LAT 41 13 51 LONG 073 54 24)

AUG , 1976 04...	--	86	18	18	10	8.9	1.9	83	0	68	13
---------------------	----	----	----	----	----	-----	-----	----	---	----	----

412152073345400 - PEACH LAKE AT PEACH LAKE NY (LAT 41 21 52 LONG 073 34 54)

JUL , 1976 07...	66	58	17	16	4.5	5.7	1.5	51	0	42	13
07...	--	60	13	16	4.8	5.7	1.6	57	0	47	12
AUG 30...	B18	56	15	15	4.4	5.5	1.5	50	0	41	12
30...	--	61	11	16	5.0	5.5	1.6	61	0	50	10

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

CONTINUED NEXT PAGE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
HUDSON RIVER BASIN--Continued											
01374099 - ANNSVILLE CREEK ABOVE WALLACE POND AT PEEKSKILL NY (LAT 41 19 05 LONG 073 55 50)											
AUG , 1976 05...	29	16	--	1	.45	.01	.09	.10	.55	.04	--
01374200 - SPROUT BROOK NEAR ANNSVILLE NY (LAT 41 19 11 LONG 073 54 57)											
AUG , 1976 05...	10	7.0	--	0	.31	.00	.40	.40	.71	.02	--
01374260 - BARGER BROOK AT SHRUB OAK NY (LAT 41 19 53 LONG 073 49 15)											
AUG , 1976 06...	10	9.2	--	1	.15	.01	.37	.38	.53	.03	--
01374268 - SHRUB OAK BROOK AT SHRUB OAK NY (LAT 41 20 03 LONG 073 49 34)											
AUG , 1976 06...	26	5.0	--	1	1.2	.02	.51	.53	1.7	.50	--
411905073510200 - LAKE MOHEGAN AT MOHEGAN LAKE NY (LAT 41 19 05 LONG 073 51 02)											
JUN , 1976 30...	24	.3	--	--	.01	.04	.61	.65	.66	.04	.01
30...	24	.8	--	--	.02	.09	2.1	2.2	2.2	.18	.02
AUG 25...	21	3.1	--	--	.01	.03	.68	.71	.72	.02	.01
25...	20	3.6	--	--	.01	.06	.69	.75	.76	.08	.01
01374290 - PEEKSKILL HOLLOW CREEK NEAR PEEKSKILL NY (LAT 41 19 45 LONG 073 53 02)											
AUG , 1976 05...	16	6.9	--	0	.47	.00	.40	.40	.87	.07	--
01374300 - PEEKSKILL HOLLOW CREEK AT VANCORTLANDTville NY (LAT 41 19 04 LONG 073 54 19)											
AUG , 1976 05...	19	7.0	--	0	.66	.00	.30	.30	.96	.07	--
01374390 - FURNACE BROOK NEAR PEEKSKILL NY (LAT 41 14 22 LONG 073 53 55)											
AUG , 1976 04...	16	11	--	3	.18	.01	.49	.50	.68	.08	--
01374398 - FURNACE BROOK NEAR CROTON-ON-HUDSON NY (LAT 41 13 51 LONG 073 54 24)											
AUG , 1976 04...	15	7.5	--	0	.27	.01	.57	.58	.85	.06	--
412152073345400 - PEACH LAKE AT PEACH LAKE NY (LAT 41 21 52 LONG 073 34 54)											
JUL , 1976 07...	11	2.0	--	--	.00	.04	.81	.85	.85	.05	.01
07...	11	4.3	--	--	.01	.07	.91	.98	.99	.08	.01
AUG 30...	11	2.7	--	--	.01	.01	.62	.63	.64	.04	.01
30...	11	4.9	--	--	.01	.10	.83	.93	.94	.09	.01

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
HUDSON RIVER BASIN--Continued											
01374545 - EAST BRANCH CROTON RIVER AT CROTON FALLS NY (LAT 41 21 25 LONG 073 39 22)											
AUG , 1976											
05...	0830	56	223	7.8	18.5	--	8.9	96	.7	96	E40
01374705 - WEST BRANCH CROTON RIVER AT CROTON FALLS NY (LAT 41 20 55 LONG 073 40 03)											
AUG , 1976											
05...	0945	66	113	7.7	22.0	--	8.4	96	.2	1300	B14
01374780 - TITICUS RIVER AT SALFM CENTER NY (LAT 41 19 32 LONG 073 35 27)											
AUG , 1976											
05...	1700	4.0	292	7.6	21.0	--	8.3	93	.0	280	22
01374788 - CROOK BROOK AT SALEM CENTER NY (LAT 41 19 24 LONG 073 35 51)											
AUG , 1976											
05...	1500	.66	162	7.4	25.0	--	8.2	99	.2	270	40
01374830 - CROTON RIVER TRIBUTARY AT GOLDENS BRIDGE NY (LAT 41 18 16 LONG 073 40 16)											
AUG , 1976											
04...	1345	.85	175	9.6	24.0	--	10.4	124	3.7	3200	47
G/ 411713073391700 - LAKE KATONAH AT LAKE KATONAH NY (LAT 41 17 13 LONG 073 39 17)											
JUL , 1976											
01...	1200	--	185	6.8	24.0	--	--	--	--	250	B80
01...	1205	--	183	6.8	24.0	--	--	--	--	--	--
AUG											
26...	1200	--	195	7.8	26.0	--	--	--	--	83	<1
26...	1201	--	205	8.2	24.0	--	--	--	--	--	--
G/ 412024073434000 - LAKE LINCOLNDALE AT LINCOLNDALE NY (LAT 41 20 24 LONG 073 43 40)											
JUN , 1976											
29...	1500	--	300	8.2	25.0	--	--	--	--	868	B16
29...	1505	--	310	7.3	18.0	--	--	--	--	--	--
AUG											
24...	1400	--	300	8.7	26.0	--	--	--	--	8230	20
24...	1401	--	330	8.1	21.0	--	--	--	--	--	--
01374840 - MUSCOOT RESERVOIR TRIBUTARY AT SOMERS NY (LAT 41 19 37 LONG 073 41 36)											
AUG , 1976											
05...	1545	.39	295	7.8	24.0	--	10.5	121	1.2	1100	240
01374860 - PLUM BROOK AT LINCOLNDALE NY (LAT 41 19 20 LONG 073 42 42)											
AUG , 1976											
05...	1630	1.2	245	8.4	21.0	--	12.1	134	.9	980	B280
01374880 - WACCABUC RIVER AT BOUTONVILLE NY (LAT 41 15 29 LONG 073 33 59)											
AUG , 1976											
04...	1800	7.0	158	7.2	20.5	--	8.6	95	1.4	520	B90

B Results based on colony count outside the acceptable range (non-ideal colony count).
 G Additional analyses in following table, "Chemical quality of bottom material."

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
HUDSON RIVER BASIN--Continued											
01374545 - EAST BRANCH CROTON RIVER AT CROTON FALLS NY (LAT 41 21 25 LONG 073 39 22)											
AUG , 1976 05...	26	73	16	19	6.3	12	1.6	70	0	57	11
01374705 - WEST BRANCH CROTON RIVER AT CROTON FALLS NY (LAT 41 20 55 LONG 073 40 03)											
AUG , 1976 05...	77	33	7	8.7	2.7	5.6	.9	31	0	25	8.7
01374780 - TITICUS RIVER AT SALEM CENTER NY (LAT 41 19 32 LONG 073 35 27)											
AUG , 1976 05...	110	130	21	33	11	8.3	2.3	130	0	107	13
01374788 - CROOK BROOK AT SALEM CENTER NY (LAT 41 19 24 LONG 073 35 51)											
AUG , 1976 05...	23	64	6	18	4.7	4.1	1.4	71	0	58	11
01374830 - CROTON RIVER TRIBUTARY AT GOLDENS BRIDGE NY (LAT 41 18 16 LONG 073 40 16)											
AUG , 1976 04...	69	60	11	16	4.8	8.0	1.7	60	0	49	8.2
411713073391700 - LAKE KATONAH AT LAKE KATONAH NY (LAT 41 17 13 LONG 073 39 17)											
JUL , 1976 01...	120	66	13	17	5.7	8.0	2.1	64	0	53	12
01...	--	63	11	16	5.6	7.8	2.1	63	0	52	9.8
AUG 26...	<1	67	5	17	6.0	8.7	2.2	76	0	62	4.8
26...	--	71	9	18	6.4	8.7	2.2	76	0	62	4.2
412024073434000 - LAKE LINCOLNDALE AT LINCOLNDALE NY (LAT 41 20 24 LONG 073 43 40)											
JUN , 1976 29...	24	97	25	23	9.7	18	1.4	88	0	72	12
29...	--	100	23	24	10	18	1.6	95	0	78	11
AUG 24...	817	97	21	23	9.5	17	1.3	93	0	76	10
24...	--	95	15	24	8.6	16	1.3	97	0	80	10
01374840 - MUSCOOT RESERVOIR TRIBUTARY AT SOMERS NY (LAT 41 19 37 LONG 073 41 36)											
AUG , 1976 05...	170	110	42	29	8.2	12	3.0	78	0	64	25
01374860 - PLUM BROOK AT LINCOLNDALE NY (LAT 41 19 20 LONG 073 42 42)											
AUG , 1976 05...	170	89	17	22	8.2	11	1.7	88	0	72	11
01374880 - WACCABUC RIVER AT BOUTONVILLE NY (LAT 41 15 29 LONG 073 33 59)											
AUG , 1976 04...	180	61	11	18	4.0	5.8	1.5	62	0	51	9.2

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

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

573

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NON-FILTERABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)
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HUDSON RIVER BASIN--Continued

01374545 - EAST BRANCH CROTON RIVER AT CROTON FALLS NY (LAT 41 21 25 LONG 073 39 22)

AUG , 1976											
05...	22	2.9	--	6	.17	.02	.41	.43	.60	.04	--

01374705 - WEST BRANCH CROTON RIVER AT CROTON FALLS NY (LAT 41 20 55 LONG 073 40 03)

AUG , 1976											
05...	9.1	2.0	--	2	.04	.02	.48	.50	.54	.02	.01

01374780 - TITICUS RIVER AT SALEM CENTER NY (LAT 41 19 32 LONG 073 35 27)

AUG , 1976											
05...	17	8.7	--	1	.35	.00	.40	.40	.75	.05	--

01374788 - CROOK BROOK AT SALEM CENTER NY (LAT 41 19 24 LONG 073 35 51)

AUG , 1976											
05...	6.7	5.0	--	3	.05	.01	.34	.35	.40	.04	--

01374830 - CROTON RIVER TRIBUTARY AT GOLDENS BRIDGE NY (LAT 41 18 16 LONG 073 40 16)

AUG , 1976											
04...	12	9.2	--	6	.03	.02	.68	.70	.73	.06	--

411713073391700 - LAKE KATONAH AT LAKE KATONAH NY (LAT 41 17 13 LONG 073 39 17)

JUL , 1976											
01...	13	4.5	--	--	.03	.26	.64	.90	.93	.06	.02
01...	13	4.5	--	--	.04	.28	.62	.90	.94	.07	.02
AUG											
26...	12	7.3	--	--	.00	.07	.90	.97	.97	.04	.00
26...	11	7.2	--	--	.01	.11	.84	.95	.96	.07	.01

412024073434000 - LAKE LINCOLNDALE AT LINCOLNDALE NY (LAT 41 20 24 LONG 073 43 40)

JUN , 1976											
29...	35	2.4	--	--	.01	.01	.49	.50	.51	.04	.01
29...	35	3.2	--	--	.03	.52	.88	1.4	1.4	.09	.01
AUG											
24...	29	5.1	--	--	.01	.00	.50	.50	.51	.01	.00
24...	28	5.3	--	--	.03	.22	1.2	1.4	1.4	.10	.01

01374840 - MUSCOOT RESERVOIR TRIBUTARY AT SOMERS NY (LAT 41 19 37 LONG 073 41 36)

AUG , 1976											
05...	26	11	--	28	2.2	.01	.44	.45	2.7	.08	--

01374860 - PLUM BROOK AT LINCOLNDALE NY (LAT 41 19 20 LONG 073 42 42)

AUG , 1976											
05...	20	8.1	--	21	.50	.01	.29	.30	.80	.09	--

01374880 - WACCABUC RIVER AT BOUTONVILLE NY (LAT 41 15 29 LONG 073 33 59)

AUG , 1976											
04...	10	6.2	--	4	.14	.01	.67	.68	.82	.07	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976											
DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPE-CIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
HUDSON RIVER BASIN--Continued											
01374890 - CROSS RIVER NEAR CROSS RIVER NY (LAT 41 15 37 LONG 073 36 09)											
AUG , 1976 05...	1245	8.8	150	7.8	21.0	--	9.3	104	.4	220	84
01374908 - STONE HILL RIVER AT BEDFORD NY (LAT 41 12 57 LONG 073 37 57)											
AUG , 1976 04...	1415	2.8	173	7.5	20.5	--	9.5	95	.0	3800	31
01374917 - BROAD BROOK AT KATONAH NY (LAT 41 15 54 LONG 073 40 14)											
AUG , 1976 05...	0915	2.5	408	7.7	17.5	--	9.0	94	.1	520	75
01374919 - STONE HILL RIVER AT KATONAH NY (LAT 41 15 06 LONG 073 40 35)											
AUG , 1976 05...	0800	8.5	257	7.4	17.0	--	9.9	103	.0	660	88
01374930 - MUSCOOT RIVER AT BALDWIN PLACE NY (LAT 41 20 17 LONG 073 46 09)											
AUG , 1976 06...	0815	1.8	255	7.5	19.0	--	6.0	65	1.2	2600	8530
01374937 - LAKE SHENOROCK OUTLET AT SHENOROCK NY (LAT 41 19 37 LONG 073 44 22)											
AUG , 1976 04...	1745	.13	270	9.1	29.0	--	8.5	110	5.2	1300	872
01374948 - CROM POND OUTLET AT YORKTOWN NY (LAT 41 16 52 LONG 073 47 35)											
AUG , 1976 04...	1800	1.8	214	6.8	24.0	--	1.4	17	1.4	--	30
01374976 - ANGLE FLY BROOK AT WHITEHALL NY (LAT 41 16 57 LONG 073 43 33)											
AUG , 1976 04...	1330	.40	215	7.5	18.0	--	8.6	92	.0	1500	37
01374983 - KISCO RIVER AT LEXINGTON AVE AT MOUNT KISCO NY (LAT 41 11 40 LONG 073 44 00)											
AUG , 1976 04...	0800	2.3	185	7.5	16.0	--	9.0	92	.8	87100	160
01374987 - KISCO RIVER BELOW MOUNT KISCO NY (LAT 41 13 43 LONG 073 44 39)											
AUG , 1976 04...	0910	6.6	290	7.8	16.5	--	9.1	95	1.0	1400	876
01374988 - GEDNEY BROOK NEAR MOUNT KISCO NY (LAT 41 12 52 LONG 073 46 16)											
AUG , 1976 04...	1245	.67	280	7.6	16.5	--	9.1	95	.0	5700	69
01374992 - HUNTER BROOK NEAR YORKTOWN NY (LAT 41 17 29 LONG 073 49 59)											
AUG , 1976 04...	1400	.47	120	7.4	19.0	--	10.0	120	.7	--	42

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

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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
HUDSON RIVER BASIN--Continued											
01374890 - CROSS RIVER NEAR CROSS RIVER NY (LAT 41 15 37 LONG 073 36 09)											
AUG , 1976 05...	80	59	9	17	3.9	5.3	1.3	60	0	49	10
01374908 - STONE HILL RIVER AT BEDFORD NY (LAT 41 12 57 LONG 073 37 57)											
AUG , 1976 04...	80	45	3	11	4.3	9.4	1.5	52	--	43	9.1
01374917 - BROAD BROOK AT KATONAH NY (LAT 41 15 54 LONG 073 40 14)											
AUG , 1976 05...	260	170	49	45	15	13	3.4	152	0	125	32
01374919 - STONE HILL RIVER AT KATONAH NY (LAT 41 15 06 LONG 073 40 35)											
AUG , 1976 05...	140	100	30	26	8.6	10	2.2	86	0	71	20
01374930 - MUSCOOT RIVER AT BALDWIN PLACE NY (LAT 41 20 17 LONG 073 46 09)											
AUG , 1976 06...	200	83	15	21	7.5	13	1.6	83	0	68	11
01374937 - LAKE SHENOROCK OUTLET AT SHENOROCK NY (LAT 41 19 37 LONG 073 44 22)											
AUG , 1976 04...	73	100	10	24	9.9	13	2.2	110	0	90	5.6
01374948 - CROM POND OUTLET AT YORKTOWN NY (LAT 41 16 52 LONG 073 47 35)											
AUG , 1976 04...	32	78	14	20	6.9	12	1.2	79	0	65	10
01374976 - ANGLE FLY BROOK AT WHITEHALL NY (LAT 41 16 57 LONG 073 43 33)											
AUG , 1976 04...	100	85	13	21	7.9	6.7	1.2	88	0	72	11
01374983 - KISCO RIVER AT LEXINGTON AVE AT MOUNT KISCO NY (LAT 41 11 40 LONG 073 44 00)											
AUG , 1976 04...	310	71	19	19	5.6	7.6	2.1	63	0	52	16
01374987 - KISCO RIVER BELOW MOUNT KISCO NY (LAT 41 13 43 LONG 073 44 39)											
AUG , 1976 04...	450	99	22	27	7.6	16	3.4	93	0	76	15
01374988 - GEDNEY BROOK NEAR MOUNT KISCO NY (LAT 41 12 52 LONG 073 46 16)											
AUG , 1976 04...	170	99	35	27	7.6	13	2.9	78	0	64	21
01374992 - HUNTER BROOK NEAR YORKTOWN NY (LAT 41 17 29 LONG 073 49 59)											
AUG , 1976 04...	--	110	33	27	9.7	14	1.9	91	0	75	19

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
HUDSON RIVER BASIN--Continued											
01374890 - CROSS RIVER NEAR CROSS RIVER NY (LAT 41 15 37 LONG 073 36 09)											
AUG , 1976 05...	9.1	7.8	--	2	.12	.00	.35	.35	.47	.06	--
01374908 - STONE HILL RIVER AT BEDFORD NY (LAT 41 12 57 LONG 073 37 57)											
AUG , 1976 04...	16	8.8	--	6	.25	.01	.49	.50	.75	.03	--
01374917 - BROAD BROOK AT KATONAH NY (LAT 41 15 54 LONG 073 40 14)											
AUG , 1976 05...	33	13	--	2	1.0	.01	.44	.45	1.5	.17	--
01374919 - STONE HILL RIVER AT KATONAH NY (LAT 41 15 06 LONG 073 40 35)											
AUG , 1976 05...	20	11	--	1	.54	.00	.33	.33	.87	.07	--
01374930 - MUSCOOT RIVER AT BALDWIN PLACE NY (LAT 41 20 17 LONG 073 46 09)											
AUG , 1976 06...	22	7.3	--	8	.26	.01	.67	.68	.94	.07	--
01374937 - LAKE SHENOROCK OUTLET AT SHENOROCK NY (LAT 41 19 37 LONG 073 44 22)											
AUG , 1976 04...	22	6.4	--	4	.01	.02	1.2	1.2	1.2	.07	--
01374948 - CROM POND OUTLET AT YORKTOWN NY (LAT 41 16 52 LONG 073 47 35)											
AUG , 1976 04...	19	7.4	--	1	.33	.18	.42	.60	.93	.06	--
01374976 - ANGLE FLY BROOK AT WHITEHALL NY (LAT 41 16 57 LONG 073 43 33)											
AUG , 1976 04...	11	9.7	--	53	.10	.00	.28	.28	.38	.06	--
01374983 - KISCO RIVER AT LEXINGTON AVE AT MOUNT KISCO NY (LAT 41 11 40 LONG 073 44 00)											
AUG , 1976 04...	13	12	--	1	.30	.01	.29	.30	.60	.05	--
01374987 - KISCO RIVER BELOW MOUNT KISCO NY (LAT 41 13 43 LONG 073 44 39)											
AUG , 1976 04...	29	13	--	1	.36	.00	.28	.28	.64	.07	--
01374988 - GEDNEY BROOK NEAR MOUNT KISCO NY (LAT 41 12 52 LONG 073 46 16)											
AUG , 1976 04...	25	14	--	2	1.4	.00	.28	.28	1.7	.04	--
01374992 - HUNTER BROOK NEAR YORKTOWN NY (LAT 41 17 29 LONG 073 49 59)											
AUG , 1976 04...	28	13	--	1	1.1	.01	.07	.08	1.2	.03	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
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HUDSON RIVER BASIN--Continued

01374993 - HUNTER BROOK BELOW MILL POND NEAR YORKTOWN NY (LAT 41 16 49 LONG 073 50 03)

AUG , 1976	04...	1600	1.5	258	7.1	24.0	--	5.9	75	3.3	--	140
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F/ 01376270 - SPARKILL CREEK AT TAPPAN NY (LAT 41 01 26 LONG 072 56 52)

JUL , 1976	22...	1400	2.6	490	8.1	22.0	1	9.0	--	--	--	--
AUG	10...	0900	68	185	7.0	19.0	25	7.7	84	--	23000	4600
SEP	29...	1030	2.4	520	7.9	11.0	2	10.2	94	--	--	--

F/ 01376280 - SPARKILL CREEK AT SPARKILL NY (LAT 41 01 44 LONG 073 55 34)

JUL , 1976	22...	1115	5.4	460	7.6	21.0	2	9.4	102	--	--	--
AUG	10...	1025	513	122	6.7	20.0	25	6.8	75	--	45000	9400
SEP	28...	1130	10	300	7.6	17.0	2	8.4	88	--	--	--

DELAWARE RIVER BASIN

01425992 - BONE CREEK ABOVE DEPOSIT NY (LAT 42 03 41 LONG 075 26 10)

OCT , 1975	01...	1730	2.3	45	7.2	19.0	15	10.1	100	--	--	--
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01426000 - OQUAGA CREEK AT DEPOSIT NY (LAT 42 03 31 LONG 075 25 42)

OCT , 1975	02...	1200	120	71	7.0	12.0	2	10.4	97	--	--	--
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SUSQUEHANNA RIVER BASIN

F/ 01501004 - MILL BROOK AT SHERBURNE TURNPIKE AT NEW BERLIN (LAT 42 38 13 LONG 075 21 07)

OCT , 1975	23...	1130	4.3	102	7.2	11.0	1	8.8	79	--	--	--
JUN , 1976	22...	1130	2.1	142	7.2	18.0	2	9.0	94	--	--	--
JUL	13...	1130	2.5	144	7.4	15.0	3	9.4	92	--	8850	190
AUG	04...	1330	.36	170	7.1	16.5	1	7.7	76	--	--	--
SEP	09...	1100	.79	155	7.0	15.0	3	8.8	86	--	260	810

F/ 01501008 - MILL BROOK TRIBUTARY ABOVE NEW BERLIN NY (LAT 42 37 34 LONG 075 21 06)

OCT , 1975	23...	1030	4.7	182	7.5	11.0	2	9.8	88	--	--	--
JUN , 1976	22...	1030	1.9	235	7.3	19.0	2	8.9	96	--	--	--
JUL	13...	1030	3.6	225	7.6	16.0	2	9.3	95	--	350	899
AUG	04...	1230	.71	275	7.2	17.0	1	7.9	81	--	--	--
SEP	09...	1000	1.1	250	7.2	14.5	2	9.0	87	--	350	57

F/ 01505050 - CANASAWACTA CREEK NEAR NORTH PHARSALIA NY (LAT 42 36 36 LONG 075 39 41)

JUL , 1976	14...	1130	52	56	7.0	15.0	2	9.5	--	--	500	260
AUG	04...	1030	4.0	80	7.4	17.0	1	9.2	95	--	--	--
SEP	08...	1130	4.2	88	7.3	17.0	1	8.8	90	--	81	816

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

F Additional analyses in following table, "Selected trace constituents."

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREP- TOCOCCHI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
HUDSON RIVER BASIN--Continued											
01374993 - HUNTER BROOK BELOW MILL POND NEAR YORKTOWN NY (LAT 41 16 49 LONG 073 50 03)											
AUG , 1976 04...	--	98	22	26	8.1	15	2.2	93	0	76	15
01376270 - SPARKILL CREEK AT TAPPAN NY (LAT 41 01 26 LONG 072 56 52)											
JUL , 1976 22...	--	200	45	60	13	25	1.8	193	0	158	37
AUG 10...	1300	55	18	17	3.1	8.3	1.7	45	0	37	19
SEP 29...	--	210	51	63	13	17	1.6	195	0	160	36
01376280 - SPARKILL CREEK AT SPARKILL NY (LAT 41 01 44 LONG 073 55 34)											
JUL , 1976 22...	--	190	47	55	13	24	2.0	175	0	144	41
AUG 10...	2300	32	13	9.7	1.8	5.6	1.8	23	0	19	14
SEP 28...	--	110	26	33	7.1	14	1.8	104	0	85	28
DELAWARE RIVER BASIN											
01425992 - BONE CREEK ABOVE DEPOSIT NY (LAT 42 03 41 LONG 075 26 10)											
OCT , 1975 01...	--	18	8	5.8	.9	1.6	1.1	13	0	11	8.8
01426000 - OQUAGA CREEK AT DEPOSIT NY (LAT 42 03 31 LONG 075 25 42)											
OCT , 1975 02...	--	23	9	7.2	1.1	2.8	.9	16	0	13	9.5
SUSQUEHANNA RIVER BASIN											
01501004 - MILL BROOK AT SHERBURNE TURNPIKE AT NEW BERLIN (LAT 42 38 13 LONG 075 21 07)											
OCT , 1975 23...	--	45	13	15	1.9	1.3	1.1	39	0	32	11
JUN , 1976 22...	--	62	7	21	2.4	1.5	.8	68	0	56	6.0
JUL 13...	330	60	3	21	1.9	1.0	1.0	70	0	57	5.6
AUG 04...	--	84	6	29	2.7	1.7	1.0	94	0	77	8.5
SEP 09...	42	76	13	26	2.6	1.4	.9	76	0	62	8.7
01501008 - MILL BROOK TRIBUTARY ABOVE NEW BERLIN NY (LAT 42 37 34 LONG 075 21 06)											
OCT , 1975 23...	--	76	8	26	2.8	3.1	1.3	84	0	69	11
JUN , 1976 22...	--	100	10	36	3.6	2.6	1.1	115	0	94	8.8
JUL 13...	190	110	14	38	2.8	4.0	1.3	113	0	93	8.0
AUG 04...	--	120	11	42	3.6	3.0	1.1	133	0	109	10
SEP 09...	41	120	18	40	4.5	2.9	1.2	123	0	101	12
01505050 - CANASAWACTA CREEK NEAR NORTH PHARSALIA NY (LAT 42 36 36 LONG 075 39 41)											
JUL , 1976 14...	8120	31	14	11	.8	.0	.5	20	0	16	6.9
AUG 04...	--	29	2	9.3	1.5	1.9	.7	33	0	27	8.0
SEP 08...	20	34	7	11	1.7	1.7	.8	34	0	28	8.5

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

CONTINUED NEXT PAGE

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
------	---	--	--	--	--	--	--	--	---	---	--

HUDSON RIVER BASIN--Continued

01374993 - HUNTER BROOK BELOW MILL POND NEAR YORKTOWN NY (LAT 41 16 49 LONG 073 50 03)

AUG , 1976											
04...	23	11	--	2	.54	.06	.69	.75	1.3	.12	--

01376270 - SPARKILL CREEK AT TAPPAN NY (LAT 41 01 26 LONG 072 56 52)

JUL , 1976											
22...	35	--	322	1	1.3	.01	.24	.25	1.6	.03	.02
AUG											
10...	12	--	115	84	.45	.05	.88	.93	1.4	.18	.08
SEP											
29...	36	--	306	2	1.3	.05	.15	.20	1.5	.03	.03

01376280 - SPARKILL CREEK AT SPARKILL NY (LAT 41 01 44 LONG 073 55 34)

JUL , 1976											
22...	34	--	307	1	1.0	.09	.19	.28	1.3	.05	.03
AUG											
10...	9.8	--	83	47	.31	.06	.74	.80	1.1	.18	.08
SEP											
28...	25	--	194	8	.64	.08	.40	.48	1.1	.07	.06

DELAWARE RIVER BASIN

01425992 - BONE CREEK ABOVE DEPOSIT NY (LAT 42 03 41 LONG 075 26 10)

OCT , 1975											
01...	2.1	--	45	7	.12	.01	.20	.21	.33	.05	.02

01426000 - OQUAGA CREEK AT DEPOSIT NY (LAT 42 03 31 LONG 075 25 42)

OCT , 1975											
02...	4.0	--	39	4	.44	.01	.19	.20	.64	.03	.01

SUSQUEHANNA RIVER BASIN

01501004 - MILL BROOK AT SHERBURNE TURNPIKE AT NEW BERLIN (LAT 42 38 13 LONG 075 21 07)

OCT , 1975											
23...	2.5	--	75	2	.17	.00	.22	.22	.39	.16	.01
JUN , 1976											
22...	1.4	--	80	7	.18	.00	.25	.25	.43	.04	.01
JUL											
13...	.9	--	93	6	.15	.01	.32	.33	.48	.04	.01
AUG											
04...	1.9	--	101	5	.21	.01	.17	.18	.39	.03	.01
SEP											
09...	1.8	--	87	2	.19	.01	.22	.23	.42	.03	.01

01501008 - MILL BROOK TRIBUTARY ABOVE NEW BERLIN NY (LAT 42 37 34 LONG 075 21 06)

OCT , 1975											
23...	4.1	--	111	2	.66	.00	.22	.22	.88	.02	.01
JUN , 1976											
22...	4.4	--	134	7	.60	.01	.37	.38	.98	.04	.01
JUL											
13...	3.4	--	135	4	.53	.02	.38	.40	.93	.04	.01
AUG											
04...	3.9	--	145	5	.62	.01	.22	.23	.85	.02	.01
SEP											
09...	5.0	--	142	4	.60	.01	.24	.25	.85	.03	.01

01505050 - CANASAWACTA CREEK NEAR NORTH PHARSALIA NY (LAT 42 36 36 LONG 075 39 41)

JUL , 1976											
14...	.5	--	42	6	.09	.01	.24	.25	.34	.02	.01
AUG											
04...	1.9	--	40	1	.15	.01	.12	.13	.28	.02	.01
SEP											
08...	2.1	--	42	2	.14	.01	.39	.40	.54	.02	.01

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
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SUSQUEHANNA RIVER BASIN--Continued

F/ 01505125 - EAST BRANCH CANASAWACTA CREEK NEAR PLYMOUTH NY (LAT 42 38 20 LONG 075 38 05)

JUL , 1976											
14...	1300	19	77	7.0	15.0	3	9.1	89	--	B910	370
AUG											
04...	1130	2.8	90	7.5	17.5	1	9.3	95	--	--	--
SEP											
08...	1300	7.8	85	7.4	17.0	3	9.0	93	--	B150	19

F/ 01505500 - CANASAWACTA CREEK NEAR SOUTH PLYMOUTH, N.Y. (LAT 42 33 49 LONG 075 33 09)

JUN , 1976											
23...	1000	93	106	6.6	19.0	2	8.6	92	--	--	--
JUL											
14...	0930	134	97	7.3	15.0	3	9.2	90	--	540	B120
AUG											
04...	0930	16	142	7.5	16.0	1	9.2	93	--	--	--
SEP											
08...	1000	28	138	7.2	15.0	1	9.8	96	--	240	47

01509104 - GRIDLEY CREEK AT PAGE GREEN RD NR BLODGETT MILLS (LAT 42 32 12 LONG 076 09 48)

AUG , 1976											
24...	0815	.12	--	6.5	14.0	--	--	--	--	--	--

01509110 - GRIDLEY CREEK ABOVE PAGE GREEN RD NEAR VIRGIL NY (LAT 42 30 44 LONG 076 09 57)

AUG , 1976											
24...	1400	.29	--	7.4	24.0	--	--	--	--	--	--

01509116 - GRIDLEY CREEK TRIBUTARY TO TRIB NO 3 NR VIRGIL (LAT 42 30 36 LONG 076 10 22)

AUG , 1976											
24...	1055	.14	--	7.2	15.0	--	--	--	--	--	--

01509118 - GRIDLEY CREEK TRIBUTARY NO 3 AT MOUTH NR VIRGIL (LAT 42 30 43 LONG 076 09 57)

AUG , 1976											
24...	1315	.18	--	7.2	18.0	--	--	--	--	--	--

01509120 - GRIDLEY CREEK AT PAGE GREEN ROAD NEAR VIRGIL NY (LAT 42 30 43 LONG 076 09 44)

AUG , 1976											
24...	1530	.85	0	7.1	21.0	--	--	--	--	--	--

01509125 - GRIDLEY CREEK NEAR VIRGIL NY (LAT 42 30 38 LONG 076 09 17)

AUG , 1976											
24...	1425	1.1	--	7.8	23.0	--	--	--	--	--	--

01509127 - GRIDLEY CREEK TRIBUTARY NEAR VIRGIL NY (LAT 42 30 38 LONG 076 09 05)

AUG , 1976											
24...	1345	.38	--	7.6	23.0	--	--	--	--	--	--

01509135 - GRIDLEY CREEK AT GREEK PEAK NEAR VIRGIL NY (LAT 42 30 26 LONG 076 08 26)

AUG , 1976											
24...	1310	2.1	--	7.7	20.0	--	--	--	--	--	--

B Results based on colony count outside the acceptable range (non-ideal colony count).
F Additional analyses in following table, "Selected trace constituents."

CONTINUED NEXT PAGE

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREP- TOCOCCHI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
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SUSQUEHANNA RIVER BASIN--Continued

01505125 - EAST BRANCH CANASAWACTA CREEK NEAR PLYMOUTH NY (LAT 42 38 20 LONG 075 38 05)

JUL , 1976											
14...	280	38	7	13	1.4	1.3	.6	38	0	31	5.6
AUG											
04...	--	33	0	10	1.9	1.6	.8	41	0	34	8.1
SEP											
08...	36	36	4	11	2.0	1.4	.7	39	0	32	9.9

01505500 - CANASAWACTA CREEK NEAR SOUTH PLYMOUTH, N.Y. (LAT 42 33 49 LONG 075 33 09)

JUN , 1976											
23...	--	45	8	14	2.5	2.8	.7	46	0	38	8.4
JUL											
14...	280	43	8	15	1.4	1.0	.8	43	0	35	7.1
AUG											
04...	--	62	11	20	2.9	2.5	.9	62	0	51	7.9
SEP											
08...	24	69	20	21	3.9	5.2	1.0	59	0	48	12

01509104 - GRIDLEY CREEK AT PAGE GREEN RD NR BLODGETT MILLS (LAT 42 32 12 LONG 076 09 48)

AUG , 1976											
24...	--	78	21	24	4.4	12	1.8	70	--	57	13

01509110 - GRIDLEY CREEK ABOVE PAGE GREEN RD NEAR VIRGIL NY (LAT 42 30 44 LONG 076 09 57)

AUG , 1976											
24...	--	60	12	18	3.7	5.0	1.4	59	--	48	10

01509116 - GRIDLEY CREEK TRIBUTARY TO TRIB NO 3 NR VIRGIL (LAT 42 30 36 LONG 076 10 22)

AUG , 1976											
24...	--	160	22	50	8.6	5.7	1.7	169	--	139	14

01509118 - GRIDLEY CREEK TRIBUTARY NO 3 AT MOUTH NR VIRGIL (LAT 42 30 43 LONG 076 09 57)

AUG , 1976											
24...	--	140	24	41	8.7	5.0	1.4	139	--	114	15

01509120 - GRIDLEY CREEK AT PAGE GREEN ROAD NEAR VIRGIL NY (LAT 42 30 43 LONG 076 09 44)

AUG , 1976											
24...	--	0	0	.0	.0	.0	.0	0	--	0	.0

01509125 - GRIDLEY CREEK NEAR VIRGIL NY (LAT 42 30 38 LONG 076 09 17)

AUG , 1976											
24...	--	95	--	28	6.2	6.8	1.2	--	--	--	13

01509127 - GRIDLEY CREEK TRIBUTARY NEAR VIRGIL NY (LAT 42 30 38 LONG 076 09 05)

AUG , 1976											
24...	--	39	5	11	2.8	2.4	.8	41	--	34	8.6

01509135 - GRIDLEY CREEK AT GREEK PEAK NEAR VIRGIL NY (LAT 42 30 26 LONG 076 08 26)

AUG , 1976											
24...	--	110	17	34	5.0	6.5	1.1	108	--	89	11

CONTINUED NEXT PAGE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
------	---	--	--	--	--	--	--	--	---	---	--

SUSQUEHANNA RIVER BASIN--Continued

01505125 - EAST BRANCH CANASAWACTA CREEK NEAR PLYMOUTH NY (LAT 42 38 20 LONG 075 38 05)

JUL , 1976											
14...	.8	--	48	5	.11	.01	.32	.33	.44	.05	.01
AUG											
04...	1.1	--	50	4	.13	.02	.16	.18	.31	.03	.01
SEP											
08...	1.1	--	47	2	.09	.01	.17	.18	.27	.03	.01

01505500 - CANASAWACTA CREEK NEAR SOUTH PLYMOUTH, N.Y. (LAT 42 33 49 LONG 075 33 09)

JUN , 1976											
23...	2.2	--	58	3	.13	.01	.29	.30	.43	.03	.00
JUL											
14...	1.4	--	64	6	.16	.01	.29	.30	.46	.03	.01
AUG											
04...	1.5	--	75	1	.12	.01	.14	.15	.27	.01	.01
SEP											
08...	2.8	--	72	2	.14	.01	.17	.18	.32	.04	.02

01509104 - GRIDLEY CREEK AT PAGE GREEN RD NR BLODGETT MILLS (LAT 42 32 12 LONG 076 09 48)

AUG , 1976											
24...	15	--	--	--	2.0	--	--	--	--	--	--

01509110 - GRIDLEY CREEK ABOVE PAGE GREEN RD NEAR VIRGIL NY (LAT 42 30 44 LONG 076 09 57)

AUG , 1976											
24...	7.0	--	--	--	.44	--	--	--	--	--	--

01509116 - GRIDLEY CREEK TRIBUTARY TO TRIB NO 3 NR VIRGIL (LAT 42 30 36 LONG 076 10 22)

AUG , 1976											
24...	8.6	--	--	--	2.8	--	--	--	--	--	--

01509118 - GRIDLEY CREEK TRIBUTARY NO 3 AT MOUTH NR VIRGIL (LAT 42 30 43 LONG 076 09 57)

AUG , 1976											
24...	8.1	--	--	--	1.9	--	--	--	--	--	--

01509120 - GRIDLEY CREEK AT PAGE GREEN ROAD NEAR VIRGIL NY (LAT 42 30 43 LONG 076 09 44)

AUG , 1976											
24...	.0	--	--	--	.00	--	--	--	--	--	--

01509125 - GRIDLEY CREEK NEAR VIRGIL NY (LAT 42 30 38 LONG 076 09 17)

AUG , 1976											
24...	11	--	--	--	.78	--	--	--	--	--	--

01509127 - GRIDLEY CREEK TRIBUTARY NEAR VIRGIL NY (LAT 42 30 38 LONG 076 09 05)

AUG , 1976											
24...	1.7	--	--	--	.06	--	--	--	--	--	--

01509135 - GRIDLEY CREEK AT GREEK PEAK NEAR VIRGIL NY (LAT 42 30 26 LONG 076 08 26)

AUG , 1976											
24...	6.8	--	--	--	.53	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

583

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
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SUSQUEHANNA RIVER BASIN--Continued

01509145 - GRIDLEY CREEK TRIBUTARY NO 2 NEAR EAST VIRGIL NY (LAT 42 30 14 LONG 076 07 57)

AUG , 1976	24...	1130	.40	--	7.6	16.0	--	--	--	--	--
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01509190 - GRIDLEY CREEK AT SH 90 NEAR EAST VIRGIL NY (LAT 42 29 37 LONG 076 06 13)

AUG , 1976	24...	0945	4.9	--	7.8	15.0	--	--	--	--	--
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01509200 - GRIDLEY CREEK AT MESSENGERVILLE NY (LAT 42 29 19 LONG 076 04 26)

AUG , 1976	24...	0845	7.0	--	7.9	15.0	--	--	--	--	--
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01513716 - EAST BRANCH NANTICOKE CK TRIB NR GLEN AUBREY NY (LAT 42 17 29 LONG 076 00 24)

OCT , 1975	20...	1000	25	67	7.3	10.5	3	9.7	86	--	--
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01513755 - CROCKER CREEK NEAR EAST NEWARK NY (LAT 42 11 14 LONG 076 07 21)

OCT , 1975	20...	1400	84	79	6.8	11.0	20	10.0	93	--	--
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01513790 - NANTICOKE CR AT UNION CENTER, N.Y. (LAT 42 08 56 LONG 076 04 00)

OCT , 1975	20...	1330	920	77	6.8	11.5	20	9.2	84	--	--
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01530380 - NEWTOWN CREEK AT BREESEPORT, N.Y. (LAT 42 10 20 LONG 076 44 01)

OCT , 1975	09...	1330	11	178	7.2	10.5	20	10.4	93	--	--
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01530390 - JACKSON CREEK AT BREESEPORT NY (LAT 42 10 24 LONG 076 44 04)

OCT , 1975	09...	1230	3.4	192	7.7	12.0	1600	9.7	90	--	--
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01530425 - NORTH BRANCH NEWTOWN CREEK NEAR HORSEHEADS NY (LAT 42 11 15 LONG 076 47 23)

OCT , 1975	09...	1100	6.8	242	7.8	12.0	1	10.0	93	--	--
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01530444 - BEAVER BROOK AT HORSEHEADS NY (LAT 42 09 14 LONG 076 48 37)

OCT , 1975	09...	0900	2.3	470	7.5	12.0	4	7.2	67	--	--
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ALLEGHENY RIVER BASIN

03012815 - CONEWANGO CREEK AT KENDALL CORNERS NY (LAT 42 19 13 LONG 078 57 18)

OCT , 1975	21...	1330	21	160	6.9	11.0	6	8.1	73	--	--
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03012831 - JOHNSON CREEK AT MARKHAMS NY (LAT 42 23 50 LONG 078 59 59)

OCT , 1975	21...	1430	16	240	6.7	11.0	5	8.4	76	--	--
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
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SUSQUEHANNA RIVER BASIN--Continued

01509145 - GRIDLEY CREEK TRIBUTARY NO 2 NEAR EAST VIRGIL NY (LAT 42 30 14 LONG 076 07 57)

AUG , 1976 24...	--	45	9	13	3.0	2.0	.7	44	--	36	9.0
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01509190 - GRIDLEY CREEK AT SH 90 NEAR EAST VIRGIL NY (LAT 42 29 37 LONG 076 06 13)

AUG , 1976 24...	--	100	15	31	6.4	5.6	1.0	108	--	89	12
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01509200 - GRIDLEY CREEK AT MESSENGERVILLE NY (LAT 42 29 19 LONG 076 04 26)

AUG , 1976 24...	--	94	8	31	4.1	5.5	1.0	105	--	86	11
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01513716 - EAST BRANCH NANTICOKE CK TRIB NR GLEN AUBREY NY (LAT 42 17 29 LONG 076 00 24)

OCT , 1975 20...	--	29	14	8.4	1.9	3.1	.9	18	0	15	11
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01513755 - CROCKER CREEK NEAR EAST NEWARK NY (LAT 42 11 14 LONG 076 07 21)

OCT , 1975 20...	--	31	9	9.0	2.0	2.0	1.6	26	0	21	11
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01513790 - NANTICOKE CR AT UNION CENTER, N.Y. (LAT 42 08 56 LONG 076 04 00)

OCT , 1975 20...	--	28	11	8.0	1.9	2.4	1.3	21	0	17	12
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01530380 - NEWTOWN CREEK AT BREESEPORT, N.Y. (LAT 42 10 20 LONG 076 44 01)

OCT , 1975 09...	--	68	20	19	4.9	7.0	1.6	58	0	48	16
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01530390 - JACKSON CREEK AT BREESEPORT NY (LAT 42 10 24 LONG 076 44 04)

OCT , 1975 09...	--	80	14	23	5.5	5.8	1.6	81	0	66	17
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01530425 - NORTH BRANCH NEWTOWN CREEK NEAR HORSEHEADS NY (LAT 42 11 15 LONG 076 47 23)

OCT , 1975 09...	--	110	31	31	7.4	7.8	2.0	94	0	77	22
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01530444 - BEAVER BROOK AT HORSEHEADS NY (LAT 42 09 14 LONG 076 48 37)

OCT , 1975 09...	--	200	31	59	13	14	1.9	207	0	170	37
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ALLEGHENY RIVER BASIN

03012815 - CONEWANGO CREEK AT KENDALL CORNERS NY (LAT 42 19 13 LONG 078 57 18)

OCT , 1975 21...	--	64	13	20	3.4	4.1	1.7	62	0	51	17
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03012831 - JOHNSON CREEK AT MARKHAMS NY (LAT 42 23 50 LONG 078 59 59)

OCT , 1975 21...	--	96	18	28	6.4	5.2	2.6	96	0	79	18
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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS-SOLVED CHLO- RIDE (CL) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON-FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
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SUSQUEHANNA RIVER BASIN--Continued

01509145 - GRIDLEY CREEK TRIBUTARY NO 2 NEAR EAST VIRGIL NY (LAT 42 30 14 LONG 076 07 57)

AUG , 1976 24...	1.3	--	--	--	.06	--	--	--	--	--	--
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01509190 - GRIDLEY CREEK AT SH 90 NEAR EAST VIRGIL NY (LAT 42 29 37 LONG 076 06 13)

AUG , 1976 24...	7.7	--	--	--	.39	--	--	--	--	--	--
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01509200 - GRIDLEY CREEK AT MESSENGERVILLE NY (LAT 42 29 19 LONG 076 04 26)

AUG , 1976 24...	6.8	--	--	--	.39	--	--	--	--	--	--
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01513716 - EAST BRANCH NANTICOKE CK TRIB NR GLEN AUBREY NY (LAT 42 17 29 LONG 076 00 24)

OCT , 1975 20...	2.8	--	49	15	.11	.00	.23	.23	.34	.02	.01
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01513755 - CROCKER CREEK NEAR EAST NEWARK NY (LAT 42 11 14 LONG 076 07 21)

OCT , 1975 20...	3.4	--	60	59	.10	.00	.54	.54	.64	.08	.02
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01513790 - NANTICOKE CR AT UNION CENTER, N.Y. (LAT 42 08 56 LONG 076 04 00)

OCT , 1975 20...	3.5	--	51	53	.21	.00	.36	.36	.57	.11	.01
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01530380 - NEWTOWN CREEK AT BREESEPORT, N.Y. (LAT 42 10 20 LONG 076 44 01)

OCT , 1975 09...	10	--	108	20	.48	.01	.04	.05	.53	.04	.02
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01530390 - JACKSON CREEK AT BREESEPORT NY (LAT 42 10 24 LONG 076 44 04)

OCT , 1975 09...	7.1	--	118	62	.56	.11	1.4	1.5	2.1	.93	.14
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01530425 - NORTH BRANCH NEWTOWN CREEK NEAR HORSEHEADS NY (LAT 42 11 15 LONG 076 47 23)

OCT , 1975 09...	10	--	146	1	.65	.00	.10	.10	.75	.01	.01
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01530444 - BEAVER BROOK AT HORSEHEADS NY (LAT 42 09 14 LONG 076 48 37)

OCT , 1975 09...	22	--	261	11	.14	.00	.18	.18	.32	.04	.02
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ALLEGHENY RIVER BASIN

03012815 - CONEWANGO CREEK AT KENDALL CORNERS NY (LAT 42 19 13 LONG 078 57 18)

OCT , 1975 21...	5.8	--	107	18	.36	.01	.24	.25	.61	.05	.01
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03012831 - JOHNSON CREEK AT MARKHAMS NY (LAT 42 23 50 LONG 078 59 59)

OCT , 1975 21...	9.7	--	154	17	.00	.01	.68	.69	.69	.05	.03
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
ALLEGHENY RIVER BASIN--Continued											
03012834 - CONEWANGO CRK. BELOW SOUTH DAYTON, N.Y. (LAT 42 20 12 LONG 079 02 28)											
OCT , 1975 22...	0930	102	240	7.2	11.0	1	7.6	68	--	--	--
03012838 - WEST BRANCH CONEWANGO CREEK NEAR HAMLET NY (LAT 42 22 15 LONG 079 09 36)											
OCT , 1975 22...	0730	23	186	7.0	11.5	2	6.7	61	--	--	--
03012850 - STATE DRAINAGE DITCH AT CONEWANGO VALLEY NY (LAT 42 14 19 LONG 079 03 16)											
OCT , 1975 21...	1230	390	210	7.0	11.0	7	7.8	71	--	--	--
03012880 - CLEAR CREEK NEAR THORNTON NY (LAT 42 14 56 LONG 079 08 33)											
OCT , 1975 21...	1130	32	122	7.1	11.0	2	10.0	90	--	--	--
03013000 - CONEWANGO CREEK AT WATERBORO, N.Y. (LAT 42 10 15 LONG 079 04 10)											
OCT , 1975 22...	1230	583	213	7.0	11.5	4	9.1	83	--	--	--
STREAMS TRIBUTARY TO LAKE ONTARIO											
04232161 - CATHARINE CREEK NEAR ALPINE NY (LAT 42 16 07 LONG 076 46 30)											
OCT , 1975 08...	0830	.16	155	7.3	8.0	1	11.1	93	--	--	--
04232163 - CATHARINE CREEK NEAR SULLIVANVILLE NY (LAT 42 14 05 LONG 076 47 39)											
OCT , 1975 08...	0930	.85	165	7.2	9.0	0	10.6	91	--	--	--
04232170 - CATHARINE CREEK AT PINE VALLEY NY (LAT 42 13 56 LONG 076 50 32)											
OCT , 1975 08...	1030	11	500	7.5	9.0	3	9.7	90	--	--	--
04232176 - CATHARINE CREEK TRIBUTARY NO 5 NEAR MILLPORT NY (LAT 42 16 44 LONG 076 53 28)											
OCT , 1975 08...	1130	.30	172	7.1	8.5	1	10.2	--	--	--	--
04232182 - CATHARINE CREEK AT MIDWAY NY (LAT 42 15 04 LONG 076 50 10)											
OCT , 1975 08...	1230	19	450	7.8	12.5	5	8.6	80	--	--	--

CONTINUED NEXT PAGE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued
WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

587

DATE	STREP- TOCOCCHI (COL- ONIES PER 100 ML)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
ALLEGHENY RIVER BASIN--Continued											
03012834 - CONEWANGO CRK BELOW SOUTH DAYTON, N.Y. (LAT 42 20 12 LONG 079 02 28)											
OCT , 1975 22...	--	77	9	22	5.3	12	2.6	83	0	68	6.8
03012838 - WEST BRANCH CONEWANGO CREEK NEAR HAMLET NY (LAT 42 22 15 LONG 079 09 36)											
OCT , 1975 22...	--	83	19	25	5.0	2.9	1.8	78	0	64	14
03012850 - STATE DRAINAGE DITCH AT CONEWANGO VALLEY NY (LAT 42 14 19 LONG 079 03 16)											
OCT , 1975 21...	--	93	24	28	5.7	3.7	2.8	85	0	70	19
03012880 - CLEAR CREEK NEAR THORNTON NY (LAT 42 14 56 LONG 079 08 33)											
OCT , 1975 21...	--	53	13	17	2.6	2.0	1.4	49	0	40	14
03013000 - CONEWANGO CREEK AT WATERBORO, N.Y. (LAT 42 10 15 LONG 079 04 10)											
OCT , 1975 22...	--	96	28	30	5.0	3.9	2.7	82	0	67	18
STREAMS TRIBUTARY TO LAKE ONTARIO											
04232161 - CATHARINE CREEK NEAR ALPINE NY (LAT 42 16 07 LONG 076 46 30)											
OCT , 1975 08...	--	63	28	18	4.4	5.2	1.3	43	0	35	19
04232163 - CATHARINE CREEK NEAR SULLIVANVILLE NY (LAT 42 14 05 LONG 076 47 39)											
OCT , 1975 08...	--	66	26	18	5.0	4.0	1.5	48	0	39	21
04232170 - CATHARINE CREEK AT PINE VALLEY NY (LAT 42 13 56 LONG 076 50 32)											
OCT , 1975 08...	--	210	20	60	15	11	1.8	234	0	192	28
04232176 - CATHARINE CREEK TRIBUTARY NO 5 NEAR MILLPORT NY (LAT 42 16 44 LONG 076 53 28)											
OCT , 1975 08...	--	73	34	20	5.5	7.0	1.1	47	0	39	19
04232182 - CATHARINE CREEK AT MIDWAY NY (LAT 42 15 04 LONG 076 50 10)											
OCT , 1975 08...	--	180	23	52	13	11	1.7	196	0	161	26

CONTINUED NEXT PAGE

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
ALLEGHENY RIVER BASIN--Continued											
03012834 - CONEWANGO CRK. BELOW SOUTH DAYTON, N.Y. (LAT 42 20 12 LONG 079 02 28)											
OCT , 1975 22...	23	--	141	6	.21	.01	.55	.56	.77	.06	.02
03012838 - WEST BRANCH CONEWANGO CREEK NEAR HAMLET NY (LAT 42 22 15 LONG 079 09 36)											
OCT , 1975 22...	6.6	--	117	15	.24	.00	.58	.58	.82	.05	.02
03012850 - STATE DRAINAGE DITCH AT CONEWANGO VALLEY NY (LAT 42 14 19 LONG 079 03 16)											
OCT , 1975 21...	7.9	--	128	22	.29	.01	.63	.64	.93	.09	.03
03012880 - CLEAR CREEK NEAR THORNTON NY (LAT 42 14 56 LONG 079 08 33)											
OCT , 1975 21...	3.3	--	83	8	.45	.01	.21	.22	.67	.03	.01
03013000 - CONEWANGO CREEK AT WATERBORO, N.Y. (LAT 42 10 15 LONG 079 04 10)											
OCT , 1975 22...	8.2	--	137	19	.29	.01	.52	.53	.82	.08	.02
STREAMS TRIBUTARY TO LAKE ONTARIO											
04232161 - CATHARINE CREEK NEAR ALPINE NY (LAT 42 16 07 LONG 076 46 30)											
OCT , 1975 08...	13	--	103	8	.01	.00	.17	.17	.18	.01	.01
04232163 - CATHARINE CREEK NEAR SULLIVANVILLE NY (LAT 42 14 05 LONG 076 47 39)											
OCT , 1975 08...	7.7	--	85	2	.75	.00	.11	.11	.86	.03	.01
04232170 - CATHARINE CREEK AT PINE VALLEY NY (LAT 42 13 56 LONG 076 50 32)											
OCT , 1975 08...	22	--	297	1	.92	.00	.29	.29	1.2	.05	.03
04232176 - CATHARINE CREEK TRIBUTARY NO 5 NEAR MILLPORT NY (LAT 42 16 44 LONG 076 53 28)											
OCT , 1975 08...	13	--	107	7	.05	.01	.19	.20	.25	.03	.01
04232182 - CATHARINE CREEK AT MIDWAY NY (LAT 42 15 04 LONG 076 50 10)											
OCT , 1975 08...	21	--	260	15	.89	.00	.26	.26	1.2	.04	.02

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

SELECTED TRACE CONSTITUENTS

Note: Some sites below have additional analyses in the previous part of this table, "Water quality data."

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)
BLIND BROOK BASIN										
01299030 - BLIND BROOK AT PORT CHESTER, NY (LAT 41 01 37 LONG 073 41 23)										
OCT , 1975 21...	1	0	10	0	360	4	40	<.5	1	20
HUDSON RIVER BASIN										
01327755 - HUDSON RIVER AT ROGERS ISLAND (FORT EDWARD), NY (LAT 43 15 52 LONG 073 35 28)										
MAR , 1976 29...	0	1	<10	10	850	11	60	<.5	4	20
APR 03...	0	0	--	11	1400	15	80	--	--	30
01329650 - HUDSON RIVER AT SCHUYLERVILLE, NY (LAT 43 05 54 LONG 073 34 25)										
MAR , 1976 30...	0	0	--	6	610	7	50	--	--	30
01335505 - HUDSON RIVER AT BRIDGE AT MECHANICVILLE, NY (LAT 42 54 19 LONG 073 40 59)										
MAR , 1976 30...	0	0	--	5	700	7	60	--	--	20
01349855 - SILVER LAKE OUTLET TRIBUTARY NEAR BROOKSBURG, NY (LAT 42 19 06 LONG 074 11 45)										
OCT , 1975 29...	11	0	0	0	130	2	0	<.5	0	10
01376270 - SPARKILL CREEK AT TAPPAN, NY (LAT 41 01 26 LONG 072 56 52)										
AUG , 1976 10...	2	1	10	20	1700	26	150	<.5	1	30
01376280 - SPARKILL CREEK AT SPARKILL, NY (LAT 41 01 44 LONG 073 55 34)										
AUG , 1976 10...	2	1	10	10	1300	19	110	<.5	0	20
SUSQUEHANNA RIVER BASIN										
01501004 - MILL BROOK AT SHERBURNE TURNPIKE AT NEW BERLIN, NY (LAT 42 38 13 LONG 075 21 07)										
JUL , 1976 13...	0	0	10	0	430	3	20	<.5	0	20
SEP 09...	1	1	<10	0	220	4	40	<.5	0	30
01501008 - MILL BROOK TRIBUTARY ABOVE NEW BERLIN, NY (LAT 42 37 34 LONG 075 21 06)										
JUL , 1976 13...	0	0	<10	0	190	5	30	<.5	0	0
SEP 09...	1	1	<10	0	170	2	10	<.5	0	10
01505050 - CANASAWACTA CREEK NEAR NORTH PHARSALIA, NY (LAT 42 36 36 LONG 075 39 41)										
JUL , 1976 14...	0	1	10	0	370	6	10	<.5	--	0
SEP 08...	0	1	<10	0	150	4	10	<.5	0	60
01505125 - EAST BRANCH CANASAWACTA CREEK NEAR PLYMOUTH, NY (LAT 42 38 20 LONG 075 38 05)										
JUL , 1976 14...	0	0	<10	0	570	4	10	<.5	0	30
SEP 08...	1	1	<10	10	230	5	0	<.5	0	30
01505500 - CANASAWACTA CREEK NEAR SOUTH PLYMOUTH, NY (LAT 42 33 49 LONG 075 33 09)										
JUL , 1976 14...	0	1	20	10	440	10	10	<.5	0	170
SEP 08...	0	0	<10	0	100	2	0	<.5	0	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL QUALITY OF BOTTOM MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Note: Some sites below have additional analyses in the "Water quality data" part of this table.

DATE	TOTAL KJEL. NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOT- TOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOT- TOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOT- TOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOT- TOM MA- TERIAL (UG/G)	TOTAL IRON IN BOT- TOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOT- TOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOT- TOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOT- TOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOT- TOM MA- TERIAL (UG/G)
RIPPOWAM RIVER BASIN												
411318073331200 - TRINITY LAKE AT TRINITY LAKE NY (LAT 41 13 18 LONG 073 33 12)												
AUG . 1976 31...	--	--	--	--	--	--	--	--	--	--	--	--
411436073325000 - LAKE KITCHAWAN AT LAKE KITCHAWAN (LAT 41 14 36 LONG 073 32 50)												
AUG . 1976 26...	--	--	--	--	--	--	--	--	--	--	--	--
BLIND BROOK BASIN												
410113073414100 - BLIND BROOK AT LINCOLN AVE AT RYE NY (LAT 41 01 13 LONG 073 41 41)												
AUG . 1976 03...	92	4.4	230	2	0	11	9	6100	21	160	.0	29
MAMARONECK RIVER BASIN												
405724073463700 - SHELDRAKE R AT QUAKER RIDGE RD NEW ROCHELLE NY (LAT 40 57 24 LONG 073 46 37)												
AUG . 1976 03...	980	11	270	10	1	16	25	11000	140	1100	.1	85
405713073463700 - SHELDRAKE LAKE AT INLET AT NEW ROCHELLE NY (LAT 40 57 13 LONG 073 46 37)												
NOV . 1976 17...	--	--	--	--	--	--	--	--	--	--	--	--
405642073451800 - SHELDRAKE RIVER AT FERNWOOD AVE AT LARCHMONT NY (LAT 40 56 42 LONG 073 45 18)												
NOV . 1976 17...	111	3.0	71	2	0	4	6	3100	39	150	.0	29
405712073441800 - SHELDRAKE RIVER AT MAMARONECK AVE (LAT 40 57 12 LONG 073 44 18)												
AUG . 1976 03...	290	8.3	150	5	1	13	270	8600	970	99	.0	220
NOV 17...	172	1.4	57	4	1	7	120	4600	100	110	.1	110
BRONX RIVER BASIN												
405449073510200 - BRONX RIVER AT MT VERNON AVE AT MOUNT VERNON NY (LAT 40 54 44 LONG 073 51 02)												
AUG . 1976 03...	310	9.6	190	3	1	14	28	10000	360	150	.1	160
NOV 17...	187	2.1	70	2	0	5	18	3600	50	75	.0	50
HUDSON RIVER BASIN												
411905073510200 - LAKE MOHEGAN AT MOHEGAN LAKE NY (LAT 41 19 05 LONG 073 51 02)												
AUG . 1976 25...	--	--	--	--	--	--	--	--	--	--	--	--
01374300 - PEEKSKILL HOLLOW CREEK AT VANCORTLANDTville NY (LAT 41 19 04 LONG 073 54 19)												
AUG . 1976 05...	750	5.4	290	4	1	11	29	18000	150	560	.0	71
01374398 - FURNACE BROOK NEAR CROTON-ON-HUDSON NY (LAT 41 13 51 LONG 073 54 24)												
AUG . 1976 04...	300	7.9	340	3	0	10	17	10000	52	550	.0	50

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CHEMICAL QUALITY OF BOTTOM MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Note: Some sites below have additional analyses in the "Water quality data" part of this table.

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)
RIPPOWAM RIVER BASIN												
411318073331200 - TRINITY LAKE AT TRINITY LAKE NY (LAT 41 13 18 LONG 073 33 12)												
AUG , 1976 31...	.0	45	120	81	18	.0	.0	.0	.0	.0	0	--
411436073325000 - LAKE KITCHAWAN AT LAKE KITCHAWAN (LAT 41 14 36 LONG 073 32 50)												
AUG , 1976 26...	.0	0	18	13	.0	.0	.0	.0	.0	.0	0	--
BLIND BROOK BASIN												
410113073414100 - BLIND BROOK AT LINCOLN AVE AT RYE NY (LAT 41 01 13 LONG 073 41 41)												
AUG , 1976 03...	.0	8	1.8	1.4	10	.3	.0	.0	.3	.0	0	.0
MAMARONECK RIVER BASIN												
405724073463700 - SHELDRAKE R AT QUAKER RIDGE RD NEW ROCHELLE NY (LAT 40 57 24 LONG 073 46 37)												
AUG , 1976 03...	.0	530	200	.0	120	37	.0	.0	16	.0	0	6.3
405713073463700 - SHELDRAKE LAKE AT INLET AT NEW ROCHELLE NY (LAT 40 57 13 LONG 073 46 37)												
NOV , 1976 17...	.0	57	14	6.6	8.2	1.6	.0	.0	.8	.0	0	.0
405642073451800 - SHELDRAKE RIVER AT FERNWOOD AVE AT LARCHMONT NY (LAT 40 56 42 LONG 073 45 18)												
NOV , 1976 17...	.0	84	.0	2.3	.0	1.6	.0	.0	.8	.0	0	.0
405712073441800 - SHELDRAKE RIVER AT MAMARONECK AVE (LAT 40 57 12 LONG 073 44 18)												
AUG , 1976 03...	.0	18	1.0	.0	1.8	.3	.0	.0	.0	.0	0	.0
NOV 17...	--	--	--	--	--	--	--	--	--	--	--	--
BRONX RIVER BASIN												
405449073510200 - BRONX RIVER AT MT VERNON AVE AT MOUNT VERNON NY (LAT 40 54 44 LONG 073 51 02)												
AUG , 1976 03...	.0	33	4.4	.0	4.2	1.9	.0	.0	.3	.0	0	.0
NOV 17...	.0	12	1.7	.0	1.0	.4	.0	.0	.0	.0	0	.0
HUDSON RIVER BASIN												
411905073510200 - LAKE MOHEGAN AT MOHEGAN LAKE NY (LAT 41 19 05 LONG 073 51 02)												
AUG , 1976 25...	.0	0	700	72	.0	.0	.0	.0	.0	.0	0	.0
01374300 - PEEKSKILL HOLLOW CREEK AT VANCORTLANDTville NY (LAT 41 19 04 LONG 073 54 19)												
AUG , 1976 05...	.0	17	4.4	2.3	28	.8	.0	.0	.2	.0	0	.0
01374398 - FURNACE BROOK NEAR CROTON-ON-HUDSON NY (LAT 41 13 51 LONG 073 54 24)												
AUG , 1976 04...	.0	0	.0	1.0	.0	.0	.0	.0	.0	.0	0	.0

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL QUALITY OF BOTTOM MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Note: Some sites below have additional analyses in the "Water quality data" part of this table.

DATE	ETHION IN BOTTOM MA- TERIAL (UG/KG)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)
RIPPOWAM RIVER BASIN											
411318073331200 - TRINITY LAKE AT TRINITY LAKE NY (LAT 41 13 18 LONG 073 33 12)											
AUG , 1976 31...	.0	.0	.0	.0	.0	.0	.0	0	0	0	--
411436073325000 - LAKE KITCHAWAN AT LAKE KITCHAWAN (LAT 41 14 36 LONG 073 32 50)											
AUG , 1976 26...	.0	.0	.0	.0	.0	.0	.0	0	0	0	--
BLIND BROOK BASIN											
410113073414100 - BLIND BROOK AT LINCOLN AVE AT RYE NY (LAT 41 01 13 LONG 073 41 41)											
AUG , 1976 03...	.0	.0	.0	.0	.0	.0	0	0	0	0	1.9
MAMARONECK RIVER BASIN											
405724073463700 - SHELDRAKE R AT QUAKER RIDGE RD NEW ROCHELLE NY (LAT 40 57 24 LONG 073 46 37)											
AUG , 1976 03...	.0	.0	.0	.0	.0	.0	0	0	0	300	9.3
405713073463700 - SHELDRAKE LAKE AT INLET AT NEW ROCHELLE NY (LAT 40 57 13 LONG 073 46 37)											
NOV , 1976 17...	.0	.0	.0	.0	.0	.0	--	--	--	0	--
405642073451800 - SHELDRAKE RIVER AT FERNWOOD AVE AT LARCHMONT NY (LAT 40 56 42 LONG 073 45 18)											
NOV , 1976 17...	.0	.0	.0	.0	.0	.0	--	--	--	0	2.4
405712073441800 - SHELDRAKE RIVER AT MAMARONECK AVE (LAT 40 57 12 LONG 073 44 18)											
AUG , 1976 03...	.0	.0	.0	.0	.0	.0	0	0	0	0	8.9
NOV 17...	--	--	--	--	--	--	--	--	--	--	5.3
BRONX RIVER BASIN											
405449073510200 - BRONX RIVER AT MT VERNON AVE AT MOUNT VERNON NY (LAT 40 54 44 LONG 073 51 02)											
AUG , 1976 03...	.0	.0	.0	.0	.0	.0	0	0	0	130	10
NOV 17...	.0	.0	.0	.0	.0	.0	--	--	--	8	2.4
HUDSON RIVER BASIN											
411905073510200 - LAKE MOHEGAN AT MOHEGAN LAKE NY (LAT 41 19 05 LONG 073 51 02)											
AUG , 1976 25...	.0	.0	.0	.0	.0	.0	0	0	0	0	--
01374300 - PEEKSKILL HOLLOW CREEK AT VANCORTLANDTVILLE NY (LAT 41 19 04 LONG 073 54 19)											
AUG , 1976 05...	.0	.0	.0	.0	.0	.0	0	0	0	18	14
01374398 - FURNACE BROOK NEAR CROTON-ON-HUDSON NY (LAT 41 13 51 LONG 073 54 24)											
AUG , 1976 04...	.0	.0	.0	.0	.0	.0	0	0	0	0	4.8

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

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CHEMICAL QUALITY OF BOTTOM MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Note: Some sites below have additional analyses in the "Water quality data" part of this table.

DATE	TOTAL KJEL. NITRO- GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL IRON IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MANGA- NESE IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
HUDSON RIVER BASIN--Continued												
412152073345400 - PEACH LAKE AT PEACH LAKE NY (LAT 41 21 52 LONG 073 34 54)												
AUG , 1976 30...	--	--	--	--	--	--	--	--	--	--	--	--
01374963 - HALLOCKS MILL BROOK AT AMAWALK NY (LAT 41 17 08 LONG 073 45 58)												
AUG , 1976 04...	300	6.9	170	2	1	6	13	8500	22	300	.0	30
411713073391700 - LAKE KATONAH AT LAKE KATONAH NY (LAT 41 17 13 LONG 073 39 17)												
AUG , 1976 26...	--	--	--	--	--	--	--	--	--	--	--	--
412024073434000 - LAKE LINCOLNDALE AT LINCOLNDALE NY (LAT 41 20 24 LONG 073 43 40)												
AUG , 1976 24...	--	--	--	--	--	--	--	--	--	--	--	--
411218073434700 - KISCO RIVER TRIB AT GREEN ST AT MOUNT KISCO NY (LAT 41 12 18 LONG 073 43 47)												
AUG , 1976 04...	930	9.8	300	6	1	77	40	13000	340	280	.1	210
NOV 16...	353	4.1	63	3	1	11	21	8800	390	170	.0	130
411707073500900 - MILL POND TRIB OFF HUNTER BROOK RD AT YORKTOWN (LAT 41 17 07 LONG 073 50 09)												
AUG , 1976 05...	930	11	220	2	0	7	12	8800	22	1000	.0	55
410348073490300 - SAW MILL R AT BEAVER HILL RD ABOVE ELMSFORD NY (LAT 41 03 48 LONG 073 49 03)												
AUG , 1976 31...	110	1.1	81	1	0	3	8	4200	60	230	.0	50
410318073491600 - SAW MILL RIVER AT TARRYTOWN RD AT ELMSFORD NY (LAT 41 03 18 LONG 073 49 16)												
AUG , 1976 31...	110	.0	100	1	0	4	8	4900	40	110	.0	40
405758073522000 - SAW MILL RIVER AT O DELL AVE ABOVE YONKERS NY (LAT 40 57 58 LONG 073 52 20)												
AUG , 1976 31...	230	.0	100	2	0	6	30	5800	150	140	.1	60

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL QUALITY OF BOTTOM MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Note: Some sites below have additional analyses in the "Water quality data" part of this table.

DATE	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	DDD IN BOTTOM MA- TERIAL (UG/KG)	DDE IN BOTTOM MA- TERIAL (UG/KG)	DDT IN BOTTOM MA- TERIAL (UG/KG)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	DI- AZINON IN BOTTOM MA- TERIAL (UG/KG)
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HUDSON RIVER BASIN--Continued

412152073345400 - PEACH LAKE AT PEACH LAKE NY (LAT 41 21 52 LONG 073 34 54)

AUG , 1976 30...	.0	0	4.7	3.5	.0	.0	.0	.0	.0	.0	0	.0
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01374963 - HALLOCKS MILL BROOK AT AMAWALK NY (LAT 41 17 08 LONG 073 45 58)

AUG , 1976 04...	.0	4	2.4	1.5	6.8	.0	.0	.0	.0	.0	0	.0
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411713073391700 - LAKE KATONAH AT LAKE KATONAH NY (LAT 41 17 13 LONG 073 39 17)

AUG , 1976 26...	.0	0	18	19	.0	.0	.0	.0	.0	.0	0	--
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412024073434000 - LAKE LINCOLNDALE AT LINCOLNDALE NY (LAT 41 20 24 LONG 073 43 40)

AUG , 1976 24...	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0	--
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411218073434700 - KISCO RIVER TRIB AT GREEN ST AT MOUNT KISCO NY (LAT 41 12 18 LONG 073 43 47)

AUG , 1976 04...	.0	33	19	3.5	.0	1.0	.0	.0	.0	.0	0	.0
NOV 16...	.0	14	3.2	.5	1.4	2.3	.0	.0	.0	.0	0	.0

411707073500900 - MILL POND TRIB OFF HUNTER BROOK RD AT YORKTOWN (LAT 41 17 07 LONG 073 50 09)

AUG , 1976 05...	.0	12	2.7	2.3	4.1	.3	.0	.0	.0	.0	0	.0
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410348073490300 - SAW MILL R AT BEAVER HILL RD ABOVE ELMSFORD NY (LAT 41 03 48 LONG 073 49 03)

AUG , 1976 31...	.0	11	1.4	.0	1.3	.0	.0	.0	.0	.0	0	.0
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410318073491600 - SAW MILL RIVER AT TARRYTOWN RD AT ELMSFORD NY (LAT 41 03 18 LONG 073 49 16)

AUG , 1976 31...	.0	10	2.7	.7	3.5	.7	.0	.0	.1	.0	0	.0
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405758073522000 - SAW MILL RIVER AT O DELL AVE ABOVE YONKERS NY (LAT 40 57 58 LONG 073 52 20)

AUG , 1976 31...	.0	55	12	.0	.0	.0	.0	.0	.0	.0	0	.0
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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

CHEMICAL QUALITY OF BOTTOM MATERIAL, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Note: Some sites below have additional analyses in the "Water quality data" part of this table.

DATE	ETHION IN BOTTOM MA- TERIAL (UG/KG)	MALA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	METHYL TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	PARA- THION IN BOTTOM MA- TERIAL (UG/KG)	TRI- THION IN BOTTOM MA- TERIAL (UG/KG)	2,4-D IN BOTTOM MA- TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA- TERIAL (UG/KG)	SILVEX IN BOTTOM MA- TERIAL (UG/KG)	PCB IN BOTTOM MA- TERIAL (UG/KG)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)
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HUDSON RIVER BASIN--Continued

412152073345400 - PEACH LAKE AT PEACH LAKE NY (LAT 41 21 52 LONG 073 34 54)

AUG , 1976 30...	.0	.0	.0	.0	.0	.0	0	0	0	0	--
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01374963 - HALLOCKS MILL BROOK AT AMAWALK NY (LAT 41 17 08 LONG 073 45 58)

AUG , 1976 04...	.0	.0	.0	.0	.0	.0	0	0	0	0	5.1
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411713073391700 - LAKE KATONAH AT LAKE KATONAH NY (LAT 41 17 13 LONG 073 39 17)

AUG , 1976 26...	.0	.0	.0	.0	.0	.0	.0	0	0	0	0
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412024073434000 - LAKE LINCOLNDALE AT LINCOLNDALE NY (LAT 41 20 24 LONG 073 43 40)

AUG , 1976 24...	.0	.0	.0	.0	.0	.0	.0	0	0	0	28
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411218073434700 - KISCO RIVER TRIB AT GREEN ST AT MOUNT KISCO NY (LAT 41 12 18 LONG 073 43 47)

AUG , 1976 04...	.0	.0	.0	.0	.0	.0	0	0	0	63	37
NOV 16...	.0	.0	.0	.0	.0	.0	--	--	--	35	12

411707073500900 - MILL POND TRIB OFF HUNTER BROOK RD AT YORKTOWN (LAT 41 17 07 LONG 073 50 09)

AUG , 1976 05...	.0	.0	.0	.0	.0	.0	0	0	0	0	10
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410348073490300 - SAW MILL R AT BEAVER HILL RD ABOVE ELMSFORD NY (LAT 41 03 48 LONG 073 49 03)

AUG , 1976 31...	.0	.0	.0	.0	.0	.0	0	0	0	0	2.7
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410318073491600 - SAW MILL RIVER AT TARRYTOWN RD AT ELMSFORD NY (LAT 41 03 18 LONG 073 49 16)

AUG , 1976 31...	.0	.0	.0	.0	.0	.0	0	0	0	38	2.5
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405758073522000 - SAW MILL RIVER AT O DELL AVE ABOVE YONKERS NY (LAT 40 57 58 LONG 073 52 20)

AUG , 1976 31...	.0	.0	.0	.0	.0	.0	0	0	0	42	7.6
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CHEMICAL QUALITY OF PRECIPITATION

HUDSON RIVER BASIN

AT ROCK HILL, NY

LOCATION.--Lat 41°37'25", long 74°31'17", Sullivan County, on North Shore Road, just north of Wanaksink Lake, 0.9 mi (1.4 km) east of Rock Hill, 3.5 mi (5.6 km) northwest of National Weather Service station "Rock Hill 3SW," and 6.5 mi (10.5 km) southeast of Monticello.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
75/10/01 TO 75/11/03	3.30	1.11	.64	.25	5.90	4.0	5.51	3.22
75/11/03 TO 75/12/02	4.90	.62	.44	.13	2.80	6.0	2.10	1.05
75/12/02 TO 76/01/04	3.07	1.67	.80	.75	2.70	6.0	5.60	3.10
76/01/04 TO 76/02/03	-----	.65	.33	.39	.39	.0	2.00	.85
76/02/03 TO 76/03/03	1.72	1.00	.41	.30	.20	.0	4.00	.80
76/04/03 TO 76/05/01	1.25	1.10	.30	.25	.25	.0	3.60	.65
76/05/01 TO 76/05/31	5.51	1.39	.34	.11	.70	.0	4.00	.70
76/05/31 TO 76/07/02	5.50	.56	.15	.19	.57	.0	3.90	.38
76/07/02 TO 76/08/07	3.96	.55	.11	.10	.34	.0	5.40	.26
76/08/07 TO 76/09/01	7.22	.43	.15	.15	.57	.0	5.70	.37
76/09/01 TO 76/10/01	4.83	.31	.11	.18	.87	.0	2.50	1.08

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE+ NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
75/10/01 TO 75/11/03	.2	.010	.059	.700	33	4.99	.370	17
75/11/03 TO 75/12/02	.1	.131	.060	.440	18	5.40	.212	7
75/12/02 TO 76/01/04	.1	.472	.230	.083	30	7.35	.261	20
76/01/04 TO 76/02/03	.0	.386	.000	.024	13	4.81	.098	6
76/02/03 TO 76/03/03	.0	.530	.080	.010	21	3.41	.219	6
76/04/03 TO 76/05/01	.0	.490	.092	.030	20	4.83	.166	8
76/05/01 TO 76/05/31	.0	.051	.115	.075	15	5.83	.141	14
76/05/31 TO 76/07/02	.0	.641	.212	.025	47	4.12	.179	17
76/07/02 TO 76/08/07	.0	.613	.117	.012	56	4.00	.181	23
76/08/07 TO 76/09/01	.0	.676	.264	.010	62	----	.229	34
76/09/01 TO 76/10/01	.0	.626	.112	.042	41	3.90	.191	17

CHEMICAL QUALITY OF PRECIPITATION

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HUDSON RIVER BASIN

NEAR ALBANY, NY

LOCATION.--Lat 42°44'35", long 73°48'30", Albany County, at National Weather Service station "Albany WSO AP," at Albany County Airport, 0.5 mi (0.8 km) north of State Highway 155.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
75/10/05 TO 75/10/31	5.83	.86	.11	.09	.03	.0	2.38	.17
75/10/31 TO 75/12/05	3.31	2.40	.27	2.30	2.00	16	3.20	3.37
75/12/05 TO 76/01/01	2.36	3.70	.38	2.50	.68	8.0	4.80	4.60
76/01/01 TO 76/02/01	4.03	2.00	.30	2.10	.12	.0	5.40	3.45
76/02/01 TO 76/03/08	3.61	2.90	.34	1.40	.10	.0	5.70	2.05
76/03/08 TO 76/04/02	3.64	2.81	.19	.96	.07	17	3.00	1.10
76/04/02 TO 76/05/04	3.16	2.50	.20	.28	.08	3.0	4.30	.50
76/05/04 TO 76/06/01	4.17	2.01	.29	.18	.09	.0	4.30	.43
76/06/01 TO 76/07/05	5.23	1.23	.15	.08	.11	.0	5.40	.25
76/07/05 TO 76/08/03	3.34	1.62	.26	.23	.55	.0	7.70	.46
76/08/03 TO 76/09/01	4.31	.69	.13	.14	.14	.0	4.00	.32
76/09/01 TO 76/10/04	2.60	1.30	.20	.29	.11	.0	3.10	.81

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE+ NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
75/10/05 TO 75/10/31	.1	.018	.000	.007	10	4.85	.045	13
75/10/31 TO 75/12/05	.0	.500	.960	.130	43	5.89	.243	10
75/12/05 TO 76/01/01	.0	.723	.261	.051	36	6.01	.109	63
76/01/01 TO 76/02/01	.0	.639	.165	.008	39	4.40	.131	79
76/02/01 TO 76/03/08	.0	.750	.217	.010	30	5.00	.118	13
76/03/08 TO 76/04/02	.1	.490	.058	.010	19	6.39	.058	4
76/04/02 TO 76/05/04	.0	.048	.073	.010	20	6.30	.081	6
76/05/04 TO 76/06/01	.0	.532	.237	.006	20	5.63	.050	17
76/06/01 TO 76/07/05	---	.504	.366	.010	0	4.32	.105	46
76/07/05 TO 76/08/03	.0	.729	1.000	.200	45	4.00	.121	51
76/08/03 TO 76/09/01	.0	.482	.502	.027	31	---	.169	39
76/09/01 TO 76/10/04	.0	.559	.153	.011	30	4.20	.180	38

CHEMICAL QUALITY OF PRECIPITATION

HUDSON RIVER BASIN

AT HINCKLEY, NY

LOCATION.--Lat 43°18'35", long 75°06'35", Oneida County, at National Weather Service station "Hinckley," at Hinckley Dam on West Canada Creek, on Cody Road in Hinckley.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CAL- CIUM (CA) (MG/L)	MAGNE- SIUM (MG)	SODIUM (NA) (MG/L)	POTAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)
75/09/30 TO 75/10/31	3.78	.47	.08	.08	.03	.0	2.10	.12
75/10/31 TO 75/11/30	5.10	.32	.06	.24	.10	.0	1.70	.87
75/11/30 TO 75/12/31	4.50	.72	.08	.30	.22	.0	3.20	.50
75/12/31 TO 76/01/31	5.19	.26	.09	.23	.14	.0	2.00	.40
76/01/31 TO 76/02/29	4.78	.70	.11	.40	.10	.0	3.00	.60
76/02/29 TO 76/03/31	5.63	.84	.09	.22	.10	.0	3.80	.30
76/03/31 TO 76/04/30	4.53	2.00	.20	.19	.18	.80	5.80	.50
76/04/30 TO 76/05/01	4.92	.50	.07	.04	.03	.0	3.20	.10
76/05/01 TO 76/06/17	3.91	.44	.07	.07	.17	.0	5.00	.20
76/06/17 TO 76/07/13	5.93	.29	.03	.02	.01	.0	3.20	.09
76/07/13 TO 76/08/10	5.01	.26	.03	.01	.00	.0	4.00	.10
76/08/10 TO 76/09/15	4.11	.47	.10	.03	.04	.0	5.10	.14
76/09/15 TO 76/10/12	5.74	.10	.02	.03	.02	.0	1.20	.05

PERIOD OF COLLECTION	FLUO- RIDE (F) (MG/L)	NIT- RATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
75/09/30 TO 75/10/31	.1	.164	.004	.019	15	4.50	.091	17
75/10/31 TO 75/11/30	.1	.865	.205	.009	43	3.99	.175	55
75/11/30 TO 75/12/31	.1	.610	.800	.013	24	4.35	.115	53
75/12/31 TO 76/01/31	.0	.494	.520	.012	16	4.41	.078	41
76/01/31 TO 76/02/29	.0	.810	.716	.010	38	3.40	.231	79
76/02/29 TO 76/03/31	.1	.850	.514	.020	36	4.25	.178	57
76/03/31 TO 76/04/30	.1	.710	.587	.020	26	5.20	.081	36
76/04/30 TO 76/05/01	.1	.368	.354	.013	25	4.35	.092	27
76/05/01 TO 76/06/17	.0	.397	1.600	.180	31	4.72	.162	15
76/06/17 TO 76/07/13	.0	.387	.501	.018	35	4.20	.113	20
76/07/13 TO 76/08/10	.0	.449	.350	.009	55	3.88	.171	28
76/08/10 TO 76/09/15	.0	.666	.520	.019	50	---	.181	23
76/09/15 TO 76/10/12	.1	.273	.248	.011	23	4.10	.107	15

CHEMICAL QUALITY OF PRECIPITATION

599

SUSQUEHANNA RIVER BASIN

NEAR ATHENS, PA

LOCATION.--Lat 41°55'31", long 76°31'35", Bradford County, at National Weather Service station "Milan 1N," 300 feet west of U.S. Highways 220 and 309, 0.6 mi (1.0 km) west of the mouth of the Chemung River, 2.0 mi (3.2 km) south of Athens, and 5.1 mi (8.2 km) south of the New York-Pennsylvania State line.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CAL- CIUM (CA) (MG/L)	MAGNE- SIUM (MG)	SODIUM (NA) (MG/L)	POTAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)
75/09/30 TO 75/10/31	2.78	.95	.16	.38	.24	.0	5.29	.73
75/10/31 TO 75/11/30	3.20	1.40	.20	.18	.36	2.0	4.30	.58
75/11/30 TO 75/12/31	.64	.80	.09	.29	.29	.0	4.90	.90
75/12/31 TO 76/02/02	2.87	1.30	.22	.79	.61	.0	5.90	1.50
76/02/02 TO 76/03/01	1.37	----	----	----	----	.0	24.0	7.70
76/03/01 TO 76/04/03	-----	2.07	.18	.32	.44	9.0	3.60	.55
76/04/03 TO 76/05/01	-----	-----	-----	-----	-----	2.0	8.70	.75
76/05/01 TO 76/05/31	-----	1.80	.19	.16	.03	.0	6.10	.72
76/05/31 TO 76/07/02	-----	1.19	.16	.13	.07	.0	8.30	.58
76/07/02 TO 76/08/02	-----	1.11	.14	.16	.08	.0	8.20	.50
76/08/02 TO 76/09/02	-----	.90	.16	.16	.27	.0	13.0	.47
76/09/02 TO 76/10/03	-----	.36	.06	.13	.13	.0	3.30	.31

PERIOD OF COLLECTION	FLUO- RIDE (F) (MG/L)	NIT- RITE+ NIT- RATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
75/09/30 TO 75/10/31	.2	.794	1.600	.310	30	4.70	.279	160
75/10/31 TO 75/11/30	.1	1.100	2.100	.021	36	5.40	.112	55
75/11/30 TO 75/12/31	.2	.989	2.000	.054	29	5.44	.126	71
75/12/31 TO 76/02/02	.0	1.120	1.770	.048	31	5.52	.132	17
76/02/02 TO 76/03/01	.1	8.500	.004	.440	175	6.67	.214	11
76/03/01 TO 76/04/03	.1	.730	.753	.010	21	6.53	.065	9
76/04/03 TO 76/05/01	.0	1.600	2.320	.250	45	6.00	.108	11
76/05/01 TO 76/05/31	.1	1.300	1.300	.017	54	4.27	.153	120
76/05/31 TO 76/07/02	.0	.785	.242	.019	83	3.80	.240	100
76/07/02 TO 76/08/02	.0	.568	.483	.028	68	3.88	.233	80
76/08/02 TO 76/09/02	.0	.833	1.500	.210	95	----	.302	100
76/09/02 TO 76/10/03	.0	.945	1.200	.320	35	4.60	.179	29

CHEMICAL QUALITY OF PRECIPITATION

ALLEGHENY RIVER BASIN

AT ALLEGANY STATE PARK, NY

LOCATION.--Lat 42°06'00", long 78°45'00", Cattaraugus County, at National Weather Service station "Allegany State Park," 100 feet west of Park Administration Building, 300 feet west of Park Highway 1, and 6.0 mi (9.7 km) south of Salamanca.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
75/10/01 TO 75/11/01	2.94	1.04	.22	.10	3.10	4.0	3.16	1.13
75/11/01 TO 75/12/01	2.58	.52	.13	.19	.21	.0	1.70	.67
75/12/01 TO 76/01/04	6.05	.44	.01	.09	.09	.0	2.80	.50
76/01/04 TO 76/02/01	3.84	.29	.09	.09	.04	.0	1.30	.30
76/02/01 TO 76/03/01	4.70	.53	.09	.20	.00	.0	3.50	.55
76/03/01 TO 76/04/01	5.65	.72	.09	.15	.06	.0	2.60	.30
76/04/01 TO 76/05/02	3.15	1.50	.20	.20	.16	.0	5.80	.40
76/05/02 TO 76/06/01	4.29	.85	.13	.12	.07	.0	4.60	.29
76/06/01 TO 76/07/01	4.66	.32	.04	.05	.10	.0	3.70	.21
76/07/01 TO 76/08/01	5.70	.22	.01	.01	.00	.0	2.10	.12
76/08/01 TO 76/09/02	4.99	.14	.03	.01	.01	.0	3.60	.14
76/09/02 TO 76/10/01	5.35	.13	.04	.03	.01	.0	1.80	.08
PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE+ NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
75/10/01 TO 75/11/01	.1	.005	.033	.052	20	5.83	.157	9
75/11/01 TO 75/12/01	.1	.690	.210	.030	23	4.15	.166	18
75/12/01 TO 76/01/04	.1	.605	.301	.037	27	4.23	.162	18
76/01/04 TO 76/02/01	.0	.352	.145	.009	14	4.50	.106	9
76/02/01 TO 76/03/01	.0	.690	.320	.010	33	3.79	.215	13
76/03/01 TO 76/04/01	.1	.700	.248	.010	25	4.30	.132	15
76/04/01 TO 76/05/02	.0	1.200	.506	.010	53	3.99	.195	25
76/05/02 TO 76/06/01	.0	.617	.005	.005	43	4.11	.140	15
76/06/01 TO 76/07/01	.0	.303	.010	.010	45	4.00	.142	12
76/07/01 TO 76/08/01	.0	.056	.008	.008	27	4.21	.094	12
76/08/01 TO 76/09/02	.0	.051	.003	.012	37	---	.200	18
76/09/02 TO 76/10/01	.0	.026	.001	.012	17	4.20	.111	8

CHEMICAL QUALITY OF PRECIPITATION

601

LAKE ONTARIO BASIN

AT MAYS POINT, NY

LOCATION.--Lat 42°59'55", long 76°45'45", Wayne County, at National Weather Service station "Mays Point Lock 25," at Erie (Barge) Canal and State Highway 89, and 6.2 mi (10.0 km) south of Savannah.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
75/09/30 TO 75/10/31	2.25	1.47	.21	.12	.13	.0	4.39	.24
75/10/31 TO 75/11/28	1.95	.91	.15	.14	.09	.0	1.50	.41
75/11/28 TO 75/12/31	3.58	.84	.04	----	.59	.0	----	1.90
75/12/31 TO 76/02/02	3.42	2.80	.22	.93	.16	.0	5.90	1.75
76/02/02 TO 76/02/27	1.72	1.30	.19	.50	.10	.0	3.40	.70
76/02/27 TO 76/04/01	1.99	2.25	.17	.40	.08	.0	5.10	.60
76/04/01 TO 76/04/30	5.59	.50	.10	.11	.02	.0	2.20	.15
76/04/30 TO 76/06/01	5.53	2.88	.36	.13	.14	.0	5.80	.48
76/06/01 TO 76/06/30	5.03	2.34	.29	.06	.12	.0	4.80	.27
76/06/30 TO 76/07/31	4.02	2.94	.37	.08	.09	.0	4.60	.27
76/07/31 TO 76/08/31	2.43	1.10	.16	.04	.07	.0	4.30	.25
76/08/31 TO 76/09/30	2.89	1.10	.20	.06	.10	.0	4.20	.29

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE+NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
75/09/30 TO 75/10/31	.2	.990	.238	.022	36	4.25	.151	19
75/10/31 TO 75/11/28	.0	.795	.204	.013	35	4.10	.140	14
75/11/28 TO 75/12/31	.1	.503	.230	.054	24	4.40	.129	20
75/12/31 TO 76/02/02	.1	1.394	.215	.012	41	4.34	.170	69
76/02/02 TO 76/02/27	.1	.880	.258	.020	22	4.05	.180	18
76/02/27 TO 76/04/01	.1	1.100	.454	.010	40	4.40	.156	32
76/04/01 TO 76/04/30	.0	.280	.052	.010	17	4.49	.091	20
76/04/30 TO 76/06/01	.1	.665	.206	.010	27	5.40	.118	24
76/06/01 TO 76/06/30	.1	.410	.263	.025	22	5.65	.160	11
76/06/30 TO 76/07/31	.1	.465	.237	.010	23	5.83	.103	19
76/07/31 TO 76/08/31	.0	.589	.267	.019	38	----	.213	19
76/08/31 TO 76/09/30	.0	.904	.510	.040	54	4.00	.205	28

CHEMICAL QUALITY OF PRECIPITATION

ST. LAWRENCE RIVER BASIN

NEAR CANTON, NY

LOCATION.--Lat 44°34'40", long 75°06'40", St. Lawrence County, at National Weather Service station "Canton 4SE," on the Canton State University Farm on State Highway 68, 2.5 mi (4.0 km) southeast of U.S. Highway 11 and Canton.

PERIOD OF RECORD.--Water years 1966 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the National Weather Service station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
75/10/15 TO 75/11/04	2.23	1.43	.26	.99	.17	.0	4.44	.28
75/11/04 TO 75/12/01	3.25	.63	.13	.47	.10	.0	1.20	.21
75/12/01 TO 76/01/06	3.58	.52	.13	.12	.15	.0	2.30	2.00
76/01/06 TO 76/02/05	2.75	.53	.11	.58	.33	.0	2.20	.75
76/02/05 TO 76/03/05	3.28	1.10	.25	.40	.10	.0	4.10	.60
76/03/05 TO 76/04/05	2.92	.93	.18	.23	.10	.0	2.20	.20
76/04/05 TO 76/05/06	2.17	1.60	.40	.80	.15	2.0	4.90	.35
76/05/06 TO 76/06/04	5.55	.39	.09	.06	.02	.0	3.20	.23
76/06/04 TO 76/07/06	5.57	1.00	.25	.45	.18	.0	6.10	.31
76/07/06 TO 76/08/02	3.23	.97	.24	.37	.07	.0	4.50	.23
76/08/02 TO 76/09/07	-----	1.10	.32	.37	.08	.0	4.90	.26
76/09/07 TO 76/10/08	-----	6.30	1.10	7.60	.68	16	26.0	.85

PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
75/10/15 TO 75/11/04	.0	.285	.012	.008	19	5.22	.049	14
75/11/04 TO 75/12/01	.0	.614	.169	.009	27	4.20	.111	68
75/12/01 TO 76/01/06	.2	.778	.530	.058	25	4.40	.122	280
76/01/06 TO 76/02/05	.0	.629	.490	.018	18	4.55	.102	140
76/02/05 TO 76/03/05	.0	1.400	.882	.010	45	3.80	.197	240
76/03/05 TO 76/04/05	.1	.810	.531	.010	21	4.76	.099	95
76/04/05 TO 76/05/06	.0	.610	.095	.010	23	5.10	.076	24
76/05/06 TO 76/06/04	.0	.374	.064	.009	25	4.45	.119	30
76/06/04 TO 76/07/06	.0	.320	.030	.007	39	4.18	.121	41
76/07/06 TO 76/08/02	.0	.313	.002	.004	36	4.22	.104	31
76/08/02 TO 76/09/07	.0	.023	.013	.010	25	----	.184	30
76/09/07 TO 76/10/08	.1	.228	.001	.015	80	6.90	.062	4

CHEMICAL QUALITY OF PRECIPITATION

603

ST. LAWRENCE RIVER BASIN

NEAR CHAZY, NY

LOCATION.--Lat 44°53'15", long 73°28'01", Clinton County, at Cornell University Meteorological Station at William H. Miner Agriculture Research Institute, 0.1 mi (0.2 km) southeast of intersection of State Highway 191 and Ridge Road, and 1.4 mi (2.2 km) West of Chazy.

PERIOD OF RECORD.--Water years 1975 to current year (monthly composite).

EQUIPMENT.--The sample collector is a straight-sided glass funnel approximately 6.5 in (165 mm) in diameter which drains into a polyethylene receiving bottle. A fritted glass disk is used as a filter between the collector and the receiving bottle and is replaced at the end of each collection period. The glass funnel is heated during the cold-weather season to aid in full collection of snow. The receiving bottle is enclosed in an insulated box. The opening for the collector is approximately 5 ft (1.5 m) above ground level and is protected by a windshield.

REMARKS.--Inches of precipitation is that for the Cornell University meteorological station for the reported period of sampling.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIOD OF COLLECTION	INCHES OF PRECIPITATION	CALCIUM (CA) (MG/L)	MAGNESIUM (MG)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
75/10/01 TO 75/11/02	3.36	.41	.06	.05	.06	.0	1.94	.08
75/11/02 TO 75/12/01	4.15	.49	.04	.06	.09	.0	.40	.14
75/12/01 TO 76/01/02	1.25	1.50	.10	.35	.06	.0	3.50	1.20
76/01/02 TO 76/02/03	.11	.45	.08	.41	.07	.0	2.00	.65
76/02/03 TO 76/03/01	-----	.80	.10	.50	.00	.0	2.90	.50
76/03/01 TO 76/04/01	-----	1.08	.09	.18	.06	.0	2.00	.25
76/04/01 TO 76/05/03	-----	.60	.10	.13	.13	.0	2.80	.25
76/05/03 TO 76/06/01	4.54	.29	.02	.04	.06	.0	2.90	.24
76/06/01 TO 76/07/01	3.68	.52	.06	.03	.08	.0	4.00	.17
76/07/01 TO 76/08/03	5.32	.34	.03	.02	.00	.0	3.80	.10
76/08/03 TO 76/09/02	3.45	.27	.05	.04	.03	.0	3.30	.14
76/09/02 TO 76/10/01	3.57	.17	.03	.03	.02	.0	2.00	.09
PERIOD OF COLLECTION	FLUORIDE (F) (MG/L)	NITRATE AS N (MG/L)	AMMONIA AS N (MG/L)	PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	ACIDITY AS H (MG/L)	LEAD (PB) (UG/L)
75/10/01 TO 75/11/02	.1	.375	.230	.008	16	4.50	.075	9
75/11/02 TO 75/12/01	.1	.528	.259	.008	22	4.30	.097	15
75/12/01 TO 76/01/02	.1	.971	.432	.007	32	4.31	.098	28
76/01/02 TO 76/02/03	.0	1.086	.385	.009	33	4.10	.130	39
76/02/03 TO 76/03/01	.0	1.100	.440	.010	35	3.02	.208	13
76/03/01 TO 76/04/01	.1	.810	.301	.010	24	4.55	.107	12
76/04/01 TO 76/05/03	.0	.380	.195	.020	20	4.51	.121	8
76/05/03 TO 76/06/01	.0	.400	.188	.007	31	4.20	.122	15
76/06/01 TO 76/07/01	.0	.241	.203	.011	34	4.22	.142	21
76/07/01 TO 76/08/03	.0	.294	.117	.007	38	4.20	.123	16
76/08/03 TO 76/09/02	.0	.486	.207	.015	42	3.30	.210	16
76/09/02 TO 76/10/01	.0	.443	.252	.012	34	4.00	.151	14

GROUND-WATER LEVELS

BROOME COUNTY

420657075583501. Local number, Bm 121.

LOCATION.--Lat 42°06'57", long 75°58'35", Hydrologic Unit 02050103, at Camden and Main Streets, Johnson City.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), depth 53 ft (16.2 m), cased to 53 ft (16.2 m), open end.

DATUM.--Altitude of land-surface datum is 835 ft (255 m). Measuring point: Top of casing, 3.17 ft (0.97 m) above land-surface datum.

REMARKS.--Well cleaned from 46 ft (14.0 m), to original depth on Oct. 19, 1970. Water level affected by floods of Susquehanna River, and by pumping from municipal well field 1,100 ft (335 m) south.

PERIOD OF RECORD.--March 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.73 ft (2.97 m) below land-surface datum, Apr. 8, 1956; lowest, 33.47 ft (10.2 m) below land-surface datum, Sept. 23, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	21.8	23.3	23.9	25.3	23.3	18.2	21.6	23.0	24.5	24.4	25.6	25.8
10	23.1	24.1	24.2	25.3	23.4	18.8	22.4	23.5	24.5	24.4	25.1	26.1
15	24.0	23.9	24.4	25.4	24.0	20.5	23.3	23.9	25.1	24.3	25.0	26.2
20	20.7	--	24.7	25.6	19.2	21.8	23.0	24.2	25.2	24.6	24.9	26.0
25	20.5	23.7	24.7	25.9	17.6	21.8	24.7	23.3	25.1	25.2	--	26.2
EOM	22.3	23.8	25.1	23.5	18.3	22.4	23.0	23.9	25.2	25.6	25.6	26.1

WTR YEAR 1976 HIGHEST 17.55 Feb. 24, 1976 LOWEST 26.31 Sept. 17, 1976

CATTARAUGUS COUNTY

420530078445201. Local number, Ct 121.

LOCATION.--Lat 42°05'30", long 78°44'52", Hydrologic Unit 05010001, near Red House.

Owner: State Department of Environmental Conservation.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 53 ft (16.2 m), cased to 53 ft (16.2 m), open end.

DATUM.--Altitude of land-surface datum is 1,470 ft (448 m). Measuring point: Top of casing, 0.30 ft (0.09 m) above land-surface datum.

REMARKS.--Unusually low water levels experienced since July 4, 1969. (Lowest previous measurement was 13.23 ft or 4.03 m, Feb. 1, 1961). Extreme low levels occur during late summer and fall months, with lower than normal levels prevalent throughout the year. A source of nearby pumping has not been determined.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.29 ft (1.00 m) below land-surface datum, Dec. 15, 1967; lowest, 34.87 ft (10.6 m) below land-surface datum, Nov. 21, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	10.10	JAN 24	5.45	MAR 12	3.75	MAY 7	8.18	JUN 25	9.37	AUG 6	11.84
10	10.00	30	4.95	20	3.66	14	12.80	JUL 2	9.59	13	12.40
17	9.80	FEB 6	5.19	APR 1	3.79	21	10.78	9	10.42	20	12.45
31	8.55	13	5.01	9	3.86	28	9.57	16	11.47	27	12.53
NOV 28	9.60	21	4.36	16	8.12	JUN 4	11.60	23	11.64	SEP 3	12.95
JAN 9	5.75	27	4.23	23	9.66	11	9.30	30	11.74	24	10.72
16	5.56	MAR 5	3.63	30	10.48	18	10.72				

605

420326079295801. Local number, Cu 5.

LOCATION.--Lat 42°03'26", long 79°29'58", Hydrologic Unit 05010002, near Panama.

Owner: State Department of Environmental Conservation.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 36 in (0.91 m), depth 33 ft (10.1 m), stone-lined.

DATUM.--Altitude of land-surface datum is 1,750 ft (533 m). Measuring point: Top of 0.25-in (0.006-m) steel-plate well cover, inside shelter door, 0.44 ft (0.13 m) below land-surface datum.

PERIOD OF RECORD.--May 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.95 ft (0.29 m) below land-surface datum, Dec. 26, 1968;
lowest, 9.41 ft (2.87 m) below land-surface datum, May 24, 1949.

		WATER		WATER		WATER		WATER		WATER		WATER
DATE		LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL	DATE	LEVEL
OCT 2		3.00	DEC 4	2.50	FEB 6	2.10	APR 8	2.40	JUN 10	3.20	AUG 12	3.00
9		3.30	11	2.60	12	1.95	15	3.20	17	3.80	19	3.30
16		3.35	18	2.20	19	1.25	22	3.40	24	4.10	26	3.60
23		2.95	25	2.10	26	2.30	29	2.60	JUL 1	2.50	SEP 2	3.60
30		3.00	JAN 1	2.20	MAR 4	1.40	MAY 6	2.40	8	3.00	9	3.95
NOV 6		2.70	8	2.80	11	2.50	13	2.70	15	3.20	16	3.00
13		2.45	15	1.90	18	2.70	20	2.00	22	2.65	23	2.10
20		2.80	22	2.00	25	2.60	27	2.85	29	3.10	30	2.45
27		1.60	29	1.90	APR 1	1.80	JUN 6	2.90	AUG 5	2.95		

423539076114801. Local number, C 19.

LOCATION.--Lat 42°35'39", long 76°11'48", Hydrologic Unit 02050102, Broadway, Cortland.

Owner: City of Cortland.

AQUIFER.--Glacial gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 6 in (0.15 m), depth 13 ft (3.96 m), cased to 13 ft (3.96 m), open end.

DATUM.--Altitude of land-surface datum is 1,140 ft (347 m). Measuring point: Top inner step of flange, 2.45 ft (0.75 m) below land-surface datum.

REMARKS.--Water level affected by pumping from nearby municipal supply wells and by stage of nearby stream.

REMARKS:--water level affected by pumping from nearby municipal supply works and by stage of rains. System
Formerly a dug, abandoned, municipal supply well, diameter 40 ft (12.2 m), depth 18 ft (5.49 m). Present 6-in
(0.15-m) casing installed at center and dug well backfilled in Dec. 1953. Well destroyed May 7, 1976.

PERIOD OF RECORD.--February 1947 to May 1976 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.98 ft (0.91 m) below land-surface datum, Apr. 5, 1947;
lowest, 11.37 ft (3.47 m) below land-surface datum, Nov. 13, 1971.

[illegible]

GROUND-WATER LEVELS

DUTCHESS COUNTY

414737073563301. Local number, Du 321.

LOCATION.--Lat 41°47'37", long 73°56'33", Hydrologic Unit 02020008, near Hyde Park.

Owner: U.S. National Park Service.

AQUIFER.--Shale of Ordovician age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 128 ft (39.0 m), open hole.

DATUM.--Altitude of land-surface datum is 170 ft (51.8 m). Measuring point: Top of casing, 3.10 ft (0.94 m) above land-surface datum.

REMARKS.--Water level affected by earth tides (approximately 0.05 ft or 0.02 m).

PERIOD OF RECORD.--September 1948 to April 1950, April 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.62 ft (20.0 m) below land-surface datum, June 22, 1953; lowest, 73.85 ft (22.5) below land-surface datum, Sept. 13, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	67.79	--	--	67.43	67.19	66.24	65.99	66.43	66.98	67.46	68.08	--
10	67.78	67.76	--	--	66.95	66.29	66.09	66.54	66.91	67.59	67.83	--
15	67.64	67.51	--	--	66.96	66.20	66.14	66.61	67.12	67.62	67.87	--
20	67.48	67.75	67.39	--	66.48	66.22	66.18	66.43	67.21	67.93	68.04	--
25	67.61	67.72	--	--	66.37	66.29	66.13	66.66	67.26	67.91	68.05	--
EOM	67.63	67.71	--	--	66.19	66.29	66.29	66.82	67.33	68.17	68.08	--

WTR YEAR 1976 HIGHEST 65.96 Apr. 3, 1976 LOWEST RECORDED 68.21 July 29, 1976

GENESEE COUNTY

425516078032001. Local number, Gs 2.

LOCATION.--Lat 42°55'16", long 78°03'20", Hydrologic Unit 04130003, near Pavilion.

Owner: Angeline C. Rigoni.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 36 in (0.91 m), depth 21 ft (6.40 m) stone-lined.

DATUM.--Altitude of land-surface datum is 1,030 ft (314 m). Measuring point: Painted arrow on top edge of concrete well cover, inside shelter door, 1.12 ft (0.34 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.10 ft (0.03 m) below land-surface datum, May 14, 1960, Feb. 28, 1971, and Feb. 13, 1976; lowest, 6.55 ft (2.00 m) below land-surface datum, Feb. 11, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	1.26	DEC 6	0.14	FEB 7	1.26	APR 10	1.11	JUN 12	1.10	AUG 7	1.18
11	1.66	13	.14	13	.10	17	.94	19	1.33	14	.56
18	.92	20	.89	21	.31	24	.44	26	.71	21	1.21
25	1.09	29	1.14	MAR 1	.22	MAY 1	.65	JUL 3	.73	27	1.52
NOV 1	1.51	JAN 3	.33	6	.33	12	.45	9	.74	SEP 4	1.67
8	1.51	10	.89	13	.77	15	.76	17	1.24	11	1.90
15	.95	17	.40	20	.24	22	.52	23	1.45	18	2.12
22	1.04	24	1.02	27	.64	JUN 2	.36	31	.81	25	1.94
29	.85	31	.44	APR 3	.45	5	.86				

GROUND-WATER LEVELS

607

GREENE COUNTY

422319073482001. Local number, G 1.

LOCATION.--Lat 42°23'19", long 73°48'20", Hydrologic Unit 02020006, near West Coxsackie.

Owner: Fred Kropp.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 36 in (0.91 m), depth 19 ft (5.79 m), tile-lined to 2 ft (0.61 m), stone-lined to 19 ft (5.79 m).

DATUM.--Altitude of land-surface datum is 130 ft (39.6 m). Measuring point: Chiseled square on top of inner step on curb, 0.18 ft (0.05 m) below land-surface datum.

PERIOD OF RECORD.--December 1945 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.07 ft (0.33 m) below land-surface datum, Mar. 15, 1962; lowest, 15.56 ft (4.74 m) below land-surface datum, Feb. 27, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	4.04	DEC 9	3.07	FEB 11	3.41	APR 16	3.94	JUN 10	3.94	AUG 6	7.42
14	3.39	16	3.22	18	1.76	23	3.93	17	4.14	13	3.24
21	3.05	23	3.83	25	2.73	29	3.28	24	4.25	20	4.77
28	3.15	30	3.48	MAR 4	2.64	MAY 5	2.82	JUL 1	3.13	27	5.62
NOV 4	3.85	JAN 9	3.98	11	2.98	12	2.77	8	3.64	SEP 3	4.96
11	4.05	15	3.44	18	3.29	20	2.36	15	4.46	10	4.79
18	3.78	21	3.97	25	2.81	27	3.42	23	5.99	17	4.48
25	3.62	28	1.94	31	2.94	JUN 3	3.72	30	7.48	24	4.34
DEC 2	2.91	FEB 4	2.41	APR 8	3.36						

MONTGOMERY COUNTY

430141074423501. Local number, Mt 1.

LOCATION.--Lat 43°01'41", long 74°42'35", Hydrologic Unit 02020004, near St. Johnsville.

Owner: Marion G. Groff.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 24 in (0.61 m), depth 12 ft (3.66 m), stone-lined.

DATUM.--Altitude of land-surface datum is 710 ft (216 m). Measuring point: Top edge of limestone slab at northeast corner of well opening, at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.74 ft (1.14 m) below land-surface datum, Apr. 10, 1971; lowest, 9.99 ft (3.04 m) below land-surface datum, Aug. 28, 1949.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11	7.25	DEC 8	6.18	MAR 16	5.92	APR 12	5.90	JUN 2	6.48	JUL 14	6.98
NOV 1	6.92	JAN 16	7.62	26	5.22	21	6.20	25	5.94	AUG 14	6.64
18	6.51	28	7.48	29	4.84	MAY 20	6.06	JUL 5	6.32	SEP 22	7.67
25	6.30	FEB 26	4.76	APR 5	5.42	24	5.76				

ONEIDA COUNTY

433112075091501. Local number, Oe 151.

LOCATION.--Lat 43°31'12", long 75°09'15", Hydrologic Unit 04150101, at Woodgate.

Owner: Henry Rubyor.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 36 in (0.91 m), depth 31 ft (9.45 m), stone-lined.

DATUM.--Land-surface datum is 1,484.94 ft (452.61 m) above mean sea level. Measuring point: Top of 2-ft (0.61-m) square concrete well cover at midpoint of south side of rectangular opening, 1.00 ft (0.30 m) above land-surface datum.

PERIOD OF RECORD.--July 1926 to August 1945, October 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.43 ft (3.48 m) below land-surface datum, Apr. 3, 1976; lowest, 30.31 ft (9.24 m) below land-surface datum, Feb. 25, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	22.00	DEC 6	18.91	FEB 9	20.95	APR 10	11.95	JUN 12	16.88	AUG 7	22.81
11	22.04	13	18.82	14	21.30	17	13.42	19	17.95	16	23.35
18	22.11	20	19.11	21	21.45	24	14.30	26	19.29	21	23.31
25	20.52	27	19.42	28	20.29	MAY 1	14.99	JUL 3	19.56	28	23.70
NOV 1	19.89	JAN 3	20.14	MAR 6	18.35	8	15.45	10	20.44	SEP 4	24.75
8	20.55	10	20.51	13	16.92	15	15.84	17	20.68	11	24.70
15	20.65	17	21.15	20	18.03	22	15.70	24	21.03	18	23.34
22	19.58	24	21.80	27	15.33	29	14.13	31	21.62	25	25.06
29	18.92	31	21.45	APR 3	11.43	JUN 5	15.46				

GROUND-WATER LEVELS

ONTARIO COUNTY

425840077133901. Local number, Ot 900.

LOCATION.--Lat 42°58'40", long 77°13'39", Hydrologic Unit 04140201, at New York State Thruway Interchange 43, near Manchester.

Owner: State Thruway Authority.

AQUIFER.--Camillus Shale of the Salina Group of Late Silurian age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 139 ft (42.4 m), cased to 11 ft (3.35 m), open hole.

DATUM.--Altitude of land-surface datum is 555 ft (169 m). Measuring point: Top of casing, 11.43 ft (3.48 m) above land-surface datum.

PERIOD OF RECORD.--May 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.14 ft (3.40 m) above land-surface datum, Mar. 15, 1976; lowest, 4.59 ft (1.40 m) above land-surface datum, Nov. 11, 1957.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 6	+ 8.28	DEC 8	+ 8.53	FEB 9	+10.29	APR 12	+10.91	JUN 14	+10.51	AUG 9	+10.19
13	+ 8.43	15	+ 8.90	16	+10.60	19	+10.97	21	+10.47	16	+10.08
20	+ 8.61	22	+ 9.00	23	+10.83	26	+11.13	28	+10.33	23	+ 9.89
27	+ 8.58	29	+ 8.92	MAR 1	+10.94	MAY 3	+11.08	JUL 5	+10.22	30	+ 9.52
NOV 3	+ 8.63	JAN 5	+ 8.94	8	+11.12	10	+11.09	12	+10.25	SEP 6	+ 9.33
10	+ 8.71	12	+ 9.07	15	+11.14	17	+10.98	19	+10.25	13	+ 9.07
17	+ 8.62	19	+ 8.98	22	+10.91	24	+11.11	26	+10.23	20	+ 9.37
24	+ 8.58	26	+ 9.45	29	+11.03	31	+11.02	AUG 2	+10.17	27	+ 9.17
DEC 1	+ 8.63	FEB 2	+10.41	APR 5	+11.10	JUN 7	+10.87				

RENSSELAER COUNTY

423834073391001. Local number, Re 700.

LOCATION.--Lat 42°38'34", long 73°39'10", Hydrologic Unit 02020006, near Defreestville.

Owner: William P. Hofmann.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 4 ft (1.22 m), depth 16 ft (4.88 m), stone-lined.

DATUM.--Altitude of land-surface datum is 405 ft (123 m). Measuring point: Top edge of concrete curbing at mid-point of north side of rectangular opening, 2.00 ft (0.61 m) above land-surface datum.

PERIOD OF RECORD.--September 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.92 ft (2.72 m) below land-surface datum, Apr. 4, 1970; lowest, 15.49 ft (4.72 m) below land-surface datum, Oct. 3, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 5	12.07	DEC 6	10.51	FEB 8	9.99	APR 10	9.72	JUN 7	10.30	AUG 7	12.41
11	12.48	13	10.38	14	10.01	17	10.00	13	10.71	14	11.38
18	10.73	21	10.67	22	8.93	24	10.15	19	11.00	21	11.39
26	10.15	27	10.95	28	9.37	MAY 1	10.13	26	11.45	28	12.00
NOV 1	10.32	JAN 3	10.88	MAR 7	9.24	8	10.04	JUL 3	10.89	SEP 4	12.25
8	10.54	11	11.25	14	9.75	16	10.14	17	12.00	11	12.59
15	10.26	17	10.99	21	9.67	22	9.40	24	12.33	18	12.90
23	10.12	24	11.33	28	9.72	29	10.17	31	12.55	25	12.91
29	10.56	31	9.98	APR 3	9.39						

GROUND-WATER LEVELS

609

ROCKLAND COUNTY

411802073593001. Local number, Ro 18.

LOCATION.--Lat 41°18'02", long 73°59'30", Hydrologic Unit 02030101, in Bear Mountain section near Lemon Road and Seven Lakes Drive.

Owner: Palisades Interstate Park Commission.

AQUIFER.--Storm King Granite of Precambrian age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 60 ft (18.3 m), cased to 53 ft (16.2 m), open hole.

DATUM.--Altitude of land-surface datum is 390 ft (119 m). Measuring point: Top of casing, 3.65 ft (1.11 m) above land-surface datum.

PERIOD OF RECORD.--July 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.55 ft (3.22 m) below land-surface datum, Mar. 3, 1961; lowest, 28.16 ft (8.58 m) below land-surface datum, Nov. 29, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	15.73	DEC 27	15.57	MAR 5	14.77	APR 26	16.17	JUN 19	18.17	JUL 31	21.33
NOV 11	14.81	JAN 15	14.58	12	15.46	MAY 4	16.28	26	18.75	AUG 8	21.89
18	14.64	22	14.72	22	15.74	21	16.28	JUL 3	19.17	15	21.54
25	13.58	29	11.75	29	15.66	28	16.61	10	19.64	29	22.38
DEC 3	13.75	FEB 9	13.32	APR 5	13.66	JUN 4	17.04	17	20.18	SEP 11	23.43
11	14.60	19	13.07	12	14.68	11	17.50	24	20.78	28	24.23
19	15.23	26	13.59	20	15.65						

ST. LAWRENCE COUNTY

444904074455201. Local number, St 40.

LOCATION.--Lat 44°49'04", long 74°45'52", Hydrologic Unit 04150306, near Brasher Falls.

Owner: State Department of Environmental Conservation.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 36 in (0.91 m), depth 12 ft (3.66 m), concrete cased to 12 ft (3.66 m), open end.

DATUM.--Altitude of land-surface datum is 299 ft (91 m). Measuring point: Chisled mark on top edge of 6-in (0.15-m) by 8-in (0.20-m) opening of concrete well cover, 0.7 ft (0.21 m) above land-surface datum.

REMARKS.--Altitude determined with barometric altimeter.

PERIOD OF RECORD.--May 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.24 ft (0.99 m) below land-surface datum, Apr. 21, 1971; lowest, 9.38 ft (2.86 m) below land-surface datum, Oct. 24, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	7.44	DEC 3	5.61	FEB 4	5.80	APR 7	4.39	JUN 9	5.29	AUG 4	6.46
8	7.47	10	5.51	11	5.84	14	4.70	16	5.45	11	6.38
15	7.41	17	5.48	18	5.52	21	4.90	23	5.40	18	6.18
22	6.63	24	5.68	25	5.22	28	4.86	30	5.41	25	6.94
29	6.54	31	5.93	MAR 4	5.08	MAY 5	4.77	JUL 7	5.65	SEP 1	6.94
NOV 5	6.64	JAN 7	6.04	10	5.15	12	4.65	14	5.95	8	6.94
12	6.39	14	6.20	18	5.21	19	4.66	21	6.21	15	6.94
19	5.83	21	6.32	24	4.17	26	4.66	28	5.48	23	7.46
26	5.60	28	5.89	31	4.23	JUN 2	5.02				

GROUND-WATER LEVELS

SCHENECTADY COUNTY

424910073591401. Local number, Sn 363.

LOCATION.--Lat 42°49'10", long 73°59'14", Hydrologic Unit 02020004, in Schenectady.

Owner: City of Schenectady.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in (0.15 m), original depth 57 ft (17.4 m) (has filled in to 54 ft or 16.4 m), cased to 57 ft (17.4 m), open end.

DATUM.--Land-surface datum is 228.50 ft (69.64 m) above mean sea level. Measuring point: Top of shelter platform, 2.55 ft (0.78 m) above land-surface datum.

REMARKS.--Water level affected by stage of Mohawk River, and by pumping (average 15.0 mgal/d or 56,800 m³/d in 1976) from municipal well field.

PERIOD OF RECORD.--June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.62 ft (1.10 m) below land-surface datum, Dec. 27, 1973;

lowest, 31.27 ft (9.53 m) below land-surface datum, Feb. 10, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
HIGHEST FOR THE DAY (FROM RECORDER GRAPH)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	--	18.49	18.36	20.62	20.71	18.47	16.60	19.23	20.66	19.83	20.57	--
10	18.87	18.63	19.30	21.73	21.53	18.29	19.95	20.06	20.30	20.71	18.18	20.72
15	18.25	17.24	19.14	21.54	21.14	19.75	20.97	19.8 E	19.97	19.58	18.26	20.35
20	13.55	18.30	--	21.79	5.66	20.59	20.90	15.98	20.72	21.02	20.07	19.15
25	17.92	18.00	--	22.49	15.37	18.81	20.40	18.17	20.43	21.81	20.93	19.80
EOM	18.49	--	20.45	20.19	16.49	18.85	19.18	19.68	20.84	20.52	18.94	18.86

E Estimated.

WTR YEAR 1976 HIGHEST 5.66 Feb. 20, 1976 LOWEST 23.14 Jan. 27, 1976

WASHINGTON COUNTY

431026073194101. Local number, W 264.

LOCATION.--Lat 43°10'26", long 73°19'41", Hydrologic Unit 02020003, in Salem.

Owner: Village of Salem.

AQUIFER.--Glacial gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug fire-protection water-table well, approximate size 8 ft (2.44 m) by 12 ft (3.66 m), depth 15 ft (4.57 m), stone-lined.

DATUM.--Land-surface datum is 485.5 ft (147.98 m) above mean sea level. Measuring point: Top edge of concrete cover at north side of square opening, at land-surface datum.

REMARKS.--Water level affected by floods of nearby stream.

PERIOD OF RECORD.--July 1946 to December 1973, October 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.62 ft (2.02 m) below land-surface datum, Apr. 4, 1960; lowest, 11.70 ft (3.57 m) below land-surface datum, Oct. 12, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	7.00	FEB 3	7.22	MAY 27	7.83	JUL 14	9.45	AUG 24	8.77	SEP 20	9.54

WYOMING COUNTY

423739077595501. Local number, Wo 1.

LOCATION.--Lat 42°37'39", long 77°59'55", Hydrologic Unit 04130002, Letchworth State Park, near Castile.

Owner: State Department of Environmental Conservation.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 2 in (0.051 m), depth 14 ft (4.27 m), well point (60-gauze screen) 11 ft (3.4 m) to 14 ft (4.3 m).

DATUM.--Altitude of land-surface datum is 1,020 ft (311 m). Measuring point: Top of 2-in (0.051-m) by 1-in (0.025-m) reducing coupling, 3.33 ft (1.01 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.5 ft (0.15 m) below land-surface datum, Apr. 5, 1947; lowest, dry, Dec. 6-27, 1964, Jan. 2, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	11.99	DEC 15	3.15	FEB 14	2.64	APR 17	3.56	JUN 21	4.58	AUG 24	5.05
NOV 15	6.68	JAN 17	3.56	MAR 14	2.88	MAY 17	2.37	JUL 18	4.34	SEP 19	9.61

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FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
<i>Length</i>		
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)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	*hectares (ha)
	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)
<i>Volume</i>		
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 (10 ⁶ gal)	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 [(ft ³ /s) · d]	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)
<i>Flow</i>		
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 (mgal/d)	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	tonnes (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

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