Water Resources Data New York Water Year 1985

Volume 1. Eastern New York excluding Long Island

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-85-1
Prepared in cooperation with the State of New York
and with other agencies

CALENDAR FOR WATER YEAR 1985

1984

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1985

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Water Resources Data New York Water Year 1985

Volume 1. Eastern New York excluding Long Island

by G.D. Firda, R. Lumia, R.J. Archer, and P.M. Burke

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-85-1
Prepared in cooperation with the State of New York
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in New York write to:

District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Courthouse
P.O. Box 1669
Albany, New York 12201

1986

PREFACE

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

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

In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

G. J. Canzeri	G. J. Hebert	W. W. Staubitz
R. H. Cartwright	H. G. Lent, Jr.	D. A. Stedfast
F. N. Dalton	P. S. Murdoch	R. M. Waller
J. A. Gardner II	J. A. Robideau	S. W. Wolcott
G. C. Gravlee	R. F. Snow	T. J. Zembrzuski, Jr.
P. H. Hamecher		

S. M. Durocher typed the text of the report.

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

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Water resources data for the 1985 water year for New York consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels in observation wells. This volume contains records of water discharge at 97 gaging stations; stage only at 5 gaging stations; and stage and contents at 4 gaging stations and 19 lakes and reservoirs; water quality at 36 gaging stations; and water levels at 23 observation wells. Locations of these sites are shown on figures 7A and 7B. Also included are data for 66 crest-stage and 8 low-flow partial-record stations. Additional water data were collected at various sites not in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data, together with the data in volumes 2 and 3, represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in New York.

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

* * * * * * * * * * * * * * * * *

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED
(Continued)

GROUND-WATER LEVELS

WATER RESOURCES DATA FOR NEW YORK, 1985
Volume 1.--Eastern New York excluding Long Island

INTRODUCTION

Water resources data for the 1985 water year for New York consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and ground-water levels. This volume contains records for water discharge at 97 gaging stations; stage only at 5 gaging stations; stage and contents at 4 gaging stations, and 19 other lakes and reservoirs; water quality at 36 gaging stations; and water levels at 23 observation wells. Also included are data for 66 crest-stage and 8 low-flow partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program, and are published as miscellaneous measurements and analyses in this volumn. These data together with the data in Volumes 2 and 3 represent that part of the National Water Data System operated by the U.S. Geological Survey in cooperation with State, Municipal, and Federal agencies in New York.

Records of discharge and stage of streams, and contents and 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 and universities in the United States or may be purchased from the U.S. Geological Survey, Branch of Distribution, 604 South Pickett Street, Alexandria, VA 22304.

Since the 1961 water year, streamflow data and since the 1964 water year, water-quality data have been released by the Geological Survey in annual reports on a State-boundary basis. These reports provided rapid release of water data in each state shortly after the end of the water year. Through 1970 the data were also released in the water-supply paper series mentioned above.

Streamflow and water-quality data beginning with the 1971 water year, and ground-water data beginning with the 1975 water year are published only in reports on a State-boundary basis. Beginning with the 1975 water year, these Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NY-85-1." Water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices for ordering specific reports, may be obtained from the District Chief at the address given on the back of the title page or by telephone (518) 472-3107.

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 Volume 1, water year 1985, through cooperative agreement with the Survey are:

New York State Department of Environmental Conservation
New York State Department of Transportation
County of Ulster, County Legislature
County of Westchester, Department of Public Works
City of New York, Bureau of Water Resources Development
City of New York, Department of Environmental Protection
Village of Nyack
Board of Hudson River-Black River Regulating District
New York Power Authority

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 Environmental Protection Agency, and the St. Lawrence Seaway Development Corp.

The following municipalities and organizations aided in collecting records:

Plattsburgh, Tarrytown, Tupper Lake, and Yonkers; Indian River Co.; New York State Electric and Gas Corp.; Niagara Mohawk Power Corp.; Orange and Rockland Utilities, Inc.; Oswegatchie River-Cranberry Reservoir Commission; Spring Valley Water Co.; and Utica Board of Water Supply.

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Annual precipitation during water year 1985 was generally much below average over most of eastern New York, except in some northern areas, where heavy rainfall during late December and late September brought it to near average levels. Despite the heavy rains from Hurricane Gloria in late September, annual precipitation throughout southern areas remained generally below average. The annual runoff of streams in eastern New York during water year 1985 varied significantly throughout the area. Extreme northern New York, including the Black River and St. Lawrence River basins, had average to above-average annual runoff (100 to 120 percent of average, fig. 1). Runoff within the Upper Hudson River, Lake Champlain, and Mohawk River basins was below average to average (80 to 100 percent of average) and, in the Lower Hudson River, Schoharie Creek, and Delaware River basins, was generally much below average (40 to 60 percent of average).

The low streamflow throughout southeastern New York during 1985 prompted the implementation of water-conservation measures in several communities dependent on surface-water sources. (A similar situation occurred during the early to mid-1960's drought.) The following table gives 1985 mean discharges for selected gaging stations in southeastern New York, as well as the previous minimum annual mean discharge and mean annual discharge for each site's period of record:

Station number	Period of record	1985 water year: Mean discharge (ft^3/s)	1985 water year: Percentage of mean annual discharge	Previous minimum annual mean: Discharge (ft^3/s)	Previous minimum annual mean: Water year	Mean annual discharge for period of record* (ft^3/s)
01350000	1904-current	202	45	229	1965	464
01359750	1958-current	19.6	50	8.41	1965	38.9
01362198	1964-current	67.2	48	59.8	1965	140
01365000	1938-current	56.2	57	49.1	1965	98.7
01365500	1939-current	22.5	57	18.3	1965	39.3
01372500	1929-current	110	41	65.7	1965	255
01387450	1959-current	11.2	44	12.3	1965	25.3
01413500	1938-current	170	55	138	1965	307
01414500	1938-current	31.6	57	28.1	1965	55.5
01420500	1914-current	333	60	277	1965	559
01423000	1951-current	339	58	263	1965	588
01435000	1952-current	116	61	100	1965	190

* Through 1984 water year

For each of the above sites, the 1985 mean discharge was the lowest or second lowest for the station's period of record.

A drought emergency was declared for New York City on April 26 as storage in the City's reservoir system fell to only 61.5 percent of capacity. The long-term average month-end storage for April is 99.8 percent of capacity. Figure 2A shows the New York City reservoir system average month-end reservoir contents and month-end contents during 1985; figure 2B compares 1985 month-end storage in Great Sacandaga Lake at Conklingville (in the Upper Hudson River basin) with the average month-end storage for 1931-84. Although the New York City reservoir system experienced much-below-average storage during 1985, Great Sacandaga Lake remained at about seasonal levels the entire year.

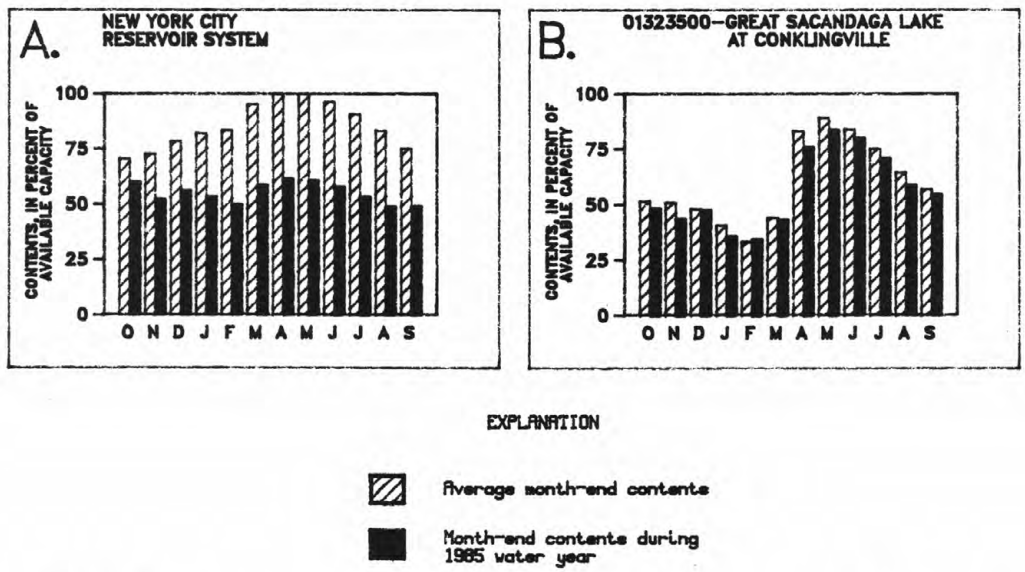


Figure 2.--Comparison of average month-end reservoir contents and month-end contents during 1985 water year for two selected reservoir systems in eastern New York.

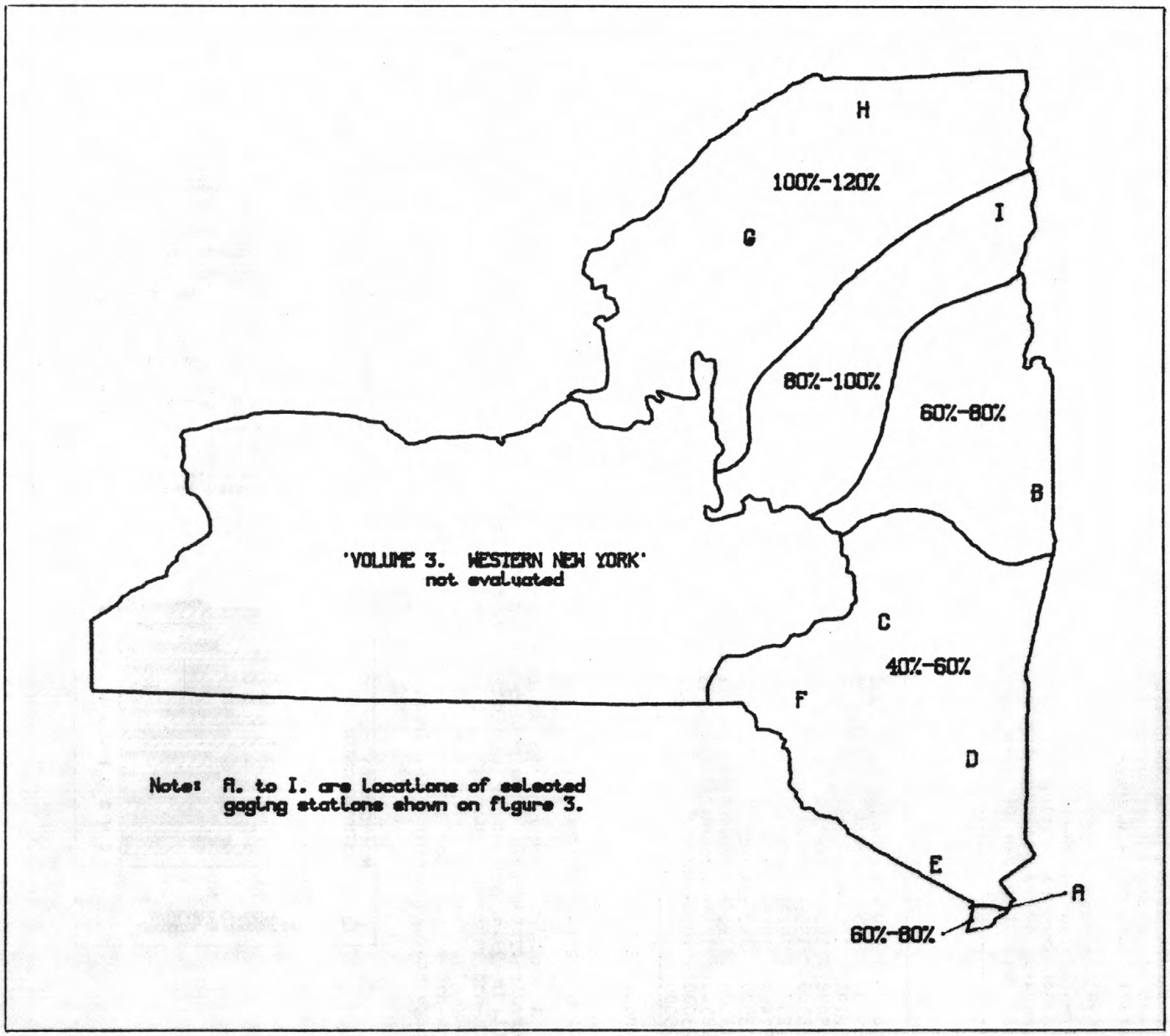


Figure 1.--1985 water year runoff as a percentage of the average annual runoff for 1960-84 for eastern New York excluding Long Island.

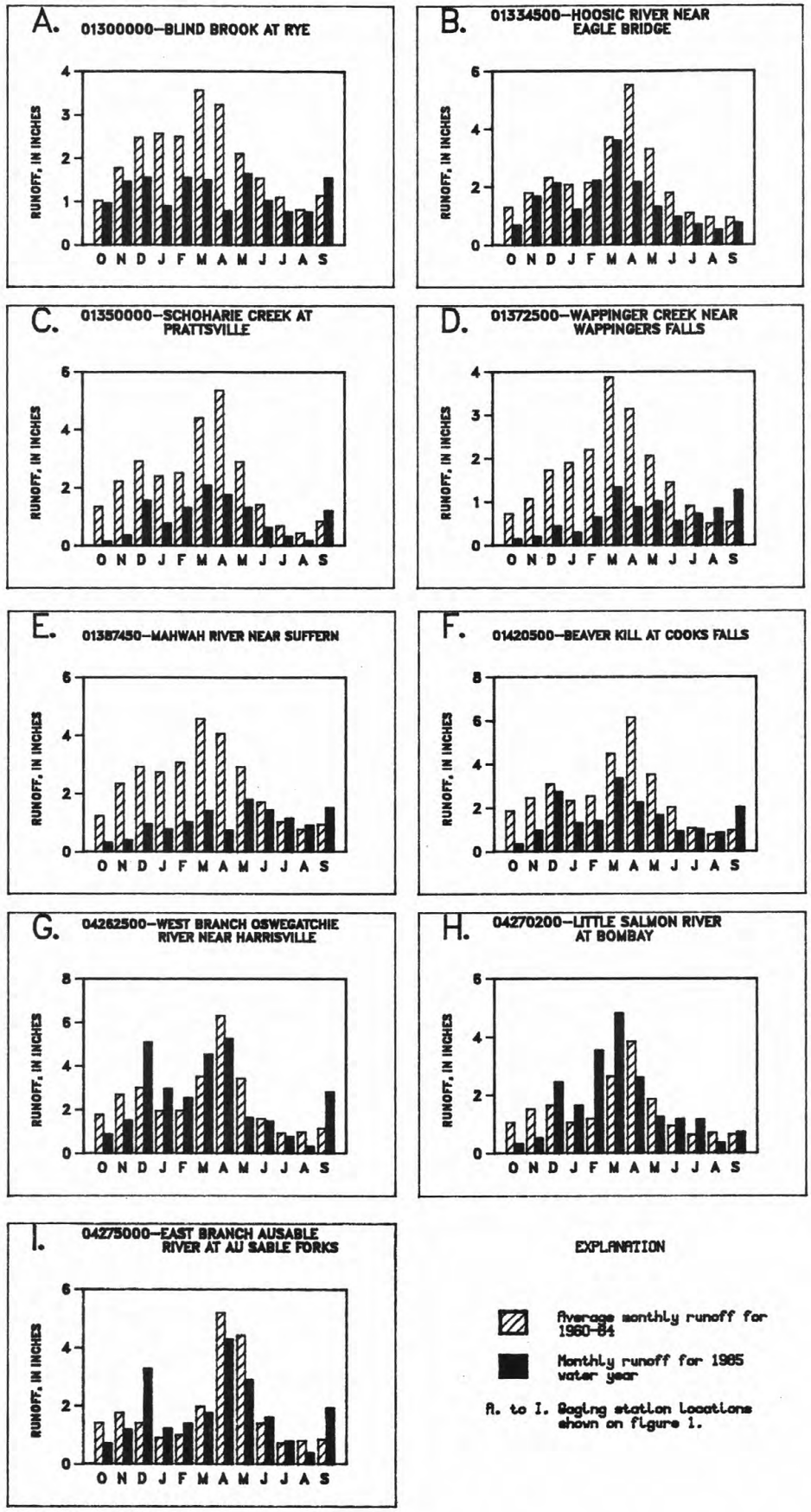


Figure 3.--Comparison of monthly runoff for 1985 water year and average monthly runoff for 1960-84 for selected gaging stations in eastern New York (site locations are shown on figure 1).

The 1985 monthly runoff for selected stations in eastern New York is compared with each sites 1960-84 average monthly runoff in figure 3. (The letters A through I on figure 1 show the locations of the sites represented in figure 3.) October and November flows were below average in most of eastern New York, and monthly rainfall was generally 1 to 2 inches below average during each of these months throughout eastern New York.

Stream runoff throughout eastern New York varied dramatically during December. A major storm beginning December 28, preceded by record warm temperatures and associated snowmelt, caused record flooding in northern New York, particularly within the Black and Salmon River basins and along several streams draining to the St. Lawrence River. Damages to residences and to public roads and facilities throughout northern New York were estimated at more than $5 million. Lewis and Oswego Counties were declared major disaster areas. The December precipitation measured at Stillwater Reservoir in the Black River basin was 9.51 inches--5.55 inches greater than average. Stillwater Reservoir received 6.9 inches of rainfall from December 28 through January 2. December streamflows at most stations throughout northern New York, such as West Branch Oswegatchie River near Harrisville (see fig. 4) were much above average. New peak discharges of record occurred at several gaging stations throughout northern New York during the late-December flooding. The peak discharge during the December 1984 flood and the previous maximum known discharge for selected gaging stations are given in the following table:

Station	Period of record	December 1984 peak discharge (ft^3/s)	Previous flood of record: Discharge (ft^3/s)	Previous flood of record: Water year
01342800-W Canada Cr at Nobleboro	1946, 1958-76	20,000	16,800	1946
04252500-Black R near Boonville	1911-current	12,800	12,800	1982
04254000-Middle Branch Moose R near McKeever	1926-68	3,200	2,100	1926
04256000-Independence R at Donnattsburg	1943-current	9,420	5,530	1982
04258700-Deer R at Deer River	1957-current	12,400	11,400	1963
04260500-Black R at Watertown	1869, 1921-current	42,900	39,700	1869
04268800-W Branch St. Regis R nr Parishville	1959-current	5,960	4,260	1963
04270000-Salmon R at Chasm Falls	1926-82	3,700	2,890	1926

Streamflow receded throughout January as seasonal temperatures returned, and precipitation was generally below average throughout eastern New York, except in a few areas in northern New York--for example, Watertown, where it was 2.1 inches above average. Runoff for the month was near average in northern areas, but remained much below average to the south.

Precipitation during February and March was again average to above average in northern New York and generally below average in southern New York. Above-average temperatures during late February and mid-March, combined with moderate precipitation (1 to 1.5 inches during two storms in mid and late February and one storm in mid-March), caused snowmelt and significant runoff throughout most of eastern New York. February and March runoff was average to above average in the north and below average in the south.

Streamflow during April and May was below average to much below average in all of eastern New York. Below-average snowpack and warm weather in February and March throughout eastern New York reduced the snowmelt runoff in April and May. April streamflow at some gaging stations in southern New York was the lowest or near-lowest recorded; these included Wappinger Creek near Wappingers Falls (lowest in 57 years of record, see fig. 5), Beaver Kill at Cooks Falls (second lowest in 73 years of record), Wallkill River at Gardiner (third lowest in 62 years of record), and Schoharie Creek at Prattsville (second lowest in 84 years of record).

Streamflow in eastern New York returned to near average from June through August, except in most northern areas where it was below average during August, and in some locations in extreme southern New York, where it was above average in June (New York City received rainfall 1.5 inches above average). The monthly mean flow for August at the Hudson River at Hadley gage was the lowest since monitoring began in 1922 and was the lowest at the Mohawk River at Cohoes gage since the 1960's drought. At the end of August, the New York City reservoir system was at 48.9 percent of capacity; the long-term average for the end of August is 83.3 percent.

Monthly streamflow for September was above average in most of eastern New York as a result of moderate rainfall during the first week of the month and heavy rain associated with Hurricane Gloria at the end of the month. Monthly rainfall was generally greater than average in all areas during September except in a few areas, such as Albany and Watertown, where it was slightly below average. In contrast, 9.1 inches of rain was recorded at Port Jervis during the month (5.6 inches greater than average), which includes 6.4 inches recorded on September 27 from Hurricane Gloria. Rainfall totals from Hurricane Gloria ranged widely throughout eastern New York: 1.5 inches were recorded in areas surrounding Albany and 6.8 inches at Slide Mountain in the Catskill Mountains.

Most of the water-quality data compiled from the Hydrologic Benchmark station and the eight NASQAN stations in eastern New York were within the historical extremes of each station's period of record. Although some values exceeded historical extremes, none of the new extremes represented a trend in the data.

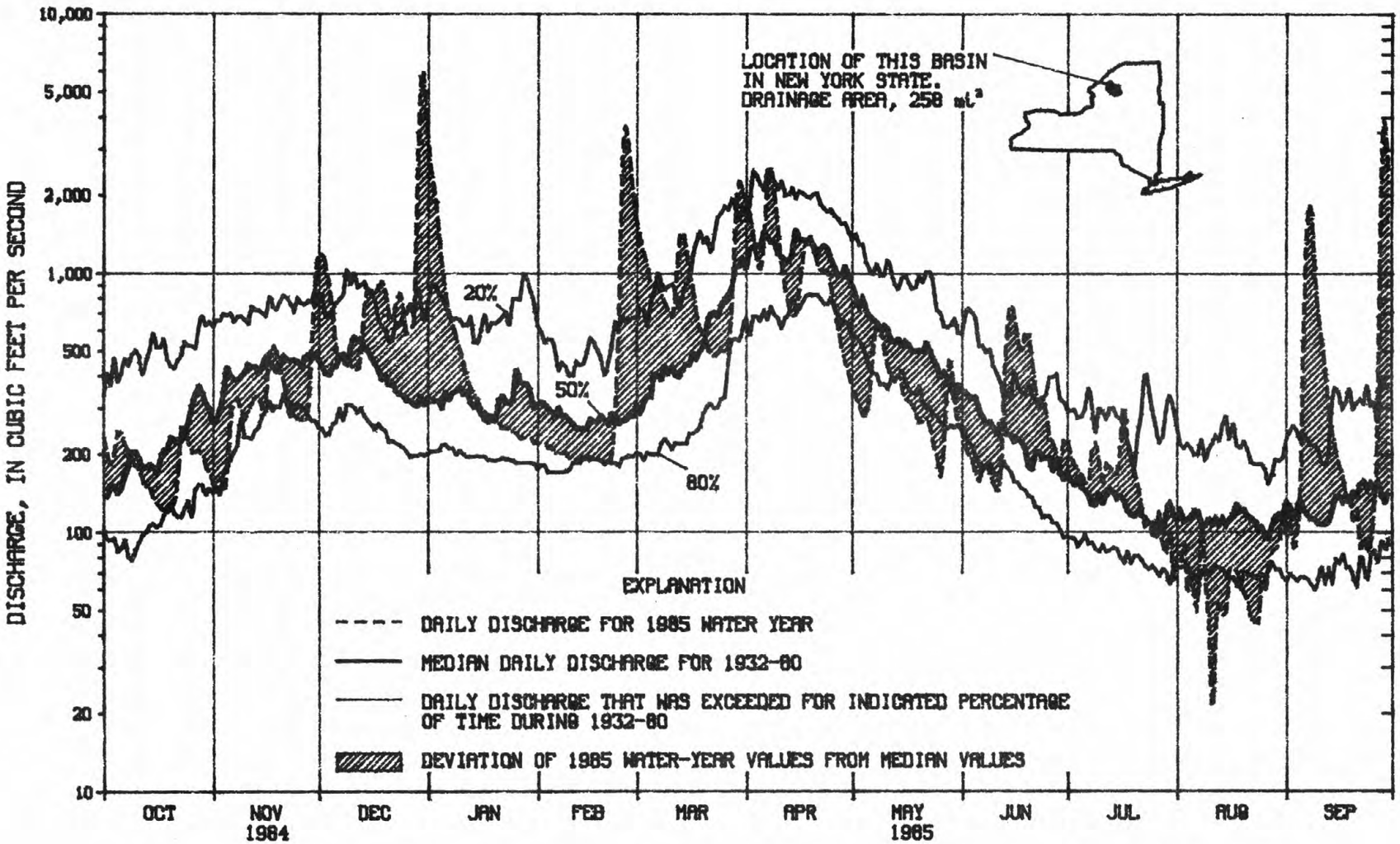


Figure 4.—Hydrographic comparisons, West Branch Oswegatchie River near Harrisville, N.Y.

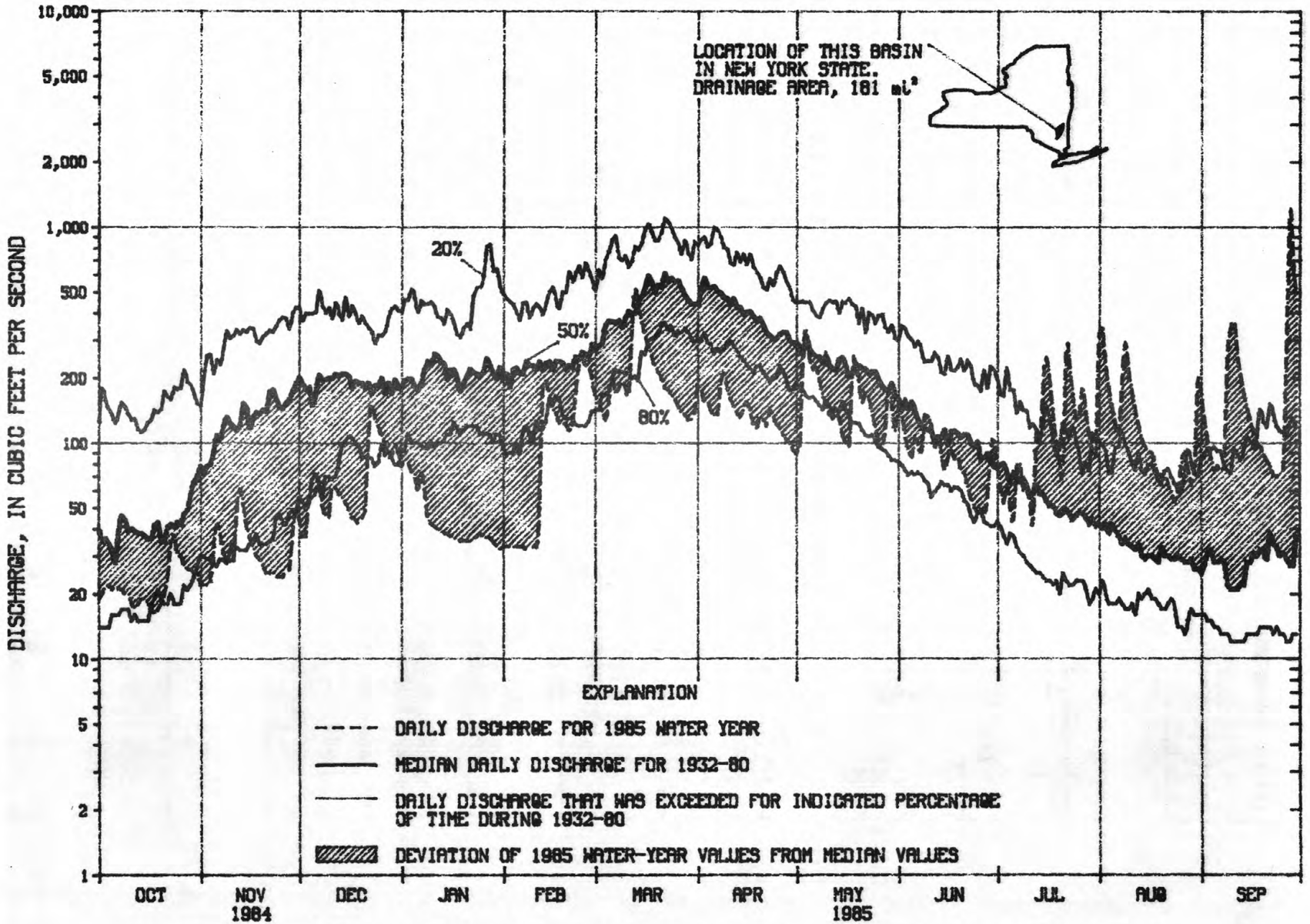


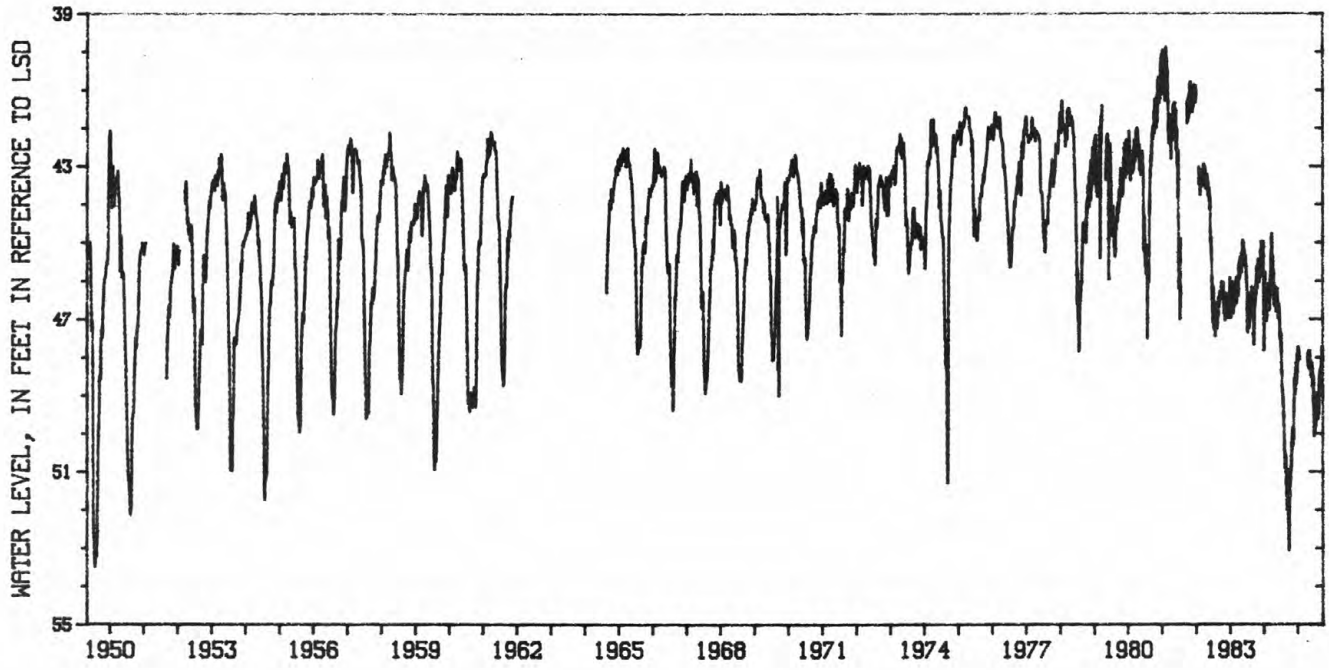
Figure 5.—Hydrographic comparisons, Wappinger Creek near Wappingers Falls, N.Y.

Ground-water levels were generally below average at the beginning of the water year in eastern New York as a result of below-average precipitation during the preceding year. Heavy rainfall and unseasonably warm temperatures from late December through early January resulted in average or above-average water levels, but, by the end of February, water levels were again below average. Extreme lows were common in southeastern New York, where ground-water levels were 3 to 12 feet below average.

Ground-water levels rose during March--the last stage of the normal recharge period--but remained well below monthly averages. One well in a bedrock aquifer in Rockland County (Ro-18) set a new record low for March--nearly 11 feet below average. Low rainfall and very little snowpack during the winter reduced recharge in southeastern New York at the beginning of the seasonal decline. In April, ground-water levels in New York were at their greatest below-average levels. As in March, a new April low was established for well Ro-18--nearly 10 feet below average. Ground-water levels were below average for May throughout upstate New York, except in the extreme northern part. Although a significant areawide rainfall occurred late in the month, soil-moisture and vegetation demands prevented significant recharge to the aquifers. Five new monthly-low water levels and three near-record low levels were established.

Ground-water levels in June, July, and August continued their seasonal decline and were below average in all but a few isolated areas. The southeastern and east-central areas continued to have extremly low water levels, and several record lows and near-record lows were reached. The greatest declines were in southeastern, eastern, and central New York. Intermittent showers in August resulted in minor recharge to all aquifers with wells monitored in these areas. Ground-water levels continued to decline at the end of the water year, especially in the eastern and southeastern parts of the State. The heavy rains from Hurricane Gloria at the end of September increased recharge and reversed the downward trend into the beginning of the 1986 water year.

The period-of-record hydrograph for a bedrock aquifer in Saratoga County (well Sa-529) is shown below. This plot shows that the lowest water level recorded for the 1985 water year occurred in October and was the lowest since the period-of-record low in 1949. The general decline since 1982 apparently is related to decreased recharge, because no information is available as to increased water pumpage that caused the declines.



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.

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 THE RECORDS

The surface-water and ground-water records published in this report are for the 1985 water year that began October 1, 1984, and ended September 30, 1985. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface water, and ground-water level data. The locations of the stations and wells where the data were collected are shown in figures 4A and B. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells.

Downstream Order System

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 mainstream station are listed before that station. A station on a tributary that enters between two mainstream 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 with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the triburary on which each station is situated.

The station identification number is assigned according to downstream order. 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". The Part number designates the major river basin. In a few instances where no gaps were left in the 8-digit numbering sequence, one or two digits were added (making a 9- or 10-digit station number) and (or) a latitude-longitude number was used for identification.

Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. 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. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 6 below.)

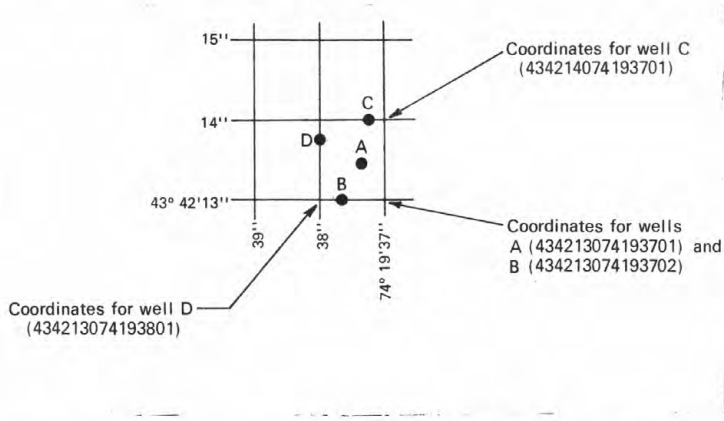


Figure 6. System for numbering wells (latitude and longitude)

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Locations of all gaging stations and observation wells in this report are shown in figures 7A and 7B.

Data Collection and Computation

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

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. 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 hydrographers 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. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

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.

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. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

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 from the recorded range in stage, prior and subsequent record, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated from operator's log, prior and subsequent records, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for some stations, were determined and used by the U.S. Army Corps of Engineers or other agencies.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted 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 most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development. The median of yearly mean discharges also is given under this heading for stations having 10 or more water years of record, if the median differs from the average given by more than 10 percent.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

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."), or in acre-feet (line headed "AC-FT"). 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. At some stations monthly and(or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

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. These are called measurements at miscellaneous sites. 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.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

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 interpretation of records.

The degree of accuracy of the records is indicated under "REMARKS." "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. Different accuracies may be attributed to different parts of a given record.

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

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 Records Available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge-measurement notes, 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 of the published records may be obtained from the district office.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

Classification of Records

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

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Arrangement of Records

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

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District office.

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. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

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 Temperature

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. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

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 and 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.

Laboratory Measurements

Samples for indicator bacteria and daily samples for specific conductance are analyzed locally. Sediment samples are analyzed in the Geological Survey laboratory in Harrisburg, Pa. All other samples are analyzed in the Geological Survey laboratories in Arvada, Colo., or Doraville, Ga. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratories are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

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

The surface-water-quality records for miscellaneous sampling sites are published in a separate table following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Categories of Water-Quality Data

There is a broad range of water-quality parameters available for most stations whose record exceeds more than a few years operation. Sampling schedules are often intermittent for certain types of data, with analyses available for some but not all years within a station's period of record. An acurate description of the variety of data available is shown by grouping similar parameters into a few general categories, which are listed in the "PERIOD OF RECORD" paragraph. Each category of data is followed by a notation of the water year(s) for which data is available and a letter code describing the frequency of sampling (see following section, "Frequency-of-Sampling Notation"). Thus, "CHEMICAL DATA: 1972-74(c), 1977-81(a).", shows there are at least six analyses each year for the first three years of record, no data for this category in 1975 and 1976, and 1 or 2 samples for each of the five most recent years.

The "PERIOD OF RECORD" paragraph lists the following categories of data to describe information available.

CHEMICAL DATA: Usually includes most of the "major ions", and may often include some of the following physical properties: specific conductance, pH, temperature, color, turbidity, dissolved oxygen.
MINOR ELEMENT DATA: Comprises the "heavy metals" and some of the "alkaline earth" groups. Determinations often include some but not all of the following: Al, As, Ba, Cd, Cr, Co, Cu, Hg, Li, Ni, Pb, Se, Sn, Sr, Zn.
RADIOCHEMICAL DATA: The determinations of the concentration of individual radioactive elements, such as radium 226, cobalt 60, strontium 90, and tritium. This category also includes the gross measurement of radioactivity (alpha, beta, gamma) without regard to the radiochemical species that produce the radioactivity.
PESTICIDE DATA: The organic compounds (insecticides and herbicides) used to control insects and plants. Routinely, the analyses searches for traces of between 12 to 22 compounds.
ORGANIC DATA: Organic data (other than pesticides) such as, OC, PCB, PCN.
NUTRIENT DATA: Constituents containing nitrogen or phosphorus. Results usually include several of the following: nitrate plus nitrate, phosphorus, ammonia nitrogen, organic nitrogen, ammonia nitrogen plus organic nitrogen (Kjeldahl nitrogen).
BIOLOGICAL DATA: The identification and concentration of microscopic plant organisms (phytoplankton, periphyton), or enteric bacteria (total coliform, fecal coliform, or fecal streptococcal) living in aquatic habitats.
SEDIMENT DATA: Suspended-sediment concentration, suspended-sediment discharge, and particle-size data for discrete samples.

Frequency-of-Sampling Notation

The categories of data given in the "PERIOD OF RECORD" paragraph are followed by the water year(s) for which that kind of data was collected. The amount of data available is specified by the following letter codes:

(a) 1 or 2 samples per year.
(b) 3 to 5 samples per year.
(c) 6 to 9 samples per year.
(d) 10 to 20 samples per year.
(e) more than 20 samples per year.

Records of Ground-Water Levels

Ground-water level data consist of water-level measurements made in observation wells. 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.)

Data Collection and Computation

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; National Geodetic Vertical Datum of 1929 is the datum plane on which the national network of precise levels is based. If known, the elevation of the land-surface datum above National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported as mean daily values, and the extremes are instantaneous values selected from the digital record. Water levels in wells not equipped with recording gages are read periodically or measured periodically with a weighted tape by U.S. Geological Survey personnel and/or an observer.

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.

Data Presentation

Each well record consists of three parts, the station description, the data table of water levels observed during the water year, and the 10-year hydrograph. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below land-surface datum and all taped measurements of water level are listed for wells without recorders. The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the table for wells with recorders. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

A hydrograph of water levels follows the data table for each well. The current year and the previous 9 years of record are plotted in feet below land-surface datum. If the period of record is less than 10 years, the water levels for the entire record are plotted.

ACCESS TO WATSTORE DATA

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

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

General inquiries about WATSTORE may be directed to:

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

DEFINITION OF TERMS

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

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

Algae are mostly aquatic single-celled, colonial, or multicelled 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 ± 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 ± 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 brainheart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on KF medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material See Bottom material.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

High tide is the maximum tidal peak reached each day.

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.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Low tide is the minimum tidal trough reached each day.

Mean high or low tide is the average of all high or low tides, respectively, over a specific period.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

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

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

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

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

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

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

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

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

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

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

Parameter code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

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 distilled water (chemically dispersed).

Particle-size classification used in this report agrees with recommendation 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. The sample is subjected to mechanical and chemical dispersion in distilled water before analysis.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and 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 emersed or submersed solid surface, 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.

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

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

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

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

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

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

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

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

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

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

Total (as used in tables of chemical analyses):

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

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

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

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

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year".

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports. (WRD was used as an abbreviation for "Water Resources Data" in reports published prior to 1976.)

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.

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting 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) pertains to 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 St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. *Water temperature--influential factors, field measurement, and data presentation,* by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents,* by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations,* by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. *Application of borehole geophysics to water-resources investigations,* by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. *General field and office procedures for indirect discharge measurements,* by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 Pages.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams,* by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations,* by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel and dispersion in streams by dye tracing,* by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A10. *Discharge ratings at gaging stations,* by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.

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.

3-A13. *Computation of continuous records of streamflow,* by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.

3-B1. *Aquifer-test design, observation, and data analysis,* by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J. E. Reed: USGS-TWRI Book 3, Chapter B3. 1980. 106 pages.

3-C1. *Fluvial sediment concepts* by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment* by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells* by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments* by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sedments*, by L. C. Friedman and D. E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

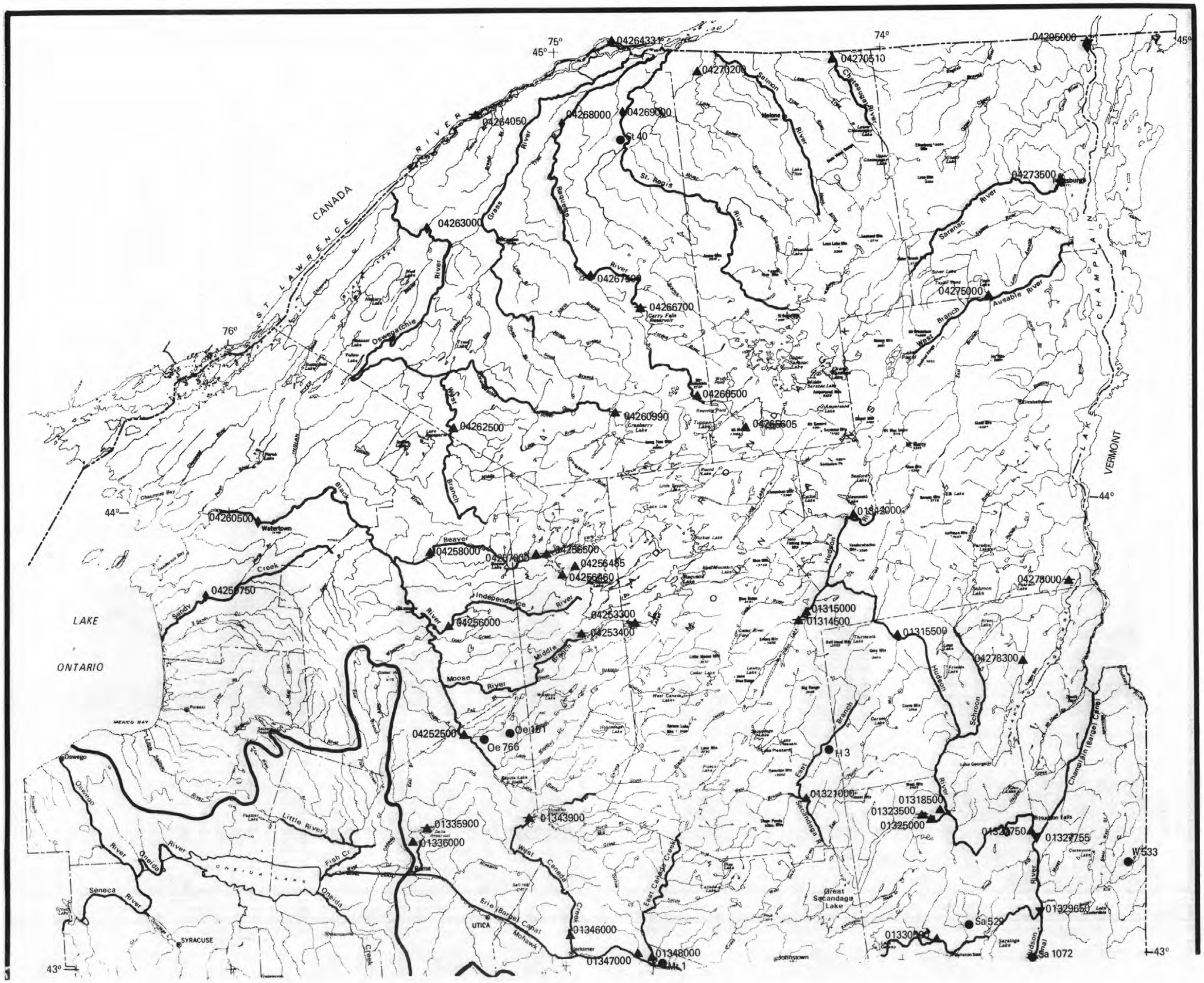
7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffrannek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages

8-A2. *Installation and service manual for U.S. Geological Survey manometers* by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.


CANADA
ST. LAWRENCE RIVER
LAKE ONTARIO
LAKE CHAMPLAIN
VERMONT
75°
74°
76°
45°
44°
43°
04264331
04270200
04270510
04295000
04264050
04268000
04269000
St 40
04273500
04263000
04267500
04266700
04275000
04266500
04260990
04265605
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Watertown
01312000
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04252500
Oe 161
Oe 766
H 3
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W 533
01329650
01346000
01348000
01347000
Mk 1
01330500
Sa 529
Sa 1072
Oswego
SYRACUSE
UTICA
Rome
Herkimer
Johnstown
Hudson Falls
Plattsburgh
Great Sacandaga Lake
Oneida Lake
Grass River
Raquette River
St. Regis River
Salmon River
Chateaugay River
Saranac River
Ausable River
West Branch
Oswegatchie River
West Branch
Black River
Beaver River
Independence River
Moose River
Middle Branch
Sandy Creek
Hudson River
East Branch
Sacandaga R.
Schroon River
Champlain (Barge) Canal
Oneida River
Seneca River
Little River
Fish Cr.
Erie (Barge) Canal
Mohawk
West Canada Creek
East Canada Creek
Carry Falls Reservoir
Cranberry Lake
Tupper Lake

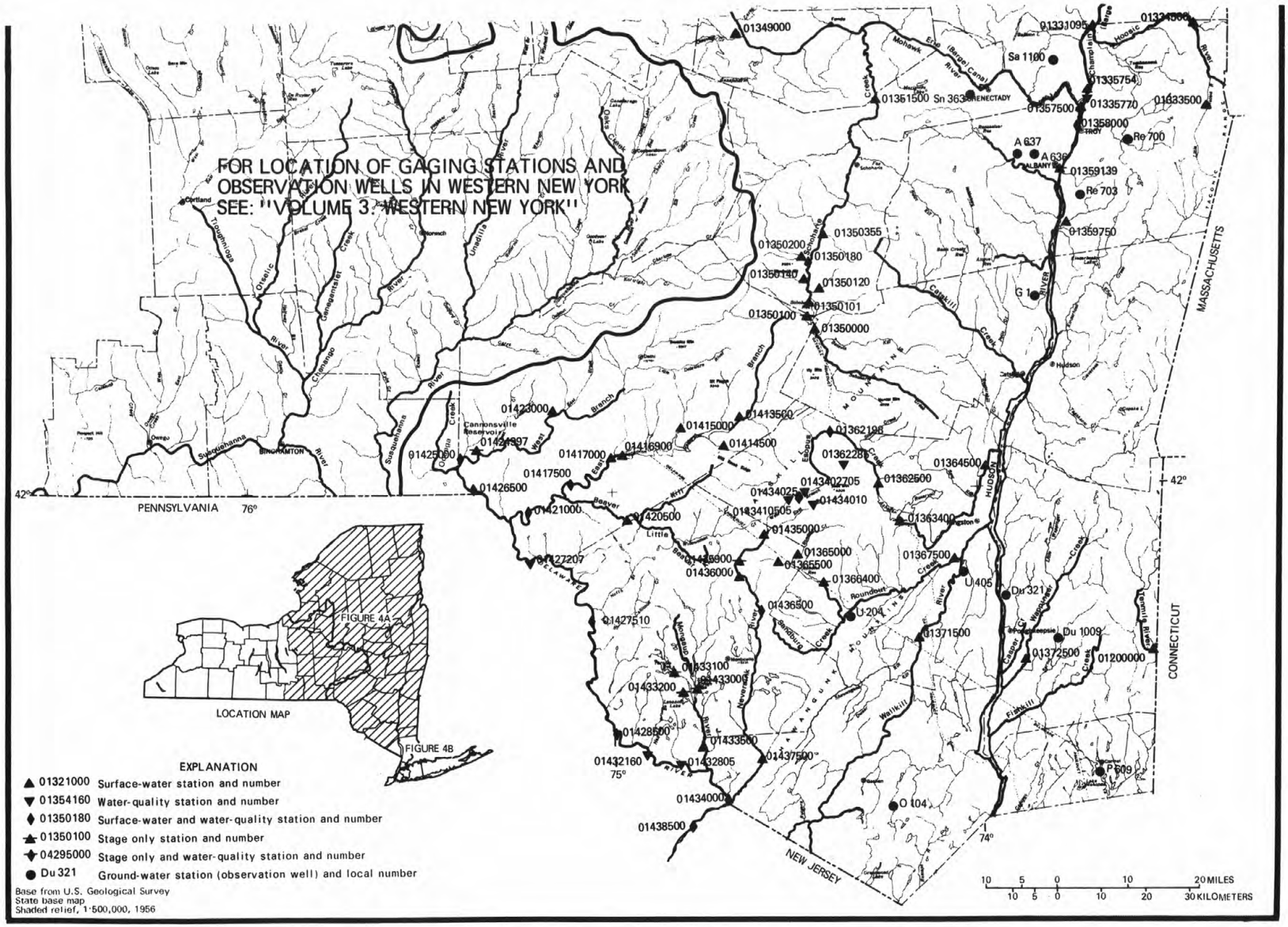


FIGURE 7A-- LOCATION OF GAGING STATIONS AND OBSERVATION WELLS

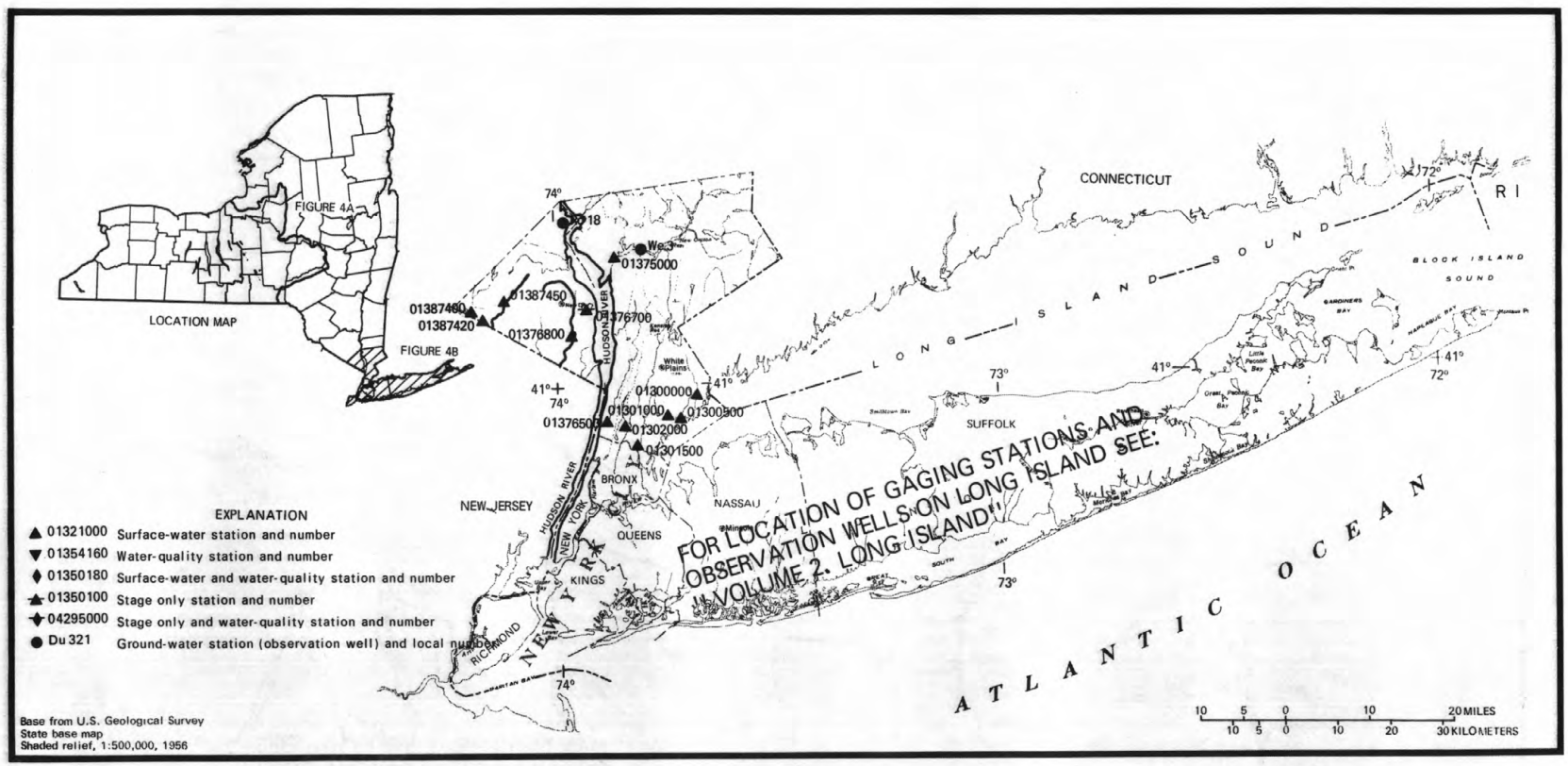


FIGURE 7B-- LOCATION OF GAGING STATIONS AND OBSERVATION WELLS

01200000 TENMILE RIVER NEAR GAYLORDSVILLE, CONN.

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

DRAINAGE AREA.--203 mi^2.

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 above National Geodetic Vertical Datum of 1929, (levels to Connecticut Light and Power Company).

REMARKS.--Estimated daily discharges: Jan. 16 to Feb. 21 and Sept. 14-23. Records good except those for estimated daily discharges, which are fair. Infrequent regulation at low flow. Records of iron, specific conductance, and pH of daily samples for 1958-59 available in district office at Hartford, Connecticut. Chemical analyses available for water years 1959 (WSP 1641), 1968 (WSP 2091), 1973-74 (WRDC 1973-74), 1975 (WDR CT-75-1), 1980 (WDR CT-80-1), and water temperatures available for water year 1959 (WSP 1641). Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--56 years, 303 ft^3/s, 20.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft^3/s Aug. 19, 1955, gage height, 14.9 ft from high-water mark, from rating curve extended above 9,800 ft^3/s; minimum discharge, 5 ft^3/s Sept. 8, 1957; minimum gage height, 0.52 ft Sept. 24, 26, 1939; minimum daily discharge, 7 ft^3/s Oct. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 28	0830	*1,290	*4.15				

Minimum discharge, 27 ft^3/s Oct. 1, gage height, 0.79 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	68	77	105	72	244	234	188	163	93	341	116
2	31	43	65	110	71	231	256	183	184	72	310	85
3	34	49	66	118	70	220	252	225	165	65	212	71
4	35	53	94	111	70	204	238	357	139	64	172	62
5	42	54	98	104	70	208	232	332	124	56	152	56
6	33	75	99	92	69	260	234	307	132	54	134	61
7	30	76	106	98	68	245	237	280	132	145	116	59
8	34	65	93	94	67	234	252	279	119	115	129	60
9	34	58	84	77	65	257	287	268	129	84	210	93
10	32	54	77	104	64	253	294	260	134	74	176	172
11	30	56	83	111	63	238	270	250	116	67	136	224
12	29	125	93	107	80	421	263	238	99	61	124	184
13	31	151	96	92	200	662	257	255	91	131	106	132
14	30	113	92	91	240	507	251	246	85	111	94	100
15	29	92	88	85	250	448	248	225	79	190	93	85
16	33	81	81	85	230	393	248	206	80	297	76	70
17	33	69	77	85	210	367	252	202	104	223	73	60
18	30	62	75	84	210	342	247	195	102	161	69	57
19	30	58	72	83	170	312	248	221	95	130	63	53
20	28	56	74	82	150	298	251	212	87	117	62	50
21	28	50	76	82	160	293	245	195	80	97	62	45
22	35	49	102	81	147	279	240	186	72	235	58	42
23	41	45	141	81	199	267	240	176	64	225	58	55
24	48	45	130	80	293	266	233	162	60	164	52	47
25	44	47	122	80	338	264	231	152	54	122	51	53
26	42	47	110	78	315	258	224	140	56	141	71	49
27	42	46	97	77	295	247	215	133	54	220	90	413
28	42	44	94	76	274	236	208	137	54	164	75	1150
29	44	61	101	75	---	232	201	176	86	128	62	567
30	44	83	117	74	---	219	197	170	110	108	72	383
31	66	---	113	73	---	219	---	149	---	101	96	---
TOTAL	1112	1975	2893	2775	4510	9124	7285	6705	3049	4015	3595	4654
MEAN	35.9	65.8	93.3	89.5	161	294	243	216	102	130	116	155
MAX	66	151	141	118	338	662	294	357	184	297	341	1150
MIN	28	43	65	73	63	204	197	133	54	54	51	42
CFSM	.18	.32	.46	.44	.79	1.45	1.20	1.06	.50	.64	.57	.76
IN.	.20	.36	.53	.51	.83	1.67	1.33	1.23	.56	.74	.66	.85

CAL YR 1984 TOTAL 149443 MEAN 408 MAX 9930 MIN 27 CFSM 2.01 IN. 27.39
WTR YR 1985 TOTAL 51692 MEAN 142 MAX 1150 MIN 28 CFSM .70 IN. 9.47

BLIND BROOK BASIN

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 southwest of Penn Central Transportation Co. railroad station, and 0.85 mi upstream from mean high tide in Milton Harbor.

DRAINAGE AREA.--9.20 mi^2.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 13.05 ft above National Geodetic Vertical Datum of 1929 (levels by City of Rye).

REMARKS.--Estimated daily discharges: Jan. 16, 19-27. Records fair. Medium and high flows affected by detention reservoir 2 mi upstream (capacity, about 26 acre-ft at spillway level or 50 acre-ft at crest of concrete dam). Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--41 years (1945-85), 15.7 ft^3/s, 23.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,320 ft^3/s June 19, 1972, gage height, 12.44 ft, from floodmark in gage house, from rating curve extended above 800 ft^3/s on basis of computation of peak flow through culvert; minimum discharge, 0.12 ft^3/s July 5, 1953, gage height, 0.80 ft, result of temporary regulation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 406 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	1815	*480	*4.62	No other peak greater than base discharge.			

Minimum discharge, 1.1 ft^3/s Aug. 24, gage height, 0.95 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	5.0	5.8	9.7	5.8	8.4	14	3.7	22	3.9	3.0	6.6
2	6.0	4.4	5.1	18	9.2	8.3	7.7	7.4	8.2	3.4	3.0	4.3
3	3.6	4.0	13	16	6.5	7.7	7.4	117	5.6	3.3	2.5	3.6
4	2.3	3.8	17	11	5.3	8.2	7.4	24	4.6	3.1	2.1	3.1
5	1.7	102	7.3	13	5.4	27	7.3	12	16	2.8	1.8	2.7
6	1.5	15	75	10	5.1	14	7.0	10	12	3.5	1.7	2.4
7	1.4	8.4	20	9.8	4.9	9.8	6.5	25	6.2	4.1	1.8	2.1
8	1.4	6.6	11	10	4.5	19	9.4	11	6.0	3.3	8.6	7.9
9	1.4	5.9	9.2	7.7	4.7	14	7.8	8.4	6.7	2.7	5.2	46
10	1.4	5.9	8.4	6.8	4.4	11	6.5	7.4	5.3	2.3	2.8	14
11	1.6	11	8.2	6.8	4.5	9.7	6.0	6.8	4.5	2.1	3.0	12
12	1.5	56	7.5	6.6	56	54	5.9	6.3	3.9	1.8	4.2	6.1
13	1.4	17	7.1	6.5	83	22	5.7	6.0	3.6	3.3	2.4	4.1
14	1.3	15	6.6	6.3	19	14	5.7	5.7	3.4	3.2	1.8	3.3
15	1.5	7.4	7.0	6.2	13	12	6.3	5.0	3.0	2.6	1.5	2.9
16	2.0	5.7	6.9	5.4	11	10	8.1	4.8	39	12	1.4	2.6
17	3.3	5.2	6.5	5.4	9.8	10	6.7	4.8	15	4.9	1.3	2.4
18	4.4	4.9	6.4	5.7	9.3	9.6	5.8	5.4	14	3.1	1.2	2.2
19	4.7	4.8	6.5	5.7	10	8.7	5.6	5.1	9.1	2.3	1.2	2.0
20	5.7	4.5	7.7	5.4	13	8.8	5.9	4.2	5.9	1.8	1.2	1.8
21	6.0	9.6	8.1	5.2	11	8.7	5.8	17	4.8	1.6	1.2	1.8
22	12	5.9	40	5.1	10	7.9	5.7	23	4.2	9.7	1.2	1.7
23	80	4.9	13	4.9	15	9.0	5.6	7.1	4.0	4.8	1.2	1.7
24	8.9	4.9	9.4	4.8	17	9.6	5.2	5.4	9.1	2.8	1.2	2.0
25	5.7	4.7	9.1	4.7	15	8.1	5.0	4.8	10	2.0	3.7	2.4
26	6.4	4.5	7.6	4.6	12	7.2	4.9	4.2	4.9	31	14	2.5
27	6.4	4.4	7.5	4.6	10	7.1	4.7	4.7	4.3	49	8.3	182
28	4.7	4.4	9.6	4.6	9.1	7.1	4.5	16	5.0	7.2	3.5	38
29	44	16	17	4.5	---	6.1	4.4	29	5.7	4.3	2.3	10
30	9.5	8.2	13	4.3	---	5.6	4.0	8.2	4.8	3.4	59	7.1
31	5.9	---	9.3	4.2	---	5.5	---	5.9	---	3.0	42	---
TOTAL	240.4	360.0	385.8	223.5	383.5	368.1	192.5	405.3	250.8	188.3	189.3	381.3
MEAN	7.75	12.0	12.4	7.21	13.7	11.9	6.42	13.1	8.36	6.07	6.11	12.7
MAX	80	102	75	18	83	54	14	117	39	49	59	182
MIN	1.3	3.8	5.1	4.2	4.4	5.5	4.0	3.7	3.0	1.6	1.2	1.7
CFSM	.84	1.30	1.35	.78	1.49	1.29	.70	1.42	.91	.66	.66	1.38
IN.	0.97	1.46	1.56	0.90	1.55	1.49	0.78	1.64	1.01	0.76	0.77	1.54

CAL YR 1984 TOTAL 8442.8 MEAN 23.1 MAX 579 MIN 1.2 CFSM 2.51 IN. 34.14
WTR YR 1985 TOTAL 3568.8 MEAN 9.78 MAX 182 MIN 1.2 CFSM 1.06 IN. 14.43

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 downstream from Brentwood Brook, and 0.2 mi upstream from tidal barrier in Guion Creek, Mamaroneck Harbor.

DRAINAGE AREA.--4.71 mi².

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 above National Geodetic Vertical Datum of 1929. Prior to June 8, 1946, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Nov. 1-4, Nov. 13 to Dec. 5, Dec. 8-11, Jan. 15-26, and Feb. 4, 8-10. Records good except those for periods of doubtful gage-height record, Nov. 1-4, Nov. 13 to Dec. 5, and Dec. 8-11, and periods with ice effect, Jan. 15-26 and Feb. 4, 8-10, which are poor. Flow affected by natural storage in swampy areas upstream from station. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--41 years (1945-85), 6.51 ft³/s, 18.77 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 288 ft³/s Jan. 21, 1979, gage height, 4.28 ft; minimum, no flow at times during 1944, 1953, 1959, 1964, 1965, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 86 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Sept. 27	1300	*100	*1.94	No other peak greater than base discharge.			

Minimum discharge, 0.32 ft³/s Oct. 5, July 21, and Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.4	2.5	4.7	3.9	3.3	8.6	1.0	9.8	1.4	1.9	5.9
2	2.1	1.2	2.4	6.4	5.0	4.1	4.0	3.5	4.0	1.2	1.3	2.9
3	.99	1.3	5.0	5.4	3.9	3.2	3.3	32	2.6	1.0	.96	2.1
4	.69	1.5	5.0	4.7	3.0	3.9	3.0	14	2.1	.92	.76	1.5
5	.44	33	3.2	5.9	2.6	9.4	2.6	5.9	12	.79	.66	3.5
6	.45	12	18	4.4	2.4	5.8	2.6	4.7	7.2	1.1	.89	1.9
7	.62	4.3	8.5	4.2	2.3	4.4	2.2	13	3.6	1.6	1.6	.90
8	.64	2.9	5.0	3.9	2.2	7.0	2.9	5.8	3.9	.91	9.3	13
9	.92	2.3	4.0	4.0	2.1	5.7	2.3	3.7	3.2	.70	2.5	24
10	.91	2.3	3.4	3.1	2.0	4.5	2.4	3.3	2.6	.63	1.3	16
11	.82	3.0	3.1	2.9	1.9	4.2	2.1	2.5	2.0	.51	4.5	7.8
12	.92	11	2.9	2.8	20	14	1.9	2.1	1.7	.46	2.6	4.2
13	.75	4.5	2.7	2.7	31	9.4	1.7	2.1	1.6	1.2	1.0	3.2
14	.69	3.5	2.4	2.7	10	6.3	1.9	2.3	1.3	.59	.84	2.6
15	.90	3.0	2.6	2.6	6.5	5.2	2.2	1.7	1.0	.88	.70	2.1
16	.96	2.5	2.3	2.5	5.2	4.9	2.7	1.5	22	9.0	.55	1.7
17	1.1	2.3	2.3	2.4	4.7	4.6	2.1	1.6	8.6	1.7	.43	1.4
18	1.0	2.1	2.3	2.3	4.6	4.1	1.9	2.0	6.5	1.0	.38	1.4
19	.73	2.0	2.6	2.2	5.2	3.7	2.0	1.6	3.8	.77	.39	1.2
20	.66	1.9	3.0	2.1	5.3	3.9	1.6	1.3	3.2	.48	.45	1.1
21	.45	1.8	4.0	2.1	4.7	3.5	1.7	12	2.5	.37	.46	1.0
22	2.8	1.8	12	2.0	4.8	3.0	2.1	18	1.6	4.5	.45	.85
23	5.4	1.7	5.9	2.0	6.1	3.7	2.2	5.4	1.8	1.3	.46	.80
24	2.8	1.7	4.2	1.9	6.2	3.4	1.8	3.2	3.9	.58	.42	1.2
25	1.5	1.7	3.8	1.8	5.5	2.8	1.7	2.5	3.6	.41	3.2	1.1
26	2.5	1.7	3.1	1.8	4.6	2.6	1.6	2.0	2.1	13	4.7	1.7
27	1.3	1.8	3.1	1.7	4.4	2.6	1.4	2.8	2.0	42	1.4	40
28	1.1	2.3	4.5	1.9	3.6	2.5	1.2	12	2.6	9.5	.74	34
29	11	6.0	6.1	2.0	---	2.5	1.3	14	2.2	3.4	.59	8.7
30	3.6	3.5	5.7	1.7	---	3.1	1.1	4.7	1.7	2.3	17	4.6
31	1.8	---	4.4	1.8	---	2.8	---	3.1	---	1.6	28	---
TOTAL	52.34	122.0	140.0	92.6	163.7	144.1	70.1	185.3	126.7	105.80	90.43	192.35
MEAN	1.69	4.07	4.52	2.99	5.85	4.65	2.34	5.98	4.22	3.41	2.92	6.41
MAX	11	33	18	6.4	31	14	8.6	32	22	42	28	40
MIN	.44	1.2	2.3	1.7	1.9	2.5	1.1	1.0	1.0	.37	.38	.80
CFSM	.36	.86	.96	.63	1.24	.99	.50	1.27	.90	.72	.62	1.36
IN.	0.41	0.96	1.11	0.73	1.29	1.14	0.55	1.46	1.00	0.84	0.71	1.52

CAL YR 1984 TOTAL 3368.94 MEAN 9.20 MAX 138 MIN .21 CFSM 1.95 IN. 26.61
WTR YR 1985 TOTAL 1485.42 MEAN 4.07 MAX 42 MIN .37 CFSM .86 IN. 11.73

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 downstream from bridge on Halstead Avenue, 700 ft downstream from Sheldrake River, and 0.3 mi upstream from mean high tide in Mamaroneck Harbor.

DRAINAGE AREA.--23.4 mi^2.

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

REVISED RECORDS.--WSP 1502: 1944(M), 1951(M). WDR NY-76-1; 1972(M), 1973(M), 1974(M), 1975(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 11.46 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 10, 1954, water-stage recorder at same site at datum 0.41 ft higher.

REMARKS.--Estimated daily discharges: Jan. 8-9, 11-16, 19, 21-26, 29-30, and Feb. 1, 5-9. Records good except those for estimated daily discharges, which are fair. Storage in former water-supply reservoir on Mamaroneck River, effect unknown. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--39 years (1945-52, 1955-85), 35.6 ft^3/s.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Backwater from hurricane wave reached a stage of about 11.5 ft present datum, Sept. 21, 1938, from information by officials of village of Mamaroneck.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 961 ft^3/s Sept. 27, gage height, 3.91 ft; minimum, 1.7 ft^3/s Aug. 24, 25, gage height, 0.26 ft; minimum daily, 1.9 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	8.7	16	36	15	21	42	8.0	59	8.8	11	42
2	23	7.6	15	52	23	20	21	17	21	7.9	7.6	34
3	7.0	8.3	32	39	16	19	21	189	15	7.6	6.1	21
4	4.5	10	32	27	13	20	21	57	13	7.0	5.7	8.8
5	3.6	192	20	36	13	54	20	34	51	6.3	5.2	9.7
6	3.1	62	123	26	13	30	20	32	40	6.7	4.9	9.5
7	2.8	30	67	25	13	28	19	81	33	13	5.3	5.8
8	3.0	17	53	23	14	41	26	44	20	12	33	33
9	3.3	31	25	21	16	32	16	38	17	12	10	113
10	3.3	41	22	18	19	28	14	33	14	10	6.2	35
11	3.2	31	21	17	35	27	13	19	13	5.5	16	26
12	3.0	88	20	17	138	83	13	17	15	4.2	17	13
13	3.0	30	19	18	126	46	15	17	10	13	6.0	11
14	2.9	22	17	17	44	36	15	15	8.4	6.7	4.4	15
15	2.2	19	19	16	37	31	16	12	7.9	5.8	4.0	15
16	2.4	17	16	16	32	28	19	12	105	39	3.5	11
17	2.5	15	16	15	30	28	15	12	61	9.5	2.8	7.0
18	2.5	13	15	15	29	26	12	14	53	6.1	2.6	5.5
19	2.5	13	16	14	32	24	12	12	22	4.6	2.7	4.9
20	2.5	12	20	14	29	25	13	8.8	16	3.7	2.7	4.7
21	2.4	12	21	14	25	24	12	48	14	3.3	2.7	4.9
22	14	11	84	13	28	22	12	77	11	36	2.6	4.2
23	137	11	36	13	39	25	15	35	11	11	2.3	12
24	30	11	24	13	39	25	16	30	28	5.4	1.9	8.9
25	13	11	23	12	36	22	15	14	29	3.8	15	6.6
26	16	12	20	12	31	17	11	11	12	75	52	19
27	11	11	20	12	28	16	9.6	13	10	181	18	364
28	7.8	15	27	13	22	16	9.1	58	15	24	13	106
29	97	41	41	13	---	16	9.1	78	16	33	19	44
30	26	20	34	12	---	15	8.9	33	11	31	117	21
31	12	---	34	11	---	16	---	26	---	9.3	108	---
TOTAL	456.1	822.6	948	600	935	861	480.7	1094.8	751.3	602.2	508.2	1015.5
MEAN	14.7	27.4	30.6	19.4	33.4	27.8	16.0	35.3	25.0	19.4	16.4	33.9
MAX	137	192	123	52	138	83	42	189	105	181	117	364
MIN	2.2	7.6	15	11	13	15	8.9	8.0	7.9	3.3	1.9	4.2

CAL YR 1984 TOTAL 20412.6 MEAN 55.8 MAX 1210 MIN 2.2
WTR YR 1985 TOTAL 9075.4 MEAN 24.9 MAX 364 MIN 1.9

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 Co. bridge, 100 ft downstream from Pelham Lake, and 1.5 mi west of New Rochelle.

DRAINAGE AREA.--5.76 mi^2.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 12.92 ft above National Geodetic Vertical Datum of 1929 (levels by county of Westchester).

REMARKS.--No estimated daily discharges. Records good. Flow controlled by Pelham Lake and three reservoirs above station. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--41 years, 7.10 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 526 ft^3/s Aug. 28, 1971, gage height, 5.18 ft, from rating curve extended above 200 ft^3/s, maximum gage height, 5.38 ft Jan. 21, 1979; minimum, 0.01 ft^3/s July 27, 1957; minimum gage height, 1.86 ft Aug. 2, 5, 1955; minimum daily discharge, 0.02 ft^3/s Aug. 2-6, 1955, July 26, 27, 1957, Oct. 26-30, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 198 ft^3/s Sept. 27, gage height, 4.26 ft; minimum discharge, 0.19 ft^3/s Oct. 16, gage height, 2.02 ft; minimum gage height, 2.00 ft Sept. 22; minimum daily discharge, 0.25 ft^3/s Oct. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.0	4.5	4.8	3.9	3.3	9.0	.79	14	2.6	2.0	7.3
2	2.3	2.5	3.3	6.5	4.8	3.3	5.1	2.9	7.3	2.2	1.6	4.0
3	1.4	1.6	5.9	5.5	4.3	3.1	4.0	46	4.6	2.0	1.1	2.8
4	1.3	1.2	5.5	4.8	3.3	4.0	3.2	20	3.7	1.4	.82	1.9
5	1.2	42	4.0	6.4	2.8	7.8	2.9	8.1	13	1.2	.72	1.0
6	.97	16	25	6.0	3.0	5.6	2.7	5.4	8.7	2.1	.63	.75
7	.93	6.2	12	4.8	3.0	4.0	2.6	12	4.7	3.3	.81	.72
8	.85	3.8	6.3	3.9	2.5	5.3	3.6	7.2	4.8	3.2	8.6	5.7
9	.77	2.9	4.4	3.6	2.3	4.6	3.2	4.4	3.5	2.4	3.0	26
10	.65	2.6	3.7	3.2	2.2	4.1	2.7	3.4	3.1	1.5	2.3	17
11	.60	9.2	3.2	2.6	2.1	3.4	2.5	2.8	2.5	1.1	1.4	7.6
12	.59	23	3.0	2.3	25	11	2.3	2.7	2.0	.92	1.0	5.1
13	.48	8.4	2.8	2.3	34	8.7	2.0	2.6	1.9	1.8	.78	2.8
14	.39	4.9	2.3	2.2	11	5.2	1.8	2.2	1.7	.94	.90	1.4
15	.49	3.5	2.9	2.5	6.2	4.1	2.4	2.1	1.7	1.3	.86	.91
16	.25	2.8	2.9	2.3	4.7	4.2	2.8	1.9	31	13	.50	.65
17	.33	2.4	2.7	2.6	4.0	3.5	2.6	1.7	16	5.2	.61	.60
18	.44	2.6	2.7	2.9	3.9	3.0	2.6	2.3	10	3.2	.71	.54
19	.47	2.4	3.4	2.9	4.2	3.1	2.6	1.7	5.6	1.8	.75	.49
20	.58	1.6	3.6	2.6	4.2	3.4	2.2	1.9	4.2	1.0	.71	.50
21	.87	1.2	5.0	2.4	4.0	3.1	2.0	23	3.9	.77	.67	.46
22	2.6	1.4	13	2.2	4.1	3.1	2.3	31	3.3	6.5	.72	.48
23	12	1.7	6.6	2.2	4.8	3.4	2.3	9.6	2.9	5.0	.63	.56
24	9.2	1.8	4.5	2.0	5.1	3.3	2.6	5.2	4.7	2.4	.56	3.6
25	4.5	1.7	4.0	2.2	4.8	3.3	2.5	3.7	3.5	1.5	3.6	1.1
26	4.5	1.3	3.4	2.0	4.2	3.1	2.3	3.1	3.0	16	11	1.4
27	3.0	1.1	3.7	1.8	4.0	2.9	1.5	4.1	2.9	68	6.0	71
28	3.5	.92	5.5	1.8	3.4	2.8	1.4	16	3.1	15	3.4	40
29	22	10	7.1	1.6	---	2.5	1.4	19	3.1	6.0	1.8	9.5
30	8.0	8.0	5.5	1.6	---	2.3	1.0	8.6	2.8	3.9	18	5.1
31	4.2	---	4.5	1.6	---	3.0	---	5.1	---	2.5	19	---
TOTAL	92.26	171.72	166.9	96.1	165.8	127.5	82.1	260.49	177.2	179.73	95.18	220.96
MEAN	2.98	5.72	5.38	3.10	5.92	4.11	2.74	8.40	5.91	5.80	3.07	7.37
MAX	22	42	25	6.5	34	11	9.0	46	31	68	19	71
MIN	.25	.92	2.3	1.6	2.1	2.3	1.0	.79	1.7	.77	.50	.46

CAL YR 1984 TOTAL 3545.80 MEAN 9.69 MAX 193 MIN .25
WTR YR 1985 TOTAL 1835.94 MEAN 5.03 MAX 71 MIN .25

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 Co. bridge, and 800 ft downstream from Grassy Sprain Brook.

DRAINAGE AREA.--26.5 mi^2, not including 18.1 mi^2, from which the entire flow is diverted for municipal water supply and drainage purposes.

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

REVISED RECORDS.--WSP 1382: Drainage area. WRD NY-71-1: 1961-67(P), 1968(M), 1970(M). WRD NY-72-1: 1969(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 73.74 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharge: Jan. 16. Records good. Diversions from 18.1 mi^2 for municipal water supply and flood control use. Included in these diversions is drainage from 12.8 mi^2 from Kensico Reservoir for City of New York, 4.58 mi^2 from Grassy Sprain Reservoir for Yonkers, 0.67 mi^2 from White Plains Reservoirs 1 and 2 for White Plains, and 0.1 mi^2 for flood control from outflow from Grassy Sprain Reservoir. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--41 years (1945-85), 42.2 ft^3/s, 21.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,500 ft^3/s June 19, 1972, gage height, 9.63 ft from rating curve extended above 1,200 ft^3/s on basis of flow through culvert computation of peak flow; minimum discharge, 1.0 ft^3/s Sept. 10, 1944, gage height, 0.14 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 22	2315	909	5.02	July 27	0030	875	4.89
Nov. 5	0915	708	4.22	Aug. 30	2000	888	4.94
Feb. 12	1915	744	4.37	Sept. 27	1445	*1,170	*5.99

Minimum discharge, 7.9 ft^3/s Oct. 14; minimum gage height, 0.43 ft Aug. 23, 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	18	20	29	29	24	56	13	93	16	20	26
2	30	16	18	54	29	24	26	35	27	15	16	19
3	13	16	62	37	21	23	22	264	21	16	12	18
4	10	14	51	28	18	26	22	59	19	14	11	16
5	9.6	264	25	40	17	57	20	31	71	13	11	15
6	9.3	49	162	28	18	32	23	28	33	18	11	19
7	9.1	27	50	26	18	26	21	82	21	20	11	13
8	9.1	24	33	26	17	43	32	27	28	13	54	68
9	9.4	23	30	22	16	31	21	24	22	12	16	141
10	9.1	23	29	21	16	26	19	22	19	12	11	43
11	9.0	96	28	22	17	26	19	21	17	11	11	31
12	8.9	131	26	21	227	92	18	20	16	11	11	19
13	9.5	43	25	21	153	41	18	23	16	36	9.3	16
14	8.6	44	23	21	49	30	19	19	14	14	9.9	14
15	8.5	38	27	22	40	27	20	18	14	13	11	13
16	8.3	38	23	20	35	26	22	18	162	73	9.4	13
17	8.3	28	22	21	31	26	18	17	54	18	9.3	12
18	8.4	22	22	22	30	26	18	39	58	13	9.0	12
19	9.7	21	25	21	32	24	18	22	27	12	9.4	12
20	10	20	26	19	34	25	20	17	26	11	9.7	12
21	9.7	19	31	17	31	25	18	92	21	10	9.4	11
22	113	20	89	18	28	24	19	81	17	73	9.2	11
23	203	20	32	19	33	29	21	24	18	21	8.9	11
24	34	20	26	19	33	27	19	19	39	12	8.7	23
25	20	19	27	19	30	24	16	18	30	11	32	14
26	31	19	23	19	27	23	16	17	17	177	184	13
27	18	18	25	18	26	22	15	25	17	179	49	459
28	25	17	36	18	25	22	14	101	23	26	17	114
29	161	89	43	17	---	22	14	87	33	18	13	35
30	28	27	31	17	---	21	14	25	18	15	211	26
31	20	---	26	17	---	23	---	21	---	14	106	---
TOTAL	884.5	1223	1116	719	1080	917	618	1309	991	917	920.2	1249
MEAN	28.5	40.8	36.0	23.2	38.6	29.6	20.6	42.2	33.0	29.6	29.7	41.6
MAX	203	264	162	54	227	92	56	264	162	179	211	459
MIN	8.3	14	18	17	16	21	14	13	14	10	8.7	11
CFSM	1.08	1.54	1.36	.88	1.46	1.12	.78	1.59	1.25	1.12	1.12	1.57
IN.	1.24	1.72	1.57	1.01	1.52	1.29	0.87	1.84	1.39	1.29	1.29	1.75

CAL YR 1984 TOTAL 26994.9 MEAN 73.8 MAX 1300 MIN 8.3 CFSM 2.78 IN. 37.89
WTR YR 1985 TOTAL 11943.7 MEAN 32.7 MAX 459 MIN 8.3 CFSM 1.23 IN. 16.77

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 downstream from bridge on State Highway 28N, 0.5 mi downstream from outlet of Harris Lake, 2 mi east of Newcomb, and 4 mi upstream from Wolf Creek.

DRAINAGE AREA.--192 mi^2.

PERIOD OF RECORD.--September 1925 to October 1982, January 1983 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 above National Geodetic Vertical Datum of 1929. Prior to Aug. 6, 1931, nonrecording gage at site 125 ft downstream at same datum. Aug. 6, 1931 to Nov. 4, 1960, water-stage recorder on left bank at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 22-28, Jan. 15-18, and Mar. 5-7. Records good except those for estimated daily discharges and those under 250 ft^3/s, which are fair. Flow slightly regulated by small reservoirs above station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--59 years (1926-82, 1984-85), 397 ft^3/s, 28.08 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,440 ft^3/s Jan. 1, 1949, gage height, 11.40 ft; minimum, 11 ft^3/s Sept. 3, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 30	1315	*5,780	*9.58	Sept. 7	1830	2,890	6.31
Apr. 23	1545	2,610	5.94				

Minimum discharge, 23 ft^3/s Aug. 24, 25; gage height, 0.89 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	118	614	2640	137	693	1190	668	232	399	71	185
2	118	112	537	1840	138	536	941	639	289	290	68	165
3	130	108	443	1390	137	422	734	527	316	226	65	140
4	198	105	381	995	134	330	587	428	263	191	60	138
5	314	155	326	772	133	320	492	368	204	161	58	159
6	292	352	284	574	141	300	607	471	193	137	55	1120
7	246	406	259	466	141	280	1360	807	181	126	52	2680
8	211	320	250	395	138	255	1480	1090	159	135	52	2420
9	185	253	237	324	135	231	1200	915	141	140	49	1540
10	166	224	217	281	136	212	920	713	128	129	46	1070
11	153	228	202	255	136	199	757	622	111	125	46	907
12	139	262	191	230	136	236	650	629	142	113	48	704
13	129	312	190	216	149	416	592	895	304	102	45	517
14	121	315	219	203	159	553	557	1040	469	94	41	388
15	113	262	274	190	156	490	574	780	558	99	40	301
16	107	237	302	180	144	411	971	591	502	235	39	240
17	103	228	302	180	134	332	1770	526	413	390	37	200
18	98	210	381	170	129	281	1810	1150	364	308	34	169
19	95	199	442	170	122	246	1470	1670	391	218	31	145
20	99	179	426	163	117	227	1480	1180	367	165	31	128
21	103	170	340	161	111	212	1660	782	312	134	29	115
22	114	157	320	158	106	192	2090	575	247	116	29	103
23	138	145	290	155	118	183	2540	434	213	104	25	94
24	171	140	260	151	185	182	2380	343	200	90	24	93
25	161	136	220	147	649	180	1970	277	174	79	28	113
26	150	131	200	145	1390	174	1610	231	152	73	37	130
27	143	127	190	141	1330	180	1410	226	139	74	58	174
28	137	126	200	140	940	241	1140	333	141	72	66	982
29	134	172	1120	138	---	715	872	400	264	67	63	1390
30	136	492	5270	135	---	1400	703	323	496	66	65	1050
31	128	---	4200	134	---	1410	---	251	---	66	132	---
TOTAL	4642	6381	19087	13239	7581	12039	36517	19884	8065	4724	1524	17560
MEAN	150	213	616	427	271	388	1217	641	269	152	49.2	585
MAX	314	492	5270	2640	1390	1410	2540	1670	558	399	132	2680
MIN	95	105	190	134	106	174	492	226	111	66	24	93
CFSM	.78	1.11	3.21	2.22	1.41	2.02	6.34	3.34	1.40	.79	.26	3.05
IN.	0.90	1.24	3.70	2.57	1.47	2.33	7.08	3.85	1.56	0.92	0.30	3.40

CAL YR 1984 TOTAL 151465 MEAN 414 MAX 5270 MIN 64 CFSM 2.16 IN. 29.35
WTR YR 1985 TOTAL 151243 MEAN 414 MAX 5270 MIN 24 CFSM 2.16 IN. 29.30

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 south of village of Indian Lake.

DRAINAGE AREA.--131 mi^2.

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by masonry dam, completed in 1898. Usable capacity, about 4,500 bil ft^3 at elevation, 1,651.29 ft (crest of spillway). Sills of double sluice gates at lowest outlet at elevation 1,615.50 ft. 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 provided by Indian River Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 1,656.71 ft Mar. 28, 1913, contents, 5.781 bil ft^3; minimum observed, 1,616.81 ft, estimated, Feb. 13, 1948, contents, 0.20 bil ft^3.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 1,649.16 ft June 22, contents, 4.271 bil ft^3; minimum observed, 1,638.88 ft Mar. 28, contents 2.555 bil ft^3.

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, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1643.88	1640.15	1641.22	1646.31	1643.82	1640.91	1640.51	1646.18	1648.53	1648.93	1647.69	1645.95
2	1643.74	1640.21	1641.27	1646.80	1643.58	1640.96	1640.65	1646.22	1648.56	1648.90	1647.70	1645.93
3	1643.69	1640.13	1641.29	1647.22	1643.41	1640.98	1640.75	1646.23	1648.58	1648.88	1647.64	1645.86
4	1643.66	1640.12	1641.33	1647.29	1643.25	1640.96	1640.78	1646.25	1648.58	1648.83	1647.59	1645.74
5	1643.52	1640.18	1641.41	1647.25	1643.10	1641.06	1640.74	1646.26	1648.66	1648.80	1647.52	1645.66
6	1643.38	1640.37	1641.51	1647.24	1642.93	1640.95	1640.74	1646.31	1648.64	1648.73	1647.47	1645.65
7	1643.24	1640.52	1641.51	1647.20	1642.76	1640.80	1641.24	1646.49	1648.64	1648.71	1647.39	1645.62
8	1643.11	1640.53	1641.51	1647.04	1642.63	1640.69	1641.69	1646.69	1648.63	1648.66	1647.32	1645.58
9	1642.95	1640.62	1641.51	1646.88	1642.50	1640.57	1641.91	1646.83	1648.62	1648.66	1647.28	1645.57
10	1642.77	1640.69	1641.50	1646.78	1642.30	1640.38	1642.01	1646.98	1648.61	1648.61	1647.22	1645.65
11	1642.61	1640.71	1641.48	1646.63	1642.02	1640.30	1642.05	1647.03	1648.64	1648.61	1647.11	1645.62
12	1642.44	1640.72	1641.47	1646.51	1641.84	1640.23	1642.08	1647.13	1648.66	1648.55	1647.09	1645.58
13	1642.27	1640.85	1641.48	1646.36	1641.73	1640.26	1642.10	1647.33	1648.84	1648.50	1647.03	1645.49
14	1642.11	1640.84	1641.52	1646.21	1641.55	1640.46	1642.15	1647.54	1648.93	1648.46	1646.99	1645.42
15	1641.95	1640.89	1641.60	1646.03	1641.39	1640.49	1642.18	1647.63	1648.97	1648.42	1646.90	1645.36
16	1641.76	1640.96	1641.67	1645.85	1641.18	1640.44	1642.38	1647.80	1649.00	1648.44	1646.82	1645.31
17	1641.55	1640.98	1641.74	1645.77	1641.03	1640.34	1642.86	1647.90	1649.04	1648.41	1646.76	1645.26
18	1641.38	1640.99	1641.89	1645.66	1640.99	1640.23	1643.16	1647.98	1649.09	1648.40	1646.70	1645.21
19	1641.26	1640.93	1641.96	1645.50	1640.64	1640.10	1643.61	1648.09	1649.12	1648.38	1646.64	1645.12
20	1641.15	1640.93	1642.01	1645.41	1640.49	1639.96	1644.06	1648.16	1649.14	1648.33	1646.59	1645.01
21	1641.00	1640.82	1642.09	1645.39	1640.30	1639.86	1644.35	1648.19	1649.15	1648.26	1646.53	1644.84
22	1640.81	1640.82	1642.16	1645.36	1640.10	1639.72	1644.76	1648.24	1649.16	1648.22	1646.44	1644.72
23	1640.64	1640.82	1642.22	1645.34	1639.94	1639.55	1645.27	1648.27	1649.15	1648.17	1646.38	1644.61
24	1640.43	1640.79	1642.24	1645.24	1639.91	1639.40	1645.53	1648.31	1649.14	1648.08	1646.33	1644.51
25	1640.32	1640.76	1642.26	1645.08	1640.09	1639.26	1645.82	1648.34	1649.07	1648.04	1646.28	1644.39
26	1640.25	1640.73	1642.26	1644.88	1640.47	1639.03	1645.95	1648.38	1649.04	1647.95	1646.20	1644.24
27	1640.23	1640.69	1642.21	1644.73	1640.75	1638.93	1646.04	1648.43	1648.99	1647.98	1646.15	1644.17
28	1640.21	1640.66	1642.20	1644.55	1640.89	1638.88	1646.09	1648.47	1648.96	1647.95	1646.15	1644.64
29	1640.22	1640.68	1642.63	1644.37	---	1639.21	1646.17	1648.49	1648.96	1647.88	1646.06	1644.90
30	1640.22	1640.96	1644.62	1644.15	---	1639.86	1646.18	1648.50	1648.96	1647.82	1646.03	1645.01
31	1640.15	---	1645.72	1643.97	---	1640.26	---	1648.51	---	1647.76	1645.99	---
MEAN	1641.84	1640.67	1641.98	1645.90	1641.63	1640.16	1643.13	1647.52	1648.87	1648.40	1646.84	1645.22
MAX	1643.88	1640.99	1645.72	1647.29	1643.82	1641.06	1646.18	1648.51	1649.16	1648.93	1647.70	1645.95
MIN	1640.15	1640.12	1641.22	1643.97	1639.91	1638.88	1640.51	1646.18	1648.53	1647.76	1645.99	1644.17
‡	2.751	2.912	3.744	3.373	2.880	2.800	3.761	4.157	4.227	4.019	3.710	3.558
‡‡	-232.2	+62.1	+310.6	-138.5	-203.8	-29.9	+370.8	+147.8	+27	-77.7	-115.4	-58.6

CAL YR 1984 MEAN 1644.21 MAX 1650.79 MIN 1636.50 ‡‡ -0.54
WTR YR 1985 MEAN 1644.37 MAX 1649.16 MIN 1638.88 ‡‡ +5.87

‡ Contents, in billions of cubic feet, at 2400 hours 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 downstream from Indian Lake Dam, 1.0 mi upstream from Big Brook, and 2.0 mi south of village of Indian Lake.

DRAINAGE AREA.--132 mi^2.

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 above National Geodetic Vertical Datum of 1929. Prior to Aug. 30, 1916, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Indian Lake (see station 01314500). Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--71 years (1913, 1916-85), 295 ft^3/s, unadjusted.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 500 ft^3/s Jan. 5, gage height, 2.83 ft; minimum, 25 ft^3/s Oct. 3, gage height, 0.74 ft; minimum daily, 44 ft^3/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	438	155	178	194	459	230	360	135	60	116	142	142
2	349	152	178	195	457	231	360	135	60	116	142	141
3	292	152	178	328	455	229	361	136	60	117	142	214
4	437	152	178	495	451	275	360	172	60	116	144	250
5	435	155	178	496	449	420	363	188	60	117	143	250
6	434	154	178	495	448	418	369	105	61	118	144	251
7	431	154	178	496	445	417	368	64	60	118	144	188
8	430	154	178	495	443	415	368	62	60	118	144	150
9	428	154	176	493	440	412	362	62	60	118	144	152
10	428	156	176	490	437	411	328	61	60	118	144	151
11	425	156	176	489	435	410	328	60	60	118	144	150
12	424	156	176	488	433	364	328	66	64	118	144	150
13	424	160	176	486	431	305	329	66	62	118	144	149
14	421	177	176	468	429	304	331	62	60	118	144	148
15	420	178	176	411	427	347	333	62	60	119	144	148
16	418	176	176	411	424	412	314	62	60	119	143	148
17	415	176	176	411	422	411	240	63	60	120	142	147
18	413	175	178	411	422	410	243	64	60	120	142	146
19	411	174	178	311	454	409	245	62	59	120	142	181
20	406	174	176	190	451	407	245	61	62	120	142	300
21	402	174	176	190	448	405	248	60	77	120	142	299
22	400	174	176	190	446	433	227	60	78	120	142	299
23	398	174	176	231	446	467	195	60	78	119	142	297
24	397	174	176	386	449	465	195	60	104	119	142	297
25	336	174	176	469	356	461	195	60	116	119	142	296
26	131	174	175	467	229	458	195	60	116	120	142	296
27	157	174	176	466	229	458	195	60	116	119	142	257
28	156	176	175	463	229	462	195	60	118	119	142	103
29	156	178	196	461	---	400	165	60	118	119	142	45
30	156	178	189	460	---	358	136	60	117	122	142	44
31	155	---	188	462	---	359	---	60	---	142	142	---
TOTAL	11123	4990	5519	12498	11644	11963	8481	2408	2246	3700	4426	5789
MEAN	359	166	178	403	416	386	283	77.7	74.9	119	143	193
MAX	438	178	196	496	459	467	369	188	118	142	144	300
MIN	131	152	175	190	229	229	136	60	59	116	142	44
ADJUSTED FOR CHANGE IN CONTENTS OF INDIAN LAKE												
MEAN	127	228	489	264	212	356	654	226	102	41	28	134
CFSM	.96	1.73	3.70	2.00	1.61	2.70	4.95	1.71	.77	.31	.21	1.02
IN	1.11	1.93	4.27	2.31	1.67	3.11	5.53	1.97	.86	.36	.24	1.13

		OBSERVED					ADJUSTED				
CAL YR 1984	TOTAL 125195	MEAN 342	MAX 659	MIN 29	MEAN 341	CFSM 2.59	IN 35.16				
WTR YR 1985	TOTAL 84787	MEAN 232	MAX 496	MIN 44	MEAN 238	CFSM 1.80	IN 24.47				

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 upstream from bridge on State Highway 28N in village of North Creek, 500 ft upstream from North Creek, and 26 mi downstream from Indian Lake.

DRAINAGE AREA.--792 mi^2.

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

REVISED RECORDS.--WSP 621: Drainage area. WSP 1432: 1908-18, 1920, 1922. WDR NY-78-1: 1977.

GAGE.--Water-stage recorder. Datum of gage is 987.51 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 15, 1930, nonrecording gages at sites 80 ft and 125 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Nov. 21-23, Dec. 5-10, 22-28, Jan. 3-25, Feb. 1-28, Mar. 2-10, and Mar. 15-25. Records good except those for estimated daily discharges, which are fair. Appreciable regulation by Indian Lake (see station 01314500) and other reservoirs above station. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--78 years, 1,561 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,900 ft^3/s Dec. 31, 1948, gage height, 12.14 ft; minimum, 112 ft^3/s July 26, 1934, gage height, 1.96 ft; minimum daily, 114 ft^3/s July 26, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,000 ft^3/s Dec. 30, gage height, 9.92 ft; minimum, 212 ft^3/s Aug. 23, 24, gage height, 2.31 ft; minimum daily, 216 ft^3/s Aug. 23-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	738	570	2450	6720	1100	2380	4040	1730	751	941	300	385
2	901	544	2130	5500	1000	1900	3310	1640	800	768	304	425
3	755	519	1800	4000	960	1600	2630	1560	813	668	299	403
4	1180	490	1590	3000	920	1400	2320	1410	741	595	286	463
5	1560	902	1400	2400	890	1500	2230	1320	634	544	274	557
6	1350	1780	1260	1900	870	1480	3560	1470	711	493	265	3490
7	1160	1650	1200	1600	860	1440	5720	2240	740	453	259	5690
8	1090	1390	1160	1400	850	1400	5020	2780	654	428	261	4630
9	1010	1200	1120	1250	850	1360	3930	2410	578	429	257	3210
10	1020	982	1110	1150	870	1390	3120	1980	556	427	253	2660
11	951	1070	1040	1100	900	1340	2810	1760	491	427	251	2200
12	869	1200	1000	1060	920	1710	2570	1680	672	411	248	1660
13	838	1370	1070	1050	910	2330	2480	2840	1490	385	248	1330
14	741	1330	1430	1020	900	2390	2400	2970	1520	361	245	1110
15	750	1200	1540	970	900	2100	2540	2370	1400	362	238	833
16	740	1070	1500	910	870	1700	3960	1960	1260	510	235	719
17	713	1100	1500	900	840	1500	5560	1780	1160	695	228	636
18	693	1100	1920	870	840	1420	4990	2800	1090	683	228	568
19	690	1040	1920	700	820	1360	4230	3270	1070	560	224	515
20	812	900	1780	550	800	1310	4370	2740	970	465	222	528
21	728	890	1630	540	790	1290	4650	2090	873	404	220	617
22	679	820	1380	530	770	1290	5420	1710	761	375	219	571
23	853	750	1200	580	800	1300	5920	1380	707	339	216	491
24	911	725	1050	1100	1300	1350	5430	1240	684	315	216	531
25	932	704	900	1100	3500	1350	4510	1060	627	293	239	587
26	761	688	810	1100	4200	1340	3750	924	573	284	248	623
27	581	727	780	1080	3600	1310	3240	902	523	286	292	1390
28	630	677	860	998	2700	1920	2720	986	507	282	304	5010
29	641	1080	5270	883	---	4070	2290	1120	637	274	298	3920
30	625	2470	15600	1020	---	5320	1980	1010	901	264	289	2770
31	610	---	10600	1040	---	4920	---	853	---	265	312	---
TOTAL	26512	30938	70000	48021	35530	58470	111700	55985	24894	13986	7978	48522
MEAN	855	1031	2258	1549	1269	1886	3723	1806	830	451	257	1617
MAX	1560	2470	15600	6720	4200	5320	5920	3270	1520	941	312	5690
MIN	581	490	780	530	770	1290	1980	853	491	264	216	385

CAL YR 1984 TOTAL 628182 MEAN 1716 MAX 15600 MIN 327
WTR YR 1985 TOTAL 532536 MEAN 1459 MAX 15600 MIN 216

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 downstream from outlet of Lake Luzerne, and 0.3 mi upstream from Sacandaga River.

DRAINAGE AREA.--1,664 mi^2.

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 5-7, 22-29, Jan. 4-18, 27-31, Feb. 3, 26-28, and Mar. 1-4. Records excellent except those for estimated daily discharges, which are fair. Some diurnal fluctuation caused by powerplant on Schroon River. Flow regulated by Indian Lake (see station 01314500) and other reservoirs upstream from station. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--64 years, 2,908 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft^3/s Jan. 1, 1949, gage height, 21.21 ft; minimum, 281 ft^3/s Sept. 3, 1934, gage height, 0.94 ft; minimum daily, 292 ft^3/s July 24, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 30	2030	*19,200	*11.60	No other peak greater than base discharge.			

Minimum discharge, 310 ft^3/s Aug. 24, 25, gage height, 1.09 ft; minimum daily, 314 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	934	3360	10800	1430	4300	6980	3360	1580	1450	472	498
2	1090	896	3110	10000	1630	4000	6070	3090	1500	1380	478	578
3	1330	846	2760	8140	1500	3800	5300	2900	1490	1230	471	605
4	1340	810	2480	6850	1480	3500	4550	2670	1440	1140	457	590
5	1680	1090	2250	5900	1420	2560	4540	2480	1330	1060	436	673
6	1790	2090	2050	5100	1320	3100	6330	2530	1260	987	416	1420
7	1500	2280	1900	4250	1390	3360	9370	3300	1330	934	407	7000
8	1400	2030	1800	3500	1490	2860	9040	4120	1270	859	415	6300
9	1340	1790	2020	2800	1360	2790	7600	3850	1180	810	404	4820
10	1310	1630	1980	2550	1350	2930	6440	3360	1110	799	393	4010
11	1270	1610	1940	2500	1410	2840	5830	2970	1040	762	383	3600
12	1190	1680	1850	2550	1350	3420	5340	2770	1090	737	374	2930
13	1140	1980	1860	2650	1470	5400	4990	4020	1700	718	366	2400
14	1050	2020	2220	2850	1600	5280	4790	4900	2120	669	364	2050
15	1070	1900	2490	2700	1610	4920	4680	4180	2050	658	358	1780
16	1030	1790	2450	2100	1540	4680	5580	3530	1930	706	363	1540
17	1030	1680	2400	1900	1470	4040	7480	3250	1810	889	342	1390
18	1020	1740	2820	2000	1430	3830	7720	3510	1740	1020	326	1270
19	986	1680	3080	2070	1430	3460	6970	4690	1680	926	325	1170
20	997	1540	2950	1990	1390	3280	6860	4450	1590	789	337	1080
21	1040	1460	2650	1520	1370	3170	7000	3770	1470	687	334	1090
22	1040	1390	2300	1570	1240	2880	7590	3180	1360	620	325	1100
23	1080	1330	2050	1590	1270	2910	8450	2790	1250	576	317	1030
24	1180	1320	1850	1590	1610	2890	8110	2430	1190	522	314	970
25	1210	1280	1600	1830	3480	2790	7220	2200	1140	487	341	1010
26	1210	1240	1450	1780	5400	2670	6200	2000	1070	473	394	1030
27	1040	1210	1350	1600	5300	2540	5450	1890	995	460	427	1190
28	957	1180	1450	1600	4900	3060	4840	1920	957	448	489	5310
29	1000	1320	3900	1550	---	5740	4280	1930	1090	440	487	5500
30	1000	2630	16600	1400	---	7760	3770	1880	1290	428	475	4080
31	987	---	15500	1400	---	7850	---	1700	---	426	488	---
TOTAL	36337	46376	98470	100630	53640	118610	189370	95620	42052	24090	12278	68014
MEAN	1172	1546	3176	3246	1916	3826	6312	3085	1402	777	396	2267
MAX	1790	2630	16600	10800	5400	7850	9370	4900	2120	1450	489	7000
MIN	957	810	1350	1400	1240	2540	3770	1700	957	426	314	498

CAL YR 1984 TOTAL 1170201 MEAN 3197 MAX 16800 MIN 696
WTR YR 1985 TOTAL 885487 MEAN 2426 MAX 16600 MIN 314

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 downstream from West Branch Sacandaga River, on State Highway 30, and 4.5 mi upstream from Hope.

DRAINAGE AREA.--491 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 881.31 ft above National Geodetic Vertical Datum of 1929. Prior to July 24, 1929, nonrecording gage at site 300 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 21-28, Jan. 4 to Feb. 25, and Feb. 28 to Mar. 11. Records good except those for estimated daily discharges, which are poor. Some seasonal regulation at Piseco Lake Outlet and, since 1959, intermittent regulation by Lake Algonquin at Wells 4 mi upstream. Infrequent minor fluctuations by mill upstream. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--74 years, 1,100 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft^3/s Mar. 27, 1913, gage height, 11.0 ft, from floodmarks at site then in use; maximum gage height, 13.32 ft Mar. 1, 1955 (ice jam); minimum discharge, about 16 ft^3/s Sept. 30, 1913, gage height, 1.17 ft; minimum daily discharge, 18 ft^3/s Sept. 20, 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 9,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 29	2330	*11,100	*7.05	No other peak greater than base discharge.			

Minimum discharge, 40 ft^3/s Aug. 24, gage height, 1.26 ft; minimum daily discharge, 41 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	379	1480	4910	570	1500	3020	1030	363	368	127	135
2	235	377	1340	5550	580	1400	2570	930	362	311	112	129
3	338	372	1170	3750	580	1200	2200	795	320	280	96	364
4	499	353	1070	2800	570	960	1870	732	279	208	85	242
5	497	1040	930	2000	570	880	1620	724	257	148	78	222
6	417	1550	777	1500	580	840	4950	795	218	129	73	407
7	370	1200	833	1300	590	820	5680	1310	191	123	69	549
8	340	992	759	1150	570	800	3810	1270	174	120	74	411
9	320	860	759	1000	550	780	3270	1090	164	111	78	337
10	304	948	701	920	560	760	2690	960	160	108	71	339
11	288	1040	682	870	570	770	2330	850	143	107	69	326
12	273	993	685	810	590	2040	2120	792	280	98	58	261
13	262	1080	860	770	610	2880	2000	985	521	95	50	216
14	253	981	1340	780	640	2430	1940	955	422	90	46	183
15	245	861	1260	760	660	1690	1930	849	334	91	43	161
16	238	861	1120	740	640	1270	2830	767	282	169	55	143
17	231	901	1170	720	620	1340	3640	777	297	169	51	129
18	225	823	1520	710	610	1120	2480	994	313	127	45	119
19	224	767	1360	690	590	951	3000	849	287	107	42	110
20	260	642	1220	680	570	957	3150	747	254	92	45	102
21	266	613	960	660	550	902	3040	669	250	83	54	95
22	285	575	870	650	620	835	2980	599	215	77	51	88
23	308	544	780	630	1100	840	3010	537	196	67	44	86
24	304	538	700	610	2200	886	2640	488	179	67	41	98
25	290	507	640	600	3800	875	2330	438	156	64	61	120
26	324	482	580	590	2800	821	2050	401	143	69	99	116
27	386	468	580	580	2190	869	1750	412	137	89	125	1120
28	381	487	640	570	1700	2350	1500	466	141	86	139	2230
29	419	1050	5930	560	---	4910	1320	422	343	77	111	1170
30	440	1690	8490	550	---	4670	1160	371	457	70	99	895
31	412	---	4750	540	---	3810	---	329	---	77	129	---
TOTAL	9803	23974	45956	38950	26780	47156	78880	23333	7838	3877	2320	10903
MEAN	316	799	1482	1256	956	1521	2629	753	261	125	74.8	363
MAX	499	1690	8490	5550	3800	4910	5680	1310	521	368	139	2230
MIN	169	353	580	540	550	760	1160	329	137	64	41	86

CAL YR 1984 TOTAL 455666 MEAN 1245 MAX 10300 MIN 151
WTR YR 1985 TOTAL 319770 MEAN 876 MAX 8490 MIN 41

01323500 GREAT SACANDAGA LAKE AT CONKLINGVILLE, NY

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

DRAINAGE AREA.--1,044 mi².

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 National Geodetic Vertical Datum, adjustment of 1912. Prior to Apr. 23, 1930, nonrecording gage at same datum in outlet channel 800 ft 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 bil ft³ between elevations 735.0 ft and 768.0 ft. Between elevations 768.0 ft and 771.0 ft (spillway crest) an additional 3.450 bil ft³ is available exclusively for flood storage. Elevation of inverts of three Dow valves is 699.0 ft. Capacity of 4.600 bil ft³ below elevation 735.0 ft 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, is 41.7 mi². Discharge over spillway May 1-10, 1983 (only spillage since dam completion in 1930).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 773.29 ft May 4, 1983, contents, 40.418 bil ft³; minimum since first filling, 729.55 ft Mar. 30, 1940, contents, 2.100 bil ft³.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 765.72 ft June 1, contents, 31.732 bil ft³; minimum, 744.40 ft Feb. 23, contents, 11.150 bil ft³.

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

738	6.43	760	25.61
740	7.80	764	29.85
745	11.64	768	34.27
750	15.94	771	37.72
755	20.11	774	41.26

ELEVATION, IN FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	756.61	752.39	750.42	752.39	746.93	746.41	751.89	762.88	765.63	764.42	761.18	756.82
2	756.41	752.28	750.47	753.15	746.68	746.52	752.39	762.98	765.55	764.33	761.04	756.80
3	756.31	752.07	750.57	753.52	746.59	746.65	752.72	763.07	765.58	764.27	760.90	756.63
4	756.20	751.97	750.72	753.57	746.61	746.83	753.08	763.23	765.48	764.22	760.82	756.55
5	755.98	752.04	750.52	753.52	746.45	747.00	753.34	763.29	765.42	764.18	760.73	756.37
6	755.87	752.12	750.40	753.34	746.33	746.93	754.06	763.32	765.43	764.12	760.59	756.30
7	755.77	752.05	750.45	753.12	746.18	746.93	755.20	763.50	765.38	764.12	760.42	756.27
8	755.75	752.00	750.30	752.94	746.04	746.95	755.92	763.60	765.27	764.05	760.32	756.32
9	755.58	751.92	750.25	752.65	745.91	746.88	756.38	763.77	765.22	763.91	760.15	756.30
10	755.40	751.83	750.22	752.34	745.93	746.92	756.80	763.93	765.31	763.80	760.00	756.25
11	755.26	751.85	750.23	752.03	745.96	747.01	757.16	763.98	765.14	763.69	759.90	756.15
12	755.08	751.92	750.17	751.72	745.93	747.12	757.40	764.05	765.08	763.51	759.80	756.05
13	754.91	751.90	750.08	751.43	745.95	747.82	757.63	764.33	765.17	763.39	759.64	755.94
14	754.80	751.82	749.93	751.09	745.77	748.38	757.90	764.47	765.17	763.29	759.48	755.85
15	754.77	751.75	749.98	750.80	745.60	748.73	758.18	764.62	765.11	763.26	759.35	755.77
16	754.58	751.82	749.99	750.47	745.48	748.71	758.50	764.73	765.05	763.20	759.19	755.73
17	754.40	751.70	750.18	750.33	745.44	748.82	758.89	764.86	765.13	763.02	759.00	755.57
18	754.25	751.60	750.11	750.15	745.45	748.83	759.27	764.97	765.10	762.91	758.90	755.45
19	754.10	751.48	750.07	749.83	745.30	748.84	759.63	765.10	765.12	762.79	758.81	755.28
20	754.00	751.43	750.14	749.58	745.12	748.87	760.03	765.20	765.03	762.64	758.66	755.13
21	753.83	751.30	750.01	749.30	744.98	748.87	760.43	765.28	764.95	762.51	758.40	754.97
22	753.82	751.18	750.02	748.99	744.87	748.84	760.77	765.30	764.88	762.54	758.17	754.82
23	753.65	751.06	749.98	748.67	744.71	748.82	761.17	765.35	764.87	762.32	757.92	754.72
24	753.48	750.91	749.88	748.40	744.76	748.91	761.54	765.42	764.90	762.18	757.68	754.58
25	753.33	750.82	749.82	748.20	745.16	748.98	761.85	765.48	764.76	762.03	757.62	754.47
26	753.02	750.90	749.79	748.02	745.65	748.97	762.13	765.50	764.62	761.90	757.62	754.32
27	752.83	750.72	749.58	747.96	746.07	748.94	762.28	765.57	764.48	761.77	757.52	754.10
28	752.78	750.56	749.39	747.90	746.25	749.05	762.48	765.57	764.47	761.68	757.39	754.07
29	752.79	750.48	749.42	747.67	---	749.63	762.64	765.59	764.38	761.58	757.18	754.75
30	752.68	750.45	750.74	747.40	---	750.48	762.82	765.63	764.37	761.43	757.03	754.92
31	752.51	---	751.80	747.15	---	751.19	---	765.60	---	761.27	756.87	---
MEAN	754.54	751.54	750.18	750.57	745.79	748.19	758.15	764.52	765.07	763.04	759.11	755.57
MAX	756.61	752.39	751.80	753.57	746.93	751.19	762.82	765.63	765.63	764.42	761.18	756.82
MIN	752.51	750.45	749.39	747.15	744.71	746.41	751.89	762.88	764.37	761.27	756.87	754.07
#	18.16	16.03	17.82	13.08	12.70	17.36	28.60	31.66	30.28	26.87	22.32	20.52
##	-1516	-822	+668	-1770	-157	+1740	+4336	+1142	-532	-1273	-1699	-694

CAL YR 1984 MEAN 757.52 MAX 769.23 MIN 745.85 ## -180
WTR YR 1985 MEAN 755.58 MAX 765.63 MIN 744.71 ## -53.9

\# Contents, in billions of cubic feet, at 2400 hours on last day of month.
Change in contents, equivalent in cubic feet per second.

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 downstream from Stewarts Bridge, 1.1 mi west of Hadley, 1.4 mi upstream from mouth, and 1.5 mi downstream from Stewarts Bridge hydroelectric plant.

DRAINAGE AREA.--1,055 mi^2.

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, WDR NY-83-1: 1968(M), 1971-72(M), 1976-77(M), 1979(M).

GAGE.--Water-stage recorder. Datum of gage is 582.00 ft above National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1911, nonrecording gage at site about 1 mi upstream at different datum. Jan. 1, 1911 to Sept. 30, 1932, water-stage recorder at site 0.8 mi downstream at datum 8.82 ft lower than present datum. Oct. 1, 1932 to Sept. 30, 1952, water-stage recorder at site 3.6 mi upstream at datum 85.47 ft higher than present datum.

REMARKS.--Estimated daily discharges: Jan. 9-13. Records good. Flow regulated by Great Sacandaga Lake since Mar. 27, 1930 (see station 01323500); discharge over spillway only May 1-10, 1983. 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. Several measurements of water temperature were made during the year.

COOPERATION.--From Oct. 1, 1932, to Dec. 4, 1979 discharge computed by Board of Hudson River-Black River Regulating District from rating developed by Geological Survey. Since Dec. 4, 1979, discharge computed by U.S. Geological Survey.

AVERAGE DISCHARGE.--78 years, 2,141 ft^3/s, adjusted for storage since 1930.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 35,500 ft^3/s Mar. 28, 1913, gage height, 12.36 ft site and datum then in use; minimum, 4.2 ft^3/s May 4, 1985; minimum daily, 4.7 ft^3/s Apr. 28 to May 5, 1985. Maximum discharge since construction of Conklingville Dam in 1930, 13,300 ft^3/s May 4, 1983, gage height, 9.68 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,500 ft^3/s Feb. 14, gage height, 8.58 ft; minimum, 4.2 ft^3/s May 4; minimum daily, 4.7 ft^3/s Apr. 28 to May 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2620	2140	2440	2550	3160	1730	18	4.7	676	1520	2010	36
2	2320	2160	47	4200	3070	1730	6.0	4.7	276	1340	1930	1860
3	2240	2540	1920	5110	173	205	5.4	4.7	860	1320	1990	1880
4	2320	197	2540	4940	2030	1570	5.3	4.7	1030	41	39	1900
5	2320	2250	2380	4910	2130	1800	5.8	4.7	1200	1440	1790	1950
6	2220	2170	2420	4930	2070	1730	8.8	5.8	1230	1520	1900	1930
7	129	2280	2290	4860	2130	1760	7.5	14	1060	39	2090	55
8	2160	2140	2270	4810	2100	2210	6.0	22	992	1540	2000	31
9	2110	2260	58	4720	44	2080	5.3	21	36	1710	1940	1510
10	2240	2820	2740	4720	142	54	5.2	56	1040	2020	1920	1410
11	2510	453	2230	4720	666	2240	5.2	21	1280	1860	39	1430
12	2450	2670	2080	4720	905	2580	5.2	20	1320	1830	2060	1620
13	2150	2090	1970	4720	2330	1800	5.1	23	1010	1710	1940	1490
14	143	2370	2370	4640	2790	1700	5.2	141	1030	74	1900	1450
15	2160	2350	2370	4490	2050	2570	5.0	34	978	1760	1900	34
16	2240	2330	43	3880	2040	2260	5.2	34	39	2040	1950	1840
17	2160	1740	2390	1890	54	2090	5.2	34	977	2020	2040	1750
18	2180	1850	2530	4470	2090	3050	5.4	34	1060	2190	41	1750
19	2170	2370	2590	3550	2110	2250	5.1	32	1020	1460	1920	1850
20	2490	2390	2580	3490	2080	2180	4.8	32	1050	1350	2050	1880
21	28	2380	2580	3760	2080	2020	5.0	32	1220	39	2860	1990
22	1910	1570	3000	3930	2110	1620	5.6	33	1200	2300	3090	1050
23	2410	2410	1570	4250	2040	2230	5.2	33	40	1450	2660	1050
24	2250	2420	3020	2720	1060	28	5.2	33	1380	1830	2250	1570
25	2290	47	1520	2920	1290	1910	5.2	32	1350	1760	69	2250
26	2300	2430	2630	2010	1730	1870	5.2	32	1570	1920	2130	1870
27	2300	2410	2500	135	1750	1930	5.2	32	1530	1880	2220	1750
28	181	2450	3330	2900	1630	2180	4.7	716	1540	47	2080	519
29	1800	2390	3090	3080	---	1960	4.7	713	1490	1650	2070	32
30	2170	2400	96	3080	---	1730	4.7	711	43	2140	2030	32
31	2200	---	41	3050	---	23	---	740	---	1820	2070	---
TOTAL	61171	62477	63635	118155	47854	55090	175.4	3654.3	29527	45620	56978	39769
MEAN	1973	2083	2053	3811	1709	1777	5.85	118	984	1472	1838	1326
MAX	2620	2820	3330	5110	3160	3050	18	740	1570	2300	3090	2250
MIN	28	47	41	135	44	23	4.7	4.7	36	39	39	31
Adjusted for change in contents in Great Sacandaga Lake and Stewarts Bridge Pool												
MEAN	517	1237	2744	2042	1550	3421	4375	1283	496	177	133	655
CFSM	0.49	1.17	2.60	1.94	1.47	3.24	4.15	1.22	0.47	0.17	0.13	0.62
IN	0.56	1.31	3.00	2.23	1.53	3.74	4.63	1.40	0.52	0.19	0.15	0.69

			Observed					Adjusted			
CAL YR	1984	TOTAL 940806.6	MEAN 2571	MAX 7820	MIN 8.6	MEAN 2397	CFSM 2.27	IN 30.92			
WTR YR	1985	TOTAL 584105.7	MEAN 1600	MAX 5110	MIN 4.7	MEAN 1551	CFSM 1.47	IN 19.96			

01327750 HUDSON RIVER AT FORT EDWARD, NY

LOCATION.--Lat 43°16'10", long 73°35'47", Washington County, Hydrologic Unit 02020003, on left bank 40 ft upstream from Scott Paper Mill, 150 ft south of River Street in Fort Edward, and 0.4 mi upstream from bridge on State Highway 197.

DRAINAGE AREA.--2,817 mi^2.

PERIOD OF RECORD.--December 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 100.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 23, 25, 27 and Jan. 11-24. Records fair. Flow regulated appreciably by Great Sacandaga Lake (see station 01323500) and Indian Lake (see station 01314500). Diurnal fluctuation caused by powerplants upstream from station. Water is diverted into St. Lawrence River basin through Glens Falls feeder, Bond Creek, and Champlain (Barge) Canal, and occasionally may be received from that basin through summit level of Champlain (Barge) Canal at Dunham Basin. Gage-height telemeter at station.

AVERAGE DISCHARGE.--8 years, 5,180 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,200 ft^3/s May 3, 1983, gage height 28.34 ft; maximum gage height, 28.71 ft Jan. 11, 1978, ice jam; minimum discharge, 234 ft^3/s July 25, 1983, minimum gage height, 19.33 ft Sept. 4, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,500 ft^3/s Dec. 31, gage height, 24.79 ft; minimum, 388 ft^3/s Aug. 26, gage height, 19.72 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3000	3100	5100	13400	4620	5800	7420	3690	2090	2520	2460	1080
2	3640	3040	5220	14800	4190	5850	6530	3320	1960	2640	2320	1860
3	3410	3140	3750	13200	2340	5190	5510	3170	2010	2690	2080	2500
4	3410	1310	4790	11800	4100	3640	5190	2560	2460	1180	998	2390
5	4130	3340	4890	10900	3370	4410	4390	2370	2550	2200	1830	2410
6	4060	4770	4880	9630	3550	4340	5340	2850	2320	2430	2230	3570
7	2140	3370	4780	9300	3830	4610	8470	3020	2290	1300	2380	5240
8	3320	4440	4030	9200	4640	4810	9310	4110	2430	2210	2470	6380
9	3640	4190	3070	8020	2820	4760	8130	4160	1460	3040	2470	5840
10	3090	3880	3350	7840	1650	4220	7060	3730	1760	1700	2490	5630
11	3710	3720	4520	7400	1590	3300	5960	3060	2420	2760	1180	5150
12	3790	3510	4400	7400	2550	5330	5660	2950	2350	2680	1660	4890
13	3530	4470	3870	7600	2710	7610	5280	3660	2430	2650	2060	3510
14	1860	4170	4180	7600	3680	7590	5050	4280	3090	1080	2100	3560
15	2470	4210	4930	6800	4290	6820	4700	4720	3070	2190	2470	2450
16	3490	4390	4060	6000	3720	6870	4870	3650	2300	2320	2420	2690
17	3310	4110	3490	4300	1880	6140	6320	3530	2590	3060	2340	3330
18	3120	3530	5030	6600	2720	5850	7950	3360	2980	2980	1090	3070
19	3330	4020	5690	6000	3620	6460	7560	4100	2380	2520	1790	3000
20	2800	3670	5680	5600	3210	5490	6850	4390	2500	2680	2330	2870
21	2010	3870	5460	5400	3430	5430	6610	4200	2340	994	3040	2860
22	2720	3190	5390	5600	3260	4520	7250	3280	2780	2530	3400	2450
23	3240	3360	4000	6000	3260	4950	7890	2490	1900	2470	3300	2500
24	3270	3750	4900	4800	2790	4140	8360	2600	2290	2270	2610	2540
25	3550	2030	3500	4320	3860	4040	7510	2210	2280	2630	1270	2560
26	3600	3130	4160	4460	6270	4270	6860	1960	2380	2350	2140	3350
27	3280	3760	4000	2580	6570	4550	5840	1940	2570	2110	2400	4010
28	1590	3730	4830	3070	6980	4680	5270	2320	2370	784	2620	4380
29	3200	3800	4990	4830	---	6690	4500	2760	2660	2080	2560	5610
30	3610	4570	14700	4960	---	9150	3770	2560	1660	2230	2580	4100
31	2880	---	17500	4600	---	8930	---	2960	---	2190	2510	---
TOTAL	98200	109570	163140	224010	101500	170440	191410	99960	70670	69468	69598	105780
MEAN	3168	3652	5263	7226	3625	5498	6380	3225	2356	2241	2245	3526
MAX	4130	4770	17500	14800	6980	9150	9310	4720	3090	3060	3400	6380
MIN	1590	1310	3070	2580	1590	3300	3770	1940	1460	784	998	1080

CAL YR 1984 TOTAL 2153560 MEAN 5884 MAX 20000 MIN 1200
WTR YR 1985 TOTAL 1473746 MEAN 4038 MAX 17500 MIN 784

01327755 HUDSON RIVER AT ROGERS ISLAND AT FORT EDWARD, NY

LOCATION.--Lat 43°15'52", long 73°35'28", Saratoga-Washington Counties, Hydrologic Unit 02020003, at bridges on State Highway 197 over Rogers Island in Fort Edward, 0.4 mi downstream from discharge station (01327750, Hudson River at Fort Edward), and 0.6 mi upstream from Champlain Canal.

DRAINAGE AREA.--2,817 mi^2, at gage.

PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL DATA: 1975-76 (a), 1980 (b), 1981 (d), 1982-84 (e), 1985 (d).
MINOR ELEMENT DATA: 1975 (b), 1976-77 (a), 1978-79 (e), 1980 (d).
PESTICIDE DATA: 1975, 1977 (a); 1978-79 (e), 1980 (a).
ORGANIC DATA: OC--1975 (a).
PCB--1975, 1977 (a); 1978-84 (e), 1985 (d).
PCN--1977 (a), 1978-79 (e), 1980 (a).
NUTRIENT DATA: 1975-77 (a), 1978 (e).
SEDIMENT DATA: 1975 (b), 1980-84 (e), 1985 (d).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: March 1978 to September 1979.

REMARKS.--Water-discharge data is that for Hudson River at Fort Edward (station 01327750). Samples are collected from both the navigation canal (east channel) and main (west) channel. Composite samples are from both the main channel and the navigation canal.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	PCB, TOTAL (UG/L)	IDENTIFIED AROCLOR(S)	LOCATION
OCT 30	1235	3810	2	20	0.01	1016, 1221	COMPOSITE
MAR 13	1500	7670	3	62	0.01	1016, 1221	RIVER
MAR 13	1515	7670	5	104	0.01	1016, 1221	CANAL
MAR 13	1530	7720	4	83	0.01	1016, 1221	RIVER
MAR 13	1545	7670	4	83	0.02	1016, 1221	CANAL
MAR 27	1545	4970	3	40	0.01	1016, 1221	RIVER
MAR 27	1600	5000	3	40	0.01	1016, 1221	CANAL
APR 1	1150	7190	4	78	0.10	-- --	COMPOSITE
MAY 9	1305	4350	2	23	0.18	-- --	COMPOSITE
MAY 17	1530	4290	2	23	0.07	-- --	CANAL
MAY 17	1545	4290	2	23	0.10	-- --	RIVER
JUN 19	1430	1080	2	5.8	0.30	-- --	RIVER
JUN 19	1445	967	5	13	0.10	-- --	CANAL
JUL 24	1550	2670	2	14	0.13	1221, 1242	COMPOSITE
AUG 2	1520	2750	5	37	0.05	1221, 1242	COMPOSITE
AUG 6	1145	2370	1	6.4	0.07	1221, 1242	COMPOSITE

01329650 HUDSON RIVER AT SCHUYLERVILLE, NY

LOCATION.--Lat 43°05'54", long 73°34'25", at Saratoga-Washington County line, Hydrologic Unit 02020003, at bridge on State Highway 29, 0.2 mi east of Schuylerville, 0.8 mi downstream from Batten Kill, and 1.0 mi downstream from Champlain (Barge) Canal lock 5.

DRAINAGE AREA.--3,440 mi^2, approximately.

PERIOD OF RECORD.--Water years 1977 to current year.
CHEMICAL DATA: 1980 (b), 1981 (c), 1982-84 (e), 1985 (d).
MINOR ELEMENTS DATA: 1977 (e), 1978-79 (d), 1980 (b).
PESTICIDE DATA: 1977 (e), 1978-79 (d).
ORGANIC DATA: PCB--1977 (e), 1978-80 (d), 1981-84 (e), 1985 (d).
PCN--1977 (e), 1978-79 (d).
NUTRIENT DATA: 1977 (e), 1978 (d).
SEDIMENT DATA: 1980 (d), 1981-84 (e), 1985 (d).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: March 1977 to September 1979.

REMARKS.--Water discharge estimated from wire-weight gage located at bridge. Streamflow affected by regulation for power generation and diversion for canal operations.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	PCB, TOTAL (UG/L)	IDENTIFIED AROCLOR(S)
OCT 30	1330	4300	8	93	0.02	1016, 1221
DEC 13	1200	5410	27	394	0.01	1016, 1221
MAR 11	1515	4400	4	48	0.01	1016, 1221
MAR 13	1415	14000	61	2300	0.02	1016, 1221
MAR 13	1630	14000	61	2300	0.01	1016, 1221
MAR 27	1515	4870	3	39	0.01	1016, 1221
APR 1	1245	9030	7	171	0.04	--, --
APR 19	1230	8680	1	23	0.01	1221, 1016
MAY 9	1345	5160	5	70	0.02	1221, 1016
MAY 17	1445	4020	2	22	0.04	1221, 1016
MAY 29	1600	3330	1	8.9	0.03	1221, 1016
JUN 7	1530	2660	29	208	0.26	1221, 1016
JUN 19	1530	3260	7	62	0.20	--, --
JUL 24	1430	1760	2	9.5	0.05	1221, 1242
AUG 2	1615	2550	1	6.9	0.10	1221, 1242
AUG 6	1300	2570	2	14	0.13	1221, 1242
AUG 19	1130	E1000	4	E11	0.18	1221, 1242

E Estimate.

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 downstream from Glowegee Creek, 1.0 mi east of West Milton, and 3.5 mi northwest of Ballston Spa.

DRAINAGE AREA.--90.0 mi^2.

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

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 376.06 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 21-28 and Jan. 3 to Mar. 11. Records good except those for estimated daily discharges, which are poor. Slight occasional diurnal fluctuation at low flow caused by mills upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--58 years, 136 ft^3/s, 20.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,710 ft^3/s Mar. 18, 1936, gage height, 10.78 ft, from floodmarks; maximum gage height, 11.20 ft Mar. 14, 1977, from floodmarks; minimum discharge, 6.1 ft^3/s Aug. 23, 1927, gage height, 0.86 ft; minimum daily discharge, 12 ft^3/s Aug. 5-9, Sept. 8, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 12	2045	*1,080	*4.91				

Minimum discharge, 16 ft^3/s Aug. 22, 23, 24, 25; minimum gage height, 1.12 ft Aug. 24; minimum daily discharge, 16 ft^3/s Aug. 22-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	54	107	244	56	150	201	92	51	57	54	41
2	62	52	102	443	60	162	204	88	47	59	36	32
3	75	51	90	260	52	130	200	87	43	51	28	29
4	79	48	91	170	50	80	243	81	42	46	24	26
5	67	194	78	140	50	100	353	78	43	42	22	25
6	49	193	65	120	49	130	466	88	57	42	21	37
7	46	119	97	110	48	120	399	166	50	44	30	46
8	47	89	115	100	48	100	263	125	42	45	52	38
9	45	78	80	96	48	110	203	94	42	45	38	92
10	44	108	75	92	50	110	172	85	54	44	26	89
11	43	121	79	88	52	130	157	78	48	42	23	57
12	42	113	92	86	52	613	147	73	40	39	22	41
13	40	159	121	82	54	786	136	108	38	38	20	35
14	40	133	164	80	56	516	135	93	74	38	19	32
15	39	109	127	76	58	372	136	76	116	32	19	29
16	39	101	115	74	62	269	131	71	105	44	25	26
17	39	97	131	70	66	235	119	79	94	37	23	26
18	38	87	145	68	70	208	120	158	76	30	20	24
19	39	81	126	68	76	171	152	120	65	28	18	24
20	45	73	119	68	88	183	134	89	56	27	18	22
21	43	70	100	68	100	206	122	74	49	25	17	22
22	43	65	96	66	110	166	146	66	50	23	16	21
23	56	62	90	64	130	158	263	60	70	22	16	21
24	54	62	120	62	200	169	173	56	78	21	16	22
25	47	63	110	60	450	165	142	52	66	20	32	24
26	60	62	120	58	380	144	139	50	89	21	48	23
27	67	60	140	58	210	145	123	52	86	28	40	58
28	57	61	200	56	160	225	109	66	70	24	31	140
29	75	95	260	56	---	348	108	61	60	20	26	69
30	72	118	430	56	---	267	99	51	55	20	25	47
31	61	---	260	54	---	206	---	48	---	22	52	---
TOTAL	1593	2778	4045	3193	2885	6874	5495	2565	1856	1076	857	1218
MEAN	51.4	92.6	130	103	103	222	183	82.7	61.9	34.7	27.6	40.6
MAX	79	194	430	443	450	786	466	166	116	59	54	140
MIN	38	48	65	54	48	80	99	48	38	20	16	21
CFSM	.57	1.03	1.44	1.14	1.14	2.47	2.03	.92	.69	.39	.31	.45
IN.	0.66	1.15	1.67	1.32	1.19	2.84	2.27	1.06	0.77	0.44	0.35	0.50

CAL YR 1984 TOTAL 61604 MEAN 168 MAX 1630 MIN 33 CFSM 1.87 IN. 25.46
WTR YR 1985 TOTAL 34435 MEAN 94.3 MAX 786 MIN 16 CFSM 1.05 IN. 14.23

HUDSON RIVER BASIN

01331095 HUDSON RIVER AT STILLWATER, NY

LOCATION.--Lat 42°56'16", long 73°39'04" at Saratoga-Rensselaer County line, Hydrologic Unit 02020003, at bridge on Stillwater Bridge Road in Stillwater, 0.4 mi upstream from Champlain (Barge) Canal lock 4, and 0.9 mi upstream from Hoosic River.

DRAINAGE AREA.--3,773 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 78.99 ft above National Geodetic Vertical Datum of 1929. Prior to January 1978, nonrecording gages in upper pool of Champlain (Barge) Canal lock 4, at Barge Canal datum.

REMARKS.--Estimated daily discharges: Jan. 17-25 and Sept. 30. Records good except those for periods below 3,000 ft^3/s and those for estimated daily discharges, which are fair. Streamflow affected by regulation for power generation and diversion for canal operations. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--8 years, 6,400 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,600 ft^3/s May 4, 1983, gage height, 8.69 ft; minimum daily, 900 ft^3/s July 25, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,100 ft^3/s Dec. 31, gage height, 6.93 ft; minimum daily, 1,210 ft^3/s July 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2550	3620	5860	16000	5230	7510	9360	4580	3180	2610	2860	1900
2	3950	3580	6190	17700	4830	7150	8390	3870	2640	3330	2810	1400
3	4310	3780	4840	16400	3750	6780	7480	3660	2680	3030	2480	2730
4	4190	2550	5420	14500	3230	4670	7160	3240	2720	2390	1560	2660
5	4700	3170	5850	12900	3860	5370	6240	2960	3120	2240	1420	2610
6	4620	5840	5750	11100	3550	5570	6760	3320	2930	2700	2380	3610
7	3240	4810	5610	12100	3900	5870	10200	4060	2810	2260	2450	5330
8	3300	4750	5040	11300	3920	6050	11600	5100	2890	2070	2670	6730
9	4000	5020	4110	9410	3450	6090	10300	4900	2240	3500	2630	6350
10	3760	5000	4020	9170	2070	5980	8980	4550	1990	2270	2570	6290
11	3860	4330	4820	7730	1700	4650	7570	3970	2850	2600	1830	5800
12	4380	4750	5660	7740	2680	11000	7010	3640	2710	3180	1320	5570
13	3860	6500	5470	7870	3190	15200	6530	3920	3120	2980	2260	4240
14	2770	6160	5790	8000	4450	13300	6180	4860	3590	2110	2220	3940
15	2860	5730	6000	7920	4990	11000	5930	5290	3680	1840	2450	3160
16	3820	5760	5750	8110	4510	10100	6040	4490	3190	2860	2560	2850
17	4230	5580	5120	5600	3460	9140	7040	4120	3030	3240	2570	3500
18	3780	4950	5870	6800	2820	8060	8540	4650	3390	3270	1580	3290
19	4100	5030	6610	6600	3810	8680	8780	5480	3390	2810	1310	3310
20	3540	4770	7100	6400	4180	7610	8150	5490	2900	3180	2060	3260
21	2770	4830	6530	6000	3940	7260	7540	5410	3140	1780	2630	3210
22	3230	4320	6780	6200	3920	6270	8020	4650	3020	1780	3350	2780
23	3610	3930	7160	6400	4720	6560	8990	3470	2620	2910	3350	2750
24	3880	4530	6350	6600	5190	6000	9340	3440	2370	2520	2820	2900
25	3980	3620	6390	5200	6170	5290	8520	3280	2770	2450	2120	2620
26	4300	3140	5500	4870	8610	5550	7630	2980	2650	2790	1720	3230
27	4090	4280	4830	3640	8350	5720	6850	2750	3030	2650	2700	4320
28	2690	4500	5780	3150	8830	5940	6160	2920	2660	1210	2980	5310
29	3040	4590	6770	4900	---	7770	5350	3530	3200	1700	2840	6440
30	4490	5230	14600	4970	---	10300	4590	3190	2750	2310	2830	5500
31	3650	---	21000	4680	---	11000	---	3190	---	2340	2830	---
TOTAL	115550	138650	202570	259960	123310	237440	231230	124960	87260	78910	74160	117590
MEAN	3727	4622	6535	8386	4404	7659	7708	4031	2909	2545	2392	3920
MAX	4700	6500	21000	17700	8830	15200	11600	5490	3680	3500	3350	6730
MIN	2550	2550	4020	3150	1700	4650	4590	2750	1990	1210	1310	1400

CAL YR 1984 TOTAL 2693940 MEAN 7360 MAX 35800 MIN 2100
WTR YR 1985 TOTAL 1791590 MEAN 4908 MAX 21000 MIN 1210

01331095 HUDSON RIVER AT STILLWATER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to 1975, 1977 to current year.
CHEMICAL DATA: 1969 (c), 1970-74 (d), 1975 (c), 1980 (b), 1981 (c), 1982-85 (e).
MINOR ELEMENTS DATA: 1972 (b), 1973-75 (a), 1977-79 (e), 1980 (c).
PESTICIDE DATA: 1977-79 (e), 1980 (a).
ORGANIC DATA: OC--1974 (a), 1975 (c).
PCB--1977-85 (e).
PCN--1977-79 (e), 1980 (a).
NUTRIENT DATA: 1969 (c), 1970-74 (d), 1975 (c), 1977-78 (e).
SEDIMENT DATA: 1977 (d), 1978 (a), 1981-85 (e).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: March 1977 to current year.

REMARKS.--Periods of missing sediment data are due to observer not collecting samples.

EXTREMES FOR PERIOD OF DAILY RECORD (Water years 1977-84).--
SUSPENDED-SEDIMENT CONCENTRATIONS: Maximum daily mean, 202 mg/L Dec. 14, 1983; minimum daily mean, 1 mg/L on many days each year.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 14,800 tons Dec. 14, 1983; minimum daily 4.0 Sept. 7, 1980.

WATER QUALITY DATA, SEPTEMBER 1984 TO AUGUST 1985

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	PCB, TOTAL (UG/L)	PCB, DIS-SOLVED (UG/L)	IDENTIFIED AROCLOR(S)
SEP 26	1500	4140	4	45	0.60	--	1016, 1221
OCT 30	1415	4380	6	71	0.04	--	1016, 1221
DEC 13	1130	5440	11	162	0.01	--	1016, 1221
MAR 11	1615	4430	5	60	0.02	--	1016, 1221
MAR 13	1345	15100	127	5180	0.03	--	1016, 1221
MAR 13	1700	15000	111	4500	0.05	--	1016, 1221
MAR 27	1415	4830	3	39	0.01	--	1016, 1221
APR 1	1345	9230	7	174	0.03	--	--
APR 19	1345	8770	4	95	0.01	--	1221, 1016
MAY 9	1500	4930	1	13	0.02	--	1221, 1016
MAY 17	1400	3660	4	40	0.10	--	1221, 1016
MAY 29	1445	3610	4	39	0.05	--	--
JUN 7	1500	2300	4	25	0.12	0.11	1221, 1016
JUN 19	1600	3520	6	57	0.20	--	--
JUL 24	1330	2050	4	22	0.15	--	1221, 1242
AUG 2	1730	2980	4	32	0.09	--	1221, 1242
AUG 6	1415	2680	5	36	0.20	0.14	1221, 1242
AUG 19	1245	1440	3	12	0.13	--	1221, 1242

01331095 HUDSON RIVER AT STILLWATER, NY--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			4	39	5	79					---	---
2			5	48	3	50					---	---
3			6	61	2	26					---	---
4			3	21	3	44					---	---
5			4	34	5	79					---	---
6			9	142	5	78					---	---
7			7	91	6	91					---	---
8			8	103	8	109					---	---
9			12	163	6	67					---	---
10			8	108	6	65					---	---
11			3	35	8	104					5	63
12			7	90	9	138					---	---
13			5	88	8	118					120	4920
14			3	50	8	125					---	---
15			5	77	6	97					---	---
16			4	62	6	93					---	---
17			2	30	5	69					---	---
18			3	40	5	79					---	---
19			3	41	9	161					---	---
20			2	26	15	288					---	---
21			8	104	12	212					---	---
22			8	93	13	238					---	---
23			6	64	11	213					---	---
24			6	73	10	171					---	---
25			8	78	---	---					---	---
26			3	25	---	---					---	---
27			6	69	---	---					3	46
28			4	49	---	---					---	---
29			6	74	---	---					---	---
30			4	56	---	---					---	---
31			---	---	---	---					---	---
TOTAL			---	2019	---	2794					---	4989

DAY	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---		
2	---	---	---	---	---	---	---	---	4	30		
3	---	---	---	---	---	---	---	---	---	---		
4	---	---	---	---	5	37	---	---	---	---		
5	---	---	---	---	---	---	---	---	---	---		
6	---	---	4	36	---	---	---	---	5	32		
7	---	---	4	44	3	23	---	---	---	---		
8	---	---	7	96	3	23	---	---	---	---		
9	---	---	3	40	2	12	---	---	---	---		
10	2	48	3	37	---	---	---	---	---	---		
11	6	123	4	43	---	---	---	---	---	---		
12	7	132	2	20	---	---	---	---	---	---		
13	7	123	4	42	---	---	---	---	---	---		
14	5	83	7	92	---	---	---	---	---	---		
15	2	32	5	71	---	---	---	---	---	---		
16	2	33	4	48	---	---	---	---	---	---		
17	3	57	4	44	---	---	---	---	---	---		
18	10	231	1	13	---	---	---	---	---	---		
19	4	95	2	30	6	55	---	---	3	11		
20	2	44	2	30	---	---	---	---	---	---		
21	2	41	6	88	---	---	---	---	---	---		
22	5	108	4	50	---	---	---	---	---	---		
23	6	146	2	19	5	35	---	---	---	---		
24	6	151	4	37	4	26	4	27	---	---		
25	6	138	3	27	5	37	---	---	---	---		
26	4	82	2	16	2	14	---	---	---	---		
27	3	55	3	22	3	25	---	---	---	---		
28	3	50	2	16	5	36	---	---	---	---		
29	---	---	3	29	6	52	---	---	---	---		
30	---	---	---	---	4	30	---	---	---	---		
31	---	---	---	---	---	---	---	---	---	---		
TOTAL	---	1772	---	990	---	405	---	27	---	73		

01332500 HOOSIC RIVER NEAR WILLIAMSTOWN, MASS.

LOCATION.--Lat 42°42'01", long 73°09'34", Berkshire County, Hydrologic Unit 02020003, on left bank 0.3 mi downstream from Sherman Brook and 2.7 mi east of junction of U.S. Highway 7 and State Highway 2 in Williamstown.

DRAINAGE AREA.--126 mi^2.

PERIOD OF RECORD.--Discharge: July 1940 to current year.
Water-quality records: Water years 1953-54, 1957-58, 1967-69.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 616.11 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers benchmark). Prior to June 6, 1979, at site 1.2 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 13 and Feb. 16-22. Records good except those for estimated daily discharges, which are fair. Prior to 1966, slight diurnal fluctuation at low flow caused by mills upstream. Some regulation by Cheshire Reservoir 16 mi upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--45 years, 272 ft^3/s, 29.32 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft^3/s Dec. 31, 1948, gage height, 14.85 ft, former site and datum, from rating curve extended above 4,300 ft^3/s on basis of contracted-opening measurement of peak flow; minimum, 5.8 ft^3/s Aug. 30, 31, Oct. 26, 1940; minimum daily, 24 ft^3/s Sept. 9, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	1815	*2,480	*8.24	No other peak greater than base discharge.			

Minimum discharge, 37 ft^3/s Aug. 24, 25; minimum daily, 45 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	74	214	382	86	317	380	124	112	143	187	104
2	116	77	181	586	86	298	328	122	102	110	119	75
3	115	73	162	376	85	270	300	136	93	97	97	70
4	103	66	162	274	81	200	312	153	84	96	84	66
5	107	155	137	261	80	240	391	141	77	84	76	60
6	88	180	140	208	85	222	758	170	79	81	74	89
7	70	123	138	216	82	195	637	277	79	83	63	129
8	68	107	120	183	76	201	468	187	82	80	121	90
9	73	100	128	133	78	223	391	164	83	76	100	84
10	66	127	116	130	80	215	321	145	80	73	79	106
11	63	143	128	130	76	238	292	142	77	68	70	98
12	61	613	141	130	94	1570	275	133	94	66	61	78
13	59	365	184	130	480	1030	254	137	107	75	59	69
14	53	239	284	130	281	605	256	120	102	114	56	63
15	58	191	204	130	202	463	270	113	87	159	59	63
16	65	186	177	125	160	375	282	108	86	193	71	60
17	63	172	198	115	145	358	269	108	248	106	60	60
18	62	152	247	120	130	321	229	309	215	80	54	60
19	57	142	221	120	120	273	243	266	162	73	52	59
20	59	122	233	115	115	285	223	207	127	62	53	54
21	53	117	190	110	110	279	214	172	114	60	53	54
22	70	103	231	110	125	248	200	152	95	57	51	51
23	113	100	243	105	230	254	211	130	83	53	50	48
24	91	100	191	100	468	254	184	118	90	54	45	59
25	77	97	180	100	888	251	174	103	87	52	86	86
26	113	98	142	96	549	227	165	98	82	216	116	75
27	113	104	131	95	445	226	158	99	79	497	104	851
28	93	102	151	92	353	461	145	134	155	161	76	869
29	91	329	533	88	---	765	138	160	300	112	71	319
30	90	300	862	85	---	581	132	112	193	96	72	186
31	83	---	447	81	---	426	---	102	---	95	150	---
TOTAL	2444	4857	6816	5056	5790	11871	8600	4642	3454	3372	2469	4135
MEAN	78.8	162	220	163	207	383	287	150	115	109	79.6	138
MAX	116	613	862	586	888	1570	758	309	300	497	187	869
MIN	51	66	116	81	76	195	132	98	77	52	45	48
CFSM	.63	1.29	1.75	1.29	1.64	3.04	2.28	1.19	.91	.87	.63	1.10
IN.	.72	1.43	2.01	1.49	1.71	3.50	2.54	1.37	1.02	.00	.73	1.22

CAL YR 1984 TOTAL 116416 MEAN 318 MAX 3910 MIN 47 CFSM 2.52 IN. 34.37
WTR YR 1985 TOTAL 63506 MEAN 174 MAX 1570 MIN 45 CFSM 1.38 IN. 18.75

01333000 GREEN RIVER AT WILLIAMSTOWN, MASS.

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

DRAINAGE AREA.--42.6 mi^2.

PERIOD OF RECORD.--Discharge: September 1949 to current year.
Water-quality records: Water years 1967-69.

REVISED RECORDS.--WDR MA-RI-84-1: 1977-78(P), 1979, 1980-83(P).

GAGE.--Estimated daily discharges: Dec. 6-9, 25-27, Jan. 6, 9-17, 20-23, Jan. 26 to Feb. 5, Feb. 7-12, 15-17, and 19-21. Records good except those for estimated daily discharges, which are fair. Slight diurnal fluctuation at times caused by mill upstream. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--36 years, 82.6 ft^3/s, 26.33 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,060 ft^3/s Dec. 21, 1973, gage height, 5.68 ft in gage well, from rating curve extended above 750 ft^3/s on basis of slope-area measurement at gage height 4.94 ft; maximum gage height, 6.35 ft Mar. 13, 1977, from floodmarks, gage height in well unknown; minimum discharge, 3.1 ft^3/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, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 850 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 12	1045	*1,130	*3.97	No other peak greater than base discharge.			

Minimum discharge, 6.8 ft^3/s Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	15	44	104	23	114	87	40	35	39	34	16
2	28	16	40	114	24	105	81	38	29	32	22	13
3	19	15	42	95	22	89	76	42	27	29	20	13
4	16	14	47	84	21	71	81	39	25	29	18	12
5	14	31	40	78	22	83	85	38	24	24	16	11
6	12	30	39	67	23	73	130	51	24	22	15	26
7	12	24	36	70	22	72	122	83	23	27	14	29
8	11	22	36	63	20	71	111	53	24	22	20	20
9	11	20	36	42	19	81	99	49	23	20	16	20
10	11	31	37	42	21	85	86	47	21	18	14	22
11	11	31	45	42	21	94	81	44	18	17	13	21
12	10	172	50	43	23	706	75	42	26	17	13	17
13	9.9	95	84	45	164	395	70	40	23	19	12	16
14	9.7	70	87	45	65	259	70	37	21	19	11	14
15	9.3	58	76	45	47	196	69	34	19	16	11	13
16	9.1	55	71	42	40	157	70	33	20	37	15	13
17	8.9	49	72	41	39	144	66	33	47	21	11	12
18	8.8	45	71	41	38	126	63	109	34	18	10	11
19	8.8	42	73	40	35	105	64	74	27	16	9.8	11
20	11	37	77	37	34	103	60	64	23	14	11	11
21	10	34	67	36	32	90	56	56	25	13	9.3	9.8
22	17	32	82	34	44	80	61	51	21	13	8.6	9.2
23	24	31	77	33	97	77	62	47	19	12	8.3	8.8
24	17	31	69	32	211	74	55	44	22	11	7.7	11
25	15	29	60	31	293	69	53	39	20	11	19	14
26	24	28	52	29	178	63	51	37	20	67	17	11
27	21	27	51	27	156	62	49	35	19	79	15	161
28	18	27	62	27	122	78	47	47	39	31	12	104
29	19	55	117	22	---	118	45	43	78	23	11	52
30	17	48	129	20	---	102	42	35	52	20	13	38
31	16	---	105	21	---	85	---	31	---	23	27	---
TOTAL	436.3	1214	1974	1492	1856	4027	2167	1455	828	759	453.7	739.8
MEAN	14.1	40.5	63.7	48.1	66.3	130	72.2	46.9	27.6	24.5	14.6	24.7
MAX	28	172	129	114	293	706	130	109	78	79	34	161
MIN	7.8	14	36	20	19	62	42	31	18	11	7.7	8.8
CFSM	.33	.95	1.50	1.13	1.56	3.05	1.69	1.10	.65	.58	.34	.58
IN.	.38	1.06	1.72	1.30	1.62	3.52	1.89	1.27	.72	.66	.40	.65

CAL YR 1984 TOTAL 33912.0 MEAN 92.7 MAX 1500 MIN 7.0 CFSM 2.18 IN. 29.61
WTR YR 1985 TOTAL 17401.8 MEAN 47.7 MAX 706 MIN 7.7 CFSM 1.12 IN. 15.20

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 downstream from highway bridge on dirt road, 1.0 mi downstream from Petersburg, and 4.9 mi upstream from mouth.

DRAINAGE AREA.--56.1 mi^2.

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

REVISED RECORDS.--WSP 1702: 1959.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 587.40 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 4 to Feb. 12, and Mar. 4-7. Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--34 years, 94.5 ft^3/s, 22.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,000 ft^3/s June 30, 1973, gage height, 9.20 ft; minimum, 1.9 ft^3/s Sept. 11, 12, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 31, 1948, reached a stage of 9.4 ft, from floodmarks, discharge, 7,470 ft^3/s, on basis of contracted-opening measurements of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 12	1100	*1,440	*5.25	No other peak greater than base discharge.			

Minimum discharge, 5.5 ft^3/s Sept. 23, 24, gage height, 1.34 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	23	79	145	14	191	105	51	53	25	26	9.6
2	35	23	74	148	14	169	103	48	40	22	15	8.4
3	25	22	78	126	14	140	98	49	35	20	13	8.0
4	25	21	86	110	14	105	108	47	31	23	11	7.4
5	18	55	75	88	14	100	117	44	29	18	11	7.4
6	16	53	80	80	14	98	147	57	28	23	9.8	13
7	15	42	71	70	14	96	146	120	25	24	10	16
8	15	38	79	58	14	101	142	78	25	18	13	10
9	14	37	67	52	14	112	132	73	24	16	10	9.9
10	14	58	74	47	18	117	118	70	22	15	8.9	10
11	13	69	92	40	30	141	111	66	19	14	8.4	9.5
12	13	311	95	34	50	930	102	65	28	14	8.3	8.5
13	13	220	152	30	414	593	93	60	26	15	7.6	8.1
14	12	169	153	26	241	416	91	54	23	47	7.3	7.6
15	12	145	140	24	187	314	87	49	19	33	7.5	7.2
16	12	148	133	22	155	241	83	45	39	29	11	6.9
17	12	126	127	21	130	214	77	61	86	20	8.4	6.8
18	11	113	117	19	96	174	75	270	63	16	7.6	6.5
19	11	103	120	18	56	146	76	146	45	14	7.2	6.3
20	13	89	126	17	44	141	71	116	34	13	7.7	6.0
21	12	81	107	16	43	124	68	98	30	12	7.2	5.9
22	16	74	151	16	54	110	78	87	25	11	6.9	5.8
23	24	70	133	15	130	104	82	78	23	10	6.6	5.6
24	18	67	116	15	411	99	72	70	22	9.7	6.3	5.8
25	16	63	114	14	547	91	70	63	20	9.3	15	7.0
26	34	59	98	14	366	82	68	56	22	48	13	6.0
27	28	55	95	14	310	80	65	53	20	55	10	66
28	24	53	96	14	222	91	62	63	30	22	8.4	60
29	32	94	134	14	---	105	60	58	40	16	7.8	28
30	27	80	175	14	---	102	55	46	31	13	7.9	20
31	24	---	138	14	---	98	---	40	---	16	12	---
TOTAL	566	2561	3375	1335	3630	5625	2762	2281	957	641.0	309.8	383.2
MEAN	18.3	85.4	109	43.1	130	181	92.1	73.6	31.9	20.7	9.99	12.8
MAX	35	311	175	148	547	930	147	270	86	55	26	66
MIN	11	21	67	14	14	80	55	40	19	9.3	6.3	5.6
CFSM	.33	1.52	1.94	.77	2.32	3.23	1.64	1.31	.57	.37	.18	.23
IN.	0.38	1.70	2.24	0.89	2.41	3.73	1.83	1.51	0.63	0.43	0.21	0.25

CAL YR 1984 TOTAL 46116 MEAN 126 MAX 2240 MIN 11 CFSM 2.25 IN. 30.58
WTR YR 1985 TOTAL 24426.0 MEAN 66.9 MAX 930 MIN 5.6 CFSM 1.19 IN. 16.20

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 downstream from Paran Creek and 1.4 mi south of North Bennington.

DRAINAGE AREA.--111 mi^2.

PERIOD OF RECORD.--Discharge: June 1931 to current year.
Water-quality records: Water years 1953-54.

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

GAGE.--Water-stage recorder. Elevation of gage is 525 ft, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 4-9, 22-26, Jan. 5, 7, Jan. 9 to Feb. 12, Mar. 5-10, Apr. 31 to June 11, June 27 to July 28. Records good except for estimated daily discharges, 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 and specific conductance were made during the year.

AVERAGE DISCHARGE.--53 years, 222 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,450 ft^3/s Sept. 21, 1938, gage height, 12.04 ft, from rating curve extended above 2,800 ft^3/s on basis of contracted-opening measurements at gage heights 10.13 ft, 10.49 ft, 11.50 ft, and 12.04 ft and slope-area measurement and computation of flow over dam at gage height 12.04 ft; minimum, 4 ft^3/s Sept. 27, 1932; minimum daily, 21 ft^3/s Sept. 22, 23, 1964, July 12, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Sept. 27	1600	*1,600	*5.00				

Minimum daily discharge, 38 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	122	253	347	85	252	364	140	120	230	202	85
2	243	122	214	453	84	238	320	135	115	140	94	67
3	182	116	196	330	84	212	273	130	110	125	71	62
4	188	103	180	258	82	161	254	140	100	115	63	56
5	121	263	170	220	82	170	305	150	98	105	56	51
6	94	291	160	198	80	180	645	170	92	100	52	127
7	85	186	150	180	80	150	586	250	88	115	54	192
8	80	149	140	178	80	155	424	200	84	105	103	106
9	80	136	135	165	80	170	349	160	94	100	75	107
10	77	200	145	155	80	180	287	150	86	95	60	158
11	75	201	170	150	80	209	262	140	80	90	54	115
12	73	741	177	145	150	894	242	140	136	85	51	87
13	71	504	224	145	472	760	239	130	182	130	47	74
14	71	355	295	135	283	486	255	130	154	180	44	68
15	69	283	224	130	184	373	276	125	112	250	47	64
16	66	299	195	125	145	300	340	120	132	300	80	60
17	66	280	219	120	126	278	336	180	419	230	65	58
18	71	233	252	115	116	251	271	350	324	150	52	55
19	73	209	225	110	108	214	286	450	245	100	47	52
20	85	182	217	110	103	222	267	350	176	85	45	51
21	77	164	187	108	98	218	249	230	224	75	44	53
22	96	153	170	105	114	194	250	200	151	65	42	50
23	141	145	160	100	178	193	240	170	121	60	41	47
24	110	144	150	98	373	198	208	150	109	56	38	48
25	92	139	140	96	664	196	192	135	98	54	76	78
26	121	131	130	94	451	176	180	130	95	200	134	65
27	121	130	126	92	361	167	168	120	90	580	90	413
28	103	145	153	90	283	348	160	130	200	200	66	604
29	239	368	424	88	---	697	156	150	450	80	68	240
30	181	339	750	86	---	600	144	140	400	61	68	147
31	140	---	409	86	---	461	---	130	---	70	103	---
TOTAL	3351	6833	6740	4812	5106	9303	8528	5425	4885	4331	2132	3440
MEAN	108	228	217	155	182	300	284	175	163	140	68.8	115
MAX	243	741	750	453	664	894	645	450	450	580	202	604
MIN	60	103	126	86	80	150	144	120	80	54	38	47

CAL YR 1984 TOTAL 103096 MEAN 282 MAX 2890 MIN 56
WTR YR 1985 TOTAL 64886 MEAN 178 MAX 894 MIN 38

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 upstream from Case Brook, 1.2 mi downstream from Walloomsac River, and 1.2 mi southeast of Eagle Bridge.

DRAINAGE AREA.--510 mi^2.

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 above National Geodetic Vertical Datum of 1929. Prior to March 1922, nonrecording gage and July 24, 1923 to July 18, 1936, water-stage recorder, at site 0.2 mi upstream at different datums.

REMARKS.--Estimated daily discharges: Jan. 4 to Feb. 13, Feb. 23-24, Mar. 5-7, and Sept. 17-25. Records good except those for estimated daily discharges, which are poor. Diurnal fluctuation at medium and low flow caused by powerplants upstream from station. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--73 years (1911-21, 1924-85), 945 ft^3/s, 25.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,400 ft^3/s Dec. 31, 1948, gage height, 21.15 ft, from highwater mark in gage house, from rating curve extended above 13,000 ft^3/s on basis of peak flow over downstream dams and contracted-opening measurements at gage heights 17.8 ft and 21.15 ft; minimum discharge, 24 ft^3/s Sept. 14, 1913; minimum daily, 30 ft^3/s Sept. 14, 1913.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 12	1615	*10,800	*9.94	No other peak greater than base discharge.			

Minimum discharge, 112 ft^3/s Aug. 23, 24; minimum daily, 121 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	354	877	1470	310	1420	1310	485	424	468	455	303
2	344	328	760	1990	310	1310	1190	462	406	383	374	234
3	495	317	689	1540	310	1150	1070	450	354	343	271	228
4	465	305	737	1000	310	881	1070	480	327	324	227	203
5	373	513	654	800	310	800	1130	461	307	300	234	194
6	290	818	642	640	310	900	1980	492	309	270	205	217
7	273	586	624	560	310	800	2270	867	295	303	196	416
8	252	484	553	520	310	826	1630	644	278	279	282	291
9	283	439	577	470	310	910	1400	547	304	253	300	271
10	250	513	562	440	310	970	1170	504	316	238	230	336
11	236	592	647	410	330	1100	1060	481	266	230	183	336
12	229	2320	722	400	400	6440	971	459	333	222	207	267
13	232	2070	930	400	1700	5680	890	454	456	256	176	232
14	197	1400	1310	390	2550	3310	877	433	406	249	168	189
15	238	1100	1090	380	1680	2460	902	395	333	492	168	197
16	219	1100	955	370	1360	1860	956	373	319	450	216	209
17	211	1030	925	360	1170	1700	956	410	1130	365	204	166
18	210	877	1050	350	1090	1470	817	1590	827	270	177	165
19	214	794	969	350	986	1210	850	1320	722	232	176	164
20	211	696	1050	350	912	1260	792	931	517	209	166	150
21	224	626	889	340	846	1170	722	721	517	192	160	140
22	262	580	1020	330	891	1020	732	630	426	182	151	140
23	350	546	1130	330	940	998	779	561	355	177	144	130
24	360	534	909	330	1900	958	678	508	334	164	121	130
25	290	519	897	320	3950	897	639	461	323	144	176	160
26	343	492	711	320	2680	785	619	419	305	164	355	150
27	415	476	608	310	2140	763	586	438	299	1020	306	447
28	347	480	717	310	1640	989	558	523	329	487	246	2850
29	477	859	1290	310	---	2110	550	603	816	323	215	862
30	463	1220	2910	310	---	1880	512	456	634	249	213	529
31	372	---	1800	310	---	1470	---	403	---	258	246	---
TOTAL	9341	22968	29204	16710	30265	49497	29666	17961	12967	9496	6948	10306
MEAN	301	766	942	539	1081	1597	989	579	432	306	224	344
MAX	495	2320	2910	1990	3950	6440	2270	1590	1130	1020	455	2850
MIN	197	305	553	310	310	763	512	373	266	144	121	130
CFSM	.59	1.50	1.85	1.06	2.12	3.13	1.94	1.14	.85	.60	.44	.67
IN.	0.68	1.68	2.13	1.22	2.21	3.61	2.16	1.31	0.95	0.69	0.51	0.75

CAL YR 1984 TOTAL 452767 MEAN 1237 MAX 19800 MIN 166 CFSM 2.43 IN. 33.03
WTR YR 1985 TOTAL 245329 MEAN 672 MAX 6440 MIN 121 CFSM 1.32 IN. 17.89

01335754 HUDSON RIVER ABOVE LOCK 1 NEAR WATERFORD, NY

LOCATION.--Lat 42°49'45", long 73°40'00", Saratoga County, Hydrologic Unit 02020003, 0.4 mi upstream from dam at Lock 1c and 3.4 mi downstream from dam at Lock 2c Champlain (Barge) Canal.

DRAINAGE AREA.--4,611 mi^2.

PERIOD OF RECORD.--October 1976 to current year. Prior to October 1981 published as 01335770 Hudson River at Waterford, NY.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to February 1978, nonrecording gage 200 ft downstream of this site.

REMARKS.--Estimated daily discharges: Dec. 7, Jan. 11 to Feb. 11, Feb. 17, 21, 27, and May 6. Records good except those for estimated daily discharges and those for discharges below 4,500 ft^3/s, which are fair. Streamflow affected by regulation for power generation and diversion for canal operations.

AVERAGE DISCHARGE.--9 years, 8,090 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 71,800 ft^3/s Mar. 15, 1977; minimum daily, 1,170 ft^3/s July 25, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,600 ft^3/s Mar. 13, gage height, 26.23 ft; maximum gage height, 31.03 ft Nov. 13; minimum daily discharge, 1,600 ft^3/s Aug. 5, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2780	4030	6890	19100	5690	9390	11200	5240	3600	3190	3310	2330
2	4450	4280	7110	21300	5300	8970	10200	4760	2790	3680	3220	1840
3	4870	4160	5900	20000	4210	8460	9230	4360	2870	3240	2520	2650
4	4630	3270	6330	16800	3700	6230	8740	4020	2980	2880	1870	2600
5	4930	3400	6710	14600	4320	6670	7750	3800	3530	2540	1600	2540
6	5160	6610	6620	12500	4010	6700	8410	4060	3300	2770	2440	3580
7	3560	5650	6550	11700	4370	7370	12700	4590	3070	2640	2510	5430
8	3430	5370	5690	11700	4390	7250	14000	5650	3150	2260	2990	6720
9	4580	5730	4740	11100	3920	7190	12400	5310	2410	3680	2700	6430
10	4150	5710	4720	9510	2530	7380	10700	5060	2180	2690	2540	6170
11	4020	5120	5360	8340	2200	6160	9120	4610	2990	2660	2090	5800
12	4660	6070	6450	8340	3250	17700	8420	4060	3070	3330	1750	5460
13	4270	8800	6450	8470	3500	28500	7900	4480	3650	3040	2140	4380
14	3250	7890	7140	8590	4950	20800	7380	5140	4120	2370	2270	3770
15	2800	7100	7350	8490	6590	16200	6970	5500	3800	2260	2430	3100
16	3960	7010	6990	8670	6060	13400	7260	4980	3910	3340	2620	2820
17	4540	6850	6250	6100	5220	11900	7940	4400	3670	3680	2510	3560
18	3900	6210	6730	5200	3190	10500	9540	5540	4810	3490	2020	3250
19	4400	6020	7710	7100	4440	10600	9720	7250	4590	2820	1600	3170
20	3940	5750	8370	6900	4980	9520	9380	6780	3430	3250	2020	3060
21	3240	5740	7540	6500	5210	9020	8450	6380	3760	2170	2330	2940
22	3640	5260	7920	6700	4520	7810	8840	5580	3580	1960	3160	2510
23	4040	4780	8730	6900	5270	8000	10100	4220	3290	2900	3200	2690
24	4200	5340	7670	7100	6400	7400	10300	4130	2350	2470	2710	2650
25	4540	4570	7540	5700	11600	6530	9540	3850	3150	2360	2180	2470
26	4790	3860	6510	5350	14000	6690	8570	3380	2980	2840	1980	3400
27	4590	5060	5870	4110	11600	6530	7840	3370	3280	2830	2850	4430
28	3260	5290	6890	3610	11500	7080	7010	3470	2800	2320	3020	5950
29	3360	5360	7630	5360	---	9370	6320	4180	3640	2170	2680	6900
30	5200	6240	17700	5440	---	12500	5340	3820	3710	2520	2850	5800
31	4380	---	25000	5140	---	13100	---	3480	---	2400	2800	---
TOTAL	127520	166530	239060	286420	156920	314920	271270	145450	100460	86750	76910	118400
MEAN	4114	5551	7712	9239	5604	10160	9042	4692	3349	2798	2481	3947
MAX	5200	8800	25000	21300	14000	28500	14000	7250	4810	3680	3310	6900
MIN	2780	3270	4720	3610	2200	6160	5340	3370	2180	1960	1600	1840

CAL YR 1984 TOTAL 3350000 MEAN 9153 MAX 57300 MIN 2120
WTR YR 1985 TOTAL 2090610 MEAN 5728 MAX 28500 MIN 1600

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 upstream from bridge on U.S. Highway 4 in Waterford.

DRAINAGE AREA.--4,620 mi^2, approximately.

PERIOD OF RECORD.--Water years 1969 to 1976, 1985.
CHEMICAL DATA: 1969 (d), 1970-71 (e), 1972-73 (d), 1974 (e), 1976 (a), 1985 (e).
MINOR ELEMENTS DATA: 1971 (a), 1972-73 (b), 1974, 1976 (d).
PESTICIDE DATA: 1976 (c), 1985 (e).
ORGANIC DATA: PCB--1976 (c), 1985 (e).
PCN--1976 (b).
NUTRIENT DATA: 1969 (d), 1970-71 (e), 1972-73 (d), 1974 (e).

REMARKS.--Water discharge data based on records obtained above Lock 1 near Waterford (station 01335754) 2.9 mi upstream.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (CFS)	PCB, TOTAL (UG/L)	IDENTIFIED AROCLOR(S)
MAR 11	1415	6820	0.01	1016, 1221
MAR 13	1230	27100	0.15	1016, 1221
MAR 13	1745	25500	0.05	1016, 1221
MAR 15	0830	16500	0.01	1016, 1221
MAR 18	0630	11100	0.02	1016, 1221
MAR 22	1415	7360	0.02	1016, 1221
MAR 25	0800	6160	0.03	1016, 1221
MAR 27	1400	6030	0.01	1016, 1221
MAR 28	1520	6540	0.03	1016, 1221
APR 1	0830	11400	0.05	1016, 1221
APR 1	1430	11200	0.04	--
APR 5	0830	8180	0.02	--
APR 8	0645	14200	0.01	--
APR 15	0650	7030	0.03	--
APR 19	1030	9480	0.03	--
APR 19	1435	9480	0.01	--
APR 22	0730	8420	0.01	--
APR 26	0730	8750	0.02	--
APR 26	1710	8260	0.02	--
APR 29	0915	6710	0.02	--
MAY 3	0930	4450	0.08	--
MAY 9	1600	5050	0.10	--
MAY 13	0810	4420	0.04	1221, 1016
MAY 17	1100	3960	0.13	1221, 1016
MAY 17	1300	3670	0.02	--
MAY 20	0615	6930	0.10	1221, 1016
MAY 29	0620	3990	0.09	1221, 1016
MAY 31	0850	3230	0.05	1221, 1016
JUN 3	0900	2090	0.08	1221, 1016
JUN 7	0515	3060	0.06	1221, 1016
JUN 14	0820	4280	0.12	1221, 1242
JUN 17	0615	3400	0.09	1221, 1242
JUN 21	0715	3850	0.07	1221, 1242
JUN 24	0915	2040	0.07	1221, 1242
JUN 28	0815	2410	0.10	1221, 1242
JUL 5	0740	2020	0.10	1221, 1242
JUL 12	0640	3230	0.05	--
JUL 15	0730	1590	0.05	1221, 1242
JUL 19	0655	2830	0.17	1221, 1242
JUL 26	0750	3230	0.08	1221, 1242
AUG 2	1000	2830	0.08	1221, 1242
AUG 9	1000	2380	0.08	1221, 1242
AUG 12	0730	1780	0.04	1221, 1242
AUG 16	0945	2630	0.10	--
AUG 30	1000	2730	0.01	--
SEP 4	0945	2540	0.10	1221, 1242
SEP 9	0620	6610	0.01	--
SEP 13	1000	4350	0.02	--
SEP 27	0740	4350	0.02	--
SEP 30	1200	6010	0.02	--

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, 0.4 mi upstream from first branch of Mohawk River, and 2.8 mi downstream from dam at lock 1 of the Champlain (Barge) Canal.

DRAINAGE AREA.--4,620 mi².

PERIOD OF RECORD.--Water years 1975 to current year.
CHEMICAL DATA: 1975-76 (b), 1977 (c), 1978-79 (d), 1980-84 (e), 1985 (c).
MINOR ELEMENTS DATA: 1975-76 (c), 1977-79 (e), 1980-81 (d), 1982 (a), 1983 (b).
PESTICIDE DATA: 1975 (b), 1976 (d), 1977-79 (e), 1980, 1982 (a).
ORGANIC DATA: OC--1975-77 (c), 1978 (d), 1979 (c).
PCB--1975 (b), 1976 (d), 1977-84 (e), 1985 (c).
PCN--1977-79 (e), 1980, 1982 (a).
NUTRIENT DATA: 1975-76 (c), 1977-78 (e), 1979-81 (d).
BIOLOGICAL DATA:
Bacteria--1977 (c), 1978 (d), 1979 (e), 1980-81 (d).
SEDIMENT DATA: 1975 (b), 1976-77 (e), 1978 (a), 1979 (b), 1980 (c), 1981-85 (e).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: October 1976 to current year.

REMARKS.--Water discharge data based on records obtained above Lock 1 near Waterford (station 01335754) 3.2 mi upstream. No sediment data Oct. 21 to May 31 when bridge used for sampling was closed for repairs, and many days in Oct. and June to Sept. when observer did not collect samples.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean (water years 1977-84), 810 mg/L March 14, 1977; minimum daily mean, 1 mg/L on many days.
SUSPENDED-SEDIMENT DISCHARGE: Maximum daily (water years 1977-84), 119,000 tons March 14, 1977; minimum daily, 3.9 tons Sept. 7, 1981.

WATER QUALITY DATA, SEPTEMBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	PCB, TOTAL (UG/L)	IDENTIFIED AROCLOR(S)
SEP 26	1415	4980	4	54	0.38	1016, 1221
OCT 30	1500	5280	10	142	0.08	1016, 1221
JUN 7	1330	2540	12	82	0.07	1221, 1016
JUN 19	1700	4170	26	293	0.13	--
JUL 24	1200	2100	6	34	0.10	1221, 1242
AUG 2	1800	3260	8	70	0.09	1221, 1242
AUG 19	1330	1480	6	24	0.10	1221, 1242

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)	MEAN CONCEN-TRATION (MG/L)	SEDI-MENT DIS-CHARGE (T/DAY)
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14	105										
2	11	132										
3	7	92										
4	12	150										
5	8	106										
6	6	84										
7	6	58										
8	9	83										
9	7	86										
10	6	67										
11	14	152										
12	---	---										
13	9	104										
14	8	70										
15	8	60										
16	6	64										
17	7	86										
18	5	53										
19	6	71										
20	10	106										
21	---	---										
22	---	---										
23	---	---										
24	---	---										
25	---	---										
26	---	---										
27	---	---										
28	---	---										
29	---	---										
30	---	---										
31	---	---										

HUDSON RIVER BASIN

01335770 HUDSON RIVER AT WATERFORD, NY--Continued

SUSPENDED-SEDIMENT, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	APRIL MEAN CONCEN-TRATION (MG/L)	APRIL SEDI-MENT DIS-CHARGE (T/DAY)	MAY MEAN CONCEN-TRATION (MG/L)	MAY SEDI-MENT DIS-CHARGE (T/DAY)	JUNE MEAN CONCEN-TRATION (MG/L)	JUNE SEDI-MENT DIS-CHARGE (T/DAY)	JULY MEAN CONCEN-TRATION (MG/L)	JULY SEDI-MENT DIS-CHARGE (T/DAY)	AUGUST MEAN CONCEN-TRATION (MG/L)	AUGUST SEDI-MENT DIS-CHARGE (T/DAY)	SEPTEMBER MEAN CONCEN-TRATION (MG/L)	SEPTEMBER SEDI-MENT DIS-CHARGE (T/DAY)
1					6	58	7	60	8	71	---	---
2					6	45	6	60	8	70	---	---
3					9	70	8	70	5	34	5	36
4					7	56	---	---	7	35	---	---
5					---	---	---	---	8	34	---	---
6					9	80	6	45	7	40	---	---
7					10	83	7	50	11	74	---	---
8					8	68	10	61	5	40	---	---
9					9	58	8	79	5	36	---	---
10					6	35	9	65	7	48	6	100
11					7	56	---	---	11	62	---	---
12					7	58	6	54	9	42	7	103
13					---	---	7	57	6	35	4	47
14					6	67	8	51	7	43	4	41
15					8	82	7	43	7	46	7	58
16					---	---	9	81	4	28	5	38
17					---	---	10	99	11	74	4	38
18					8	104	9	85	6	32	5	44
19					8	99	6	46	6	26	4	34
20					---	---	10	88	---	---	---	---
21					---	---	8	47	7	44	---	---
22					8	77	12	64	5	43	6	41
23					9	80	---	---	---	---	5	36
24					7	44	6	40	---	---	6	43
25					9	76	---	---	---	---	6	40
26					8	64	9	69	5	27	4	37
27					---	---	9	69	5	38	6	72
28					---	---	5	31	---	---	6	96
29					---	---	6	35	---	---	8	149
30					---	---	11	75	6	46	7	81
31					---	---	---	---	7	53	---	---

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 downstream from Delta Dam, and 4.0 mi north of Rome.

DRAINAGE AREA.--152 mi^2, revised.

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 above Barge Canal datum. Prior to Jan. 24, 1937, nonrecording gage at site 200 ft downstream at same datum.

REMARKS.--Estimated daily discharges: June 24-25. 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. Flow regulated by Delta Reservoir (usable capacity, 2,800 mil ft^3). Small quantity of water diverted from Delta Reservoir for fish hatchery use and later returned to river, part upstream and part downstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--64 years, 377 ft^3/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,560 ft^3/s Oct. 2, 1945, gage height, 11.18 ft; minimum, 18 ft^3/s July 21, 27, Oct. 24, 25, 1983, minimum gage height, 0.63 ft Oct. 24, 25, 1983; minimum daily, 45 ft^3/s Jan. 17, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,720 ft^3/s Jan. 2, gage height, 6.52 ft; minimum, 27 ft^3/s Nov. 20, gage height, 0.78 ft; minimum daily, 105 ft^3/s Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	276	113	192	1610	698	248	1120	268	173	256	261	251
2	276	113	179	2240	698	335	1110	221	170	256	262	251
3	276	105	168	1290	689	363	1110	203	170	256	262	249
4	280	106	166	802	689	500	1110	203	170	256	262	249
5	276	172	163	592	689	625	1120	203	170	256	262	252
6	273	109	162	450	685	632	1120	209	169	256	261	239
7	273	126	163	377	681	632	1110	213	166	255	259	228
8	270	147	164	347	681	629	1110	208	165	253	259	226
9	270	147	163	499	676	627	1010	206	165	253	259	232
10	270	179	163	457	672	625	733	206	184	253	259	230
11	268	169	169	400	668	634	419	205	202	255	259	229
12	268	163	171	370	659	738	275	207	207	256	259	227
13	270	148	206	373	655	678	273	218	207	256	259	226
14	270	170	182	373	655	654	273	208	205	256	253	226
15	268	171	175	373	344	643	273	206	203	257	253	224
16	268	177	176	577	211	642	270	206	203	256	253	221
17	265	172	182	725	211	641	267	208	203	256	256	221
18	265	173	175	720	208	638	267	208	203	256	256	221
19	262	173	172	720	208	637	268	208	213	266	255	221
20	262	145	296	725	208	806	268	208	259	337	253	221
21	262	152	405	725	208	1000	268	210	257	337	253	221
22	262	152	438	720	208	1040	268	209	255	287	253	220
23	262	152	420	720	254	1080	268	208	259	268	253	219
24	259	153	411	716	350	1090	268	208	253	267	251	219
25	206	155	410	711	334	1080	268	207	253	265	252	219
26	186	154	407	707	268	1120	269	207	256	266	251	219
27	186	153	404	707	259	1130	268	208	256	265	251	368
28	184	154	432	703	248	1120	268	208	257	265	250	256
29	189	214	1330	703	---	1120	268	200	257	265	251	232
30	186	183	1220	703	---	1120	268	169	256	261	252	226
31	135	---	1230	703	---	1110	---	168	---	265	252	---
TOTAL	7723	4600	10694	21838	13014	23937	16187	6424	6366	8212	7931	7043
MEAN	249	153	345	704	465	772	540	207	212	265	256	235
MAX	280	214	1330	2240	698	1130	1120	268	259	337	262	368
MIN	135	105	162	347	208	248	267	168	165	253	250	219

CAL YR 1984 TOTAL 117828 MEAN 322 MAX 1610 MIN 103
WTR YR 1985 TOTAL 133969 MEAN 367 MAX 2240 MIN 105

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 downstream from bridge on old State Highway 28 at Kast Bridge, 1.2 mi downstream from North Creek, 2.2 mi north of Herkimer, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--560 mi^2, revised.

PERIOD OF RECORD.--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 height and discharge measurements only, May 1905 to December 1906.

GAGE.--Water-stage recorder. Datum of gage is 438.99 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 18, 1920, nonrecording gage at former highway bridge 500 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 29 and Jan. 18 to Feb. 23. Records poor. Since March 1914, flow regulated by Hinckley Reservoir, 31 mi upstream from station (usable capacity, 3,320 mil ft^3). Diurnal fluctuation at low and medium flow caused by powerplants upstream from station. Diversion at Trenton Falls, 26 mi upstream from station, by Ninemile feeder since 1915 during canal navigation season. Diversion from Hinckley Reservoir for Utica water supply returned to Mohawk River. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--65 years (1921-85), 1,316 ft^3/s, unadjusted.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 10,400 ft^3/s Dec. 29, gage height, about 6.1 ft; minimum discharge, 158 ft^3/s July 12; minimum daily discharge, 209 ft^3/s July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	654	506	1820	4470	740	2000	2120	1020	813	439	564	357
2	672	558	1660	4260	780	2220	1070	935	812	378	488	342
3	663	536	1380	3040	720	2050	1060	717	806	209	409	262
4	743	525	1240	2870	660	1770	1190	1130	793	374	216	410
5	647	1500	813	2560	570	1780	2580	852	771	544	270	441
6	1470	1280	1300	2470	600	1790	2890	904	639	468	384	712
7	1600	1040	1420	2490	660	1760	2530	1160	609	602	470	627
8	1520	889	1280	2420	540	1940	1880	1210	517	538	453	343
9	1270	1020	1290	2250	660	2310	1670	1370	309	607	406	359
10	678	2050	1350	2250	660	2310	1390	1130	380	401	344	511
11	508	1820	1400	2310	660	2550	869	920	491	217	353	536
12	368	1600	1660	2370	650	5430	781	811	486	340	336	486
13	500	959	2560	2430	720	3110	794	953	542	423	386	418
14	555	1110	2120	1950	750	2600	1480	1050	569	430	390	361
15	532	1170	1710	953	790	2000	1460	1070	446	426	404	382
16	563	1640	1720	834	740	1750	1950	991	448	496	444	387
17	326	1880	1800	897	670	1880	3550	1010	417	445	441	638
18	278	1840	1000	560	610	1880	3780	727	312	433	334	220
19	353	1760	1170	430	570	2090	3280	744	318	506	324	228
20	498	1600	1640	360	590	2110	3290	791	224	479	411	382
21	412	1360	1800	350	560	2100	3460	787	413	420	355	356
22	469	807	2100	380	700	2060	3800	932	541	436	390	359
23	494	652	2250	480	1500	2040	3800	769	634	509	359	332
24	504	592	2000	420	3600	2070	3360	727	591	520	317	407
25	560	703	1900	540	3310	2010	2620	720	553	466	333	495
26	638	719	1810	520	1710	1900	2260	857	581	521	395	448
27	639	721	1620	560	1520	1930	1920	735	522	440	381	1990
28	840	666	1900	590	1910	3040	1760	770	560	283	423	2170
29	1010	2150	7330	610	---	3040	1390	804	622	416	348	805
30	627	1530	4880	610	---	2480	1200	609	612	405	405	648
31	695	---	2670	580	---	2300	---	738	---	534	463	---
TOTAL	21286	35183	60593	47814	28150	70300	65184	27943	16331	13705	11996	16412
MEAN	687	1173	1955	1542	1005	2268	2173	901	544	442	387	547
MAX	1600	2150	7330	4470	3600	5430	3800	1370	813	607	564	2170
MIN	278	506	813	350	540	1750	781	609	224	209	216	220

CAL YR 1984 TOTAL 549456 MEAN 1501 MAX 7330 MIN 278
WTR YR 1985 TOTAL 414897 MEAN 1137 MAX 7330 MIN 209

HUDSON RIVER BASIN

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 downstream from Rocky Rift Dam, 2.1 mi upstream from East Canada Creek, and 4.5 mi southeast of city of Little Falls.

DRAINAGE AREA.--1,342 mi^2, revised.

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 above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Estimated daily discharges: Jan. 9-29. Records good except those for estimated daily discharges, which are poor. 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, 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 fluctation caused by powerplants and locks and dams on Erie (Barge) Canal. Regulation by Delta and Hinckley Reservoirs (combined usable capacity, 6,120 mil ft^3) (see Reservoirs in Hudson River Basin). Gage-height telemeter at station.

COOPERATION.--Figures of diversions at Rocky Rift Dam into Erie (Barge) Canal provided by New York State Department of Transportation.

AVERAGE DISCHARGE.--58 years, 2,796 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (river channel only), 33,100 ft^3/s Mar. 14, 1977, gage height, 19.17 ft, from high-water mark in gage house; minimum discharge (river channel only), 214 ft^3/s Aug. 18, 1949, gage height, 3.75 ft; minimum daily discharge (including canal), probably not less than 463 ft^3/s Sept. 2, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 16,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 29	2345	*18,000	*14.23	No other peak greater than base discharge.			

Minimum discharge (river channel only), 468 ft^3/s July 16, gage height, 4.37 ft; minimum daily (river channel only), 609 ft^3/s Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1070	1130	6160	11900	1730	4520	5070	1870	1240	1120	1310	859
2	1180	1020	5500	12600	1830	4650	4490	1690	1280	881	1110	760
3	1250	1010	4390	10300	1860	4600	4180	1450	1220	698	966	628
4	1360	953	3210	8940	1820	3610	4470	1680	1190	813	630	769
5	1360	2620	2390	6720	1720	3000	6360	1590	1180	922	658	1200
6	1750	4070	2490	4900	1620	3720	6970	1710	1060	967	761	1760
7	2100	2200	3230	4320	1710	3790	6310	2390	1070	944	857	1650
8	2020	1770	2280	4060	1790	3650	5060	2410	963	1030	845	999
9	1820	1630	2130	3500	2240	4330	4170	2230	803	1030	832	848
10	1280	3230	2350	2900	2160	4740	3600	1900	697	1010	786	986
11	1130	4310	2660	2500	1770	5490	2700	1660	961	797	697	1010
12	886	3620	3320	2400	1700	12500	2330	1480	1010	611	730	1040
13	945	2510	5540	2400	1830	11800	1870	1570	1190	786	752	880
14	963	2460	6680	2400	2060	10600	2520	1770	1180	856	782	819
15	1010	2220	4970	3000	2080	8320	2570	1610	1100	906	815	776
16	972	3030	4010	2500	1820	5870	2890	1580	1040	1120	1080	799
17	841	3770	3930	2000	1520	4940	4640	1660	1120	1070	867	885
18	705	3270	2920	1800	1380	4320	5310	1450	960	839	755	737
19	800	3050	2800	1800	1320	4130	4780	1330	899	975	713	609
20	1010	2640	3030	1800	1300	4250	4750	1290	749	938	768	742
21	986	2260	3190	1900	1260	4540	4880	1320	795	953	774	747
22	938	1580	3820	1900	1440	4390	5140	1440	1020	825	748	757
23	1060	1340	5460	1900	3290	4430	4770	1300	1050	1010	754	720
24	1030	1320	4900	1900	9660	4530	3580	1250	1010	944	752	778
25	1060	1310	4190	2000	12200	4430	2970	1210	958	903	756	1070
26	1190	1410	3780	1900	9630	4100	3510	1260	975	954	993	874
27	1260	1320	3320	1900	7570	4040	3030	1260	962	1080	846	5060
28	1310	1340	3510	1800	5770	5690	2720	1370	1020	798	842	9360
29	1630	4820	13300	1800	---	7090	1850	1380	1240	752	784	6560
30	1530	6830	14600	1900	---	6070	1910	1260	1330	849	765	2810
31	1260	---	11200	1960	---	5190	---	1220	---	995	930	---
TOTAL	37706	74043	145260	113600	86080	167330	119400	48590	31272	28376	25658	47492
MEAN	1216	2468	4686	3665	3074	5398	3980	1567	1042	915	828	1583
MAX	2100	6830	14600	12600	12200	12500	6970	2410	1330	1120	1310	9360
MIN	705	953	2130	1800	1260	3000	1850	1210	697	611	630	609
ǂ	14.9	3.9	0	0	0	0	0.2	17.7	21.6	23.3	19.8	18.1

CAL YR 1984 TOTAL 1124207 MEAN 3072 MAX 16200 MIN 705 ǂ 9.4
WTR YR 1985 TOTAL 924807 MEAN 2534 MAX 14600 MIN 609 ǂ 10.0

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

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 downstream from Niagara Mohawk Power Corp. Beardslee powerplant, 1.2 mi upstream from mouth, and 3.5 mi northwest of St. Johnsville.

DRAINAGE AREA.--289 mi^2, revised.

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

GAGE.--Water-stage recorder. Datum of gage is 335.70 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Extensive diurnal fluctuation and slight regulation caused by powerplants upstream from station. City of Little Falls diverts about 5 ft^3/s for municipal supply. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--39 years (1947-85), 679 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,300 ft^3/s Mar. 14, 1977, gage height, 7.42 ft; minimum, 0.05 ft^3/s July 9, 1978, gage height 0.47 ft; minimum gage height, 0.44 ft July 29, 1977; minimum daily, 0.22 ft^3/s July 9, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 2, 1945, reached a stage of 9.0 ft, from floodmarks (discharge, 24,000 ft^3/s, from slope-area measurement of peak flow).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 29	2400	*13,600	*7.68	No other peak greater than base discharge.			

Minimum discharge, 8.5 ft^3/s Dec. 12, gage height, 0.90 ft; minimum daily, 13 ft^3/s June 4, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	325	1380	2820	195	1110	2180	356	42	129	242	200
2	345	326	1320	4070	188	1040	1610	398	287	49	208	136
3	672	105	900	2370	170	961	1190	411	290	104	139	48
4	16	15	740	1500	194	806	1110	211	13	48	45	155
5	795	855	727	1240	250	688	1300	196	103	108	50	199
6	709	1070	463	912	223	259	2590	455	66	76	40	637
7	123	591	463	728	166	581	3850	820	17	109	76	548
8	131	748	373	688	210	565	2620	533	13	109	46	383
9	185	589	495	479	191	814	1830	435	67	102	46	543
10	51	647	522	372	79	326	1550	374	39	78	49	566
11	44	736	426	344	368	615	1280	204	43	75	46	350
12	44	742	307	379	308	1580	1030	250	138	75	43	419
13	42	743	465	188	448	2620	977	634	193	67	47	232
14	43	561	718	457	193	2040	997	389	48	170	48	45
15	517	524	970	497	294	1570	954	415	104	90	108	46
16	551	449	909	242	344	933	1260	510	43	79	48	141
17	14	740	753	182	255	915	2460	328	378	162	66	47
18	14	507	753	368	238	985	1930	329	79	76	44	45
19	73	373	894	235	301	342	1920	14	109	39	40	37
20	80	382	826	204	164	782	1890	70	164	41	48	46
21	49	387	757	242	168	686	1980	110	70	43	51	45
22	106	246	760	219	432	620	1850	106	342	43	48	43
23	364	318	761	244	686	676	1540	144	77	79	71	43
24	349	252	754	271	928	377	970	145	123	48	105	38
25	398	278	369	221	2450	768	879	194	70	71	15	42
26	391	404	275	338	2660	596	660	215	93	81	122	886
27	142	745	284	256	1850	732	525	80	45	72	177	576
28	143	493	503	255	1370	887	520	174	46	49	96	1080
29	368	464	5190	259	---	3940	524	104	241	77	45	1150
30	294	1540	8510	342	---	3440	250	194	47	43	41	859
31	326	---	3290	251	---	2690	---	229	---	116	190	---
TOTAL	7661	16155	35857	21173	15323	34944	44226	9027	3390	2508	2440	9585
MEAN	247	539	1157	683	547	1127	1474	291	113	80.9	78.7	320
MAX	795	1540	8510	4070	2660	3940	3850	820	378	170	242	1150
MIN	14	15	275	182	79	259	250	14	13	39	15	37

CAL YR 1984 TOTAL 258957 MEAN 708 MAX 8510 MIN 13
WTR YR 1985 TOTAL 202289 MEAN 554 MAX 8510 MIN 13

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 downstream from bridge on State Highway 163 in Fort Plain, and 0.5 mi upstream from mouth.

DRAINAGE AREA.--59.2 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 302.16 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1973, at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Oct. 1-2, Nov. 19-27, Dec. 4-8, 20-21, 24-28, Jan. 7 to Feb. 22, and Feb. 27 to Mar. 11. Records fair except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation at low flow. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--36 years, 85.1 ft^3/s, 19.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s Oct. 28, 1981, gage height, 11.44 ft in gage well, 12.0 ft from floodmarks, from rating curve extended above 3,200 ft^3/s on basis of contracted-opening measurement of peak flow at gage height 11.44 ft in gage well, 12.0 ft from floodmarks; minimum discharge, 0.6 ft^3/s Nov. 30, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 29	0330	2,400	5.69	Mar. 12	1030	*2,820	*6.10

Minimum discharge, 2.2 ft^3/s July 23, 24, gage height 0.02 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	10	76	396	11	66	173	20	10	6.2	21	7.3
2	5.3	9.0	60	400	11	48	227	18	10	4.9	6.9	4.7
3	5.8	8.2	43	150	11	40	179	18	8.6	4.5	4.7	4.0
4	7.7	6.9	40	95	11	36	238	16	7.7	4.2	4.2	3.8
5	5.2	54	30	78	11	45	203	15	7.7	4.0	3.8	19
6	4.5	42	24	65	11	58	189	24	9.0	3.8	3.7	26
7	4.0	22	33	56	11	48	128	76	8.2	3.8	3.5	12
8	4.0	16	41	47	11	52	96	41	6.5	4.0	3.5	7.3
9	4.2	13	48	40	11	66	79	29	6.5	3.7	3.2	5.4
10	4.2	24	43	34	11	120	66	24	7.7	3.8	2.9	4.9
11	4.2	28	48	29	12	200	64	20	5.5	3.8	2.9	4.5
12	4.2	21	89	26	14	1640	57	18	12	3.5	2.8	3.8
13	4.2	31	241	24	25	578	50	20	15	3.8	2.7	3.4
14	4.2	30	268	22	50	339	52	16	12	3.5	2.7	3.2
15	3.8	27	119	20	150	215	53	14	9.0	3.9	3.6	3.2
16	3.8	70	129	19	120	131	49	13	8.9	5.2	4.9	3.4
17	3.8	64	190	18	90	129	44	18	21	3.8	3.0	3.0
18	3.8	38	125	17	70	98	40	21	14	3.4	2.6	3.0
19	4.0	33	97	16	56	76	62	16	9.7	3.0	2.6	3.0
20	10	25	24	15	48	137	55	13	8.2	2.9	3.5	3.0
21	6.2	22	16	15	46	117	48	11	8.6	2.8	3.0	3.2
22	5.4	20	191	14	90	80	41	9.5	6.5	2.8	3.0	3.2
23	5.4	18	182	14	542	86	35	9.0	5.8	2.4	3.0	3.2
24	5.2	17	31	13	826	93	30	8.2	4.2	2.2	2.9	3.8
25	4.7	16	28	13	572	80	27	7.3	4.5	2.4	4.5	4.5
26	13	15	17	13	205	63	30	6.5	4.2	6.8	7.3	3.8
27	14	14	23	12	140	71	30	8.2	4.2	17	5.4	358
28	8.6	14	54	12	90	186	26	19	5.2	5.2	3.7	219
29	61	95	1240	12	---	204	26	20	13	3.8	3.6	56
30	22	88	434	12	---	137	22	12	12	3.5	3.9	32
31	14	---	178	11	---	103	---	10	---	8.0	10	---
TOTAL	255.0	891.1	4162	1708	3256	5342	2419	570.7	265.4	136.6	139.0	814.6
MEAN	8.23	29.7	134	55.1	116	172	80.6	18.4	8.85	4.41	4.48	27.2
MAX	61	95	1240	400	826	1640	238	76	21	17	21	358
MIN	3.8	6.9	16	11	11	36	22	6.5	4.2	2.2	2.6	3.0
CFSM	.14	.50	2.26	.93	1.96	2.91	1.36	.31	.15	.07	.08	.46
IN.	0.16	0.56	2.62	1.07	2.05	3.36	1.52	0.36	0.17	0.09	0.09	0.51

CAL YR 1984 TOTAL 30332.0 MEAN 82.9 MAX 1980 MIN 3.8 CFSM 1.40 IN. 19.06
WTR YR 1985 TOTAL 19959.4 MEAN 54.7 MAX 1640 MIN 2.2 CFSM .92 IN. 12.54

HUDSON RIVER BASIN

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 upstream from bridge on State Highway 23 in Prattsville, 0.2 mi upstream from Schoharie Reservoir, 0.2 mi downstream from Huntersfield, and 1.6 mi downstream from Batavia Kill.

DRAINAGE AREA.--236 mi^2.

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 1,134.98 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1915, nonrecording gage, and Oct. 1, 1915 to July 17, 1936, water-stage recorder, at old highway bridge 80 ft upstream, and July 18, 1936 to July 15, 1954, water-stage recorder at site 0.2 mi downstream, all at datum 1.56 ft lower than present datum.

REMARKS.--Estimated daily discharges: Nov. 20-23, Dec. 7-11, 26-27, Jan. 6, Jan. 9 to Feb. 22, and Mar. 1-2. Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature were made during the year. Gage-height telemeter at station. Intermittent water-quality data for this station are included in section "ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES".

AVERAGE DISCHARGE.--82 years, 461 ft^3/s, 26.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,200 ft^3/s Oct. 16, 1955, gage height, 19.14 ft, from rating curve extended above 16,000 ft^3/s on basis of contracted-opening measurement of peak flow; maximum gage height, 19.57 ft Mar. 5, 1979 (ice jam); minimum daily discharge, 4.8 ft^3/s Sept. 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	1915	*10,700	*9.31	No other peak greater than base discharge.			

Minimum discharge, 11 ft^3/s Aug. 24, gage height, 1.60 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	37	343	362	72	420	414	181	349	149	139	44
2	30	37	276	382	94	410	463	170	287	116	114	32
3	35	36	265	334	86	361	408	179	233	99	72	26
4	35	35	351	292	90	259	446	229	205	89	54	22
5	30	47	246	293	86	488	466	193	189	77	45	21
6	30	59	226	230	92	452	595	201	194	73	40	34
7	28	56	180	283	84	354	672	243	169	97	35	29
8	25	53	150	223	88	412	593	208	165	79	36	23
9	24	49	200	130	82	455	556	180	176	63	48	42
10	23	52	170	110	64	401	468	169	155	62	41	70
11	22	54	170	150	90	369	428	159	127	55	35	70
12	20	55	209	160	100	1100	391	149	121	53	30	50
13	20	65	291	140	140	1010	356	182	118	77	26	40
14	20	64	465	170	160	731	339	169	109	68	24	34
15	19	56	372	140	170	605	330	149	97	60	22	31
16	18	69	335	76	150	496	326	138	89	83	23	28
17	18	76	313	120	130	476	318	139	94	72	20	25
18	18	67	303	110	120	416	293	852	96	56	18	24
19	18	64	302	100	150	351	298	760	90	48	16	21
20	18	60	379	120	190	361	359	537	79	43	16	20
21	17	56	308	110	120	322	341	407	75	38	15	19
22	27	52	511	74	220	292	320	343	66	35	14	17
23	58	50	595	96	640	296	303	290	59	33	13	16
24	56	48	435	84	1450	278	284	249	53	29	12	17
25	44	51	389	96	1550	257	273	223	48	26	17	17
26	44	49	230	74	859	227	259	199	47	30	19	18
27	46	47	300	82	702	229	240	190	47	69	20	2590
28	45	48	325	94	516	259	222	342	60	60	17	2650
29	44	301	370	94	---	348	210	437	209	42	16	1060
30	41	447	449	84	---	388	193	283	218	35	16	541
31	39	---	378	58	---	360	---	231	---	38	34	---
TOTAL	936	2240	9836	4871	8295	13183	11164	8381	4024	1954	1047	7631
MEAN	30.2	74.7	317	157	296	425	372	270	134	63.0	33.8	254
MAX	58	447	595	382	1550	1100	672	852	349	149	139	2650
MIN	17	35	150	58	64	227	193	138	47	26	12	16
CFSM	.13	.32	1.34	.67	1.25	1.80	1.58	1.14	.57	.27	.14	1.08
IN.	0.15	0.35	1.55	0.77	1.31	2.08	1.76	1.32	0.63	0.31	0.17	1.20

CAL YR 1984 TOTAL 191329 MEAN 523 MAX 14800 MIN 17 CFSM 2.22 IN. 30.16
WTR YR 1985 TOTAL 73562 MEAN 202 MAX 2650 MIN 12 CFSM .86 IN. 11.60

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 north of junction of Intake Road and State Highway 23, 2.5 mi upstream from Gilboa Dam, and 2.6 mi east of Grand Gorge.

DRAINAGE AREA.--314 mi^2.

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. Supplementary nonrecording gage used for periods when reservoir elevation is below 1,072.50 ft. Datum of gage is National Geodetic Vertical Datum of 1929 (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 between minimum operating level, elevation, 1,050.00 ft, and crest of spillway, elevation, 1,130.00 ft. Dead storage below elevation 1,050.00, 1,968 mil gal. 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. Gage-height telemeter at station.

COOPERATION.--Capacity table and once-daily nonrecording gage readings provided by Department of Environmental Protection, City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 1,135.17 ft Oct. 16, 1955, contents, 21,597 mil gal; minimum observed (after initial filling), 1,062.00 ft Aug. 20, 1970, contents, 1,520 mil gal.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,113.00 ft June 5, contents, 13,883 mil gal; minimum observed, 1,071.21 ft Nov. 3, contents, 3,093 mil gal.

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

1,063.0	1,670	1,120.0	16,100
1,080.0	4,970	1,133.0	20,700

ELEVATION, IN FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1085.06	1071.60	1076.12	1089.19	1085.34	1086.73	1083.55	1101.98	1112.05	1104.71	1098.54	1089.87
2	1084.55	1071.39	1076.80	1089.89	1085.01	1086.05	1084.56	1101.97	1112.48	1104.51	1098.50	1089.61
3	1083.99	1071.33	1077.21	1090.49	1084.71	1085.35	1085.51	1101.93	1112.72	1104.31	1098.34	1089.34
4	1083.44	1071.45	1077.89	1090.87	1084.40	1084.64	1086.54	1101.97	1112.88	1104.12	1098.12	1089.06
5	1082.90	1071.66	1078.33	1091.26	1084.10	1084.18	1087.56	1102.01	1112.96	1103.91	1097.87	1088.82
6	1082.35	1071.85	1078.57	1091.40	1083.80	1084.04	1088.84	1102.04	1112.79	1103.78	1097.60	1088.64
7	1081.79	1071.95	1078.68	1091.59	1083.51	1083.34	1090.15	1102.15	1112.75	1103.72	1097.32	1088.43
8	1081.22	1072.04	1078.52	1091.76	1083.21	1082.72	1091.44	1102.23	1112.71	1103.61	1097.05	1088.19
9	1080.68	1072.10	1078.51	1091.65	1082.90	1082.55	1092.67	1102.24	1112.71	1103.44	1096.78	1087.96
10	1080.12	1072.19	1078.47	1091.37	1082.58	1082.17	1093.72	1102.27	1112.69	1103.27	1096.52	1087.93
11	1079.57	1072.28	1078.47	1091.17	1082.26	1081.64	1094.50	1102.31	1112.59	1103.07	1096.25	1087.81
12	1079.00	1072.37	1078.58	1091.02	1082.00	1082.15	1095.25	1102.33	1112.45	1102.84	1095.95	1087.63
13	1078.43	1072.47	1078.91	1090.89	1081.87	1084.69	1095.87	1102.37	1112.10	1102.69	1095.64	1087.41
14	1077.87	1072.58	1079.72	1090.74	1081.84	1085.96	1096.44	1102.44	1111.66	1102.53	1095.34	1087.17
15	1077.30	1072.61	1080.46	1090.61	1081.84	1086.19	1096.97	1102.46	1111.18	1102.38	1095.04	1086.91
16	1076.72	1072.70	1080.92	1090.35	1081.84	1086.17	1097.46	1102.54	1110.68	1102.25	1094.79	1086.65
17	1076.15	1072.83	1081.26	1090.06	1081.75	1085.96	1097.91	1102.64	1110.18	1102.09	1094.47	1086.39
18	1075.67	1072.92	1081.53	1089.80	1081.64	1085.80	1098.34	1103.51	1109.70	1101.90	1094.14	1086.12
19	1075.18	1072.98	1081.74	1089.54	1081.47	1085.59	1098.70	1105.57	1109.21	1101.69	1093.82	1085.84
20	1074.70	1072.99	1082.15	1089.28	1080.88	1084.42	1099.21	1106.91	1108.68	1101.46	1093.51	1085.56
21	1074.19	1072.98	1082.49	1089.01	1079.65	1083.69	1099.72	1107.81	1108.15	1101.22	1093.18	1085.29
22	1073.80	1072.96	1082.94	1088.67	1078.48	1083.08	1100.17	1108.48	1107.59	1100.97	1092.84	1085.00
23	1073.50	1072.92	1084.17	1088.34	1077.97	1082.89	1100.54	1108.99	1107.02	1100.69	1092.50	1084.71
24	1073.27	1072.90	1084.92	1088.01	1079.17	1082.73	1100.86	1109.38	1106.45	1100.40	1092.16	1084.44
25	1073.00	1072.90	1085.33	1087.70	1083.23	1082.57	1101.14	1109.61	1105.99	1100.12	1091.85	1084.16
26	1072.74	1072.89	1085.45	1087.36	1085.58	1082.43	1101.41	1109.76	1105.55	1099.84	1091.58	1083.85
27	1072.52	1072.88	1085.76	1087.02	1086.69	1082.26	1101.61	1109.88	1105.11	1099.65	1091.29	1084.82
28	1072.30	1072.87	1086.17	1086.71	1087.30	1082.16	1101.76	1110.16	1104.73	1099.44	1090.98	1095.53
29	1072.07	1073.32	1086.82	1086.39	---	1082.31	1101.87	1110.96	1104.61	1099.19	1090.67	1099.86
30	1071.85	1074.99	1087.70	1086.08	---	1082.63	1101.93	1111.46	1104.77	1098.92	1090.36	1101.82
31	1071.73	---	1088.55	1085.70	---	1082.99	---	1111.73	---	1098.66	1090.11	---
MEAN	1077.34	1072.53	1081.39	1089.48	1082.68	1083.87	1095.54	1105.23	1109.84	1101.98	1094.62	1088.16
MAX	1085.06	1074.99	1088.55	1091.76	1087.30	1086.73	1101.93	1111.73	1112.96	1104.71	1098.54	1101.82
MIN	1071.73	1071.33	1076.12	1085.70	1077.97	1081.64	1083.55	1101.93	1104.61	1098.66	1090.11	1083.85
‡	3168	3997	7127	6284	6642	5701	10635	13522	11433	9698	7402	10703
‡‡	-153	+42.8	+156	-42.1	+19.8	-47.0	+254	+144	-108	-86.6	-115	+170

CAL YR 1984 MEAN 1109.55 MAX 1132.83 MIN 1071.33 ‡‡ -46.8
WTR YR 1985 MEAN 1090.27 MAX 1112.96 MIN 1071.33 ‡‡ +18.9

‡ Contents, in million gallons, at 2400 hours on last day of month.
‡‡ Change in contents, equivalent in cubic feet per second.

01350101 SCHOHARIE CREEK AT GILBOA, NY

LOCATION.--Lat 42°23'50", long 74°27'03", Schoharie County, Hydrologic Unit 02020005, on left bank, 200 ft upstream from bridge on County Highway 322, 0.2 mi west of village of Gilboa, 0.4 mi downstream from dam on Schoharie Reservoir, and 0.8 mi upstream from the Platter Kill.

DRAINAGE AREA.--314 mi^2.

PERIOD OF RECORD.--October 1975 to current year (since October 1983, discharges only for days of Schoharie Reservoir spill).

GAGE.--Water-stage recorder. Datum of gage is 939.56 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Entire flow, runoff from 314 mi^2, except for periods of spill (no spillage this year), diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of city of New York. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,500 ft^3/s Mar. 21, 1980 determined by flow over dam computations at Schoharie Reservoir dam, gage height, 28.6 ft from floodmarks; minimum daily, 0.04 ft^3/s on many days, June to October 1976, and Sept. 11-13, 1980, but may have been lower since October 1983 (see PERIOD OF RECORD).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 32,000 ft^3/s Mar. 18, 1936, from information furnished by Bureau of Water Resources Development, City of New York.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15						NO SCHOHARIE RESERVOIR SPILLAGE THIS YEAR						
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
TOTAL												
MEAN												
MAX												
MIN												

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 upstream from culvert on County Highway 17, 0.5 mi upstream from mouth, and 0.6 mi northeast of Gilboa.

DRAINAGE AREA.--11.1 mi^2.

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

GAGE.--Water-stage recorder. Concrete control since Nov. 12, 1976. Elevation of gage is 1,110 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 20-23, Dec. 7-8, 26-27, Jan. 4-22, Feb. 28, and Mar. 4-7, 16. Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 15.2 ft^3/s, 18.60 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 690 ft^3/s Oct. 17, 1977, gage height, 4.54 ft; maximum gage height, 4.84 ft Feb. 12, 1982 (ice jam); minimum discharge, 0.32 ft^3/s Nov. 18, 1980 (result of freezeup); minimum gage height (subsequent to concrete control installation), 0.76 ft Nov. 18, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 12	1600	*53	*2.16	No other peak greater than base discharge.			

Minimum discharge, 1.0 ft^3/s Aug. 23, Sept. 3, 22, gage height, 0.84 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.5	4.6	8.1	2.9	13	15	5.4	7.1	4.0	2.5	1.4
2	2.1	1.6	4.2	8.0	2.9	12	16	5.1	5.9	3.5	1.6	1.3
3	1.9	1.5	4.7	7.1	2.8	10	14	5.1	5.1	3.4	1.5	1.2
4	1.8	1.9	5.1	7.0	2.7	10	14	4.9	4.8	3.2	1.4	1.2
5	1.6	3.8	4.3	6.6	2.7	13	19	4.7	5.2	2.9	1.4	2.4
6	1.5	2.2	4.3	6.2	2.8	11	20	5.8	5.1	2.9	1.3	2.6
7	1.5	1.7	4.2	5.6	2.7	11	17	6.0	4.4	3.1	1.3	1.8
8	1.5	1.6	4.0	5.6	2.7	14	17	5.2	4.4	2.7	1.5	1.4
9	1.5	1.6	3.7	5.4	2.6	16	16	4.7	4.4	2.5	1.3	3.2
10	1.5	1.8	3.7	5.2	2.5	15	14	4.4	4.0	2.4	1.3	2.6
11	1.5	1.7	4.1	4.8	2.5	18	13	4.2	3.6	2.3	1.3	1.7
12	1.5	1.7	4.6	4.7	3.0	42	13	4.0	6.4	2.6	1.2	1.4
13	1.5	2.1	7.7	4.6	3.7	34	12	3.9	6.3	2.8	1.2	1.4
14	1.5	1.9	8.1	4.5	3.0	29	12	3.7	5.9	2.3	1.2	1.3
15	1.5	1.9	6.9	4.3	2.9	26	11	3.6	4.8	2.4	1.5	1.3
16	1.5	2.8	6.2	4.0	2.8	23	11	3.6	4.5	2.7	2.0	1.2
17	1.5	2.4	5.9	3.7	2.8	22	9.8	3.9	4.2	2.1	1.3	1.2
18	1.5	2.0	5.5	3.4	2.7	19	9.2	18	4.8	1.9	1.2	1.2
19	1.5	1.9	6.1	3.2	2.6	17	9.4	11	4.2	1.8	1.2	1.2
20	1.4	1.8	7.1	3.0	2.6	16	11	8.2	4.1	1.8	1.2	1.1
21	1.4	1.6	6.4	2.8	2.5	14	9.6	7.0	3.7	1.7	1.2	1.2
22	2.0	1.6	11	2.5	2.9	13	8.7	6.4	3.4	1.6	1.2	1.1
23	2.4	1.8	11	2.2	5.4	12	8.3	5.7	3.3	1.5	1.1	1.1
24	1.8	1.9	8.7	3.0	17	11	7.7	5.3	3.4	1.5	1.2	1.3
25	1.6	2.0	7.9	3.3	31	11	7.5	5.0	3.1	1.4	1.4	1.2
26	2.1	1.9	7.0	3.2	20	9.9	7.3	4.7	3.1	3.0	1.6	1.2
27	2.0	1.9	6.2	3.1	18	9.6	6.7	5.1	2.9	2.7	1.3	15
28	1.7	1.9	7.0	3.1	16	12	6.4	10	4.9	1.6	1.2	8.2
29	2.0	7.6	9.2	3.0	---	13	6.2	9.9	6.5	1.5	1.2	5.2
30	1.8	4.3	9.0	2.8	---	12	5.7	7.1	4.9	1.4	1.6	3.6
31	1.6	---	7.5	2.9	---	12	---	6.0	---	2.4	1.8	---
TOTAL	51.9	65.9	195.9	136.9	168.7	500.5	347.5	187.6	138.4	73.6	43.2	71.2
MEAN	1.67	2.20	6.32	4.42	6.02	16.1	11.6	6.05	4.61	2.37	1.39	2.37
MAX	2.4	7.6	11	8.1	31	42	20	18	7.1	4.0	2.5	15
MIN	1.4	1.5	3.7	2.2	2.5	9.6	5.7	3.6	2.9	1.4	1.1	1.1
CFSM	.15	.20	.57	.40	.54	1.45	1.05	.55	.42	.21	.13	.21
IN.	0.17	0.22	0.66	0.46	0.57	1.68	1.16	0.63	0.46	0.25	0.14	0.24

CAL YR 1984 TOTAL 5506.1 MEAN 15.0 MAX 208 MIN 1.3 CFSM 1.35 IN. 18.45
WTR YR 1985 TOTAL 1981.3 MEAN 5.43 MAX 42 MIN 1.1 CFSM .49 IN. 6.64

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 upstream from bridge on State Highway 30, 0.6 mi upstream from mouth, and 3.0 mi southwest of North Blenheim.

DRAINAGE AREA.--16.3 mi^2.

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

GAGE.--Water-stage recorder. Concrete control since Sept. 23, 1975. Elevation of gage is 1,060 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 21, Dec. 7-10, 26, Jan. 6-29, Feb. 13-15, 23-24, 28, and Mar. 1, 4-9, 19, 21-22, 25-27. Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years (1976-85), 24.9 ft^3/s, 20.74 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,320 ft^3/s May 29, 1984, gage height, 3.81 ft; minimum, 0.10 ft^3/s Aug. 27, 28, 29, 30, 1980, gage height, 0.49 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 550 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 24	1145	ice jam	*2.72	Sept. 27	1615	*568	2.52

Minimum discharge, 0.32 ft^3/s Aug. 24, gage height, 0.53 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.7	22	26	4.3	37	47	6.3	17	6.5	4.8	2.6
2	2.4	1.8	17	27	4.3	31	45	5.7	9.9	4.7	1.8	1.4
3	2.4	2.0	18	21	4.3	26	35	5.2	7.3	4.0	1.1	1.0
4	2.8	1.4	22	22	4.3	70	35	5.2	5.9	3.6	.85	.86
5	2.2	6.8	16	20	4.1	52	40	4.4	6.4	2.8	.70	2.0
6	1.3	7.1	15	19	4.0	40	41	8.7	9.2	2.5	.57	6.3
7	1.4	4.3	14	18	4.0	34	34	11	6.3	5.1	.47	3.5
8	1.6	3.1	14	17	4.0	36	31	7.1	5.2	3.3	2.8	2.0
9	1.4	2.9	13	15	4.0	40	31	5.7	6.7	2.2	1.6	7.5
10	1.2	3.3	13	14	4.0	42	26	5.1	5.9	1.7	.95	10
11	1.1	3.8	14	13	3.7	44	25	4.6	3.9	1.6	.74	4.5
12	1.0	3.3	15	12	3.8	182	22	4.1	7.8	1.5	.68	2.3
13	.94	4.0	43	11	7.0	92	20	4.0	10	2.5	.53	1.6
14	.94	4.7	32	10	6.0	65	21	3.7	8.8	1.6	.45	1.3
15	.85	4.8	24	9.8	5.0	52	20	3.0	5.6	1.5	.47	1.1
16	.85	11	22	9.0	5.0	48	17	2.7	4.5	5.0	1.5	.95
17	.85	9.4	20	8.0	4.7	39	16	3.1	5.9	2.3	.77	.88
18	.85	6.1	18	7.0	4.7	33	14	27	8.2	1.4	.57	.77
19	.85	5.2	21	6.0	4.3	34	15	15	6.6	1.1	.48	.71
20	.87	3.5	24	5.4	4.3	29	19	11	5.1	.94	.52	.70
21	.95	3.7	18	5.0	4.0	26	15	8.2	7.3	1.0	.48	.65
22	1.6	3.4	40	5.0	5.8	25	13	7.2	4.6	.97	.41	.55
23	3.1	3.2	31	5.8	50	21	11	6.0	3.4	.66	.37	.53
24	2.0	3.2	22	5.8	140	21	11	5.3	3.3	.56	.34	.55
25	1.3	3.2	21	5.6	126	18	10	4.8	3.4	.48	.48	.55
26	2.9	3.6	20	5.4	58	17	10	4.3	2.3	1.7	1.3	.56
27	4.2	3.4	22	5.4	50	15	9.1	5.6	2.3	4.8	1.1	134
28	2.8	3.2	33	5.2	43	25	7.6	30	7.0	1.6	.81	64
29	3.1	42	30	5.0	---	29	7.6	20	16	.98	.68	25
30	2.8	24	36	4.9	---	26	7.1	11	12	.75	.83	16
31	2.1	---	23	4.5	---	24	---	8.2	---	1.6	5.9	---
TOTAL	53.65	183.1	693	347.8	566.6	1273	655.4	253.2	207.8	70.94	35.05	294.36
MEAN	1.73	6.10	22.4	11.2	20.2	41.1	21.8	8.17	6.93	2.29	1.13	9.81
MAX	4.2	42	43	27	140	182	47	30	17	6.5	5.9	134
MIN	.85	1.4	13	4.5	3.7	15	7.1	2.7	2.3	.48	.34	.53
CFSM	.11	.37	1.37	.69	1.24	2.52	1.34	.50	.43	.14	.07	.60
IN.	0.12	0.42	1.58	0.79	1.29	2.91	1.50	0.58	0.47	0.16	0.08	0.67

CAL YR 1984 TOTAL 8827.93 MEAN 24.1 MAX 473 MIN .53 CFSM 1.48 IN. 20.15
WTR YR 1985 TOTAL 4633.90 MEAN 12.7 MAX 182 MIN .34 CFSM .78 IN. 10.58

HUDSON RIVER BASIN

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY

LOCATION.--Lat 42°27'57", long 74°27'45", Schoharie County, Hydrologic Unit 02020005, on left bank 2,300 ft upstream from West Kill, and 1.2 mi upstream from bridge on State Highway 30 in North Blenheim. Water-quality sampling site at discharge station.

DRAINAGE AREA.--359 mi^3.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 800 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1971, at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Dec. 14 to Feb. 14. Records good except those for estimated daily discharges, which are fair. Regulation of flow by Blenheim-Gilboa Pumped Storage Project immediately upstream from gage. Entire flow, runoff from 314 mi^2, except for periods of spill, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York. For periods of spill see station 01350101. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--15 years, 457 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,900 ft^3/s Mar. 21, 1980, gage height, 14.72 ft from floodmark, from rating curve extended above 14,000 ft^3/s; minimum discharge, no flow Oct. 21-28, 1972, Sept. 12-14, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 482 ft^3/s Mar. 12, gage height, 3.20 ft; minimum, 4.0 ft^3/s Sept. 25, 26, gage height, 0.92 ft; minimum daily, 4.1 ft^3/s Sept. 25-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	4.8	6.1	49	7.5	70	91	13	17	22	7.1	6.5
2	8.1	5.0	5.7	62	7.5	69	144	11	22	7.1	6.8	6.5
3	7.9	5.2	7.8	27	7.5	37	65	9.6	17	7.1	6.1	7.0
4	7.8	5.2	8.8	14	7.5	33	55	9.7	8.7	7.1	6.8	6.6
5	7.4	6.3	7.9	19	7.5	78	70	9.1	8.7	6.9	7.0	6.9
6	7.8	5.0	8.4	24	7.5	67	112	14	16	7.2	6.9	6.8
7	7.3	4.9	7.9	41	7.5	60	78	24	13	6.9	6.8	6.3
8	6.5	5.0	8.2	24	7.5	61	38	24	8.8	6.8	7.3	6.3
9	5.1	5.2	8.3	9.9	7.5	135	83	15	11	6.8	6.8	7.5
10	5.0	5.5	8.2	7.5	8.2	81	48	10	10	7.0	7.1	6.8
11	5.0	5.1	9.1	7.5	7.5	79	20	7.8	8.3	6.9	6.6	6.6
12	4.9	5.3	8.2	7.5	8.2	334	28	7.2	7.5	7.0	6.6	6.3
13	5.2	5.2	9.6	8.2	7.5	190	37	8.1	10	7.3	6.9	6.4
14	4.8	5.0	9.8	11	7.5	112	71	7.3	14	6.7	6.8	6.4
15	4.8	5.1	7.5	12	9.1	117	58	6.8	13	6.9	7.1	6.5
16	4.8	5.4	7.5	7.5	8.0	90	35	6.6	12	7.2	7.0	7.2
17	4.8	5.5	18	7.5	7.8	75	35	6.9	18	6.7	6.7	6.1
18	4.8	5.3	26	8.2	9.1	101	26	78	19	6.8	6.4	6.2
19	4.8	4.9	26	7.5	62	54	21	73	18	6.8	7.1	6.3
20	5.0	5.4	32	7.5	8.1	43	42	11	12	7.1	5.9	6.4
21	4.8	6.4	32	7.5	7.1	44	51	8.7	8.2	6.7	6.1	6.7
22	5.2	5.4	84	7.5	8.2	41	55	8.7	7.2	6.8	6.2	6.3
23	4.8	5.0	113	7.5	22	19	28	8.2	7.2	7.0	6.4	7.0
24	4.6	5.4	49	7.5	285	36	11	7.1	7.6	6.9	6.6	5.8
25	4.8	5.3	49	8.2	226	90	9.9	7.3	7.0	6.8	6.4	4.1
26	5.3	5.3	21	8.2	93	44	14	7.2	6.7	7.4	6.8	4.1
27	5.4	5.1	27	7.5	81	21	25	7.3	6.7	7.3	6.5	10
28	5.0	4.9	29	7.5	75	27	22	66	7.5	7.0	6.8	8.5
29	5.0	7.1	31	7.5	---	55	18	52	19	7.1	6.6	7.0
30	4.7	6.1	92	7.5	---	68	14	14	27	6.6	6.9	7.3
31	4.7	---	49	7.5	---	51	---	9.2	---	7.4	7.0	---
TOTAL	174.5	160.3	807.0	445.7	1007.8	2382	1404.9	547.8	368.1	231.3	208.1	198.4
MEAN	5.63	5.34	26.0	14.4	36.0	76.8	46.8	17.7	12.3	7.46	6.71	6.61
MAX	8.4	7.1	113	62	285	334	144	78	27	22	7.3	10
MIN	4.6	4.8	5.7	7.5	7.1	19	9.9	6.6	6.7	6.6	5.9	4.1

CAL YR 1984 TOTAL 170721.6 MEAN 466 MAX 13200 MIN 4.6
WTR YR 1985 TOTAL 7935.9 MEAN 21.7 MAX 334 MIN 4.1

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to September 1985 (discontinued).
CHEMICAL DATA: 1971-72 (a), 1975-76 (d).
NUTRIENT DATA: 1971 (a), 1975-76 (d).
BIOLOGICAL DATA:
Bacteria--1975-76 (d).
SEDIMENT DATA: 1975-76 (a).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1971 to September 1985 (discontinued).

INSTRUMENTATION.--Water-temperature digital recorder since October 1971, provides one-hour-interval punches.

REMARKS.--Interruptions in record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1973-76, 1980-81, 1983-85), 33.5°C Aug. 7, 1973; minimum, 0.0°C on many days during winter periods, except water years 1978-80, 1983-84.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.0°C Aug. 15; minimum, 0.0°C Feb. 11, 12-13, 14, 19.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	12.5	8.5	10.5	---	---	---	5.5	4.0	4.5
2	---	---	---	13.0	8.0	11.0	---	---	---	5.5	4.0	5.0
3	---	---	---	11.5	6.5	8.0	---	---	---	4.0	2.5	3.5
4	---	---	---	11.0	5.0	7.5	4.5	2.5	3.5	3.0	1.5	2.5
5	---	---	---	11.5	9.5	10.0	5.0	1.5	3.0	3.0	1.5	2.5
6	---	---	---	10.5	7.5	9.5	3.5	.5	2.5	3.0	1.5	2.5
7	---	---	---	10.0	5.0	7.0	3.0	1.0	1.5	3.0	2.5	3.0
8	---	---	---	9.5	4.0	6.0	2.0	1.0	1.5	2.5	.5	1.5
9	---	---	---	9.5	5.5	7.0	5.5	2.0	3.0	1.0	.5	.5
10	---	---	---	11.5	8.0	9.5	4.5	2.5	3.0	.5	.5	.5
11	---	---	---	12.5	9.5	10.5	5.0	3.5	4.0	1.0	.5	.5
12	---	---	---	10.5	7.0	9.0	5.5	3.0	4.5	1.0	.5	.5
13	---	---	---	7.0	4.5	5.5	8.0	4.5	6.0	1.5	.5	1.0
14	---	---	---	7.5	3.0	4.5	6.0	4.0	4.5	1.5	.5	1.0
15	---	---	---	---	---	---	4.5	4.0	4.0	1.5	.5	.5
16	---	---	---	---	---	---	7.5	4.0	5.0	.5	.5	.5
17	---	---	---	---	---	---	8.0	5.5	6.5	.5	.5	.5
18	---	---	---	---	---	---	5.5	5.0	5.5	1.0	.5	.5
19	---	---	---	---	---	---	5.0	4.5	5.0	1.0	.5	.5
20	---	---	---	---	---	---	5.5	4.0	5.0	.5	.5	.5
21	---	---	---	---	---	---	4.5	3.0	4.0	.5	.5	.5
22	---	---	---	---	---	---	6.0	3.5	5.0	.5	.5	.5
23	---	---	---	---	---	---	5.5	4.5	5.0	.5	.5	.5
24	14.5	11.5	13.0	---	---	---	5.5	4.0	4.5	.5	.5	.5
25	15.0	10.0	12.0	---	---	---	5.0	3.0	4.0	.5	.5	.5
26	13.0	11.5	12.0	---	---	---	3.5	2.5	3.0	.5	.5	.5
27	16.0	12.0	13.5	---	---	---	2.5	2.0	2.0	.5	.5	.5
28	19.5	14.0	16.0	---	---	---	6.0	2.0	3.5	.5	.5	.5
29	17.0	13.0	16.0	---	---	---	8.0	6.0	7.0	.5	.5	.5
30	16.5	11.5	13.0	---	---	---	7.0	4.0	5.0	.5	.5	.5
31	15.5	10.0	12.5	---	---	---	4.5	3.5	4.0	.5	.5	.5
MONTH	19.5	10.0	13.5	13.0	3.0	8.5	8.0	.5	4.0	5.5	.5	1.0

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.5	.5	5.0	1.5	3.0	6.0	2.5	4.0	15.0	11.0	13.0
2	.5	.5	.5	4.5	2.0	3.0	5.5	4.0	4.5	14.5	10.5	12.5
3	.5	.5	.5	4.5	1.0	2.5	4.5	3.5	4.0	13.5	10.5	11.5
4	.5	.5	.5	1.5	.5	.5	8.5	4.0	6.0	16.0	8.5	12.0
5	.5	.5	.5	2.5	.5	1.5	9.5	5.0	6.5	14.5	12.0	13.0
6	.5	.5	.5	4.0	.5	2.0	8.0	5.5	6.5	12.5	11.5	12.0
7	.5	.5	.5	3.5	1.0	2.0	9.5	5.0	6.5	16.0	11.0	12.5
8	.5	.5	.5	4.0	1.5	2.5	9.0	4.5	6.0	15.5	9.5	12.5
9	.5	.5	.5	3.5	2.0	2.5	8.0	4.0	5.5	17.0	8.5	12.5
10	.5	.5	.5	5.0	2.0	3.0	9.5	4.5	7.0	20.0	12.5	16.0
11	.5	.0	.0	4.5	1.5	3.0	8.0	5.0	6.5	22.5	14.5	18.0
12	.0	.0	.0	3.5	3.0	3.0	10.5	4.0	7.0	22.5	16.5	19.0
13	.0	.0	.0	4.0	3.0	3.0	7.0	5.5	6.0	24.5	17.0	20.0
14	.5	.0	.5	4.0	3.0	3.0	9.0	5.5	7.0	21.0	16.5	19.0
15	1.0	.5	.5	4.0	2.0	3.0	11.0	6.5	8.5	22.0	15.5	18.0
16	1.0	.5	.5	5.5	2.0	3.5	13.0	7.0	9.5	18.0	16.0	16.5
17	1.5	.5	.5	4.5	2.5	3.0	11.0	5.0	7.5	20.0	15.0	17.0
18	1.0	.5	.5	4.5	1.5	2.5	9.5	5.5	7.5	17.0	12.5	14.5
19	1.0	.0	.5	6.0	1.0	3.0	11.0	7.5	9.5	15.0	12.0	13.0
20	2.5	.5	1.0	6.0	2.5	4.0	11.5	8.0	9.0	21.0	11.5	16.0
21	3.5	.5	1.5	6.0	1.5	3.0	13.0	7.5	10.0	17.5	14.5	16.5
22	3.0	1.5	2.0	7.0	1.0	3.5	13.5	8.0	10.5	20.5	13.0	16.5
23	4.5	1.5	2.5	5.5	2.5	4.0	16.5	8.5	12.0	21.5	14.5	17.5
24	3.0	1.5	2.0	4.5	2.5	3.5	12.5	10.0	11.0	23.5	14.5	18.5
25	3.0	2.0	2.5	5.5	2.5	3.5	11.5	9.5	10.5	23.5	15.5	19.0
26	3.5	2.0	2.5	7.0	1.5	4.0	15.5	9.0	12.0	20.5	17.5	18.5
27	3.0	1.5	2.5	9.0	2.0	5.5	14.5	9.0	11.5	23.0	16.5	19.0
28	4.5	1.0	2.5	8.0	5.0	6.5	10.5	8.5	9.5	18.5	15.0	16.5
29	---	---	---	8.0	5.0	6.0	15.0	8.0	11.0	21.5	14.0	17.5
30	---	---	---	8.0	4.5	5.5	17.0	9.0	13.5	21.5	14.0	17.5
31	---	---	---	5.0	3.0	4.0	---	---	---	20.5	16.5	18.5
MONTH	4.5	.0	1.0	9.0	.5	3.5	17.0	2.5	8.0	24.5	8.5	16.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.5	16.0	17.5	23.0	17.5	20.0	24.5	18.0	21.0	24.0	17.5	20.5
2	23.0	14.0	18.5	25.0	19.0	22.0	25.0	19.0	21.5	23.5	19.5	21.0
3	18.5	16.0	17.5	24.0	20.0	21.5	25.5	18.5	21.5	24.5	18.5	21.5
4	21.5	14.0	18.0	26.0	18.5	22.0	26.5	19.0	22.5	25.5	20.5	23.0
5	18.0	15.0	16.5	26.5	19.5	23.0	26.5	20.0	23.0	25.5	22.0	23.5
6	19.5	15.0	16.5	27.0	21.0	23.0	26.5	20.0	23.0	25.5	22.0	23.5
7	23.0	14.0	18.5	26.0	20.0	22.5	24.0	20.5	22.5	27.5	22.5	24.5
8	19.5	17.0	18.0	26.5	19.5	22.5	26.5	21.0	23.5	26.5	23.0	24.0
9	20.0	15.5	17.5	25.5	20.5	22.5	28.5	21.0	24.0	23.0	20.5	22.0
10	23.0	16.5	19.5	24.0	20.5	22.0	27.5	21.0	24.0	22.5	20.0	20.5
11	21.5	16.5	19.0	25.0	19.0	22.0	26.5	22.0	23.5	23.0	17.5	19.5
12	19.0	15.5	17.5	21.5	18.5	19.5	27.0	20.0	23.0	18.0	15.0	17.0
13	16.0	15.0	15.5	26.5	18.0	22.0	27.0	19.5	23.0	18.5	14.0	16.0
14	17.0	14.5	16.0	25.0	20.5	22.5	27.0	22.5	24.5	21.0	14.5	17.0
15	21.5	14.0	17.5	24.5	21.5	22.5	29.0	22.5	25.0	21.5	14.5	17.0
16	21.0	17.0	19.5	27.5	20.5	23.5	24.5	21.0	23.5	22.0	15.5	18.0
17	20.5	17.5	19.0	27.5	19.5	23.0	27.5	19.5	22.5	23.0	15.5	18.5
18	23.5	17.5	20.0	27.5	20.5	23.5	26.5	19.5	22.5	23.0	16.5	19.0
19	21.5	17.5	19.5	27.0	20.5	24.0	24.5	20.0	22.0	24.0	17.0	20.0
20	21.0	16.0	18.5	27.5	22.0	24.5	26.0	21.0	23.0	25.0	18.5	21.0
21	24.0	17.0	20.0	27.5	21.0	24.0	24.5	20.5	21.5	23.5	19.0	21.0
22	23.0	17.5	20.5	27.5	22.0	24.5	24.0	19.5	21.5	23.5	19.5	21.0
23	26.5	19.5	22.5	25.0	20.0	21.5	23.0	18.5	20.5	23.0	19.0	20.5
24	25.5	19.5	22.0	26.0	17.5	21.5	20.5	18.0	19.5	23.5	18.5	20.5
25	22.0	17.5	19.5	26.5	19.5	23.0	21.0	19.0	20.0	21.5	16.0	18.0
26	19.0	17.0	18.0	25.5	22.0	23.5	24.5	20.0	22.0	21.5	15.0	17.5
27	19.0	16.5	17.5	26.5	20.0	23.0	24.5	21.0	22.5	18.5	16.5	18.0
28	17.5	16.0	17.0	27.5	20.0	23.0	24.5	20.0	21.5	20.5	15.5	17.0
29	18.5	16.5	17.5	27.0	20.0	23.0	22.5	20.0	21.0	22.0	15.0	17.5
30	24.0	17.0	20.0	27.5	21.0	23.5	21.0	19.5	20.0	22.0	15.5	17.5
31	---	---	---	22.5	19.0	21.0	20.0	18.5	19.0	---	---	---
MONTH	26.5	14.0	18.5	27.5	17.5	22.5	29.0	18.0	22.0	27.5	14.0	20.0

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 upstream from highway bridge on State Highway 30, in North Blenheim, 100 ft downstream from Mill Creek and 0.2 mi upstream from mouth.

DRAINAGE AREA.--44.6 mi^2.

PERIOD OF RECORD.--July 1975 to current year. Occasional discharge measurements, water years 1970-72.

GAGE.--Water-stage recorder. Elevation of gage is 810 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 8-9, Jan. 9 to Feb. 10, and Feb. 23-24. Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 81.7 ft^3/s, 24.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,100 ft^3/s Oct. 18, 1975, gage height, 5.91 ft from rating curve extended above 2,700 ft^3/s; maximum gage height, 7.82 ft Oct. 17, 1977; minimum discharge, 0.37 ft^3/s several days during Sept. 1983; minimum gage height, 0.68 ft July 25, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 24	1330	ice jam	*4.58	Mar. 12	1215	*985	4.45

Minimum discharge, 0.60 ft^3/s Aug. 15, 24, 25, gage height, 1.59 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	7.3	62	97	11	113	140	26	37	12	6.9	4.5
2	5.3	7.3	54	100	11	106	145	24	27	9.4	3.8	3.1
3	7.1	8.3	52	76	11	86	123	23	21	7.9	2.5	2.6
4	9.2	6.6	63	65	11	54	128	21	17	6.9	1.9	2.0
5	6.7	21	45	62	10	111	158	20	17	6.0	1.5	2.4
6	5.2	21	45	54	10	91	160	37	21	7.2	1.3	3.6
7	5.0	14	39	52	10	72	134	41	16	9.1	1.0	4.1
8	4.0	11	38	44	10	89	120	28	14	7.2	4.0	3.1
9	3.6	10	37	42	9.0	97	105	24	13	5.5	3.3	4.9
10	3.7	15	36	39	9.0	98	91	22	12	4.8	2.1	9.0
11	3.3	17	38	37	10	119	85	21	9.7	4.3	1.6	5.8
12	3.0	14	42	35	11	640	75	19	14	4.0	1.3	3.8
13	2.8	16	109	33	23	320	68	24	18	6.2	.96	3.3
14	2.8	16	107	31	20	222	69	21	17	4.7	.78	2.7
15	2.7	16	82	30	14	175	65	18	12	4.2	.92	2.1
16	2.6	29	75	27	13	146	61	17	12	7.8	3.4	1.8
17	2.5	29	72	23	12	131	59	20	13	5.2	2.2	1.5
18	2.5	22	63	19	12	110	52	57	16	3.5	1.4	1.4
19	2.7	21	77	16	12	93	54	39	13	2.8	1.1	1.3
20	3.0	16	95	13	11	98	65	33	11	2.5	1.0	1.2
21	4.7	15	67	11	11	88	53	27	15	2.4	.91	1.1
22	4.9	13	143	10	15	74	47	25	10	2.2	.74	.98
23	8.0	13	116	10	60	73	43	23	8.0	1.8	.68	.89
24	7.2	13	89	10	300	70	39	21	7.4	1.4	.63	.92
25	5.6	14	78	10	325	63	38	18	8.7	1.2	1.6	.96
26	11	14	57	11	179	55	38	17	6.8	1.8	3.6	.96
27	17	13	51	12	163	58	36	18	6.3	4.6	3.1	158
28	11	14	83	12	125	93	33	48	11	2.8	2.0	105
29	12	94	109	12	---	110	31	41	24	1.9	1.7	42
30	10	70	119	12	---	97	28	25	19	1.4	2.4	26
31	8.2	---	80	11	---	87	---	21	---	2.7	8.1	---
TOTAL	180.1	590.5	2223	1016	1418.0	3839	2343	819	446.9	145.4	68.42	401.01
MEAN	5.81	19.7	71.7	32.8	50.6	124	78.1	26.4	14.9	4.69	2.21	13.4
MAX	17	94	143	100	325	640	160	57	37	12	8.1	158
MIN	2.5	6.6	36	10	9.0	54	28	17	6.3	1.2	.63	.89
CFSM	.13	.44	1.61	.74	1.13	2.78	1.75	.59	.33	.11	.05	.30
IN.	0.15	0.49	1.85	0.85	1.18	3.20	1.95	0.68	0.37	0.12	0.06	0.33

CAL YR 1984 TOTAL 26688.7 MEAN 72.9 MAX 2090 MIN 2.2 CFSM 1.63 IN. 22.26
WTR YR 1985 TOTAL 13490.33 MEAN 37.0 MAX 640 MIN .63 CFSM .83 IN. 11.25

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 downstream from bridge on State Highway 30, 0.9 mi north of Breakabeen, and 1.1 mi downstream from Keyser Kill.

DRAINAGE AREA.--443 mi^2.

PERIOD OF RECORD.--July 1975 to current year.

REVISED RECORDS.--WDR NY-79-1: Drainage area. WDR NY-81-1: 1980(M).

GAGE.--Water-stage recorder. Datum of gage is 686.79 ft above National Geodetic Vertical Datum of 1929. (Soil Conservation Service Benchmark.)

REMARKS.--Estimated daily discharges: Jan. 4-8, 13-16, 18-20, 22-23, Apr. 11-16, 23-24, and July 8-11. Records fair except those for estimated daily discharges, which are poor. Regulation of flow by Blenheim-Gilboa Pumped Storage Project. Entire flow, runoff from 314 mi^2, except for periods of spill, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York. For periods of spill see station 01350101. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--10 years, 562 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,000 ft^3/s Mar. 21, 1980, gage height, 18.34 ft, from floodmarks, from rating curve extended above 11,000 ft^3/s; minimum discharge, 1.7 ft^3/s Oct. 14, 1980; minimum gage height, 0.25 ft Sept. 26, 1985; minimum daily discharge, 5.8 ft^3/s Sept. 13, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,750 ft^3/s Mar. 12, gage height, 4.77 ft; minimum, 6.3 ft^3/s Oct. 16, 17; minimum gage height, 0.25 ft Sept. 26; minimum daily discharge, 6.6 ft^3/s Oct. 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	19	99	216	39	251	287	65	80	53	20	20
2	20	19	91	277	41	240	430	60	82	35	19	16
3	21	20	78	200	39	179	278	56	68	27	14	15
4	23	20	111	140	40	173	263	54	49	26	12	13
5	21	29	78	130	41	343	345	51	44	24	12	16
6	17	48	75	120	42	255	421	65	52	24	11	17
7	16	33	69	110	42	286	343	108	55	26	10	17
8	14	28	61	94	42	181	252	82	39	24	15	17
9	12	25	71	85	46	316	228	66	39	22	16	16
10	10	26	62	71	46	250	270	56	38	21	13	24
11	9.5	34	68	68	44	267	152	49	33	20	12	22
12	8.8	29	75	68	45	1220	140	43	39	18	10	18
13	8.7	33	168	68	66	844	130	47	46	21	9.2	16
14	8.2	33	211	66	61	532	166	45	51	20	9.4	15
15	6.6	32	155	66	47	444	159	39	43	18	9.8	13
16	6.6	41	143	64	43	356	108	36	38	22	14	13
17	7.0	57	142	57	39	303	103	40	41	21	14	13
18	8.0	43	146	56	41	296	87	241	53	17	12	11
19	9.0	37	156	56	102	215	79	195	46	15	11	11
20	13	34	222	54	63	199	111	107	41	14	11	10
21	14	31	173	51	46	188	108	74	35	13	9.7	10
22	16	28	322	50	48	161	100	67	31	11	9.8	10
23	18	26	388	50	132	135	94	59	28	11	8.7	10
24	19	29	238	50	730	141	88	52	27	11	9.2	10
25	17	29	219	48	873	181	83	47	26	11	11	9.4
26	19	28	157	47	420	138	83	43	25	11	14	7.3
27	30	28	128	44	367	107	94	44	23	16	15	206
28	27	26	169	42	287	153	88	129	29	15	13	232
29	24	151	245	41	---	229	83	178	57	13	13	87
30	24	139	305	40	---	229	71	77	68	12	13	55
31	21	---	240	38	---	198	---	56	---	13	21	---
TOTAL	481.4	1155	4865	2567	3872	9010	5244	2331	1326	605	391.8	949.7
MEAN	15.5	38.5	157	82.8	138	291	175	75.2	44.2	19.5	12.6	31.7
MAX	30	151	388	277	873	1220	430	241	82	53	21	232
MIN	6.6	19	61	38	39	107	71	36	23	11	8.7	7.3

CAL YR 1984 TOTAL 225990.2 MEAN 617 MAX 15100 MIN 6.6
WTR YR 1985 TOTAL 32797.9 MEAN 89.9 MAX 1220 MIN 6.6

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 south of Burtonsville, 2.7 mi north of Esperance, and 13.5 mi upstream from mouth.

DRAINAGE AREA.--883 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 507.98 ft above National Geodetic Vertical Datum of 1929, unadjusted.

REMARKS.--Estimated daily discharges: Dec. 7-9, 27-28, Jan. 5 to Feb. 24, Mar. 2-7, and June 23 to July 16. Records good except those for June 23 to July 16, which are fair and Dec. 7-9, 27-28, Jan. 5 to Feb. 24, and Mar. 2-7, which are poor. Regulation of flow by Blenheim-Gilboa Pumped Storage Project. Entire flow, runoff from 314 mi^2, except for periods of spill, diverted from Schoharie Reservoir through Shandaken Tunnel into Esopus Creek upstream from Ashokan Reservoir for water supply of City of New York. For periods of spill see station 01350101. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--46 years, 1,003 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,500 ft^3/s Oct. 16, 1955, gage height, 12.39 ft; minimum, 2.4 ft^3/s Sept. 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of March 1936 and September 1938 reached stages of 10.5 and 10.2 ft, respectively, from information provided 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, 10,400 ft^3/s Mar. 12, gage height, 4.38 ft; minimum, 19 ft^3/s Aug. 24, 25, gage height, 0.59 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	69	593	958	120	1020	1180	258	190	179	38	69
2	34	65	512	1400	120	900	1810	233	226	186	46	53
3	46	56	416	951	120	700	1490	217	199	179	43	45
4	53	53	644	629	120	520	1330	205	170	133	38	39
5	55	63	485	500	120	540	1410	190	149	123	34	43
6	53	125	454	370	120	680	1550	204	142	123	30	69
7	47	133	400	310	120	560	1440	455	145	123	28	72
8	42	111	370	280	120	713	1120	401	150	123	30	59
9	40	94	350	250	120	1310	964	301	115	123	27	50
10	40	87	326	230	120	1470	892	247	104	118	29	46
11	38	87	310	200	120	1840	724	213	97	87	28	43
12	35	94	382	190	130	7230	645	204	94	87	26	44
13	34	114	802	180	160	5360	566	248	113	80	24	42
14	33	131	1370	170	700	2780	509	248	163	80	23	38
15	30	131	889	160	600	2040	509	196	152	76	22	34
16	30	143	762	150	470	1510	495	173	137	72	24	31
17	29	217	681	150	360	1440	481	174	204	69	28	29
18	29	210	573	150	280	1170	481	524	177	60	30	28
19	28	182	518	140	270	896	495	794	173	53	30	26
20	30	158	802	140	270	928	495	532	145	44	29	25
21	30	130	698	130	270	860	481	364	131	38	26	23
22	34	125	1010	130	280	691	475	310	117	35	24	22
23	37	113	1600	120	900	660	495	265	100	31	22	22
24	43	113	1050	120	2900	610	409	224	87	29	20	21
25	47	109	883	120	3970	578	360	197	76	26	24	22
26	58	113	598	120	2050	538	357	176	76	31	30	21
27	68	117	500	120	1610	475	347	165	56	33	34	134
28	79	114	560	120	1140	535	333	170	56	34	34	1810
29	90	366	1280	120	---	868	312	374	91	34	31	655
30	84	854	1520	120	---	885	291	315	167	32	37	340
31	80	---	1090	120	---	806	---	212	---	32	57	---
TOTAL	1405	4477	22428	8848	17680	41113	22446	8789	4002	2473	946	3955
MEAN	45.3	149	723	285	631	1326	748	284	133	79.8	30.5	132
MAX	90	854	1600	1400	3970	7230	1810	794	226	186	57	1810
MIN	28	53	310	120	120	475	291	165	56	26	20	21

CAL YR 1984 TOTAL 481329 MEAN 1315 MAX 31000 MIN 28
WTR YR 1985 TOTAL 138562 MEAN 380 MAX 7230 MIN 20

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 upstream from mouth.

DRAINAGE AREA.--3,456 mi^2.

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).

GAGE.--Water-stage recorder. Datum of gage is 49.13 ft above National Geodetic Vertical Datum of 1929. Dec. 1, 1917, to July 16, 1925, water-stage recorder at site 1.7 mi upstream at Crescent Dam at datum 130.87 ft higher. July 17 to Oct. 19, 1925, powerplant gage at present site.

REMARKS.--Estimated daily discharges: Jan. 10-13, Aug. 2-27, and Sept. 13, 15-17. Records good except those for estimated daily discharges, which are fair. Total flow of Mohawk River equals flow published at Cohoes which includes small diversion for Cohoes water supply plus flow diverted at Cresent 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. Gage-height telemeter at station.

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

AVERAGE DISCHARGE.--7 years (1919-25), 5,820 ft^3/s, includes diversion at Lock 6; 60 years (1926-85), 5,683 ft^3/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 143,000 ft^3/s Mar. 6, 1964, result of release from ice jam, gage height, 23.15 ft, from rating curve extended above 100,000 ft^3/s; minimum discharge, 6 ft^3/s Sept. 18, 1941, gage height, 3.40 ft; minimum daily, 23 ft^3/s Aug. 24, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 41,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 13	0430	*47,500	*17.63	No other peaks greater than base discharge.			

Minimum discharge recorded, 147 ft^3/s part of each day Jun. 15, Aug. 28 to Sept. 6, and Sept. 17-26, gage height, 4.74 ft, but may have been less during periods of no gage height record, Aug. 2-27, and Sept. 13, 15-17; minimum daily discharge, 153 ft^3/s Sept. 20, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1280	1500	10400	16300	2430	9190	10400	1470	1660	2030	1020	807
2	1120	1670	8620	22500	2360	8050	11100	2270	972	1160	951	941
3	1620	883	7450	18400	2360	8000	9950	2530	1790	1070	1070	941
4	1650	1260	6130	14500	2270	7120	8960	1560	1740	844	1040	930
5	1710	2040	5330	11800	2170	5290	9680	2480	1490	911	924	952
6	1660	4450	5370	8810	2160	4450	12100	1890	1210	1120	810	1330
7	2680	4570	3760	6280	2180	5080	13800	2330	1310	940	556	2550
8	2820	1990	4090	5760	2310	5390	12100	4150	1100	1030	757	1530
9	1620	2190	3810	4560	2290	5980	9480	2640	1070	921	722	1450
10	1710	2960	3900	2300	2200	7590	7690	2660	1290	1060	784	1420
11	1670	5280	3510	2400	2180	8230	6510	1710	1410	1080	382	1410
12	1550	4670	4720	2800	2170	21800	5260	2030	1160	1130	688	1400
13	983	4570	4910	3000	2680	37400	4440	2230	1080	653	550	1090
14	806	3720	9280	3360	3210	23000	3990	2470	526	921	581	1410
15	1190	3110	9550	4440	3220	18300	4220	2190	891	1080	864	981
16	1230	2950	7600	3400	3270	13000	4480	2160	2050	793	563	1010
17	1180	4010	6720	2600	3300	10100	4880	2440	1470	1030	812	482
18	1160	4740	6390	2500	3010	8680	7340	2520	1800	1080	656	920
19	1080	4150	5420	2430	3000	7440	7650	2830	1390	1140	609	1520
20	1180	3790	5150	2440	2200	6480	7370	2270	1550	620	1030	153
21	1170	3410	5120	2540	2220	7260	7160	2050	1290	988	740	572
22	822	1560	5190	2540	2190	6990	7290	1000	773	777	592	153
23	1260	2120	7260	2540	2240	6480	6000	1650	785	1040	617	940
24	1170	1910	8370	2660	8340	6500	4300	1890	1360	957	587	763
25	1230	1700	7180	2750	24300	6400	3260	1290	1250	917	693	951
26	1970	2180	5810	2630	23500	6240	2150	1360	1230	465	765	1290
27	2070	3280	4700	2600	16400	5710	1170	1430	1010	1100	1030	2280
28	1680	6130	4520	2510	11600	6110	2970	1910	967	964	1360	15500
29	1800	7400	8350	2510	---	10400	2510	1890	1780	936	491	9410
30	2050	11400	30800	2490	---	13100	1330	1840	1040	1030	873	5960
31	2600	---	22500	2450	---	11300	---	1880	---	1030	1200	---
TOTAL	47721	105593	231910	168800	141760	307060	199540	65020	38444	30817	24317	61046
MEAN	1539	3520	7481	5445	5063	9905	6651	2097	1281	994	784	2035
MAX	2820	11400	30800	22500	24300	37400	13800	4150	2050	2030	1360	15500
MIN	806	883	3510	2300	2160	4450	1170	1000	526	465	382	153

CAL YR 1984 TOTAL 2156387 MEAN 5892 MAX 53500 MIN 738
WTR YR 1985 TOTAL 1422028 MEAN 3896 MAX 37400 MIN 153

01357500 MOHAWK RIVER AT COHOES, NY--Continued

(01357499) Diversion, in cubic feet per second, from Mohawk River at Cresent Dam, NY, through Barge Canal at lock 6, water year October 1984 to September 1985

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	104	92	3.0	3.0	3.0	3.0	116	134	158	146	152
2	134	110	92	3.0	3.0	3.0	3.0	104	158	176	158	170
3	140	92	92	3.0	3.0	3.0	3.0	110	140	128	158	128
4	116	104	92	3.0	3.0	3.0	3.0	92	152	176	158	140
5	122	98	92	3.0	3.0	3.0	3.0	92	122	158	140	110
6	134	104	92	3.0	3.0	3.0	3.0	152	146	158	170	122
7	134	104	92	3.0	3.0	3.0	3.0	116	140	170	146	128
8	128	110	3.0	3.0	3.0	3.0	3.0	134	122	140	128	140
9	128	104	3.0	3.0	3.0	3.0	3.0	146	128	158	158	128
10	110	98	3.0	3.0	3.0	3.0	3.0	140	128	152	158	122
11	116	98	3.0	3.0	3.0	3.0	3.0	134	140	116	158	134
12	116	92	3.0	3.0	3.0	3.0	3.0	128	110	140	122	152
13	116	92	3.0	3.0	3.0	3.0	3.0	128	128	164	122	134
14	128	98	3.0	3.0	3.0	3.0	3.0	128	140	146	128	152
15	134	98	3.0	3.0	3.0	3.0	92	140	122	164	134	146
16	116	92	3.0	3.0	3.0	3.0	92	140	110	140	140	116
17	104	92	3.0	3.0	3.0	3.0	92	140	140	146	146	134
18	116	98	3.0	3.0	3.0	3.0	92	134	152	176	164	122
19	122	98	3.0	3.0	3.0	3.0	92	122	128	134	134	116
20	128	98	3.0	3.0	3.0	3.0	92	116	116	158	128	110
21	128	104	3.0	3.0	3.0	3.0	92	110	152	134	134	152
22	128	98	3.0	3.0	3.0	3.0	92	134	164	122	140	140
23	116	98	3.0	3.0	3.0	3.0	92	128	128	146	122	128
24	98	98	3.0	3.0	3.0	3.0	92	146	134	146	146	122
25	110	98	3.0	3.0	3.0	3.0	92	158	128	152	152	134
26	104	98	3.0	3.0	3.0	3.0	92	146	134	146	146	122
27	104	98	3.0	3.0	3.0	3.0	92	152	128	116	140	110
28	122	104	3.0	3.0	3.0	3.0	92	104	152	164	152	122
29	122	92	3.0	3.0	---	3.0	110	134	158	152	146	128
30	116	92	3.0	3.0	---	3.0	98	122	134	164	134	104
31	110	---	3.0	3.0	---	3.0	---	146	---	128	152	---
TOTAL	3716	2964	716.0	93.0	84.0	93.0	1538.0	3992	4068	4628	4460	3918
MEAN	120	98.8	23.1	3.00	3.00	3.00	51.3	129	136	149	144	131
MAX	140	110	92	3.0	3.0	3.0	110	158	164	176	170	170
MIN	98	92	3.0	3.0	3.0	3.0	3.0	92	110	116	122	104

CAL YR 1984 TOTAL 29164.0 MEAN 79.7 MAX 214 MIN 3.0
WTR YR 1985 TOTAL 30270.0 MEAN 82.9 MAX 176 MIN 3.0

01357500 MOHAWK RIVER AT COHOES, NY

REGULATION
(see Reservoirs in Hudson River Basin)

Delta Dam.
Hinckley Reservoir.
Schoharie Reservoir.

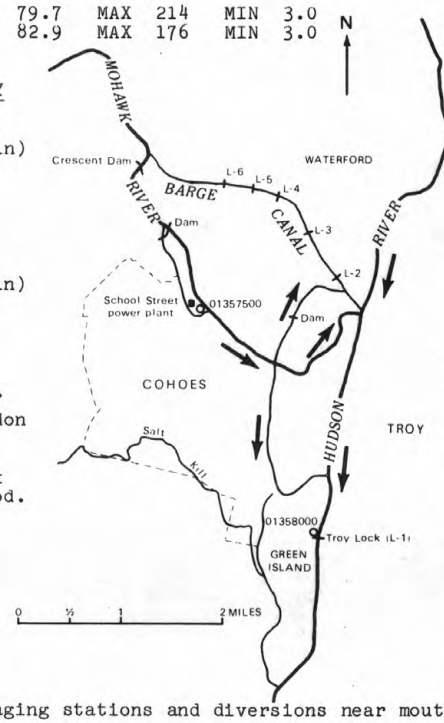
DIVERSIONS
(see Reservoirs in Hudson River Basin)

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.
Bond Creek at Dunham Basin.
Champlain (Barge) Canal.

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

Figure 8.--Gaging stations and diversions near mouth of Mohawk River.

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, NY

(National stream-quality accounting network station)
(National radiochemical 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 downstream from 5th branch Mohawk River. Water-quality sampling site at bridge on State Highway 7, 1.7 mi downstream from discharge station.

DRAINAGE AREA.--8,090 mi^2, 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 below National Geodetic Vertical Datum of 1929 (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 higher. Totalizing flowmeters on each turbine in powerplant.

REMARKS.--No estimated daily discharges. Records for Oct. 1 to July 25 are fair for discharges greater than 15,000 ft^3/s, and poor below. Records for July 26 to Sept. 30 are 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. Satellite telemeter at station since July 26, 1985.

COOPERATION.--Turbine flowmeter readings provided by Niagara Mohawk Power Corporation.

AVERAGE DISCHARGE.--39 years, 13,700 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181,000 ft^3/s Dec. 31, 1948, gage height, 27.05 ft, from high-water mark in gage well; maximum daily, 152,000 ft^3/s Mar. 14, 1977; minimum daily, 882 ft^3/s Sept. 2, 1968; minimum gage height 13.68 ft July 6, 1981, when pool was lowered for inspection of flashboards.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 19, 1936, reached a stage of 29.48 ft at gage on opposite bank, from information by Corps of Engineers (discharge, 215,000 ft^3/s). Flood of Mar. 28, 1913, prior to construction of Sacandaga Reservoir and Troy lock and dam, reached a stage about 0.2 ft higher upstream from former dam near same site. Downstream from dams, flood in 1913 was about 3.3 ft higher than flood in 1936, from information by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79,500 ft^3/s Mar. 13, gage height, 21.41 ft; minimum daily, 2,240 ft^3/s Aug. 19; minimum gage height, 14.65 ft July 21, Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4370	6090	17100	36200	9330	20000	22900	6390	5930	6450	4480	3320
2	6620	5950	15500	43700	8360	17100	21800	6290	4410	5710	4360	3010
3	7460	5240	13200	39100	7550	16700	19700	8590	5140	5080	3740	3700
4	5580	5300	12600	32200	6770	13700	17800	7700	5090	4910	3290	3550
5	7160	6030	12200	27300	7180	12600	17400	8780	5770	4560	2640	3310
6	8010	9640	12200	22500	6540	11600	20300	7830	4890	5190	3420	4950
7	7560	11800	13000	21700	6500	12600	26300	10100	5330	5040	3540	7800
8	7330	7280	10300	17700	6740	13000	26200	12300	4830	4490	4140	7770
9	7630	8400	9120	15200	6520	13700	23100	10800	4810	5870	3370	7880
10	7040	8970	9280	11800	5870	14700	19500	9960	4460	4560	3710	7880
11	6210	11000	9800	10800	5920	14200	16000	8350	5470	5370	2970	7380
12	8040	11300	12400	11700	5240	38500	14300	8460	4200	5380	2760	7010
13	5950	15400	12700	12600	6100	66000	12700	8920	6120	4340	2920	5520
14	5380	12900	16500	12600	8680	43500	11500	9340	6000	4160	3160	5490
15	5330	10400	17200	13000	10000	34200	11300	8990	5390	4600	3450	3620
16	6320	9620	14900	12500	9840	26400	12500	7380	6990	5240	3690	3890
17	6360	10600	13400	9610	9130	22200	13600	8520	6190	5630	3400	4420
18	5770	11200	14000	8420	8180	19800	16900	9480	7410	6080	3230	4140
19	6060	10400	13600	10400	8660	18600	17600	12000	7380	4840	2240	4630
20	5840	11200	14000	9970	8140	16500	17900	9980	5900	4210	3210	3200
21	5310	10100	13800	10300	8240	16600	15800	9590	5540	3890	3380	3560
22	5670	8700	14200	10300	7160	16200	16400	6660	5280	4020	4120	2630
23	6560	8180	16800	9710	8630	15300	16900	9150	4990	5540	4130	3620
24	5980	9700	17100	11300	15000	14800	15500	6480	5480	3990	3760	3300
25	6040	8700	16000	10200	34500	13700	12700	5610	5240	3750	3440	3680
26	6950	8240	13500	9540	36500	13800	10800	5410	4960	3160	4390	4410
27	5990	9740	11700	8790	28300	13200	9140	5450	5540	4500	5650	6710
28	5590	11500	11800	7540	25600	14400	10500	6390	4410	3130	4930	21200
29	6090	13000	15700	7400	---	20400	9620	7070	6630	3170	3620	16800
30	7080	16800	47900	8540	---	26500	6560	6490	6130	5030	3980	12600
31	6910	---	48600	8770	---	25500	---	5920	---	3680	4260	---
TOTAL	198190	293380	490100	481390	315180	636000	483220	254380	165910	145570	113380	180980
MEAN	6393	9779	15810	15530	11260	20520	16110	8206	5530	4696	3657	6033
MAX	8040	16800	48600	43700	36500	66000	26300	12300	7410	6450	5650	21200
MIN	4370	5240	9120	7400	5240	11600	6560	5410	4200	3130	2240	2630

CAL YR 1984 TOTAL 5659990 MEAN 15460 MAX 104000 MIN 3780
WTR YR 1985 TOTAL 3757680 MEAN 10300 MAX 66000 MIN 2240

01358000 HUDSON RIVER AT GREEN ISLAND, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955 to current year.
CHEMICAL DATA: 1963 (a), 1964-65 (e), 1966-77 (d), 1978 (c), 1979-82 (d), 1983-85 (b).
MINOR ELEMENTS DATA: 1970-71 (a); 1972-73, 1975-79 (b), 1980-85 (b).
RADIOCHEMICAL DATA: 1968-71 (c), 1973-75 (a), 1976 (d), 1977 (a),1978 (b), 1979-80 (a), 1981 (b), 1982-85 (a).
PESTICIDE DATA: 1976-77 (b), 1978 (a), 1979 (c), 1980, 82 (a).
ORGANIC DATA: OC--1974 (a), 1975 (c), 1976-77 (b), 1978 (a), 1979 (c), 1980-81 (d).
PCB--1978 (a), 1979 (b), 1980 (a).
NUTRIENT DATA: 1968 (b), 1969-76 (d), 1977-79 (c), 1980-82 (d), 1983-85 (b).
BIOLOGICAL DATA:
Bacteria--1971 (a), 1973-74 (d), 1975 (a), 1976-78 (c), 1979-81 (d), 1983-85 (b).
Phytoplankton--1975 (a), 1976-77 (c), 1978 (b), 1979-81 (c).
Periphyton--1976-77 (b), 1978 (a), 1979-80 (b).
SEDIMENT DATA: 1975 (b), 1976 (d), 1977 (b), 1978 (c), 1979-82 (d), 1983-85 (b).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1964 to September 1965, once-daily measurements, unpublished.
pH: October 1964 to September 1965, once-daily measurements, unpublished.
WATER TEMPERATURES: April 1947 to September 1954, once-daily measurements, unpublished; October 1954 to September 1981.

REMARKS.--Prior to October 1968 sampling site at old bridge on State Highway 7 about 100 ft upstream, and between April 1971 and September 1973 sampling site at former bridge on road between Green Island and Troy at Starbuck Island.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
NOV											
21...	1300	10100	190	7.7	4.0	2.3	776	14.0	105	--	--
MAR											
19...	1200	18600	187	7.7	4.0	5.0	750	12.4	96	390	>2000
JUN											
11...	1200	5470	225	7.9	17.0	3.0	760	10.0	104	460	210
AUG											
21...	1100	3960	192	7.3	25.0	1.0	--	--	--	200	K1

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
21...	82	20	25	4.7	8.2	1.2	--	--	20	14
MAR										
19...	76	20	23	4.4	6.9	1.0	56	68	18	13
JUN										
11...	81	26	25	4.4	10	1.0	55	67	23	19
AUG										
21...	79	21	24	4.5	12	1.1	58	71	23	22

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV										
21...	<.10	5.0	120	120	.50	.110	1.8	.030	<.010	.020
MAR										
19...	.10	5.5	119	110	.70	.220	.40	.070	<.010	.010
JUN										
11...	.10	3.0	150	120	.58	.080	1.0	.020	.030	.020
AUG										
21...	.10	2.0	133	120	.48	.090	.60	.060	.030	.020

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

01358000 HUDSON RIVER AT GREEN ISLAND NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 21...	50	<1	21	<.5	<1	1	<3	4	88	2
MAR 19...	110	<1	24	.8	<1	<1	<3	7	280	1
JUN 11...	110	<1	27	.6	<1	<1	<3	6	210	2
AUG 21...	30	<1	27	.5	2	<1	<3	9	24	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 21...	<4	16	.6	<10	1	<1	<1	150	<6	9
MAR 19...	<4	27	.1	<10	5	<1	<1	120	<6	12
JUN 11...	9	53	.4	<10	1	<1	<1	150	<6	15
AUG 21...	9	7	.2	<10	1	<1	<1	170	<6	9

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
MAR 19...	1200	<1.8	<.4	1.6	.5	1.4	.4	.05	.09
AUG 21...	1100	<.5	<.5	2.4	<.4	1.9	<.4	--	.05

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	DISCHARGE, IN CUBIC FEET PER SECOND	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 21...	1300	10100	27	736	15
MAR 19...	1200	18600	11	552	96
JUN 11...	1200	5470	9	133	93
AUG 21...	1100	3960	6	64	67

01359139 HUDSON RIVER AT ALBANY, NY

LOCATION.--Lat 42°38'57", long 73°44'46", Albany County, Hydrologic Unit 02020006, on right bank 0.5 mi upstream from bridge on U.S. Highways 9 and 20 in Albany, and 0.5 mi downstream from the Penn Central Transportation Company bridge.

DRAINAGE AREA.--8,290 mi^2.

PERIOD OF RECORD.--October 1972 to September 1976, April 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Gage-height record converted to elevation above or below (-) mean sea level for publication.

REMARKS.--Records good, except those for period of sluggish intake (Nov. 10 to Dec. 14), which are poor. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 10.05 ft May 31, 1984; minimum recorded, -4.13 ft Dec. 7, 1981.

TIDE ELEVATIONS, IN FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Maximum high tide												
Elevation	4.99	a5.31	5.53	5.35	4.96	6.60	6.07	5.20	5.24	5.02	4.89	6.62
Date	20	10	22	5	13	12	6	7,31	1	3	19	27
Minimum low tide												
Evevation	-2.32	-2.85	-2.83	-2.38	-2.75	-3.25	-2.26	-2.52	-3.01	-2.51	-2.36	-2.27
Date	4	3	27	10	9	6	17	1	26	27	1	13
Mean high tide	4.09	a4.10	a4.23	3.53	3.34	4.32	4.49	4.56	4.41	4.36	4.30	4.38
Mean water level	1.31	1.30	1.50	1.42	1.38	1.67	1.78	1.51	1.28	1.34	1.31	1.48
Mean low tide	-1.49	b-1.55	b-1.28	-0.76	-0.60	-1.07	-1.06	-1.68	-1.95	-1.81	-1.80	-1.51

a May have been higher.
b May have been lower.

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 downstream from bridge on State Highway 150, 0.2 mi east of village of Castleton-on-Hudson, 0.5 mi downstream from unnamed tributary, and 1.2 mi upstream from mouth.

DRAINAGE AREA.--32.6 mi^2.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 98.72 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 25, 1957, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 7-8, 25-28, and Jan. 4 to Mar. 11. Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation of low flow by mills upstream and occasional regulation at dam 800 ft upstream. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--28 years, 38.2 ft^3/s, 15.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft^3/s Jan. 22, 1959, gage height, 3.63 ft; maximum gage height, 4.02 ft Jan. 27, 1976 (ice jam); minimum discharge, 0.30 ft^3/s Aug. 9, 10, 1964, gage height, 0.25 ft; minimum daily, 1.0 ft^3/s Sept. 6, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 12	2030	*475	a*2.39	No other peak greater than base discharge.			

a Recorded in well; outside gage height was 2.70 ft, from crest-stage gage.

Minimum discharge, 2.1 ft^3/s Aug. 23, 24, Sept. 4; minimum gage height, 0.59 ft July 24, 25, 26, Aug. 6, 14, 15, 21, 22, 23, 24; minimum daily discharge, 2.3 ft^3/s Aug. 23-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	8.4	17	39	11	33	43	16	12	9.2	4.8	3.9
2	14	9.1	16	43	11	31	49	15	12	7.9	4.0	3.1
3	13	9.7	18	35	11	30	39	15	9.5	7.7	3.6	2.8
4	9.9	9.1	44	28	11	33	36	15	8.7	8.3	3.3	3.0
5	8.0	14	32	25	11	46	31	14	8.6	7.2	3.1	3.0
6	7.2	20	29	23	10	38	40	17	8.7	6.6	3.0	3.2
7	6.8	14	27	21	10	33	45	30	8.1	6.7	2.8	2.9
8	6.8	11	20	19	10	31	38	22	8.4	6.2	3.9	7.9
9	6.8	9.5	23	19	10	32	35	16	9.2	5.7	3.3	26
10	7.0	13	23	18	11	35	30	15	10	5.7	3.0	9.1
11	6.6	17	31	17	12	50	29	14	7.1	5.3	3.0	6.3
12	6.3	20	47	16	12	335	28	13	8.7	5.5	3.0	4.7
13	6.1	31	56	16	120	282	26	12	11	6.0	2.9	4.1
14	6.3	26	46	17	100	139	26	12	9.0	5.3	2.7	3.7
15	6.4	21	37	16	25	100	27	10	8.0	5.1	2.7	3.5
16	6.2	21	32	16	16	73	27	9.8	8.2	5.7	3.5	3.4
17	6.0	20	30	15	16	68	30	10	28	4.9	2.8	3.1
18	6.0	17	28	15	16	56	25	39	29	4.5	2.6	3.1
19	6.3	16	28	15	15	48	26	39	22	4.2	2.6	3.2
20	6.9	13	38	14	15	48	25	26	16	4.1	2.7	3.2
21	6.8	12	32	14	15	43	23	18	19	3.9	2.6	3.2
22	9.0	11	46	14	16	37	22	14	13	3.7	2.6	3.2
23	13	10	62	13	18	36	23	12	9.9	3.4	2.3	3.1
24	11	10	48	13	30	35	21	12	9.0	3.3	2.3	3.5
25	9.2	11	43	13	90	31	20	10	8.3	3.2	3.4	3.7
26	12	10	39	13	52	28	21	9.6	8.3	4.7	4.6	3.5
27	14	10	37	13	39	27	19	9.6	8.0	6.5	4.0	9.2
28	11	9.9	40	12	34	29	18	14	11	4.9	3.3	17
29	12	14	44	12	---	30	18	19	17	4.1	2.9	8.3
30	10	19	54	12	---	28	16	13	13	3.4	3.4	5.7
31	9.2	---	40	11	---	27	---	10	---	3.9	6.3	---
TOTAL	267.3	436.7	1107	567	747	1892	856	501.0	358.7	166.8	101.0	163.6
MEAN	8.62	14.6	35.7	18.3	26.7	61.0	28.5	16.2	12.0	5.38	3.26	5.45
MAX	14	31	62	43	120	335	49	39	29	9.2	6.3	26
MIN	6.0	8.4	16	11	10	27	16	9.6	7.1	3.2	2.3	2.8
CFSM	.26	.45	1.10	.56	.82	1.87	.87	.50	.37	.17	.10	.17
IN.	0.31	0.50	1.26	0.65	0.85	2.16	0.98	0.57	0.41	0.19	0.12	0.19

CAL YR 1984 TOTAL 19030.0 MEAN 52.0 MAX 994 MIN 6.0 CFSM 1.60 IN. 21.72
WTR YR 1985 TOTAL 7164.1 MEAN 19.6 MAX 335 MIN 2.3 CFSM .60 IN. 8.17

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 right bank 2,400 ft downstream from bridge on State Highway 28, at Shandaken, 0.5 mi downstream from Bushnellsville Creek, 0.5 mi upstream from Fox Hollow Creek, and 5.2 mi northwest of Phoenicia. Water-quality sampling site at discharge station.

DRAINAGE AREA.--59.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,017.27 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 3 to Feb. 1. Records fair except those for estimated daily discharges, which are poor. Occasional slight regulation when filling or draining swimming pools or small ponds upstream from station.

AVERAGE DISCHARGE.--22 years, 137 ft^3/s, 31.27 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,900 ft^3/s Mar. 21, 1980, gage height, 13.00 ft from floodmarks, from rating curve extended above 2,200 ft^3/s on basis of slope-area measurement at gage height 10.88 ft; minimum discharge, 2.1 ft^3/s Sept. 16, 1983 (result of slight regulation above station).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	1645	*2,990	*8.27	No other peak greater than base discharge.			

Minimum discharge, 3.3 ft^3/s Oct. 13, 14, 16, minimum gage height, 3.96 ft Oct. 13; minimum daily, 3.5 ft^3/s Oct. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	8.9	117	136	30	182	139	82	90	37	80	20
2	20	8.9	105	138	28	167	136	79	80	37	56	17
3	16	8.3	107	120	24	148	127	80	76	35	47	14
4	20	8.1	112	100	30	135	122	78	71	32	42	11
5	13	13	95	80	31	158	126	75	70	29	42	13
6	9.3	13	94	70	26	140	162	75	70	29	35	10
7	8.5	13	83	60	23	134	181	75	65	29	32	9.1
8	8.3	13	81	64	19	132	183	72	63	26	43	7.6
9	7.5	13	70	56	21	132	171	69	58	25	32	15
10	5.4	14	67	50	23	123	160	68	54	25	29	24
11	5.0	14	69	45	22	119	150	81	49	24	26	27
12	4.2	14	70	40	46	225	141	85	48	24	23	23
13	3.8	15	76	35	169	234	132	104	45	46	21	21
14	3.5	15	89	30	87	223	125	91	41	39	19	18
15	4.1	15	93	27	70	206	122	91	37	36	19	16
16	4.2	15	100	26	64	187	120	88	36	42	19	14
17	6.3	15	103	24	60	176	115	90	36	39	17	14
18	8.9	15	104	23	58	161	111	151	37	35	14	12
19	9.4	15	108	24	56	148	115	138	31	32	14	9.9
20	9.7	15	114	24	56	137	120	135	29	29	14	8.0
21	10	15	106	23	56	126	117	123	27	27	12	7.1
22	17	15	158	23	57	117	116	115	25	29	11	6.8
23	22	15	166	24	72	114	114	108	25	27	9.5	7.1
24	12	15	152	26	133	109	111	99	28	25	8.4	11
25	11	15	144	28	281	102	111	86	27	26	12	9.9
26	12	14	128	28	271	98	108	75	24	47	18	9.4
27	12	14	117	28	244	96	101	78	24	58	16	805
28	11	14	116	27	208	101	96	114	26	43	12	503
29	9.8	148	131	27	---	130	93	104	52	36	10	227
30	9.4	134	144	30	---	147	87	88	44	28	11	161
31	8.9	---	134	31	---	139	---	77	---	49	22	---
TOTAL	319.2	660.2	3353	1467	2265	4546	3812	2874	1388	1045	765.9	2050.9
MEAN	10.3	22.0	108	47.3	80.9	147	127	92.7	46.3	33.7	24.7	68.4
MAX	22	148	166	138	281	234	183	151	90	58	80	805
MIN	3.5	8.1	67	23	19	96	87	68	24	24	8.4	6.8
CFSM	.17	.37	1.82	.79	1.36	2.47	2.13	1.56	.78	.57	.42	1.15
IN.	0.20	0.41	2.10	0.92	1.42	2.84	2.38	1.80	0.87	0.65	0.48	1.28

CAL YR 1984 TOTAL 54995.6 MEAN 150 MAX 3740 MIN 3.5 CFSM 2.52 IN. 34.38
WTR YR 1985 TOTAL 24546.2 MEAN 67.2 MAX 805 MIN 3.5 CFSM 1.13 IN. 15.35

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.
CHEMICAL DATA: 1963-65 (a), 1966-67 (b), 1968-82 (d), 1983-84 (b), 1985 (c).
MINOR ELEMENT DATA: 1964-65, 1967-73, 1975-76 (a), 1977 (b), 1978-85 (a).
RADIOCHEMICAL DATA: 1967-77, 1979-85 (a).
PESTICIDE DATA: 1967-72, 1974-77, 1979-82 (a).
ORGANIC DATA: OC--1979 (a), 1981 (c).
PCB--1974-77, 1979-82 (a).
PCN--1977, 1979-82 (a).
NUTRIENT DATA: 1968 (a), 1969-71 (d), 1972 (c), 1974 (a), 1975-82 (d), 1983-84 (b), 1985 (c).
BIOLOGICAL DATA:
Bacteria--1968-69 (d), 1970-72 (c), 1973-82 (d), 1983-85 (b).
SEDIMENT DATA: 1969-71 (c), 1972-75, 1977-82 (d), 1983-85 (b).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July 1963 to July 1968, January 1970 to current year.

INSTRUMENTATION.--Water-temperature digital recorder since November 1981, provides one-hour interval punches. Prior to November 1981, water-temperature recorder provided continuous recordings.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (except water years 1969, 1977, 1981, 1983-84), 28.5°C Aug. 16, 1965, Aug. 9, 1980; minimum, 0.0°C on many days during winter periods except water years 1967 and 1976.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 24.5°C on Aug. 15; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
MAR											
06...	1200	139	50	6.5	1.5	.50	750	14.6	106	K10	>200
APR											
09...	1500	169	78	4.9	6.5	1.0	736	12.3	104	42	2300
JUN											
12...	0900	48	52	6.4	13.0	.70	730	10.8	107	33	120
26...	1445	24	58	7.5	15.0	--	--	--	--	--	--
AUG											
07...	1045	31	62	7.0	--	--	--	--	--	--	--
SEP											
26...	1600	8.9	72	7.8	16.5	.90	739	--	--	39	21

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
MAR										
06...	17	10	4.9	1.2	3.3	.30	--	--	7.5	6.9
APR										
09...	17	11	4.8	1.1	2.8	.30	5.6	6.8	7.4	5.9
JUN										
12...	20	11	5.9	1.4	3.3	.40	10	12	7.3	5.4
26...	21	8	6.3	1.4	3.3	.35	--	--	7.5	5.5
AUG										
07...	21	7	6.2	1.4	3.3	.36	--	--	6.3	5.3
SEP										
26...	24	5	7.2	1.5	3.9	.40	20	24	6.9	7.0

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
MAR										
06...	<.10	2.5	34	31	.30	.020	.40	<.010	<.010	<.010
APR										
09...	<.10	2.2	33	28	.40	.050	.90	.010	<.010	<.010
JUN										
12...	<.10	2.8	42	32	.13	.030	.50	<.010	<.010	<.010
26...	.05	2.7	--	36	--	--	--	--	--	<.010
AUG										
07...	.05	2.3	--	34	--	.004	--	--	--	<.010
SEP										
26...	<.10	2.4	42	42	2.0	<.010	.40	.260	.250	.260

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

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
MAR 06...	20	<1	17	<.5	<1	<1	<3	<1	5	<1
APR 09...	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	--	--	--	--	--	--	--	--	--
26...	10	--	--	--	--	--	--	--	8	--
AUG 07...	20	--	--	--	--	--	--	--	11	--
SEP 26...	<10	<1	17	<.5	<1	<1	<3	1	<3	7

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
MAR 06...	<4	2	.3	<10	<1	<1	<1	17	<6	<3
APR 09...	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	--	--	--	--	--	--	--	--	--
26...	--	2	--	--	--	--	--	--	--	--
AUG 07...	--	3	--	--	--	--	--	--	--	--
SEP 26...	<4	3	<.1	<10	<1	<1	<1	22	<6	5

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
SEP 26...	1600	<.4	<.6	4.3	<.4	3.3	<.4	--	.29

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 28...	1430	13	7	.25	75
MAR 06...	1200	139	4	1.5	84
APR 09...	1500	169	2	.91	--
JUN 12...	0900	48	5	.65	90

HUDSON RIVER BASIN

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.0	10.5	11.0	10.0	8.5	9.0	6.0	5.0	5.5	6.0	4.0	4.5
2	11.0	9.0	10.0	11.0	6.5	9.5	5.0	3.5	4.5	6.5	3.5	5.0
3	11.0	7.5	9.0	6.5	4.5	6.0	4.0	3.5	3.5	3.5	1.5	2.5
4	11.5	9.0	10.0	7.0	4.0	5.5	4.0	2.5	3.5	2.5	1.0	2.0
5	11.0	8.0	9.5	10.5	7.5	9.0	3.5	2.0	2.5	2.5	.0	1.5
6	9.5	5.5	7.5	9.0	6.5	8.0	3.0	.5	2.0	2.5	.0	1.5
7	10.0	5.5	8.0	6.0	4.0	5.0	2.5	.5	1.5	3.0	2.0	2.5
8	12.0	9.0	10.5	4.5	2.5	4.0	2.5	.0	1.0	2.0	.0	1.0
9	14.0	11.0	12.5	6.5	4.0	5.5	4.0	2.5	3.0	.0	.0	.0
10	14.5	12.5	13.5	9.0	6.5	8.0	4.0	2.0	3.5	.0	.0	.0
11	14.5	11.0	12.5	10.0	8.5	9.0	5.0	3.5	4.0	.0	.0	.0
12	14.0	10.0	12.0	9.5	5.5	8.0	5.0	3.5	4.0	.0	.0	.0
13	13.5	10.0	11.5	5.5	3.5	4.5	7.0	4.5	5.5	.0	.0	.0
14	12.5	8.5	10.5	3.5	2.0	2.5	6.0	3.5	4.5	.5	.0	.0
15	12.0	8.0	10.0	5.0	1.5	3.5	4.5	3.5	4.0	.5	.0	.5
16	12.0	8.0	10.0	6.0	4.5	5.5	5.5	4.5	5.0	.0	.0	.0
17	12.0	8.0	10.0	4.5	3.0	3.5	7.0	5.0	5.5	.0	.0	.0
18	13.5	10.5	12.0	4.5	2.5	3.5	6.0	4.5	5.0	.0	.0	.0
19	15.0	11.5	13.0	4.0	1.0	3.0	4.5	4.0	4.0	.5	.0	.0
20	15.0	12.0	13.5	1.5	.5	1.0	4.5	3.0	4.0	.0	.0	.0
21	12.5	10.5	11.5	1.5	.5	1.0	3.0	1.0	2.0	.0	.0	.0
22	14.0	12.5	13.5	2.0	.5	1.0	5.0	1.5	3.5	.0	.0	.0
23	13.5	12.0	13.0	2.5	.5	1.5	3.5	2.5	3.0	.0	.0	.0
24	12.5	10.5	11.5	4.0	2.5	3.0	4.0	2.0	3.0	.0	.0	.0
25	12.0	9.0	10.5	5.0	3.0	4.0	4.0	1.0	2.5	.0	.0	.0
26	12.0	10.5	11.0	4.0	2.0	3.0	2.0	.5	1.0	.0	.0	.0
27	14.0	11.0	12.5	4.5	2.0	3.0	1.5	1.0	1.5	.0	.0	.0
28	16.0	12.5	14.5	8.5	3.5	6.0	7.0	1.5	3.5	.0	.0	.0
29	15.0	12.0	14.0	9.0	5.0	7.0	9.0	7.0	8.0	.5	.0	.0
30	12.0	9.0	10.5	6.0	5.0	5.5	7.5	3.5	5.5	.0	.0	.0
31	11.5	9.5	10.5	---	---	---	4.0	2.5	3.5	.0	.0	.0
MONTH	16.0	5.5	11.5	11.0	.5	5.0	9.0	.0	3.5	6.5	.0	.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.0	6.0	1.0	3.0	7.0	2.5	4.5	14.0	9.5	11.5
2	.5	.0	.5	5.5	2.5	3.5	5.5	3.5	4.5	12.5	9.5	11.0
3	.0	.0	.0	4.5	1.0	2.5	3.5	2.5	3.5	12.0	8.5	9.5
4	.0	.0	.0	1.0	.0	.5	9.0	3.0	5.5	15.0	6.0	10.0
5	.0	.0	.0	3.5	.0	2.0	12.5	5.0	8.0	13.0	9.0	11.0
6	.0	.0	.0	3.5	.0	1.5	10.5	6.0	8.5	11.0	10.5	11.0
7	.0	.0	.0	3.5	.0	1.5	9.5	4.5	6.5	15.0	10.0	12.0
8	.0	.0	.0	4.5	1.5	3.0	7.5	4.0	5.5	14.5	8.5	11.0
9	.0	.0	.0	6.0	1.5	3.5	7.0	2.5	4.5	15.5	6.5	10.5
10	.0	.0	.0	5.5	1.5	3.0	8.5	2.0	4.5	18.5	9.5	13.5
11	.0	.0	.0	5.5	1.5	3.5	8.5	4.0	5.5	19.5	11.0	15.0
12	.0	.0	.0	5.5	3.5	4.5	10.5	3.5	6.5	19.0	12.5	15.5
13	.0	.0	.0	5.5	3.0	4 .0	8.0	5.0	6.0	20.0	13.0	16.5
14	.0	.0	.0	4.5	3.0	3.5	6.5	5.0	6.0	19.0	12.5	15.5
15	.0	.0	.0	4.5	1.0	3.0	9.5	6.0	7.5	17.5	12.0	14.5
16	.0	.0	.0	5.5	.5	2.5	12.5	7.0	9.5	13.5	12.0	13.0
17	.5	.0	.0	4.5	2.0	3.5	11.0	4.5	7.5	15.0	12.0	13.0
18	1.0	.0	.5	5.0	.5	2.5	10.5	4.5	7.5	15.5	11.0	13.0
19	1.0	.0	.5	5.5	.0	2.5	11.5	8.0	9.5	13.0	9.5	11.0
20	.5	.0	.0	6.5	3.0	4.5	13.0	8.5	10.0	17.5	9.0	12.5
21	.5	.0	.5	6.0	.5	3.0	15.0	8.0	11.0	14.5	11.5	13.0
22	1.0	.5	.5	6.5	.5	3.0	16.5	9.0	12.5	16.5	9.5	12.5
23	2.0	1.0	1.5	7.0	2.5	4.5	16.0	9.5	12.5	14.5	9.5	12.0
24	4.5	1.0	2.5	5.5	3.5	4.5	10.5	9.0	9.5	16.0	9.5	12.5
25	4.5	2.0	3.0	7.0	1.5	3.5	11.0	8.5	10.0	17.5	10.0	13.5
26	4.0	2.0	3.0	7.0	.5	3.5	15.5	8.5	11.5	14.5	11.0	13.0
27	4.0	1.0	3.0	9.5	1.5	5.5	15.5	9.0	11.5	18.0	11.5	14.5
28	4.0	.0	1.5	9.5	6.5	8.0	10.5	8.0	9.5	13.5	11.5	12.5
29	---	---	---	11.0	6.5	8.5	15.5	7.5	11.0	17.5	10.5	13.5
30	---	---	---	10.0	6.0	7.5	17.0	7.5	12.0	17.0	10.0	13.0
31	---	---	---	5.5	3.0	4.5	---	---	---	15.0	11.5	13.5
MONTH	4.5	.0	.5	11.0	.0	3.5	17.0	2.0	8.0	20.0	6.0	12.5

01362198 ESOPUS CREEK AT SHANDAKEN, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.5	12.5	14.0	20.5	13.5	17.0	21.0	15.5	18.0	19.0	15.0	17.0
2	19.0	11.0	14.5	19.5	15.0	17.5	22.0	15.0	18.0	20.0	15.5	17.5
3	15.5	13.0	14.0	19.0	15.5	17.0	22.0	14.5	18.0	20.0	15.0	17.5
4	18.0	10.5	14.0	22.0	14.0	18.0	21.5	15.0	18.0	22.0	17.5	19.0
5	13.0	11.5	12.0	20.0	15.0	17.5	21.0	15.5	18.0	22.0	19.0	20.5
6	17.0	11.5	13.5	20.5	16.0	18.0	21.5	15.5	18.0	22.0	19.5	21.0
7	18.0	10.5	14.0	19.5	16.0	17.5	20.5	16.5	18.0	23.5	19.5	21.5
8	14.0	11.5	13.0	21.0	15.0	18.0	22.5	17.0	19.5	23.0	20.0	21.5
9	15.5	11.0	13.0	21.5	15.5	18.5	23.5	16.5	20.0	20.5	18.0	19.0
10	20.0	12.0	15.5	20.5	17.0	18.5	23.0	17.0	20.0	20.5	17.5	19.0
11	18.0	12.0	15.0	21.5	16.0	18.5	21.5	17.5	19.5	19.0	15.5	17.5
12	14.5	12.5	13.5	18.5	15.0	16.5	22.5	16.5	19.5	15.0	12.5	14.0
13	12.5	11.0	12.0	23.0	15.0	18.5	22.0	15.5	19.0	15.0	10.5	13.0
14	14.0	10.5	12.0	20.5	16.0	18.5	23.0	18.5	20.5	15.5	10.5	13.0
15	18.0	9.5	14.0	19.0	17.0	18.0	24.5	19.0	21.5	16.0	10.5	13.5
16	16.0	13.0	14.5	23.0	16.5	19.5	21.5	18.5	20.0	16.5	11.0	14.0
17	17.5	13.5	15.0	23.0	15.5	19.0	22.5	16.0	19.0	17.0	12.0	14.5
18	19.0	14.0	16.0	22.0	15.5	18.5	21.0	16.0	18.5	17.0	12.5	15.0
19	18.0	13.5	15.5	23.5	16.0	19.5	20.5	16.5	18.5	18.5	13.5	16.0
20	18.0	12.5	15.0	23.5	18.0	20.5	21.5	17.5	19.5	19.0	14.5	17.0
21	20.0	12.0	16.0	23.0	17.0	20.0	21.0	16.5	18.5	20.0	15.5	17.5
22	19.0	12.5	16.0	23.0	18.0	20.0	19.0	16.0	17.5	18.5	16.0	17.5
23	21.0	15.5	18.0	21.5	15.5	18.5	19.0	14.5	17.0	18.5	16.5	17.5
24	21.5	15.0	17.5	22.0	14.0	18.0	18.0	14.5	16.5	19.0	16.5	17.5
25	17.5	13.0	15.5	23.5	16.0	19.5	17.5	16.0	17.0	17.0	14.0	15.5
26	16.5	13.0	14.5	20.5	19.0	20.0	20.0	17.0	18.0	16.0	12.5	14.5
27	14.5	13.0	14.0	23.5	17.0	20.0	21.5	18.0	19.5	16.0	13.5	15.0
28	14.5	12.5	13.5	22.5	15.5	19.0	21.0	17.0	19.0	14.0	12.0	13.0
29	15.5	13.0	14.0	22.5	16.0	19.0	19.0	17.5	18.0	15.0	11.0	12.5
30	21.0	13.5	16.5	23.5	17.0	20.0	18.0	16.5	17.0	15.0	11.0	12.5
31	---	---	---	19.0	16.5	17.5	17.0	15.5	16.5	---	---	---
MONTH	21.5	9.5	14.5	23.5	13.5	18.5	24.5	14.5	18.5	23.5	10.5	16.5

01362285 WOODLAND CREEK NEAR WOODLAND, NY

LOCATION.--Lat 42°02'06", long 74°21'59", Ulster County, Hydrologic Unit 02020006, at bridge on private road, 0.9 mi upstream from Dougherty Branch, and 2.3 mi southwest of Woodland.

DRAINAGE AREA.--5.18 mi^2.

PERIOD OF RECORD.--August 1983 to November 1984 (discontinued).
CHEMICAL DATA: 1983 (a), 1984 (c), 1985 (a).
MINOR ELEMENT DATA: 1983 (a), 1984 (c), 1985 (a).
ORGANIC DATA: OC--1983 (a), 1984 (c), 1985 (a).

REMARKS.--All anion and cation analyses were performed on water samples which passed through a 0.1-micrometer membrane filter.

WATER QUALITY DATA, NOVEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV 02...	1515	12	24	6.4	10.0	9	8	<.1	2.3

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 02...	.85	.60	.29	2.2	6.3	.80	.04	.02	2.1

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
NOV 02...	14	.10	<.005	<.002	10	7	4	1.1

01362342 HOLLOW TREE BROOK AT LANESVILLE, NY

LOCATION.--Lat 42°08'32", long 74°15'55", Green County, Hydrologic Unit 02020006, at bridge on Diamond Notch Road, 1.1 mi upstream from Stoney Clove Creek, 0.9 mi north of Lanesville, and about 4.8 mi northeast of Phoenecia.

DRAINAGE AREA.--1.95 mi^2.

PERIOD OF RECORD.--January to September 1985.
CHEMICAL DATA: 1985 (b).
MINOR ELEMENT DATA: 1985 (b).
ORGANIC DATA: OC--1985 (b).

REMARKS.--All anion and cation analyses were performed on water samples which passed through a 0.1-micrometer membrane filter.

WATER QUALITY DATA, JANUARY TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
JAN									
21...	1400	1.2	43	6.9	.0	18	12	<.1	5.6
FEB									
12...	1700	--	34	7.0	.5	18	10	<.1	5.9
20...	1230	.50	43	7.2	.5	11	10	<.1	3.2
MAR									
28...	1420	2.2	42	7.1	8.5	18	11	<.1	5.7
MAY									
13...	1550	3.7	41	7.0	12.5	18	9	<.1	5.6
18...	0930	12	36	6.9	8.5	17	12	<.1	5.3
JUN									
26...	1645	1.8	42	7.1	--	19	9	.1	5.9
JUL									
11...	1115	1.8	37	6.9	--	18	11	<.1	5.9
AUG									
07...	1015	1.5	47	6.7	--	19	8	.2	6.1

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
JAN									
21...	.90	.70	.20	5.6	7.8	.78	.03	.01	2.7
FEB									
12...	.90	.80	.26	--	7.7	.86	.04	.02	2.9
20...	.70	.40	.20	9.2	7.2	.80	.06	.02	2.2
MAR									
28...	.92	.67	.22	7.7	5.0	.47	.03	.02	2.5
MAY									
13...	.90	.60	.21	6.7	7.6	.80	.05	.01	2.9
18...	.90	.50	.32	5.8	7.2	.72	.04	.01	2.7
JUN									
26...	.95	.70	.23	10	7.5	.83	.06	<.01	3.4
JUL									
11...	.90	.70	.19	7.6	8.0	.76	.06	.02	3.2
AUG									
07...	.93	.80	.23	9.6	7.2	.82	.04	<.01	3.4

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
JAN								
21...	25	.54	.003	<.003	<10	<3	<1	1.8
FEB								
12...	24	--	.016	.007	<10	3	<1	4.7
20...	17	.43	<.001	<.001	30	<3	4	.40
MAR								
28...	21	.31	.011	.002	7	<2	<1	1.1
MAY								
13...	27	.62	.014	.005	<10	<3	<1	1.3
18...	24	.83	.005	.005	10	<3	<1	2.0
JUN								
26...	27	.41	.024	<.010	20	5	<1	--
JUL								
11...	26	.49	.008	.006	<10	<3	<1	.70
AUG								
07...	28	.50	<.001	<.010	20	6	<1	--

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, 0.3 mi downstream from Little Beaver Kill, 1.5 mi upstream from Ashokan Reservoir, and 2.5 mi south of Mount Tremper.

DRAINAGE AREA.--192 mi^2.

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 above National Geodetic Vertical Datum of 1929. Prior to June 15, 1916, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Since 1924, water diverted from Schoharie Reservoir through Shandaken Tunnel (see Reservoirs in Hudson River Basin) enters Esopus Creek 10.5 mi upstream from station and is included in records of daily discharge. Several measurements of water temperature were made during the year. Gage-height telemeter at station. Intermittent water-quality data for this station are included in section "ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES".

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65,300 ft^3/s Mar. 21, 1980, gage height, 21.94 ft, from rating curve extended above 13,000 ft^3/s on basis of slope-area measurements at gage heights 12.39 ft, 15.15 ft, and 20.70 ft; minimum daily, 8 ft^3/s Oct. 14, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,700 ft^3/s Sept. 27, gage height, 10.67 ft; minimum, 68 ft^3/s Nov. 3, 4, gage height, 3.55 ft; minimum daily, 68 ft^3/s Nov. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	129	417	621	280	1200	695	407	412	381	409	189
2	277	125	410	636	270	1160	577	418	379	363	304	178
3	273	73	434	610	260	1120	553	439	359	310	275	172
4	271	68	472	595	249	1080	542	424	345	289	260	176
5	268	84	441	577	259	1230	552	411	375	273	248	170
6	263	90	454	556	257	1160	640	415	489	228	238	164
7	258	88	418	538	248	1100	707	415	356	235	233	162
8	256	90	409	517	231	1130	721	397	350	221	279	162
9	253	91	393	445	253	1140	694	383	347	224	244	194
10	253	95	385	448	273	1110	659	331	333	219	229	214
11	247	97	396	458	291	1090	627	324	319	214	220	212
12	243	101	404	472	268	1510	573	350	350	238	214	189
13	240	105	439	478	457	1490	552	461	467	300	205	181
14	237	106	557	447	330	1410	545	396	465	261	202	175
15	234	107	560	414	285	1350	532	372	455	272	200	168
16	230	109	570	354	268	1280	524	318	470	289	201	165
17	223	112	578	403	258	1240	502	323	464	260	193	163
18	195	114	585	413	253	1190	478	695	470	243	195	160
19	190	116	605	378	255	1140	507	626	449	232	192	158
20	185	117	633	348	478	1120	525	566	436	222	192	156
21	183	116	623	323	626	1080	517	518	429	218	185	155
22	192	115	840	355	625	925	518	479	423	233	180	154
23	197	114	892	377	690	744	513	443	419	212	175	154
24	163	113	833	368	927	726	504	413	420	203	171	162
25	157	113	811	327	1230	680	499	434	334	201	182	156
26	157	113	727	309	1220	617	488	409	322	244	196	154
27	149	113	543	318	1190	610	472	397	317	259	183	2690
28	146	112	533	322	1160	624	460	466	338	233	172	1660
29	146	346	588	290	---	666	445	470	439	222	168	742
30	144	427	608	282	---	708	428	406	410	214	179	587
31	130	---	598	273	---	704	---	384	---	266	222	---
TOTAL	6640	3699	17156	13252	13391	32334	16549	13290	11941	7779	6746	10122
MEAN	214	123	553	427	478	1043	552	429	398	251	218	337
MAX	280	427	892	636	1230	1510	721	695	489	381	409	2690
MIN	130	68	385	273	231	610	428	318	317	201	168	154

CAL YR 1984 TOTAL 280837 MEAN 767 MAX 17900 MIN 68
WTR YR 1985 TOTAL 152899 MEAN 419 MAX 2690 MIN 68

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 east of Mount Marion, 1.6 mi downstream from Plattekill Creek, and 4.5 mi upstream from mouth.

DRAINAGE AREA.--419 mi^2.

PERIOD OF RECORD.--March 1970 to current year. Monthly discharge only May 1907 to March 1918, published in WSP 1302. Occasional miscellaneous measurements, 1902, 1951, 1956, 1966, 1967, 1969.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 40.16 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 12, 1970, nonrecording gage at same site (at different datum May 1907 to March 1918, and at present datum June 9, 1966 to Aug. 12, 1970).

REMARKS.--Estimated daily discharges: Jan. 7 to Feb. 21. Records good except those for estimated daily discharges, which are fair. Flow from 256 mi^2 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 upstream from Ashokan Reservoir. Diversion from Plattekill Creek for water supply of village of 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 mi^2, together with spillage during high stages from the upstream reservoirs. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--15 years (1971-85), 523 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,000 ft^3/s Apr. 26, 1910, gage height, 25.10 ft, datum then in use; maximum discharge since March 1970, 19,500 ft^3/s Mar. 22, 1980, gage height 24.31 ft; minimum discharge, 9.7 ft^3/s Sept. 16, 17, 1980, gage height, 11.79 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,300 ft^3/s Sept. 27, gage height, 15.75 ft; minimum, 18 ft^3/s Oct. 1, 14, 15-20, 21; minimum gage height, 12.00 ft Oct. 14, 15-20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	23	58	159	39	196	141	77	91	68	490	84
2	22	22	52	175	38	180	156	74	90	57	342	65
3	24	20	51	177	37	163	151	82	76	49	207	53
4	24	20	77	166	36	146	155	105	69	49	145	45
5	22	31	74	160	36	169	155	99	62	41	112	40
6	21	42	76	141	36	228	153	92	65	37	90	37
7	20	35	75	120	36	211	155	92	61	37	75	34
8	20	29	61	110	36	209	175	87	59	37	118	43
9	19	28	58	92	36	241	182	79	64	33	119	119
10	19	28	56	78	36	254	178	73	60	34	85	163
11	19	28	55	70	36	247	166	69	53	42	69	204
12	19	29	58	72	38	573	164	64	53	52	60	151
13	19	31	70	74	45	947	155	63	55	147	54	120
14	18	30	89	74	90	648	151	61	49	99	49	105
15	18	28	103	70	88	485	149	55	43	102	47	85
16	18	26	103	66	86	374	147	51	46	114	47	73
17	18	25	102	64	76	317	139	50	55	98	42	61
18	18	25	97	60	72	279	126	212	65	75	37	55
19	18	25	97	58	68	233	121	265	67	59	35	50
20	18	24	107	56	68	216	124	198	56	49	38	46
21	18	24	110	54	72	192	126	156	53	41	38	44
22	21	24	225	52	88	174	124	135	46	60	34	39
23	48	24	372	50	113	163	118	116	41	68	31	39
24	40	24	324	48	205	154	109	103	45	59	28	41
25	31	23	271	46	312	145	103	95	49	46	29	50
26	28	23	222	45	295	133	99	87	45	63	37	44
27	28	23	193	43	258	123	91	80	39	96	37	333
28	26	23	173	42	219	121	88	87	41	70	33	886
29	25	44	169	41	---	121	85	118	69	56	30	456
30	25	69	174	41	---	116	83	107	85	48	33	294
31	25	---	165	40	---	115	---	93	---	101	97	---
TOTAL	707	850	3917	2544	2595	7873	4069	3125	1752	1987	2688	3859
MEAN	22.8	28.3	126	82.1	92.7	254	136	101	58.4	64.1	86.7	129
MAX	48	69	372	177	312	947	182	265	91	147	490	886
MIN	18	20	51	40	36	115	83	50	39	33	28	34

CAL YR 1984 TOTAL 222953 MEAN 609 MAX 11500 MIN 18
WTR YR 1985 TOTAL 35966 MEAN 98.5 MAX 947 MIN 18

01364959 RONDOUT CREEK ABOVE RED BROOK, AT PEEKAMOOSE, NY

LOCATION.--Lat 41°56'13", long 74°22'30", Ulster County, Hydrologic Unit 02020007, at State Forest Preserve boundary, 500 ft upstream from Red Brook, 0.8 mi upstream from outlet of Peekamoose Lake, and 0.8 mi north of Peekamoose.

DRAINAGE AREA.--5.36 mi².

PERIOD OF RECORD.--June 1984 to current year.
CHEMICAL DATA: 1984 (b), 1985 (c).
MINOR ELEMENT DATA: 1984 (b), 1985 (c).
ORGANIC DATA: OC--1984-85 (b).

REMARKS.--All anion and cation analyses were performed on water samples which passed through a 0.1-micrometer membrane filter.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
MAY									
13...	1040	13	21	5.3	12.0	7	--	<.1	1.8
18...	1130	44	24	5.0	9.0	6	--	<.1	1.6
JUN									
12...	1835	5.1	33	4.2	--	7	--	<.1	1.9
26...	1000	--	21	6.3	--	8	6	<.1	2.0
JUL									
16...	1220	22	21	5.0	14.0	6	--	<.1	1.6
AUG									
15...	1200	1.2	21	5.6	--	7	5	.2	1.8

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
MAY									
13...	.70	.40	.27	.20	6.5	.66	.05	<.01	2.2
18...	.60	.40	.29	-.20	6.4	.68	.04	.01	2.1
JUN									
12...	.63	.50	.22	-3.4	6.5	.64	.05	.02	2.4
26...	.63	.50	.20	.80	6.8	.64	.03	<.01	2.5
JUL									
16...	.57	.40	.17	.00	6.7	.52	.05	.01	2.2
AUG									
15...	.62	.50	.16	.40	6.4	.61	.04	<.01	2.2

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
MAY								
13...	--	.37	.008	<.001	220	3	71	1.7
18...	--	.39	.005	<.001	360	<3	97	2.2
JUN								
12...	--	.25	.010	.002	80	<3	37	--
26...	15	.20	<.001	<.010	40	5	27	--
JUL								
16...	--	.13	.007	<.001	220	7	65	2.0
AUG								
15...	14	.15	<.001	<.010	140	3	43	--

01364960 RONDOUT CREEK BELOW RED BROOK, AT PEEKAMOOSE, NY

LOCATION.--Lat 41°56'06", long 74°22'34", Ulster County, Hydrologic Unit 02020007, 300 ft upstream from private bridge at Peekamoose, 600 ft downstream from Red Brook, and 0.6 mi upstream from outlet of Peekamoose Lake.

DRAINAGE AREA.--6.21 mi^2.

PERIOD OF RECORD.--August 1983 to May 1984, November 1984 to February 1985 (discontinued). Prior to October 1983, published as Rondout Creek at Peekamoose.
CHEMICAL DATA: 1983 (a), 1984 (c), 1985 (b).
MINOR ELEMENT DATA: 1983 (a), 1984 (c), 1985 (c).
ORGANIC DATA: OC--1983 (a), 1984-85 (c).

REMARKS.--All anion and cation analyses were performed on water samples which passed through a 0.1-micrometer membrane filter.

WATER QUALITY DATA, NOVEMBER 1984 TO FEBRUARY 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV									
02...	1315	1.6	23	6.1	9.0	8	7	<.1	2.1
29...	1930	--	--	4.9	--	9	--	<.1	2.2
DEC									
12...	1630	6.0	23	5.8	3.5	8	5	<.1	2.1
JAN									
22...	1145	6.3	25	5.7	.0	8	--	<.1	2.1
FEB									
24...	1820	36	25	5.1	.5	8	--	<.1	2.0

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV									
02...	.71	.60	.41	1.8	7.5	.90	<.10	<.01	3.1
29...	.80	.50	.78	-.20	6.8	1.2	.04	<.03	2.4
DEC									
12...	.68	.50	.29	.50	6.6	.70	.03	.02	2.5
JAN									
22...	.70	.50	.24	.10	6.6	.63	.04	.01	2.3
FEB									
24...	.70	.40	.40	.20	5.8	.64	.04	.02	2.0

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
NOV								
02...	17	.17	<.005	<.002	30	5	12	2.7
29...	--	.92	<.005	<.002	440	13	190	4.0
DEC								
12...	17	.35	<.005	<.002	70	<3	34	.70
JAN								
22...	--	.38	.006	<.001	100	<3	34	1.0
FEB								
24...	--	.94	.006	.004	260	6	110	1.1

HUDSON RIVER BASIN

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 downstream from small tributary, 350 ft upstream from bridge on county road, 1.1 mi upstream from Sugarloaf Brook, 1.1 mi east of Lowes Corners, and 1.9 mi southwest of Sundown.

DRAINAGE AREA.--38.5 mi^2.

PERIOD OF RECORD.--February 1937 to current year.

REVISED RECORDS.--WSP 1702: 1952.

GAGE.--Water-stage recorder. Datum of gage is 874.44 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 4, 1938, nonrecording gage at highway bridge 350 ft downstream at datum 847.00 ft above NGVD (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 downstream; Oct. 4, 1938 to July 3, 1949, datum 847.00 ft above NGVD and July 4, 1949 to July 5, 1951, datum 846.00 ft above NGVD (levels by Board of Water Supply, City of New York).

REMARKS.--Estimated daily discharges: Oct. 1, 3-21, 25-26, 28-31, Nov. 1-4, 8-9, 15, 19-27, Dec. 25-31, Jan. 1 to Feb. 7, and Feb. 18-22. Records fair except those for estimated daily discharges, which are poor. Intermittent water-quality data for this station are included in section "ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES".

AVERAGE DISCHARGE.--48 years, 97.8 ft^3/s, 34.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,600 ft^3/s July 22, 1938, from rating curve extended above 2,600 ft^3/s; maximum gage height, 10.5 ft Mar. 21, 1980, from floodmarks; minimum discharge, 3.3 ft^3/s Sept. 16, 17, Oct. 17, 18, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	1530	*1,660	*5.61	No other peak greater than base discharge.			

Minimum daily discharge, 7.4 ft^3/s Oct. 18; minimum discharge not determined (occurred during period of estimated daily discharges).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	8.6	39	80	28	99	83	44	72	41	221	44
2	11	8.4	32	92	26	96	83	43	53	37	142	38
3	9.8	8.4	38	86	24	88	76	72	48	34	119	34
4	9.2	8.6	42	78	23	79	78	59	44	32	105	32
5	8.6	22	33	70	25	140	88	49	44	30	92	31
6	8.2	20	35	66	27	104	100	50	43	31	82	30
7	7.6	14	30	70	25	88	97	50	39	32	81	29
8	7.8	11	29	58	23	94	99	45	40	28	106	28
9	8.0	10	29	44	25	94	92	43	39	33	75	49
10	8.0	15	30	41	25	90	85	41	37	34	65	48
11	7.8	15	35	40	24	89	82	40	33	29	59	35
12	8.2	14	35	40	36	369	78	51	33	103	53	31
13	8.0	13	48	41	56	275	76	77	33	196	48	30
14	7.8	12	56	42	35	219	76	52	31	99	49	29
15	7.6	11	49	37	29	184	75	48	29	147	45	27
16	7.6	12	51	33	27	158	73	48	40	167	48	26
17	7.6	12	54	33	25	144	67	53	34	112	41	25
18	7.4	11	54	32	24	126	65	132	47	94	38	24
19	7.6	10	60	31	23	110	67	94	33	81	37	24
20	8.0	10	71	30	23	106	73	80	29	71	39	23
21	7.6	9.8	64	30	23	96	66	74	27	108	35	22
22	16	9.8	135	29	25	87	64	69	24	208	33	22
23	24	10	103	28	51	83	62	64	28	107	31	22
24	14	10	86	28	126	80	59	59	28	85	30	25
25	10	10	72	27	188	73	57	54	24	76	56	24
26	11	10	64	27	137	67	54	51	23	165	63	21
27	12	10	66	26	128	65	52	52	22	158	42	422
28	10	11	74	26	109	75	50	91	35	109	34	203
29	9.8	120	110	26	---	79	48	77	96	95	31	131
30	9.6	59	90	25	---	78	46	55	57	84	46	104
31	9.0	---	84	26	---	75	---	50	---	145	74	---
TOTAL	298.6	505.6	1798	1342	1340	3610	2171	1867	1165	2771	2020	1633
MEAN	9.63	16.9	58.0	43.3	47.9	116	72.4	60.2	38.8	89.4	65.2	54.4
MAX	24	120	135	92	188	369	100	132	96	208	221	422
MIN	7.4	8.4	29	25	23	65	46	40	22	28	30	21
CFSM	.25	.44	1.51	1.12	1.24	3.01	1.88	1.56	1.01	2.32	1.69	1.41
IN.	0.29	0.49	1.74	1.30	1.29	3.49	2.10	1.80	1.13	2.68	1.95	1.58

CAL YR 1984 TOTAL 38118.9 MEAN 104 MAX 2830 MIN 7.4 CFSM 2.70 IN. 36.83
WTR YR 1985 TOTAL 20521.2 MEAN 56.2 MAX 422 MIN 7.4 CFSM 1.46 IN. 19.83

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 downstream from Red Brook, and 0.6 mi upstream from bridge on State Highway 55.

DRAINAGE AREA.--20.9 mi^2.

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 13 to Feb. 15. Records fair except those for period of no gage-height record Jan. 13 to Feb. 15, which are poor. Slight seasonal regulation caused by Beaverdam Pond on Red Brook. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--47 years, 38.9 ft^3/s, 25.28 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,640 ft^3/s Oct. 15, 1955, gage height, 5.02 ft, from rating curve extended above 1,300 ft^3/s on basis of slope-area measurement at gage height 4.68 ft; minimum discharge, 1.4 ft^3/s Nov. 1, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 12	0945	*794	*2.28	Sept. 27	1430	740	2.23

Minimum discharge, 3.7 ft^3/s all or part of each day Oct. 13-21, gage height, 0.46 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	5.2	24	36	14	38	40	14	30	11	72	19
2	5.1	5.0	18	38	12	37	37	14	20	8.6	36	14
3	4.5	5.2	22	31	11	32	35	28	17	8.9	28	12
4	4.4	5.0	24	29	11	27	37	21	15	9.3	24	11
5	4.1	16	18	27	11	52	36	19	15	8.8	18	10
6	4.1	11	18	25	12	40	35	22	15	10	16	12
7	4.3	8.9	14	25	11	33	32	23	12	9.4	19	10
8	5.9	7.3	14	21	11	38	40	18	13	7.9	33	8.8
9	5.2	7.4	13	16	10	40	35	16	13	7.5	23	44
10	4.4	9.9	13	18	10	38	31	15	12	7.5	21	43
11	4.1	8.5	16	17	10	38	31	14	10	7.0	17	26
12	4.1	8.1	18	16	12	366	28	15	10	10	16	18
13	3.9	7.4	24	18	27	152	27	17	11	13	14	14
14	3.8	6.9	24	20	21	97	29	14	9.3	9.4	13	11
15	3.7	6.4	21	18	18	72	27	13	8.6	46	12	10
16	3.7	6.3	21	17	16	58	26	12	18	40	13	12
17	3.7	6.2	20	16	15	52	26	18	13	16	10	10
18	3.7	6.1	19	16	14	45	23	74	21	12	9.3	9.1
19	3.8	6.1	22	15	13	39	25	38	13	9.6	9.1	8.4
20	4.1	5.8	28	15	13	39	26	28	11	8.3	10	7.8
21	4.6	5.6	23	14	13	35	23	22	10	45	8.7	7.4
22	11	5.5	78	14	15	33	21	20	9.3	144	8.1	7.2
23	12	5.5	55	13	42	32	22	16	12	51	7.9	7.3
24	6.6	5.6	40	13	94	31	21	15	13	27	7.6	8.5
25	5.5	5.6	34	13	102	28	20	13	9.5	19	19	7.9
26	8.3	5.5	27	12	64	25	18	15	8.8	43	30	7.4
27	6.9	5.4	26	12	55	23	16	15	8.0	41	18	216
28	6.8	5.7	29	12	43	28	15	47	10	26	13	92
29	9.3	99	47	11	---	28	15	38	19	20	12	47
30	7.3	37	45	11	---	27	15	25	15	17	23	33
31	5.8	---	34	12	---	28	---	21	---	55	32	---
TOTAL	169.9	329.1	829	571	700	1651	812	680	401.5	748.2	592.7	743.8
MEAN	5.48	11.0	26.7	18.4	25.0	53.3	27.1	21.9	13.4	24.1	19.1	24.8
MAX	12	99	78	38	102	366	40	74	30	144	72	216
MIN	3.7	5.0	13	11	10	23	15	12	8.0	7.0	7.6	7.2
CFSM	.26	.53	1.28	.88	1.20	2.55	1.30	1.05	.64	1.15	.91	1.19
IN.	0.30	0.59	1.48	1.02	1.25	2.94	1.45	1.21	0.71	1.33	1.05	1.32

CAL YR 1984 TOTAL 15250.4 MEAN 41.7 MAX 759 MIN 3.7 CFSM 2.00 IN. 27.14
WTR YR 1985 TOTAL 8228.2 MEAN 22.5 MAX 366 MIN 3.7 CFSM 1.08 IN. 14.65

HUDSON RIVER BASIN

01367500 RONDOUT CREEK AT ROSENDALE, NY

LOCATION.--Lat 41°50'35", long 74°05'11", Ulster County, Hydrologic Unit 02020007, on left bank 30 ft upstream from bridge on James Street in Rosendale, and 3 mi upstream from Wallkill River.

DRAINAGE AREA.--386 mi^2 (see REMARKS below).

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 WDR NY-70-1.

REVISED RECORDS.--WSP 641: Drainage Area. WSP 756: 1933.

GAGE.--Water-stage recorder. Datum of gage is 32.83 ft above National Geodetic Vertical Datum of 1929. Prior to January 1919, nonrecording gage at site 150 ft downstream at datum 38.83 ft above NGVD. Aug. 3, 1926 to Sept. 10, 1969, at present site at datum 42.83 ft above NGVD. 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 upstream at datum 44.03 ft above NGVD.

REMARKS.--Estimated daily discharges: Jan. 7 to Feb. 24. Records good, except for flows below 100 ft^3/s, which are fair, and those for estimated daily discharges, 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 mi^2, together with spillage during high flow from Rondout Reservoir. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 35,800 ft^3/s Oct. 16, 1955, gage height, 26.8 ft, datum then in use, from floodmarks, from rating curve extended above 15,000 ft^3/s on basis of contracted-opening measurement at gage height 33.93 ft; minimum discharge, 2.2 ft^3/s July 16, 1965; minimum daily, 3.0 ft^3/s July 16, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,500 ft^3/s Sept. 27, gage height, 15.75 ft; minimum, 56 ft^3/s Nov. 23, gage height, 8.82 ft; minimum daily discharge, 57 ft^3/s Nov. 23, 27-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	75	227	340	110	544	369	169	424	184	871	267
2	79	77	175	391	110	489	425	157	419	139	450	164
3	78	65	161	376	110	452	368	378	291	118	284	135
4	75	61	296	334	110	410	363	645	253	107	214	122
5	72	71	248	330	110	461	348	393	222	94	174	97
6	69	121	250	291	110	636	349	340	255	92	154	88
7	67	109	246	270	120	459	378	365	223	121	135	91
8	67	87	175	240	120	507	510	297	227	103	162	86
9	66	78	166	210	130	706	525	244	298	91	263	119
10	66	75	152	170	130	611	449	223	238	110	157	525
11	65	78	155	160	140	551	408	211	209	100	123	494
12	63	83	181	180	160	2460	387	194	173	92	108	304
13	65	79	222	190	300	2690	346	231	173	173	98	232
14	64	71	275	190	840	1610	295	236	154	165	91	170
15	70	68	276	180	700	1170	309	188	134	318	89	125
16	105	67	266	170	600	916	302	173	147	314	90	101
17	106	65	254	160	520	693	286	179	188	229	87	119
18	105	64	240	150	450	588	256	1150	167	159	82	96
19	95	63	212	150	420	498	248	904	222	130	76	90
20	66	60	249	140	400	472	294	536	165	111	75	85
21	62	59	254	130	360	445	284	414	137	109	76	81
22	66	58	541	130	330	409	257	342	128	1060	75	78
23	100	57	854	120	320	376	236	273	114	633	71	75
24	120	62	559	120	500	351	228	239	108	332	67	78
25	102	66	478	120	1430	329	220	215	105	217	73	87
26	112	59	390	120	1120	300	210	187	105	269	128	81
27	103	57	342	120	890	283	202	178	100	385	147	2550
28	85	57	310	110	657	279	185	236	98	251	103	3680
29	81	166	358	110	---	282	179	803	162	180	86	1400
30	91	430	426	110	---	275	180	479	247	154	111	825
31	81	---	370	110	---	268	---	345	---	160	451	---
TOTAL	2520	2588	9308	5922	11297	20520	9396	10924	5886	6700	5171	12445
MEAN	81.3	86.3	300	191	403	662	313	352	196	216	167	415
MAX	120	430	854	391	1430	2690	525	1150	424	1060	871	3680
MIN	62	57	152	110	110	268	179	157	98	91	67	75

CAL YR 1984 TOTAL 273891 MEAN 748 MAX 14100 MIN 57
WTR YR 1985 TOTAL 102677 MEAN 281 MAX 3680 MIN 57

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 upstream from bridge on U.S. Highway 44, 500 ft downstream from Shawangunk Kill, and 0.7 mi northwest of Gardiner.

DRAINAGE AREA.--711 mi^2.

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 above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 7-9 and Jan. 7-Feb. 24. Records good except those ~~for estimated daily discharges,~~ which are poor. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--61 years, 1,059 ft^3/s, 20.23 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,800 ft^3/s Oct. 16, 1955, gage height, 19.81 ft; minimum, 9.5 ft^3/s Sept. 28, 1964; minimum gage height, 1.59 ft Aug. 14, 15, 16, 19, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Feb. 14	1400	ice jam	*7.17	Sept. 28	0230	*5,140	6.88

Minimum discharge, 44 ft^3/s Oct. 18, gage height, 1.86 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	178	686	772	220	1070	909	306	1050	476	603	202
2	132	155	499	712	220	965	1030	313	1630	371	730	262
3	111	156	428	726	210	864	851	1980	1150	331	522	231
4	110	109	653	693	210	761	740	3480	788	267	386	188
5	127	194	641	632	210	945	681	2620	639	254	357	169
6	127	234	595	570	210	1690	637	2060	869	222	242	138
7	113	295	540	500	210	1390	641	1610	948	242	233	144
8	113	246	520	450	210	1230	990	1240	705	250	570	156
9	112	216	490	400	210	1360	1040	964	710	284	457	420
10	97	163	467	350	210	1210	890	754	735	225	338	631
11	98	171	491	390	230	968	710	653	561	221	282	550
12	108	239	510	430	270	2590	665	614	519	194	254	559
13	92	188	521	400	430	2430	572	870	482	380	210	361
14	91	182	481	380	600	1690	565	642	425	328	202	282
15	105	178	476	360	850	1290	535	508	403	380	198	240
16	105	165	370	340	580	1060	535	440	387	335	191	185
17	86	160	439	330	470	906	556	392	1090	280	171	161
18	51	160	401	320	420	837	481	1830	1020	281	171	153
19	68	159	371	310	390	754	469	1800	773	230	169	163
20	100	153	404	300	360	692	509	1250	611	180	146	117
21	98	146	468	290	350	649	510	871	474	171	143	166
22	119	145	1240	280	420	614	522	828	374	439	121	101
23	191	145	1960	280	650	591	457	655	365	460	123	93
24	280	149	1310	270	1800	603	431	562	320	371	124	153
25	236	156	977	270	2610	697	422	450	456	297	142	142
26	248	154	780	250	2020	601	416	401	477	325	142	109
27	192	150	588	240	1590	545	460	421	404	529	216	1940
28	189	152	581	230	1310	492	396	581	338	855	216	4200
29	201	382	646	230	---	514	370	1970	425	694	232	3070
30	169	806	948	220	---	489	347	1460	383	470	191	2630
31	186	---	916	220	---	522	---	936	---	379	227	---
TOTAL	4156	6086	20397	12145	17470	31019	18337	33461	19511	10721	8309	17916
MEAN	134	203	658	392	624	1001	611	1079	650	346	268	597
MAX	280	806	1960	772	2610	2590	1040	3480	1630	855	730	4200
MIN	51	109	370	220	210	489	347	306	320	171	121	93
CFSM	.19	.29	.93	.55	.88	1.41	.86	1.52	.91	.49	.38	.84
IN.	0.22	0.32	1.07	0.64	0.91	1.62	0.96	1.75	1.02	0.56	0.43	0.94

CAL YR 1984 TOTAL 541099 MEAN 1478 MAX 14500 MIN 51 CFSM 2.08 IN. 28.31
WTR YR 1985 TOTAL 199528 MEAN 547 MAX 4200 MIN 51 CFSM .77 IN. 10.44

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 downstream from Red Oak Mill dam, and 4.5 mi northeast of village of Wappingers Falls.

DRAINAGE AREA.--181 mi^2.

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 above National Geodetic Vertical Datum of 1929, (levels by Corps of Engineers). May 1903 to June 1905 staff gage at site 2.5 mi downstream at different datum. Aug. 7, 1928 to Sept. 25, 1931, water-stage recorder at site 2 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Jan. 10-24 and Feb. 3-4. Records fair. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--57 years (1929-85), 253 ft^3/s, 18.98 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s Aug. 19, 1955, gage height, 19.60 ft, from floodmarks in gage shelter, from rating curve extended above 5,000 ft^3/s on basis of flow-over-dam and contracted-opening measurement at gage height 18.02 ft and contracted-opening and flow-over-road measurement at gage height 19.60 ft; minimum, 0.90 ft^3/s Sept. 20, 21, 1964, gage height, 2.05 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 28	0415	*1,500	*5.92	No other peak greater than base discharge.			

Minimum discharge, 15 ft^3/s Oct. 18, gage height, 2.37 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	22	45	78	33	163	182	89	147	79	323	172
2	20	22	37	82	33	153	182	95	135	62	343	129
3	22	22	37	82	33	141	154	249	108	53	236	103
4	22	23	56	74	33	128	154	332	90	63	178	86
5	21	32	55	72	33	153	142	249	86	50	145	75
6	22	42	60	59	33	207	135	219	105	44	122	78
7	21	38	65	73	33	169	132	224	93	78	108	73
8	21	31	51	62	32	178	185	193	91	81	189	77
9	20	29	46	45	33	193	211	163	135	61	290	239
10	20	28	45	42	33	183	181	148	133	65	219	340
11	18	28	64	41	33	166	159	136	120	54	174	372
12	17	47	62	40	49	330	148	130	96	44	142	264
13	18	61	59	39	181	521	137	139	103	112	121	207
14	19	52	56	38	197	426	132	130	87	102	105	171
15	19	41	53	38	163	363	144	108	75	181	96	145
16	18	36	49	37	143	311	155	99	86	249	91	126
17	17	33	45	36	138	282	141	96	94	194	90	111
18	16	30	44	36	122	253	122	215	84	136	80	100
19	17	29	42	35	122	224	116	239	87	102	71	96
20	18	27	45	35	123	213	134	190	73	85	71	88
21	20	25	48	35	113	200	130	153	72	72	70	83
22	24	25	102	35	119	180	120	172	62	261	64	78
23	35	25	152	36	169	177	142	162	55	236	59	71
24	38	24	130	37	230	167	131	137	50	170	53	69
25	30	24	119	38	251	159	122	117	47	127	57	72
26	30	24	107	37	225	149	117	100	49	133	79	74
27	27	26	98	36	225	137	109	97	47	181	90	267
28	26	26	86	36	194	135	103	114	56	139	77	1150
29	26	38	85	35	---	128	99	178	92	108	64	712
30	25	49	99	33	---	128	93	146	103	89	68	490
31	25	---	89	32	---	137	---	114	---	84	190	---
TOTAL	691	959	2131	1434	3126	6454	4212	4933	2661	3495	4065	6118
MEAN	22.3	32.0	68.7	46.3	112	208	140	159	88.7	113	131	204
MAX	38	61	152	82	251	521	211	332	147	261	343	1150
MIN	16	22	37	32	32	128	93	89	47	44	53	69
CFSM	.12	.18	.38	.26	.62	1.15	.77	.88	.49	.62	.72	1.13
IN.	0.14	0.20	0.44	0.29	0.64	1.33	0.87	1.01	0.55	0.72	0.84	1.26

CAL YR 1984	TOTAL	117954	MEAN	322	MAX	6360	MIN	14	CFSM	1.78	IN.	24.24
WTR YR 1985	TOTAL	40279	MEAN	110	MAX	1150	MIN	16	CFSM	.61	IN.	8.28

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 downstream from New Croton Dam, and 1.8 mi northeast of Croton-On-Hudson.

DRAINAGE AREA.--378 mi^2.

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 for "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".

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 50 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 1, 1941, supplementary water-stage recorder and concrete control at site 1.1 mi downstream at Quaker Bridge.

REMARKS.--Estimated daily discharges: Jan. 10-25, 27-30, and Feb. 3-13, 17-21. Records good above 50 ft^3/s and fair below, except those for estimated daily discharges, which are poor. 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. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,400 ft^3/s Oct. 16, 1955, gage height, 18.44 ft, from floodmarks, from rating curve extended above 9,700 ft^3/s on basis of slope-area measurements of peak flow; minimum daily, 0.1 ft^3/s Mar. 14, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 337 ft^3/s Mar. 13, gage height, 2.62 ft; minimum, 2.0 ft^3/s Apr. 30, May 1, gage height, 0.77 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	5.6	6.6	9.2	35	25	12	2.0	3.7	3.1	4.1	3.9
2	11	5.6	7.1	9.9	49	20	9.9	2.5	3.2	3.3	3.3	3.8
3	11	5.7	7.5	70	72	15	10	4.9	2.8	3.5	3.3	3.7
4	11	5.9	6.4	111	25	39	10	3.2	3.0	3.7	3.3	3.8
5	11	6.7	5.9	163	11	40	10	2.8	3.3	3.9	3.3	3.8
6	9.7	5.6	6.5	145	11	99	9.6	2.9	3.0	4.0	3.3	3.9
7	4.9	5.6	6.4	132	11	62	9.4	2.6	2.9	3.9	3.6	4.0
8	5.0	5.4	6.2	149	11	82	9.5	2.4	3.0	3.9	3.9	4.1
9	5.2	5.4	5.9	139	11	104	11	2.3	2.9	3.9	3.5	4.4
10	5.3	5.6	5.9	140	11	82	12	2.3	2.8	3.9	3.5	4.5
11	5.0	6.0	5.9	100	11	56	13	2.4	2.9	3.9	3.6	4.7
12	5.2	6.0	6.1	120	11	172	14	2.4	2.8	4.1	3.7	4.6
13	5.7	5.3	6.3	140	35	297	13	2.4	2.8	4.7	3.7	4.6
14	7.0	5.5	6.1	120	129	208	13	2.8	2.7	4.7	3.7	4.4
15	6.9	5.6	6.5	100	80	143	14	3.1	2.7	5.2	3.8	4.3
16	7.9	5.7	6.0	120	50	108	14	2.7	4.3	5.3	3.9	4.3
17	8.5	5.7	5.7	140	25	100	14	3.0	3.2	5.3	3.8	4.3
18	9.2	5.5	5.9	140	15	92	14	3.2	3.2	5.4	3.8	4.2
19	9.3	5.9	6.6	200	11	60	14	2.7	2.9	5.5	3.6	4.2
20	11	5.8	7.6	200	11	49	11	2.4	2.8	5.7	3.5	4.3
21	11	5.5	6.6	150	11	40	11	2.6	2.7	5.3	3.5	4.3
22	12	5.5	6.2	110	11	58	11	2.7	2.8	4.4	3.5	4.3
23	8.7	5.7	6.8	110	11	50	11	2.5	3.0	3.6	3.6	4.4
24	8.5	6.0	8.3	110	11	51	12	2.4	3.5	3.6	3.7	4.6
25	6.5	6.6	8.3	110	11	42	12	2.4	3.3	3.5	3.8	4.5
26	5.1	6.6	7.4	77	11	12	12	2.5	3.4	4.1	5.0	4.7
27	5.0	6.3	7.1	70	33	11	12	3.1	3.8	3.9	3.8	6.9
28	5.0	6.2	7.0	60	35	11	12	4.0	4.2	3.7	3.8	4.4
29	5.3	6.7	7.4	50	---	11	12	3.8	3.8	3.7	3.8	4.2
30	5.5	6.0	8.6	60	---	14	6.2	3.2	3.1	3.6	4.0	4.2
31	5.6	---	8.6	60	---	18	---	3.2	---	3.9	4.0	---
TOTAL	239.0	175.2	209.4	3415.1	759	2171	348.6	87.4	94.5	130.2	114.7	130.3
MEAN	7.71	5.84	6.75	110	27.1	70.0	11.6	2.82	3.15	4.20	3.70	4.34
MAX	12	6.7	8.6	200	129	297	14	4.9	4.3	5.7	5.0	6.9
MIN	4.9	5.3	5.7	9.2	11	11	6.2	2.0	2.7	3.1	3.3	3.7

CAL YR 1984 TOTAL 229643.8 MEAN 627 MAX 12600 MIN 4.9
WTR YR 1985 TOTAL 7874.4 MEAN 21.6 MAX 297 MIN 2.0

01376500 SAW MILL RIVER AT YONKERS, NY

LOCATION.--Lat 40°56'11", long 73°53'12", Westchester County, Hydrologic Unit 02030101, on right bank in Yonkers, just upstream from Old Croton aqueduct, near intersection of Nepperhan Avenue and Center Street, and 1.2 mi upstream from mouth.

DRAINAGE AREA.--25.6 mi^2.

PERIOD OF RECORD.--November 1943 to September 1973, April 1974 to current year.

REVISED RECORDS.--WDR NY-71-1: 1965, 1966.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 90 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Aug. 17, 1978, water-stage recorder and concrete control at same site but at different datum. Aug. 17, 1978 to Sept. 9, 1980, nonrecording and crest-stage gage, and Sept. 10, 1980 to Sept. 30, 1982, water-stage recorder and crest-stage gage at site 1,300 ft downstream at different datum.

REMARKS.--Estimated daily discharges: Jan. 14, 17, 21-30, Feb. 5, 9-10, Feb. 13 to Mar. 5, and Mar. 12 to Apr. 9. Records good except those for estimated daily discharges and those greater than 100 ft^3/s, which are 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. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

COOPERATION.--Figures for diversion and return in upstream water supply provided by city of Yonkers and village of Tarrytown.

AVERAGE DISCHARGE.--40 years (1945-73, 1975-85), 33.6 ft^3/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft^3/s Jul. 7, 1984, gage height, 7.84 ft; minimum, no flow during part of several days in Oct., Nov., and June-Sept. of 1981 water year because of construction in channel upstream from gage; minimum daily discharge, 0.11 ft^3/s Sept. 14, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 823 ft^3/s Jul. 26, gage height, 5.84 ft; minimum recorded, 3.7 ft^3/s Jan. 16, gage height, 1.35 ft, result of freezeup, but may have been less during period of no gage-height record Jan. 21-30; minimum daily discharge, 5.5 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	13	16	23	19	26	33	12	81	13	26	15
2	25	13	14	41	23	27	20	24	27	13	16	11
3	11	12	41	37	18	25	18	193	21	13	12	10
4	8.2	11	61	26	14	25	18	63	18	12	9.2	9.9
5	7.5	186	22	32	13	42	17	30	44	10	8.6	9.5
6	7.3	55	119	25	16	29	18	28	32	12	8.0	11
7	6.9	23	50	25	15	24	18	50	19	31	9.1	8.2
8	7.4	18	28	24	12	32	21	28	23	12	34	31
9	6.7	16	25	18	12	29	19	25	20	11	16	68
10	6.8	16	23	19	12	25	17	24	16	9.7	9.3	31
11	6.4	47	25	20	15	24	17	19	14	8.9	8.2	39
12	6.1	95	21	17	90	66	17	18	14	8.5	7.6	18
13	5.9	30	20	18	172	39	16	20	14	35	7.1	12
14	6.0	22	19	17	43	27	16	17	11	14	7.8	11
15	5.7	18	20	18	32	26	17	16	11	13	9.2	11
16	5.9	17	19	16	29	23	17	16	143	43	6.8	10
17	5.9	16	18	17	27	23	16	15	65	16	6.3	11
18	5.9	15	18	18	26	23	14	38	55	9.6	6.5	9.4
19	6.8	15	20	18	27	22	14	21	28	8.3	6.3	8.4
20	6.3	14	25	16	28	22	15	15	24	7.6	6.5	8.1
21	6.5	13	25	16	26	20	14	56	21	7.4	6.4	7.6
22	61	13	69	15	26	19	14	56	17	69	6.6	7.3
23	138	12	30	16	32	22	15	21	16	20	5.8	7.4
24	26	12	23	17	37	22	13	17	25	9.9	5.5	13
25	14	12	22	16	33	20	12	15	45	8.6	19	8.8
26	19	12	20	15	29	17	13	14	18	125	163	9.1
27	14	14	20	14	28	18	12	19	15	89	50	241
28	18	14	28	13	27	19	11	57	19	20	17	239
29	97	71	35	12	---	18	12	96	21	14	12	32
30	19	26	27	11	---	18	12	27	16	13	79	23
31	14	---	22	13	---	19	---	21	---	13	50	---
TOTAL	593.2	851	925	603	881	791	486	1071	893	689.5	634.8	930.7
MEAN	19.1	28.4	29.8	19.5	31.5	25.5	16.2	34.5	29.8	22.2	20.5	31.0
MAX	138	186	119	41	172	66	33	193	143	125	163	241
MIN	5.7	11	14	11	12	17	11	12	11	7.4	5.5	7.3
ǂ	1.3	1.2	1.0	.80	1.1	1.4	1.4	1.4	1.4	1.5	1.3	1.3

CAL YR 1984 TOTAL 23907.8 MEAN 65.3 MAX 1050 MIN 5.7 ǂ 1.2
WTR YR 1985 TOTAL 9349.2 MEAN 25.6 MAX 241 MIN 5.5 ǂ 1.2

ǂ Indicated net diversion, in cubic feet per second, for diversion and return in upstream supply.

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 upstream from Rome. DRAINAGE AREA, 148 mi^2, revised. PERIOD OF RECORD, May 1913 to current year. GAGE, nonrecording gage read daily at 0800. Datum of gage is 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 ft^3 at crest of spillway, elevation 550.0 ft. Reservoir is used for navigation in Barge Canal. Records provided by New York State Department of Transportation.

EXTREMES FOR PERIOD OF RECORD (1951-84).--Maximum contents observed, 3,136 mil ft^3 June 22, 1972, elevation, 552.8 ft; minimum observed, 2.0 mil ft^3 Jan. 10, 13, 16-21, Feb. 7-15, Feb. 22 to Mar. 2, 1959, elevation, 492.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,016 mil ft^3 Jan. 2, elevation, 551.8 ft; minimum observed, 750 mil ft^3 Nov. 4, elevation, 526.0 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 east of Prospect. DRAINAGE AREA, 372 mi^2, revised. PERIOD OF RECORD, March 1914 to current year. GAGE, nonrecording gage read daily at 0800. Datum of gage is Barge Canal datum.

Reservoir is formed by earth and concrete dam; storage began March 1914. Usable capacity 3,320 mil ft^3 between elevation 1,173.5 and 1,225.0 ft. Elevation of inverts of four 60-inch discharge pipes at north end of spillway is 1,169.5 ft, and elevation of inverts of two 42-inch pipes at south end for diverting water to city of Utica is 1,164.25 ft. Crest of Ogee spillway is at elevation 1,225.0 ft. Length of spillway is 400 ft. Area of water surface at crest elevation is 4.46 mi^2. Gage-height telemeter at station. Records provided by New York State Department of Transportation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 4,041 mil ft^3 Oct. 2, 1945, elevation, 1,230.2 ft; minimum observed (after initial filling), not determined.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,585 mil ft^3 Apr. 17, 22, 23, elevation, 1,227.0 ft; minimum observed, 299 mil ft^3 Oct. 29, elevation, 1,184.8 ft.

01350100 SCHOHARIE 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 south of Shokan. DRAINAGE AREA, 256 mi^2. PERIOD OF RECORD, September 1913 to current year. REVISED RECORDS, WDR NY-72-1: 1968. WDR NY-83-1: (M)(m). GAGE, nonrecording gage read daily at 0900. Datum of gage is National Geodetic Vertical Datum of 1929 (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. Storage began Sept. 9, 1913. Usable capacity of West basin 47,180 mil gal between minimum operating level elevation 495.50 ft and crest of spillway to East basin, elevation 590.00 ft; dead storage below minimum operating level 2,237 mil gal. Usable capacity of East basin 80,678 mil gal between elevation 500.00 ft and crest of spillway, elevation 587.10 ft; 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 provided by Department of Environmental Protection, City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, in West basin, 54,001 mil gal Mar. 31, 1951, elevation, 594.33 ft, in East basin, 89,411 mil gal Mar. 31, 1951, elevation, 592.23 ft; minimum observed, in West basin, 9,098 mil gal Oct. 24, 1926, elevation, 530.56 ft, in East basin, 8,394 mil gal Oct. 24, 1926, elevation, 525.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, in West basin, 43,000 mil gal May 10, elevation, 583.45 ft, in East basin, 59,677 mil gal Oct. 1, elevation, 573.82 ft; minimum observed, in West basin, 17,939 mil gal Feb. 20, elevation, 550.45 ft, in East basin, 17,437 mil gal May 27, elevation, 537.56 ft.

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 upstream from Brandy Brook, and 1.3 mi northwest of Lackawack. DRAINAGE AREA, 94.4 mi^2. PERIOD OF RECORD, May 1951 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (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 between minimum operating level, elevation, 720.00 ft and crest of spillway, elevation, 840.00 ft. Dead storage below elevation 720.00 ft, 2,387 mil gal. 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 provided by Bureau of Water Resources Development, City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 53,355 mil gal June 23, 1972, elevation, 841.34 ft; minimum observed (after initial filling), 8,335 mil gal Oct. 15, 1957, elevation, 748.75 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 45,105 mil gal Oct. 1, elevation, 828.86 ft; minimum, 25,685 mil gal Sept. 27, elevation, 793.82 ft.

HUDSON RIVER BASIN

RESERVOIRS IN HUDSON RIVER BASIN--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet) #	Contents (million ft³)	Change in contents (equivalent in ft³/s)	Elevation (feet) #	Contents (million ft³)	Change in contents (equivalent in ft³/s)
	01335900 Delta Reservoir			01343900 Hinckley Reservoir		
Sept. 30	533.2	1,194		*1,191.2	585	
Oct. 31	526.3	765	-160	1,185.0	306	-104
Nov. 30	536.8	1,474	+274	1,195.4	810	+194
Dec. 31	551.2	2,944	+549	1,221.2	2,882	+774
CAL YR 1984	-	-	+ 60.6	-	-	- 0.70
Jan. 31	542.2	1,960	-367	**1,214.9	2,251	-236
Feb. 28	543.8	2,120	+ 66.1	1,221.4	2,904	+270
Mar. 31	543.5	2,090	- 11.2	1,216.3	2,380	-196
Apr. 30	544.2	2,160	+ 27.0	1,225.5	3,385	+388
May 31	544.9	2,230	+ 26.1	1,222.3	3,004	-142
June 30	543.3	2,070	- 61.7	1,219.2	2,670	-129
July 31	538.5	1,615	-170	1,211.8	1,978	-258
Aug. 31	532.7	1,159	-170	1,203.5	1,333	-241
Sept. 30	538.6	1,624	+179	1,207.8	1,654	+124
WTR YR 1985	-	-	+ 13.6	-	-	+ 33.9

Date	Elevation (feet) ##	Contents (million gallons)	Change in contents (equivalent in ft³/s)	Elevation (feet) ##	Contents (million gallons)	Change in contents (equivalent in ft³/s)	Elevation (feet) ##	Contents (million gallons)	Change in contents (equivalent in ft³/s)
	01363398 Ashokan Reservoir West Basin			01363399 Ashokan Reservoir East Basin			01366400 Rondout Reservoir		
Sept. 30	575.38	35,770		573.82	59,677		828.86	45,105	
Oct. 31	570.44	31,699	-203	569.16	53,045	-331	819.76	39,501	-280
Nov. 30	563.58	26,479	-269	562.27	43,962	-468	811.67	34,841	-240
Dec. 31	559.98	23,906	-128	559.64	40,632	-166	813.39	35,804	+ 48.1
CAL YR 1984	-	-	- 52.1	-	-	- 76.9	-	-	- 56.3
Jan. 31	554.70	20,445	-173	554.75	34,793	-291	812.85	35,501	- 15.1
Feb. 28	553.85	19,944	- 27.7	549.60	29,091	-315	810.42	34,153	- 74.5
Mar. 31	578.61	38,587	+930	540.23	19,817	-463	817.55	38,193	+202
Apr. 30	583.09	42,666	+210	538.24	18,039	- 91.7	813.82	36,046	-111
May 31	582.99	42,573	- 4.64	537.66	17,525	- 25.7	809.27	33,527	-126
June 30	581.96	41,618	- 49.3	537.82	17,667	+ 7.32	803.69	30,578	-152
July 31	575.69	36,040	-278	538.21	18,013	+ 17.3	803.37	30,413	- 8.24
Aug. 31	570.83	32,018	-201	538.55	18,314	+ 15.0	797.97	27,697	-136
Sept. 30	570.37	31,641	- 19.4	539.20	18,889	+ 29.7	797.48	27,457	- 12.4
WTR YR 1985	-	-	- 17.5	-	-	-173	-	-	- 74.8

\# Elevation at 2400 hours by interpolation.
\## Elevation at 0900 hours on first day of following month.
* No readings Sept. 29 and 30, 1984, record estimated by interpolation.
** No readings Feb. 1-6, float froze; record estimated by interpolation.

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.

Undetermined diversion from Black River tributary into Lake Ontario through Black River canal into Mohawk River in Hudson River basin.

Undetermined diversion from Hudson River basin to summit level of Champlain (Barge) Canal.

01343899 Diversion from Hinckley Reservoir (see preceding pages) for municipal supply of Utica. Diversion began prior to 1921. Records provided 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 provided by Department of Environmental Protection, City of New York.

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 provided by Department of Environmental Protection, City of New York.

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 provided by Bureau of Water Resources Development, 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 1984 TO SEPTEMBER 1985

Month	01343899 Hinckley Reservoir	01362230 Schoharie Reservoir	01363401 Ashokan Reservoir	01366399 Rondout Reservoir
October.....	33.9	192	747	1,355
November.....	33.3	38.3	828	1,330
December.....	30.6	268	911	1,000
CAL YR 1984	32.9	273	808	1,187
January.....	32.0	243	901	969
February.....	33.6	353	850	1,075
March.....	34.0	668	683	909
April.....	31.8	195	483	1,144
May.....	33.8	148	486	1,145
June.....	34.6	283	456	1,087
July.....	34.9	151	577	1,037
August.....	37.1	135	458	1,079
September.....	35.4	111	421	970
WTR YR 1985	33.7	190	649	1,091

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 downstream from Penn Central Transportation Co. railroad bridge at West Nyack, 1,000 ft upstream from State Highway 59, and 1.0 mi downstream from DeForest Lake.

DRAINAGE AREA.--29.4 mi^2.

PERIOD OF RECORD.--December 1958 to current year.

GAGE.--Water-stage recorder, stop-log control, and crest-stage gage. Datum of gage is 53.50 ft above National Geodetic Vertical Datum of 1929 (levels by Hackensack Water Co.).

REMARKS.--No estimated daily discharges. 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 Diversions in Hackensack River Basin). Discharge given for this station represents the flow of Hackensack River downstream from this diversion. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,550 ft^3/s Feb. 3, 1973, gage height, 9.38 ft, from floodmarks, from rating curve extended above 840 ft^3/s; maximum gage height, 10.52 ft May 30, 1984; minimum daily, 2.6 ft^3/s June 12, 1965, Sept. 25, 26, 30, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 260 ft^3/s Sept. 27, gage height, 5.23 ft; minimum daily, 10 ft^3/s July 21, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	38	43	19	39	17	20	17	24	15	19	13
2	19	39	43	23	40	17	18	21	16	13	14	12
3	15	38	55	20	38	17	18	61	15	13	13	12
4	14	37	50	17	39	17	17	23	14	13	13	12
5	16	66	44	19	39	23	17	16	20	12	13	12
6	21	43	59	16	39	19	18	16	17	13	13	13
7	24	40	37	17	30	18	17	16	15	14	13	13
8	26	41	18	17	17	21	18	14	15	13	17	13
9	32	41	16	16	16	20	18	14	15	12	14	20
10	38	40	15	18	16	20	17	15	14	12	13	15
11	39	42	15	19	16	20	17	17	14	12	13	13
12	39	44	17	19	34	28	17	17	14	12	13	13
13	39	40	19	19	32	23	16	18	13	16	13	12
14	39	40	18	19	21	22	17	18	13	13	14	12
15	38	40	18	19	19	21	17	18	15	14	16	12
16	37	40	17	20	18	20	17	18	70	17	14	12
17	37	38	17	23	17	21	16	17	40	14	14	12
18	37	38	18	36	18	20	15	21	26	12	13	13
19	37	42	19	37	19	15	15	17	22	11	13	15
20	38	44	19	39	17	19	15	17	20	11	13	15
21	39	43	20	40	17	19	15	20	17	10	13	15
22	50	43	34	40	19	17	16	20	14	19	13	15
23	52	43	21	40	21	18	16	17	13	12	13	15
24	38	43	19	40	20	17	17	16	19	11	13	16
25	36	43	19	40	20	17	17	17	18	10	14	16
26	38	43	19	39	18	18	17	16	16	23	56	16
27	38	43	19	39	18	17	16	17	16	24	16	90
28	38	43	20	40	17	17	16	27	17	11	13	28
29	42	50	24	39	---	17	17	22	17	11	12	16
30	38	44	22	39	---	16	16	15	17	12	17	16
31	39	---	19	38	---	17	---	15	---	14	18	---
TOTAL	1053	1269	793	866	674	588	503	593	576	419	476	507
MEAN	34.0	42.3	25.6	27.9	24.1	19.0	16.8	19.1	19.2	13.5	15.4	16.9
MAX	52	66	59	40	40	28	20	61	70	24	56	90
MIN	14	37	15	16	16	15	15	14	13	10	12	12

CAL YR 1984 TOTAL 25599 MEAN 69.9 MAX 1300 MIN 14
WTR YR 1985 TOTAL 8317 MEAN 22.8 MAX 90 MIN 10

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 Rivervale, 1.5 mi upstream from Pascack Brook, 4.6 mi upstream from Oradell Dam, and 27.2 mi upstream from mouth.

DRAINAGE AREA.--58.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WRD-NJ-80-1: 1968-79(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 22.51 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by De Forest Lake and Lake Tappan (see Hackensack River basin, reservoirs in). Diversions from De Forest Lake and West Nyack, NY, for municipal water supply (see Hackensack River basin, diversions). Water occasionally diverted from Oradell Reservoir to Lake Tappan. Several measurements of water temperature, other than those published, were made during the year.

COOPERATION.--Gage-height record collected in cooperation with Hackensack Water Co.

AVERAGE DISCHARGE.--44 years, 89.0 ft³/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,440 ft³/s, May 30, 1984, gage height, 7.85 ft; no flow part of Jan. 16, 1970 and May 30, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 473 ft³/s, Sept. 27, gage height, 3.06 ft; minimum, 14 ft³/s, Apr. 14, 15, 16, 17, gage height 1.51 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	39	31	26	69	19	20	66	39	19	19	23
2	72	39	30	32	48	19	15	70	24	18	18	23
3	66	39	53	29	36	18	15	124	22	19	17	21
4	91	39	40	27	45	19	15	39	22	18	17	21
5	106	100	33	27	56	27	15	29	38	18	17	21
6	127	38	61	26	57	20	16	27	26	22	17	21
7	136	31	33	69	57	19	15	41	22	22	17	21
8	137	29	29	126	56	21	15	27	23	19	21	21
9	121	29	29	97	64	20	16	26	23	18	18	47
10	99	22	27	52	74	19	15	24	22	18	18	29
11	100	24	27	51	74	18	15	24	19	18	18	24
12	115	28	27	126	105	31	15	23	19	18	18	22
13	128	22	26	125	64	21	15	24	18	23	18	20
14	134	20	26	124	40	19	15	23	18	18	17	21
15	140	20	26	124	37	18	14	23	18	18	17	20
16	138	21	26	107	36	18	14	23	70	20	17	20
17	135	20	26	88	36	18	34	21	35	18	18	20
18	133	21	26	88	36	18	61	24	32	18	17	20
19	131	22	26	88	33	16	59	21	23	17	19	20
20	129	21	27	88	27	16	50	21	21	17	76	20
21	127	32	28	86	26	16	42	41	20	17	130	20
22	120	49	52	86	26	16	41	41	20	33	129	20
23	105	49	30	101	27	17	47	21	19	19	129	20
24	40	75	28	113	26	16	59	21	22	18	128	22
25	37	106	28	113	25	16	59	21	21	18	108	21
26	39	105	27	112	25	16	63	21	19	32	204	22
27	38	104	27	111	24	16	61	24	19	31	40	178
28	39	104	26	91	19	17	63	46	21	18	25	35
29	55	81	31	85	---	17	63	38	20	18	24	24
30	41	33	30	43	---	15	66	22	19	18	34	23
31	40	---	26	58	---	16	---	22	---	18	30	---
TOTAL	3013	1362	962	2519	1248	572	1013	1018	734	616	1395	840
MEAN	97.2	45.4	31.0	81.3	44.6	18.5	33.8	32.8	24.5	19.9	45.0	28.0
MAX	140	106	61	126	105	31	66	124	70	33	204	178
MIN	37	20	26	26	19	15	14	21	18	17	17	20

CAL YR 1984 TOTAL 52052 MEAN 142 MAX 2190 MIN 20
WTR YR 1985 TOTAL 15292 MEAN 41.9 MAX 204 MIN 14

RESERVOIRS IN HACKENSACK RIVER BASIN

01376700 DE FOREST LAKE.--Lat 41°06'23", long 73°58'01, Rockland County, NY, Hydrologic Unit 02030103, at dam on Hackensack River, 0.85 mi north of West Nyack, NY. DRAINAGE AREA, 27.5 mi². PERIOD OF RECORD, February 1956 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.
REMARKS.--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, elevation, 80.00 ft. Crest of dam topped by two 50-foot Bascule gates 5 ft high. Flow regulated by 12-inch Howell-Bunger valve at elevation, 59.25 ft and 24-inch Howell-Bunger valve at elevation, 61.25 ft. Reservoir used for storage and water released by Hackensack Water Co., for municipal water supply.
COOPERATION.--Records provided by Hackensack Water Company.
REVISED RECORDS.--WDR NJ-84-1: Drainage area.

01376950 LAKE TAPPAN.--Lat 41°01'05", long°00'05", Bergen County, Hydrologic Unit 02030103, at dam on Hackensack River, 0.50 mi north of Old Tappan. DRAINAGE AREA, about 49.0 mi². PERIOD OF RECORD, October 1966 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.
REMARKS.--Reservoir is formed by earthfill dam, completed in 1966. Capacity at spillway level, 3,378,000,000 gal, elevation, 55.00 ft. Flow regulated by four Bascule gates and one sluice gate. Water is released by Hackensack Water Co., for municipal water supply.
COOPERATION.--Records provided by Hackensack Water Company.

01377450 WOODCLIFF LAKE.--Lat 41°01', long 74°03', Bergen County, Hydrologic Unit 02030103, at dam on Pascack Brook, 0.75 mi north of Hillsdale. DRAINAGE AREA, 19.4 mi². 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 National Geodetic Vertical Datum of 1929.
REMARKS.--Reservoir is formed by earthfill dam, completed about 1905. Capacity at spillway level, 835,000,000 gal, elevation, 94.33 ft. Flow is regulated by flashboards and one 36-inch gate in center of dam. Water is released for diversion at New Milford by Hackensack Water Co., for municipal supply.
COOPERATION.--Records provided by Hackensack Water Company.

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. 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 National Geodetic Vertical Datum of 1929.
REMARKS.--Reservoir is formed by hollow concrete dam, completed in 1922. Capacity at spillway level, 3,267,000,000 gal, elevation, 23.16 ft. Flow regulated by seven sluice gates (7 by 9 ft). Water is released for diversion by Hackensack Water Co., 1 mi downstream from dam for municipal supply.
COOPERATION.--Records provided by Hackensack Water Company.
REVISED RECORDS.--WDR NJ-84-1: Spillway elevation.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft³/s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft³/s)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in ft³/s)
	01376700	DE FOREST LAKE †		01376950	LAKE TAPPAN †		01377450	WOODCLIFF LAKE †	
Sept. 30	81.93	4,699	-	48.09	1,672	-	67.60	0	-
Oct. 31	79.75	4,043	-32.7	44.47	839	-41.6	67.60	0	0
Nov. 30	77.49	3,382	-34.1	46.58	1,295	+23.5	67.60	0	0
Dec. 31	77.17	3,290	4.6	49.02	1,925	+31.4	67.60	0	0
CAL YR 1984	-	-	-10.5	-	-	-8.7	-	-	0
Jan. 31	75.52	2,822	-23.4	46.20	1,206	-35.9	67.60	0	0
Feb. 29	75.32	2,766	-3.1	47.35	1,482	+15.2	67.60	0	0
Mar. 31	75.30	2,761	-0.2	49.14	1,958	+23.8	67.60	0	0
Apr. 30	74.39	2,510	-13.0	48.68	1,831	-6.5	69.20	4	+0.2
May 31	75.55	2,830	+16.0	50.67	2,406	+28.7	80.50	186	+9.1
June 30	77.30	3,327	+25.6	52.65	3,037	+32.5	90.36	562	+19.4
July 31	77.60	3,414	+4.4	63.55	3,341	+15.2	90.08	548	-0.7
Aug. 31	78.16	3,576	+8.1	53.67	3,383	+2.1	86.12	375	-8.6
Sept. 30	79.06	3,839	+13.6	54.93	3,827	+22.9	90.70	578	+10.5
WTR YR 1985	-	-	-3.6	-	-	+9.1	-	-	+2.4
	01378480	ORADELL RESERVOIR †							
Sept. 30	18.68	2,391	-						
Oct. 31	19.49	2,579	+9.4						
Nov. 30	19.04	2,474	-5.4						
Dec. 31	18.31	2,307	-8.3						
CAL YR 1984	-	-	-5.2						
Jan. 31	18.15	2,271	-1.8						
Feb. 29	19.57	2,598	+18.1						
Mar. 31	18.84	2,428	-8.5						
Apr. 30	16.54	1,916	-26.4						
May 31	20.73	2,877	+48.0						
June 30	21.09	2,966	+4.6						
July 31	18.84	2,428	-26.8						
Aug. 31	20.88	2,914	+24.3						
Sept. 30	20.69	2,868	-2.4						
WTR YR 1985	-	-	+2.0						

† Elevation at 2400 of the last day of each month.

DIVERSIONS INTO AND FROM HACKENSACK RIVER BASIN

01376272 Hackensack Water Co., diverts water from Sparkill Creek at foot of Danny Lane in Northvale, 300 ft south of New York-New Jersey state line and 0.6 mi upstream of Sparkill Brook. Water is diverted into Oradell Reservoir on the Hackensack River, for municipal supply. Records provided by Hackensack Water Co.

01376699 Spring Valley Water Co., diverts water at De Forest Lake for municipal supply in Rockland County, NY. Records provided by Spring Valley Water Co.

01376810 Village of Nyack, NY, diverts water from Hackensack River 100 ft downstream from gaging station on Hackensack River at West Nyack, NY (sta 01376800) for municipal supply. Records provided 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 upstream from gaging station on Hackensack River at New Milford and from Hackensack River about 50 ft above gaging station on Hackensack River at New Milford, NJ (sta 01378500).

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 provided by Hackensack Water Co.

01387991 Hackensack Water Co. diverts water from the Ramapo River by pumping from Pompton Lake above the gaging station into Oradell Reservoir on the Hackensack River, for municipal supply. Pumping began Feb. 14, 1985. Records provided by Hackensack Water Co.

01391210 Hackensack Water Co., diverts water from Saddle River just north of bridge on State Route 4 at Arcola. Water is diverted into Oradell Reservoir on the Hackensack River, for municipal supply. Records provided by Hackensack Water Co.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Month	01376699 SPRING VALLEY WATER CO.	01376810 WEST NYACK, NY	01378490 HACKENSACK WATER CO.
October	13.4	2.55	143
November	13.4	2.53	136
December	12.7	2.50	141
CAL YR 1984	10.4	2.79	150
January	11.8	2.70	145
February	12.1	2.73	135
March	9.46	2.65	132
April	6.74	2.64	125
May	2.23	2.65	114
June	0	2.65	114
July	0	2.74	126
August	0	2.78	131
September	0	2.72	132
WTR YR 1985	6.80	2.65	131

The following are diversions by pumpage from sources other than the Hackensack River into Oradell Reservoir. These figures are included in diversions from Hackensack River as noted above (sta 01378490).

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Month	01376272 SPARKILL CREEK (HUDSON RIVER BASIN)	01378520 HIRSHFELD BROOK (HACKENSACK RIVER BASIN)	01387991 RAMAPO RIVER (PASSAIC RIVER BASIN)	01391210 SADDLE RIVER (PASSAIC RIVER BASIN)	WELLS TO SURFACE SUPPLY
October	0	0	0	0	0.84
November	0	2.27	0	12.9	1.91
December	0	2.51	0	14.8	1.16
CAL YR 1984	0	0.40	0	2.30	0.38
January	0	0.55	0	13.0	1.17
February	1.17	2.63	6.99	17.8	2.80
March	1.81	1.44	26.0	20.4	2.99
April	1.98	2.35	16.7	14.7	2.77
May	1.81	3.05	27.4	20.7	2.56
June	1.73	3.23	28.2	21.4	2.60
July	0.84	2.43	17.3	14.9	2.62
August	0.04	2.47	14.8	13.4	2.69
September	0.08	2.62	5.54	12.8	2.55
WTR YR 1985	.78	2.12	11.9	14.7	2.21

01387400 RAMAPO RIVER AT RAMAPO, NY

LOCATION.--Lat 41°08'25", long 74°10'14", Rockland County, Hydrologic Unit 02030103, on right bank, 105 ft downstream from highway bridge on New York State Thruway at Ramapo, 500 ft upstream from local bridge, and 0.4 mi upstream from Torne Brook.

DRAINAGE AREA.--86.7 mi^2.

PERIOD OF RECORD.--June 1979 to current year.

REVISED RECORDS.--WDR NY-81-1: 1980(m).

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 297.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 7, 29-30, Jan. 8, 16, Jan. 20 to Feb. 10, Feb. 13-14, 16-22, Mar. 3-4, 7-11, and July 18-20. Records fair. Occasional regulation by Lake Sebago. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--6 years, 166 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft^3/s Apr. 5, 1984, gage height, 13.82 ft, from rating curve extended above 3,600 ft^3/s on basis of runoff comparison with station 1.5 mi downstream; minimum discharge, 5.3 ft^3/s Aug. 7, 1983, gage height, 1.27 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,050 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 28	0115	*1,840	*5.60	No other peak greater than base discharge.			

Minimum discharge, 11 ft^3/s part or all of each day Oct. 13-19, gage height, 1.63 ft; minimum gage height, 1.47 ft part or all of each day Nov. 17-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	16	49	76	26	169	107	44	121	83	206	42
2	13	15	38	83	26	153	106	56	114	69	143	33
3	14	15	39	99	27	130	93	364	88	61	88	28
4	14	15	72	88	28	120	89	513	74	57	74	27
5	13	26	50	90	26	167	85	308	74	50	70	26
6	13	32	61	85	25	193	84	245	101	48	76	28
7	13	24	76	79	26	150	83	219	82	64	58	26
8	13	17	58	76	27	150	106	179	68	56	83	24
9	13	17	50	67	25	160	132	138	65	48	91	29
10	13	17	47	60	25	140	115	118	59	44	79	53
11	12	16	45	52	29	130	106	107	51	41	70	47
12	12	17	41	53	56	182	106	95	46	36	55	36
13	12	17	41	50	400	219	96	85	44	58	44	28
14	11	16	42	47	360	190	91	75	38	56	41	25
15	11	15	39	46	186	168	91	66	35	79	42	23
16	11	15	39	45	140	146	91	58	176	81	37	22
17	11	15	38	43	120	132	89	54	332	71	35	23
18	11	13	37	45	110	124	80	119	241	58	30	23
19	12	13	36	45	100	111	77	136	193	50	28	21
20	13	13	39	45	100	106	82	93	143	41	28	20
21	13	13	40	42	100	102	83	76	117	37	27	20
22	15	13	89	40	100	95	79	73	100	135	26	19
23	27	13	104	36	163	103	76	63	86	120	25	19
24	24	13	88	35	238	122	71	54	90	71	23	19
25	19	13	77	35	263	113	64	46	137	52	25	19
26	18	13	64	35	235	99	59	40	96	85	45	20
27	18	13	58	33	216	89	56	39	76	231	57	707
28	18	13	58	31	192	86	52	96	83	182	39	1430
29	17	76	78	30	---	87	52	224	93	109	32	521
30	17	70	91	29	---	85	47	148	96	85	30	282
31	17	---	80	27	---	86	---	99	---	75	46	---
TOTAL	451	594	1764	1647	3369	4107	2548	4030	3119	2333	1753	3640
MEAN	14.5	19.8	56.9	53.1	120	132	84.9	130	104	75.3	56.5	121
MAX	27	76	104	99	400	219	132	513	332	231	206	1430
MIN	11	13	36	27	25	85	47	39	35	36	23	19

CAL YR 1984	TOTAL	76925	MEAN	210	MAX	6300	MIN	11
WTR YR 1985	TOTAL	29355	MEAN	80.4	MAX	1430	MIN	11

01387420 RAMAPO RIVER AT SUFFERN, NEW YORK

LOCATION.--Lat 41°07'06", long 74°09'38", Rockland County, Hydrologic Unit 02030103, on left bank, 145 ft downstream from highway bridge on New York State Thruway at Suffern, and 1.1 mi upstream from Mahwah River.

DRAINAGE AREA.--93.0 mi^2.

PERIOD OF RECORD.--June 1979 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 264.44 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 8, 10, 16, 21, and Feb. 1-10. Records fair. Flow affected by diversion from Spring Valley Water Company well field upstream from station and by occasional regulation by Lake Sebago. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--6 years, 172 ft^3/s, unadjusted.

COOPERATION.--Figures of pumpage from well field provided by Spring Valley Water Company.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,300 ft^3/s Apr. 5, 1984, gage height, 15.38 ft, from rating curve extended above 5,400 ft^3/s; minimum discharge, 2.6 ft^3/s Sept. 30, 1981, gage height, 1.23 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	2400	*2,050	*7.83	No other peak greater than base discharge.			

Minimum discharge, 5.9 ft^3/s Sept. 23, gage height, 1.36 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	12	48	71	20	161	99	35	122	68	226	29
2	10	12	34	82	19	145	100	50	114	56	150	20
3	10	11	46	92	20	127	85	451	81	50	86	16
4	9.8	11	82	83	20	115	82	630	67	46	66	15
5	9.3	26	60	87	19	169	77	371	68	38	56	14
6	9.0	29	83	80	18	195	78	285	94	35	63	17
7	9.0	20	93	74	18	158	78	243	75	54	45	14
8	9.0	17	68	70	19	157	100	196	62	45	68	11
9	9.1	14	55	62	18	168	130	160	58	37	76	21
10	9.0	13	50	58	20	145	109	133	52	33	63	42
11	8.8	13	54	50	21	129	98	115	42	27	53	36
12	8.5	15	44	48	63	182	97	100	35	23	39	25
13	8.5	14	42	45	459	232	87	90	32	46	28	18
14	8.7	12	39	43	408	193	82	79	26	43	26	14
15	8.6	11	39	39	211	168	82	66	22	66	29	12
16	8.6	11	37	40	144	145	84	57	197	71	23	11
17	9.2	11	36	41	110	132	82	56	337	60	21	12
18	9.3	10	33	41	96	121	73	137	235	44	17	13
19	9.1	10	34	40	92	108	70	168	164	36	15	11
20	9.5	9.9	40	40	93	99	73	100	110	30	14	9.3
21	9.5	10	40	37	90	95	72	82	89	26	13	8.5
22	15	9.9	91	32	92	87	68	79	74	121	12	7.6
23	23	10	97	30	156	97	65	66	62	112	11	6.6
24	19	11	79	28	270	115	60	56	72	62	9.2	7.0
25	15	11	71	28	296	104	57	48	111	42	11	7.9
26	13	10	60	27	249	89	54	40	75	85	32	8.9
27	13	10	56	26	214	80	48	39	59	262	44	921
28	13	11	57	23	188	78	43	121	68	176	25	1630
29	13	80	79	23	---	79	43	264	79	92	17	601
30	13	69	88	21	---	76	38	153	82	67	17	318
31	13	---	75	20	---	76	---	97	---	62	34	---
TOTAL	342.2	513.8	1810	1481	3443	4025	2314	4567	2764	2015	1389.2	3876.8
MEAN	11.0	17.1	58.4	47.8	123	130	77.1	147	92.1	65.0	44.8	129
MAX	23	80	97	92	459	232	130	630	337	262	226	1630
MIN	8.5	9.9	33	20	18	76	38	35	22	23	9.2	6.6
ǂ	5.1	5.0	6.7	8.3	12	9.3	7.5	13	15	14	14	12

CAL YR 1984 TOTAL 79705.6 MEAN 218 MAX 7110 MIN 8.5 ǂ 9.3
WTR YR 1985 TOTAL 28541.0 MEAN 78.2 MAX 1630 MIN 5.6 ǂ 10

ǂ Diversion, in cubic feet per second, by pumpage from well field upstream of station.

01387450 MAHWAH RIVER NEAR SUFFERN, NY

LOCATION.--Lat 41°08'27", long 74°07'01", Rockland County, Hydrologic Unit 02030103, on left bank 13 ft upstream from bridge on U.S. Highway 202, 2.5 mi northeast of Suffern, and 4.8 mi upstream from mouth.

DRAINAGE AREA.--12.3 mi^2.

PERIOD OF RECORD.--August 1958 to current year.

REVISED RECORDS.--WDR NY-79-1: 1977.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 321.57 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 18, 1976, water-stage recorder at site on right bank 13 ft downstream, at present datum.

REMARKS.--Estimated daily discharges: Jan. 22-26. Records good except those for estimated daily discharges, which are fair. Occasional regulation from unknown source. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--27 years, 24.8 ft^3/s, 27.38 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,840 ft^3/s Nov. 8, 1977, gage height, 9.91 ft, from rating curve extended above 850 ft^3/s on basis of contracted-opening measurements at gage heights 8.52 ft and 9.91 ft; minimum discharge, 0.05 ft^3/s Oct. 20, 21, 1970, result of temporary pumping from gage pool.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	1700	*555	*5.14	No other peak greater than base discharge.			

Minimum discharge, 1.4 ft^3/s Oct. 14, gage height, 1.50 ft; minimum gage height, 1.37 ft Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	2.7	5.0	12	5.3	15	13	5.7	21	12	40	6.3
2	2.9	2.5	4.3	15	5.6	14	11	9.8	13	12	24	5.2
3	2.5	2.4	9.5	15	5.4	13	10	80	11	11	19	5.1
4	2.1	2.3	11	13	5.2	12	9.6	54	9.6	10	15	4.5
5	1.9	17	7.0	14	4.9	21	8.9	37	13	9.3	13	4.0
6	1.9	8.2	18	12	5.4	20	9.2	31	14	8.7	11	5.5
7	1.8	5.8	13	11	5.1	16	8.8	27	11	8.6	10	4.6
8	1.8	4.7	9.1	11	4.8	18	10	22	10	7.6	14	4.0
9	1.7	4.3	7.7	9.2	4.6	18	11	18	10	7.0	12	7.2
10	1.7	4.3	7.4	7.9	4.6	16	9.6	17	9.2	6.6	9.9	8.9
11	1.7	4.5	7.9	7.7	4.7	14	8.6	15	7.9	5.9	8.4	6.9
12	1.7	6.2	7.7	7.5	15	25	8.1	14	7.7	5.2	7.7	5.2
13	1.6	4.4	7.5	7.4	30	26	7.8	13	7.3	7.4	6.7	4.6
14	1.6	3.7	7.0	7.3	17	21	7.8	12	6.7	6.6	6.4	4.0
15	1.6	3.4	7.5	7.3	13	19	8.2	11	6.3	9.7	9.0	3.1
16	1.6	3.6	7.1	6.8	11	17	8.4	10	44	11	6.5	3.4
17	1.7	3.4	7.1	6.9	10	16	8.0	10	35	10	5.7	3.8
18	1.7	3.2	6.9	7.0	9.8	15	7.4	17	29	7.5	4.8	3.5
19	1.8	3.2	7.1	6.9	10	14	7.3	12	24	6.5	4.8	3.1
20	2.0	3.0	8.4	6.6	12	13	7.7	10	20	5.5	5.2	2.5
21	2.7	2.8	7.7	6.1	11	13	7.3	14	19	5.0	4.6	2.3
22	6.2	2.7	24	6.1	12	12	6.6	22	15	18	3.8	2.3
23	24	2.7	17	5.9	20	13	6.7	13	14	16	3.4	2.3
24	5.2	2.8	14	5.7	28	13	7.4	10	22	13	3.3	4.3
25	3.9	2.8	12	5.7	26	12	6.7	8.8	22	11	4.1	4.0
26	3.7	2.7	10	5.6	21	11	6.3	7.7	17	23	9.9	3.9
27	3.7	2.7	10	5.6	19	10	6.0	7.6	14	44	11	181
28	3.2	2.7	10	5.6	17	11	5.8	28	14	27	6.4	122
29	4.8	12	15	5.5	---	9.7	5.5	28	15	21	5.4	50
30	3.2	6.2	16	5.2	---	9.2	5.4	17	14	17	6.2	33
31	3.0	---	13	5.0	---	9.1	---	14	---	16	11	---
TOTAL	101.0	132.9	314.9	253.5	337.4	466.0	244.1	595.6	475.7	379.1	302.2	500.5
MEAN	3.26	4.43	10.2	8.18	12.0	15.0	8.14	19.2	15.9	12.2	9.75	16.7
MAX	24	17	24	15	30	26	13	80	44	44	40	181
MIN	1.6	2.3	4.3	5.0	4.6	9.1	5.4	5.7	6.3	5.0	3.3	2.3
CFSM	.27	.36	.83	.67	.98	1.22	.66	1.56	1.29	.99	.79	1.36
IN.	0.31	0.40	0.95	0.77	1.02	1.41	0.74	1.80	1.44	1.15	0.91	1.51

CAL YR 1984 TOTAL 11417.5 MEAN 31.2 MAX 862 MIN 1.4 CFSM 2.54 IN. 34.53
WTR YR 1985 TOTAL 4102.9 MEAN 11.2 MAX 181 MIN 1.6 CFSM .91 IN. 12.41

PASSAIC RIVER BASIN

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 downstream from State Highway 17, 0.6 mi downstream from Mahwah River, and 1.0 mi west of Mahwah. Water-quality samples collected at bridge 350 ft upstream from gage at high flows.

DRAINAGE AREA.--120 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--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. Gage-height records for 1903-14 are contained in reports of the National Weather Service.

REVISED 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). WDR NJ-82-1: Drainage area.

GAGE.--Water-discharge recorder. Datum of gage is 253.10 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 31, 1906, nonrecording gage on former bridge at site 250 ft downstream at different datum. Sept. 1, 1922 to Dec. 23, 1936, water-stage recorder just below former bridge at present datum.

REMARKS.--No estimated daily discharges. Records fair. Flow affected by diversion from Spring Valley (NY) Water Company well field upstream from station (see sta. 01387420). Occasional regulation from lakes and ponds upstream from the station. Several measurements of water temperature, other than those published, were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--67 years (water years 1903-06,1923-85), 230 ft³/s, 26.03 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s, April 5, 1984, gage height, 13.35 ft, from rating curve extended above 1,400 ft³/s; minimum, 4.6 ft³/s, Sept. 30, 1981 (possible regulation); minimum daily, 6.1 ft³/s, Sept. 30, 1981 (possible regulation).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Sept. 28	0045	*1,810	*7.68	No other peak greater than base discharge.			

Minimum discharge, 13.0 ft³/s, Oct. 13, gage height, 2.40 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	21	63	98	38	166	116	49	182	97	273	47
2	23	18	51	121	43	153	113	77	156	80	202	37
3	18	18	86	130	45	137	100	482	117	73	130	32
4	17	17	109	113	41	128	94	709	95	67	96	30
5	15	80	75	117	41	187	89	422	116	59	79	29
6	15	53	139	106	43	207	91	326	140	56	86	33
7	15	35	126	99	45	169	89	290	110	72	66	29
8	15	29	87	104	40	171	106	237	89	63	110	29
9	15	26	73	84	38	181	132	198	84	55	111	62
10	15	27	67	74	36	158	115	172	77	50	86	69
11	15	31	71	70	36	145	105	153	65	45	93	55
12	15	37	64	65	119	202	104	135	60	41	60	40
13	14	29	62	66	323	252	95	121	55	80	50	32
14	15	24	60	63	264	204	91	107	48	61	47	28
15	15	23	61	59	195	180	91	89	45	90	50	26
16	15	23	58	54	160	159	93	78	323	106	42	24
17	15	24	56	56	132	145	92	78	415	86	39	24
18	16	22	53	59	120	137	84	171	288	62	34	25
19	16	21	61	59	116	124	80	207	213	52	32	24
20	17	18	63	52	119	115	84	130	157	46	31	22
21	17	19	62	58	113	111	84	116	135	41	30	21
22	73	19	158	51	114	103	82	123	110	165	28	20
23	124	19	141	49	171	113	78	96	92	153	27	19
24	46	20	111	47	280	130	74	79	126	88	24	20
25	30	19	97	48	305	117	71	68	171	65	35	22
26	28	19	85	45	258	104	68	60	118	160	65	32
27	26	18	81	42	224	95	61	66	91	334	72	906
28	25	19	83	39	192	92	58	173	100	225	45	1480
29	34	184	114	39	---	93	58	322	116	139	35	636
30	27	95	125	37	---	94	53	195	119	101	48	357
31	23	---	103	35	---	93	---	134	---	96	61	---
TOTAL	781	1007	2645	2139	3651	4465	2651	5663	4013	2908	2187	4210
MEAN	25.2	33.6	85.3	69.0	130	144	88.4	183	134	93.8	70.5	140
MAX	124	184	158	130	323	252	132	709	415	334	273	1480
MIN	14	17	51	35	36	92	53	49	45	41	24	19
CFSM	.21	.28	.71	.57	1.08	1.20	.74	1.52	1.12	.78	.59	1.17
IN.	.24	.31	.82	.66	1.13	1.38	.82	1.76	1.24	.90	.68	1.31

CAL YR 1984 TOTAL 105287 MEAN 288 MAX 8600 MIN 14 CFSM 2.40 IN. 32.64
WTR YR 1985 TOTAL 36320 MEAN 99.5 MAX 1480 MIN 14 CFSM .83 IN. 11.26

DELAWARE RIVER BASIN

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 upstream from unnamed tributary, and 1.6 mi downstream from Dry Brook.

DRAINAGE AREA.--163 mi^2.

PERIOD OF RECORD.--February 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,302.38 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 9, 1937, nonrecording gage and Sept. 9, 1937 to Aug. 17, 1944, water-stage recorder, at same site at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 11, and Feb. 15-21. Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature were made during the year. Intermittent water-quality data for this station are included in section "ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES".

AVERAGE DISCHARGE.--48 years, 305 ft^3/s, 25.41 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,700 ft^3/s Nov. 25, 1950, gage height, 13.84 ft, from rating curve extended above 8,700 ft^3/s; minimum discharge, 5.0 ft^3/s Aug. 5, 1964; minimum gage height, 0.89 ft Sept. 30, Oct. 1, 1943, present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater thann base discharge of 2,800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	1745	*2,860	*7.07	No other peak greater than base discharge.			

Minimum discharge, 14 ft^3/s Aug. 24, 25; minimum gage height, 2.48 ft Aug. 24, 25, Sept. 21, 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	56	483	376	64	455	379	158	313	86	127	33
2	46	61	421	373	62	414	378	148	218	71	75	26
3	47	62	418	336	62	356	335	156	196	67	58	22
4	50	60	437	315	60	299	336	145	181	66	49	19
5	42	113	352	304	60	442	353	131	174	62	44	21
6	36	123	350	271	58	362	424	147	175	62	41	20
7	34	100	305	262	58	300	448	170	150	111	39	20
8	33	91	276	246	56	324	458	134	155	74	47	20
9	32	89	257	165	56	337	437	120	148	62	41	45
10	31	111	256	150	56	307	386	112	127	57	36	115
11	30	112	284	140	54	289	360	106	109	55	33	91
12	27	105	279	130	66	685	329	102	121	82	31	57
13	27	112	338	125	184	619	303	104	131	131	28	43
14	27	106	343	120	138	558	292	94	116	87	25	36
15	27	104	334	115	105	507	279	87	98	97	24	33
16	26	136	336	110	87	447	270	87	100	135	25	29
17	26	137	334	105	77	429	252	98	99	94	24	26
18	27	122	323	99	77	383	235	318	107	78	21	24
19	27	117	337	94	70	327	265	258	98	69	19	21
20	27	108	363	92	66	325	304	231	85	65	19	19
21	29	104	312	87	70	291	264	210	80	60	18	18
22	60	100	500	84	84	259	250	200	68	63	16	17
23	109	97	463	79	274	253	242	183	63	54	16	20
24	69	97	404	77	760	244	233	168	63	48	15	40
25	56	95	385	75	978	225	229	151	59	43	20	26
26	66	90	331	73	723	207	224	139	55	54	31	20
27	73	85	312	70	641	202	212	136	55	82	28	952
28	63	84	338	68	515	242	199	246	68	58	23	989
29	62	585	412	66	---	325	189	244	142	46	20	426
30	60	495	429	66	---	340	171	172	126	41	22	299
31	58	---	366	64	---	321	---	152	---	59	42	---
TOTAL	1362	3857	11078	4737	5561	11074	9036	4907	3680	2219	1057	3527
MEAN	43.9	129	357	153	199	357	301	158	123	71.6	34.1	118
MAX	109	585	500	376	978	685	458	318	313	135	127	989
MIN	26	56	256	64	54	202	171	87	55	41	15	17
CFSM	.27	.79	2.18	.94	1.22	2.18	1.84	.97	.75	.44	.21	.72
IN.	0.31	0.88	2.52	1.08	1.27	2.52	2.06	1.12	0.84	0.51	0.24	0.80

CAL YR 1984 TOTAL 127416 MEAN 348 MAX 4290 MIN 26 CFSM 2.13 IN. 29.01
WTR YR 1985 TOTAL 62095 MEAN 170 MAX 989 MIN 15 CFSM 1.04 IN. 14.14

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 upstream from bridge on New York City Road 9 and Pepacton Reservoir, and 2.7 mi southwest of Dunraven.

DRAINAGE AREA.--25.2 mi^2.

PERIOD OF RECORD.--February 1937 to current year. Published as "at Arena" 1937-67.

REVISED RECORDS.--WSP 1432: 1937. WDR NY-82-1: Drainage area. WDR NY-84-1: 1979-83.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,298.54 ft Board of Water Supply, City of New York datum. Prior to Oct. 17, 1939, nonrecording gage at site 0.2 mi downstream at different datum. Oct. 17 to Dec. 8, 1939, nonrecording gage at present site at different datum.

REMARKS.--Estimated daily discharges: Oct. 1-16, Jan. 9 to Feb. 24, and Sept. 27. Records poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--48 years, 55.0 ft^3/s, 29.64 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,500 ft^3/s Sept. 21, 1938, from rating curve extended above 960 ft^3/s on basis of velocity-area study; maximum gage height, 9.92 ft Nov. 25, 1950; minimum discharge observed, 1.2 ft^3/s Sept. 25, 26, 1939, gage height, 0.71 ft, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 740 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	unknown	*1,220	*a6.69	No other peak greater than base discharge.			

a From floodmark.

Minimum discharge recorded, 3.1 ft^3/s Oct. 17, Sept. 23, 24-26, 27, but may have been less during period of no gage-height record, Oct. 1-16; minimum gage height recorded, 2.87 ft Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	9.3	76	57	10	66	62	28	53	15	25	6.4
2	6.0	9.9	65	55	9.8	63	57	27	44	13	17	5.9
3	6.0	10	68	52	9.6	57	54	30	41	12	15	5.5
4	8.0	10	67	49	9.6	48	54	27	37	12	13	5.4
5	7.0	20	57	45	9.6	66	58	25	36	11	13	6.2
6	6.4	24	56	40	9.4	52	67	25	34	11	12	6.3
7	5.8	21	47	40	9.0	49	68	25	30	12	12	6.2
8	5.4	18	46	34	8.8	53	67	23	31	10	17	6.1
9	5.2	18	44	22	8.6	53	62	22	28	9.0	13	11
10	4.8	23	46	20	8.6	51	57	22	26	8.7	11	9.4
11	4.5	23	51	19	8.8	49	54	21	23	8.1	9.5	7.8
12	4.3	23	47	18	13	133	51	21	24	23	9.0	6.6
13	4.2	24	53	17	33	114	48	20	23	28	8.4	6.4
14	4.1	22	59	17	26	96	47	19	21	23	7.6	5.5
15	4.0	22	58	19	20	82	45	17	19	27	7.2	4.9
16	4.0	24	57	17	16	70	44	15	19	32	7.0	4.4
17	3.7	23	55	16	14	68	42	19	19	24	6.2	3.8
18	4.1	22	54	15	13	62	40	89	24	22	5.7	3.6
19	4.4	22	56	15	12	53	44	69	19	20	5.5	3.5
20	4.7	21	56	14	12	55	48	58	17	18	5.7	3.5
21	4.2	20	52	14	12	51	45	50	16	17	5.8	3.5
22	7.0	19	73	14	13	46	44	45	14	18	5.7	3.3
23	10	19	67	13	30	46	44	39	14	15	5.6	3.2
24	8.3	19	62	13	140	44	42	34	16	14	5.3	3.1
25	7.5	18	58	12	163	41	41	32	12	12	6.5	3.1
26	9.0	18	50	12	106	37	41	29	8.3	19	8.3	3.1
27	8.6	18	49	11	87	37	38	31	8.1	20	6.8	340
28	8.4	20	50	11	72	46	36	53	11	15	6.4	277
29	9.0	100	55	11	---	69	33	50	22	13	6.3	115
30	9.3	82	62	10	---	71	31	41	18	11	6.6	54
31	9.3	---	58	10	---	63	---	38	---	17	6.9	---
TOTAL	192.8	722.2	1754	712	883.8	1891	1464	1044	707.4	509.8	290.0	923.7
MEAN	6.22	24.1	56.6	23.0	31.6	61.0	48.8	33.7	23.6	16.4	9.35	30.8
MAX	10	100	76	57	163	133	68	89	53	32	25	340
MIN	3.7	9.3	44	10	8.6	37	31	15	8.1	8.1	5.3	3.1
CFSM	.25	.96	2.25	.91	1.25	2.42	1.94	1.34	.94	.65	.37	1.22
IN.	0.28	1.07	2.59	1.05	1.30	2.79	2.16	1.54	1.04	0.75	0.43	1.36

CAL YR 1984 TOTAL 19556.3 MEAN 53.4 MAX 889 MIN 3.7 CFSM 2.12 IN. 28.87
WTR YR 1985 TOTAL 11094.7 MEAN 30.4 MAX 340 MIN 3.1 CFSM 1.21 IN. 16.38

DELAWARE RIVER BASIN

01415000 TREMPER KILL NEAR ANDES, NY

LOCATION.--Lat 42°07'12", long 74°49'08", Delaware County, Hydrologic Unit 02040102, on right bank 500 ft upstream from bridge on County Highway 1, about 1,700 ft upstream from Pepacton Reservoir, and 5 mi south of Andes.

DRAINAGE AREA.--33.2 mi^2.

PERIOD OF RECORD.--February 1937 to current year. Published as "near Shavertown" 1937-67.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Nov. 1937. Datum of gage is 1,285.87 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 5, 1937, nonrecording gage at site 500 ft downstream at different datum. Aug. 5 to Sept. 28, 1937, nonrecording gage at site 0.25 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Jan 9 to Feb. 23. Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--48 years, 59.1 ft^3/s, 24.17 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,250 ft^3/s Sept. 21, 1938, gage height, 7.12 ft, from rating curve extended above 1,500 ft^3/s; maximum gage height, 7.92 ft Jan. 26, 1976 (ice jam); minimum discharge, 0.5 ft^3/s Sept. 17, 21, 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	1730	*691	*4.57	No other peak greater than base discharge.			

Minimum discharge, 3.2 ft^3/s Aug. 23, 24, 25, gage height, 2.41 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	9.6	133	84	13	103	81	28	88	13	42	8.0
2	8.6	11	114	81	13	91	79	26	50	11	19	6.2
3	8.3	10	113	72	12	77	76	26	46	11	13	5.5
4	9.8	9.7	108	67	12	68	81	24	40	11	11	5.0
5	8.0	45	87	63	12	96	79	21	37	10	9.5	5.9
6	7.1	44	87	58	11	76	81	28	35	21	8.9	6.1
7	6.3	40	78	52	11	74	79	33	29	50	8.2	5.2
8	6.0	33	70	49	11	69	83	23	28	24	8.5	4.7
9	5.7	29	60	39	11	70	79	20	25	17	7.5	13
10	5.5	44	63	36	11	66	70	19	23	18	6.7	25
11	5.3	40	77	33	11	64	66	18	19	15	6.4	22
12	5.2	38	76	30	14	180	61	17	26	58	5.9	12
13	4.9	41	91	28	44	159	55	16	26	72	5.5	9.7
14	4.8	38	87	26	31	141	55	15	22	57	5.4	9.0
15	4.5	38	87	24	25	121	51	14	17	56	5.6	8.0
16	4.3	48	84	22	20	107	48	14	18	76	5.9	7.7
17	4.0	46	80	21	18	97	43	16	20	51	5.3	7.0
18	4.1	42	73	21	17	86	40	50	22	42	4.6	6.7
19	4.3	40	80	20	16	79	50	30	21	36	4.5	6.3
20	4.5	36	82	20	15	71	59	24	16	30	4.3	6.0
21	4.6	34	69	20	16	64	48	21	14	26	3.9	5.8
22	12	32	128	20	18	58	45	20	14	28	3.7	5.8
23	17	30	112	19	60	53	46	19	13	20	3.5	5.7
24	10	30	100	19	179	51	44	17	13	17	3.3	5.7
25	8.6	28	92	18	251	47	44	16	11	15	7.3	5.6
26	14	27	80	16	182	44	43	15	9.9	22	7.9	6.4
27	13	26	68	15	152	40	41	17	9.7	20	6.2	224
28	11	24	75	14	109	51	39	38	13	14	5.1	161
29	11	147	95	14	---	54	35	31	21	11	4.5	94
30	10	126	97	13	---	54	31	20	19	11	10	68
31	10	---	81	13	---	58	---	17	---	33	14	---
TOTAL	240.8	1186.3	2727	1027	1295	2469	1732	693	745.6	896	257.1	761.0
MEAN	7.77	39.5	88.0	33.1	46.3	79.6	57.7	22.4	24.9	28.9	8.29	25.4
MAX	17	147	133	84	251	180	83	50	88	76	42	224
MIN	4.0	9.6	60	13	11	40	31	14	9.7	10	3.3	4.7
CFSM	.23	1.19	2.65	.00	1.39	2.40	1.74	.67	.75	.87	.25	.77
IN.	0.27	1.33	3.06	1.15	1.45	2.77	1.94	0.78	0.84	1.00	0.29	0.85

CAL YR 1984 TOTAL 23649.3 MEAN 64.6 MAX 1300 MIN 4.0 CFSM 1.95 IN. 26.50
WTR YR 1985 TOTAL 14029.8 MEAN 38.4 MAX 251 MIN 3.3 CFSM 1.16 IN. 15.72

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 downstream from Downsville Dam, at downstream end of outlet channel of Pepacton Reservoir, and 1.0 mi east of Downsville.

DRAINAGE AREA.--372 mi^2.

PERIOD OF RECORD.--July 1941 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,094.92 ft 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 downstream at datum 7.03 ft lower.

REMARKS.--No estimated daily discharges. 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. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,900 ft^3/s Nov. 26, 1950, gage height, 14.52 ft, site and datum then in use, from rating curve extended above 12,000 ft^3/s; minimum discharge, 0.3 ft^3/s Oct. 11, 1954; minimum daily, 0.6 ft^3/s Oct. 10, 1954; minimum gage height, 1.39 ft Jan. 17, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 9, 1903, reached a stage of about 16 ft (at former datum).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 667 ft^3/s Nov. 1, 2, gage height, 3.84 ft; minimum, 6.2 ft^3/s Mar. 28; minimum daily, 6.4 ft^3/s Feb. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	412	53	52	49	6.8	6.8	18	18	18	19	19
2	78	494	49	52	53	6.9	6.7	18	18	42	19	19
3	79	305	48	52	49	6.9	6.8	18	18	68	19	18
4	77	306	49	52	49	6.9	6.8	18	18	67	30	19
5	75	307	51	52	48	7.0	6.7	18	18	82	45	42
6	74	305	53	52	52	6.9	6.8	18	18	83	45	59
7	74	305	55	52	50	6.8	9.3	18	18	66	47	51
8	74	309	54	53	48	6.9	16	18	18	66	43	51
9	74	303	54	52	50	6.9	16	18	18	43	46	36
10	74	232	54	51	50	6.9	17	18	18	18	55	18
11	74	242	54	118	50	7.0	18	18	18	44	56	18
12	74	310	54	117	50	7.9	18	18	18	68	47	18
13	74	449	53	48	47	7.5	18	18	18	46	32	43
14	74	596	53	48	29	7.4	18	18	18	19	18	45
15	74	592	53	47	6.4	7.4	18	18	18	19	23	18
16	73	586	53	48	6.8	7.3	18	39	18	19	36	18
17	72	586	54	89	7.2	7.3	18	61	18	19	19	18
18	72	586	53	120	7.2	7.0	18	30	18	42	33	18
19	72	489	52	133	27	7.0	18	17	18	68	47	18
20	72	436	52	126	50	7.0	18	17	40	68	42	18
21	73	585	52	73	29	6.9	18	17	66	68	36	18
22	73	586	53	57	6.5	6.7	18	17	66	64	34	18
23	72	586	52	52	6.8	6.7	18	17	66	54	53	18
24	72	586	53	50	6.9	6.7	18	17	66	37	37	18
25	139	586	58	52	7.0	6.7	18	32	66	35	18	18
26	241	586	52	49	6.9	6.7	18	54	66	52	19	18
27	223	586	52	53	7.0	6.7	18	35	66	52	19	22
28	129	585	54	51	7.0	6.8	18	18	66	53	24	19
29	186	256	52	48	---	6.7	18	17	43	53	25	19
30	287	55	52	49	---	6.7	18	17	18	47	19	19
31	283	---	51	45	---	6.8	---	17	---	39	19	---
TOTAL	3267	13147	1632	1993	855.7	215.8	458.9	692	971	1519	1024	751
MEAN	105	438	52.6	64.3	30.6	6.96	15.3	22.3	32.4	49.0	33.0	25.0
MAX	287	596	58	133	53	7.9	18	61	66	83	56	59
MIN	72	55	48	45	6.4	6.7	6.7	17	18	18	18	18

CAL YR 1984 TOTAL 97624.8 MEAN 267 MAX 9340 MIN 6.9
WTR YR 1985 TOTAL 26526.4 MEAN 72.7 MAX 596 MIN 6.4

DELAWARE RIVER

01417500 EAST BRANCH DELAWARE RIVER AT HARVARD, NY

LOCATION.--Lat 42°01'28", long 75°07'10", Delaware County, Hydrologic Unit 02040102, on right bank 800 ft downstream from Baxter Brook, and 1,100 ft downstream from highway bridge at Harvard. Water-quality sampling site at discharge station.

DRAINAGE AREA.--458 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1934 to June 1967, November 1977 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area. WDR NY-84-1: 1978-81(M).

GAGE.--Water-stage recorder. Datum of gage is 1,007.41 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 12, 1958, water-stage recorder 1,100 ft upstream at datum 0.65 ft higher, and from Aug. 12, 1958, to June 30, 1967, water-stage recorder at site 200 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Nov. 26-27, Jan. 9 to Mar. 2, and Apr. 8-9, 11. Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from 371 mi^2 of drainage area controlled by Pepacton 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. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,400 ft^3/s Sept. 22, 1938, gage height, 16.93 ft site and datum then in use, from rating curve extended above 10,000 ft^3/s on basis of slope-area measurement at gage height 15.58 ft; minimum discharge, 7.2 ft^3/s Oct. 13, 1954, gage height, 1.63 ft site and datum then in use; minimum daily discharge, 7.6 ft^3/s Oct. 13, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,660 ft^3/s Sept. 27, gage height, 6.95 ft; minimum, 32 ft^3/s Aug. 23, Sept. 4, 5, 23, 24, 26, gage height, 1.65 ft; minimum daily, 32 ft^3/s Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	341	414	335	74	250	190	122	296	44	175	47
2	88	539	373	315	80	220	226	115	245	38	94	38
3	84	337	341	280	72	189	217	109	210	73	75	35
4	84	337	332	259	64	144	216	99	179	91	66	33
5	80	363	289	240	58	199	229	92	154	87	81	36
6	78	360	283	222	54	166	233	97	141	148	79	85
7	77	355	248	202	52	136	237	96	119	333	82	79
8	76	381	228	186	52	149	239	83	105	198	83	73
9	76	283	203	130	52	147	230	76	99	163	75	113
10	76	386	197	130	54	145	212	70	88	108	75	155
11	76	412	225	130	58	145	195	69	75	119	86	93
12	76	582	229	140	62	462	178	64	81	193	75	71
13	76	581	247	110	110	538	160	62	83	515	65	61
14	74	587	263	84	200	462	150	57	73	287	45	91
15	74	587	274	72	140	388	142	54	64	240	37	65
16	74	580	274	70	110	320	138	53	61	238	57	46
17	74	549	266	72	94	281	136	101	62	177	52	43
18	74	436	255	78	88	236	122	192	70	142	35	40
19	74	567	260	84	82	200	134	120	67	166	56	38
20	74	572	283	90	130	190	167	104	57	159	62	36
21	77	569	257	92	90	164	153	94	87	148	58	35
22	100	568	352	86	100	140	148	89	97	146	46	34
23	122	565	362	82	140	133	159	83	96	122	52	33
24	98	566	334	80	270	127	203	77	95	102	67	34
25	92	568	315	82	600	118	190	71	92	72	63	33
26	255	620	267	78	420	104	192	94	89	101	50	32
27	310	600	245	76	340	98	176	114	89	123	40	1470
28	207	565	241	72	280	110	160	127	94	97	35	1230
29	132	717	301	70	---	119	148	135	107	88	37	579
30	333	427	348	70	---	126	133	95	66	84	46	397
31	309	---	335	72	---	138	---	85	---	113	72	---
TOTAL	3587	14900	8841	4089	3926	6344	5413	2899	3241	4715	2021	5155
MEAN	116	497	285	132	140	205	180	93.5	108	152	65.2	172
MAX	333	717	414	335	600	538	239	192	296	515	175	1470
MIN	74	283	197	70	52	98	122	53	57	38	35	32

CAL YR 1984 TOTAL 153916 MEAN 421 MAX 10800 MIN 74
WTR YR 1985 TOTAL 65131 MEAN 178 MAX 1470 MIN 32

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1978 to current year.

INSTRUMENTATION.--Water-temperature digital recorder since June 1978, provides one-hour-interval punches.

REMARKS.--Interruption in record was due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1978, 1981-82, 1984-85), 28.0°C June 30, 1981; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.0°C Aug. 15; minimum, 0.0°C on many days during December to March.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.5	10.5	11.5	7.5	6.0	6.5	5.0	4.5	5.0	5.0	3.5	4.0
2	10.5	9.0	10.0	7.5	5.5	7.0	5.0	4.0	4.5	5.5	3.5	4.5
3	9.5	8.0	8.5	6.0	4.5	5.0	3.5	3.0	3.5	3.5	1.0	2.5
4	12.0	8.5	10.0	7.0	5.0	6.0	3.5	2.5	3.0	1.5	.5	1.0
5	11.5	9.0	10.0	8.5	7.0	7.5	3.0	2.0	2.5	1.5	.0	1.0
6	11.0	7.0	9.0	7.5	6.0	7.0	2.0	.5	1.5	1.0	.0	.5
7	10.5	7.0	8.5	6.0	4.5	5.0	1.5	.0	.5	2.5	1.0	1.5
8	11.0	9.5	10.0	5.0	3.5	4.5	1.0	.0	.5	2.0	.0	.5
9	13.5	11.0	12.0	6.0	5.0	5.5	3.0	1.0	2.0	.5	.0	.0
10	15.0	12.0	13.0	8.0	6.0	7.0	4.0	2.0	3.0	.5	.0	.0
11	14.5	12.0	13.0	8.5	7.5	8.0	5.0	4.0	4.0	.5	.0	.0
12	15.0	11.5	13.0	8.0	4.5	6.5	5.0	4.0	4.5	.0	.0	.0
13	14.0	11.0	12.5	4.5	4.0	4.0	6.0	4.5	5.5	.0	.0	.0
14	13.5	10.5	12.0	5.0	3.5	4.5	6.0	4.0	5.0	.5	.0	.0
15	12.5	9.0	11.0	6.0	4.0	5.0	4.0	4.0	4.0	.0	.0	.0
16	12.5	9.0	10.5	6.0	5.0	5.5	5.0	4.0	4.5	.0	.0	.0
17	12.0	9.0	10.5	5.0	4.0	4.5	6.5	5.0	5.5	.0	.0	.0
18	13.0	11.5	12.0	6.0	4.0	5.0	6.0	4.5	5.5	.0	.0	.0
19	13.0	11.5	12.0	6.0	4.0	5.0	4.5	3.5	4.0	.0	.0	.0
20	14.5	12.0	13.0	4.0	3.0	3.5	4.0	3.0	3.5	.0	.0	.0
21	12.0	10.5	11.5	4.5	3.5	4.0	2.5	1.0	2.0	.0	.0	.0
22	13.0	12.0	12.0	5.5	4.0	4.5	4.0	1.0	3.0	.0	.0	.0
23	12.0	11.0	11.5	5.5	3.5	4.5	3.5	2.0	2.5	.0	.0	.0
24	11.0	10.0	10.5	6.0	4.5	5.5	3.0	1.0	2.0	.0	.0	.0
25	11.5	9.0	10.0	6.5	5.5	6.0	3.5	.5	2.0	.0	.0	.0
26	10.0	9.0	9.5	6.0	5.0	5.5	.5	.0	.5	.0	.0	.0
27	10.0	8.5	9.0	6.0	4.5	5.5	1.0	.5	.5	.5	.0	.0
28	13.0	10.0	11.5	8.5	6.0	7.0	3.0	1.0	2.0	.0	.0	.0
29	12.5	11.0	12.0	8.5	5.0	6.5	8.0	3.5	6.0	.5	.0	.0
30	10.5	7.5	8.5	5.5	4.5	5.0	7.5	4.0	6.0	.5	.0	.0
31	8.5	7.0	8.0	---	---	---	4.0	3.0	3.5	.0	.0	.0
MONTH	15.0	7.0	11.0	8.5	3.0	5.5	8.0	.0	3.5	5.5	.0	.5

01417500 EAST BRANCH DELAWARE RIVER AT HARVARD, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	4.0	.5	2.5	5.5	4.0	4.5	16.0	12.0	14.0
2	.0	.0	.0	5.0	3.0	3.5	5.0	3.5	4.0	13.5	11.5	12.5
3	.5	.0	.0	4.5	1.5	2.5	3.5	2.5	3.0	13.0	10.0	11.5
4	.5	.0	.0	2.0	.0	.5	8.0	2.5	5.0	15.0	8.0	11.5
5	.0	.0	.0	1.5	.0	.5	11.5	5.5	8.5	14.0	11.5	13.0
6	.0	.0	.0	2.0	.0	.5	11.0	8.0	9.5	13.5	12.5	12.5
7	.0	.0	.0	2.0	.0	.5	8.5	6.0	7.5	14.5	11.5	13.0
8	.0	.0	.0	2.5	.5	1.5	7.0	4.5	6.0	15.5	10.0	12.5
9	.0	.0	.0	5.0	.5	2.5	6.0	3.0	4.5	16.0	9.0	12.5
10	.5	.0	.0	6.0	1.5	3.5	7.0	1.5	4.5	19.0	12.5	15.5
11	.5	.0	.0	4.5	2.0	3.5	6.5	4.5	5.5	20.5	14.5	17.5
12	.0	.0	.0	4.0	3.0	3.5	10.0	3.5	6.5	21.0	16.5	19.0
13	.0	.0	.0	4.5	2.5	3.5	9.0	6.0	7.5	22.5	18.0	20.0
14	.5	.0	.0	4.0	3.0	3.5	8.0	6.5	7.5	22.0	16.5	19.5
15	.5	.0	.0	3.5	1.5	3.0	10.0	7.5	8.5	21.5	16.5	19.0
16	.5	.0	.0	5.0	.5	2.5	13.0	9.0	10.5	18.5	15.5	16.5
17	.5	.0	.0	4.5	2.5	3.5	12.0	7.0	9.0	18.0	15.5	16.5
18	1.0	.0	.5	4.5	1.0	2.5	12.5	6.5	9.5	16.5	14.0	15.0
19	1.5	.0	.5	4.5	.0	2.0	11.5	10.0	11.0	15.0	11.5	13.0
20	1.0	.0	.0	5.5	2.5	4.0	14.5	10.0	12.0	19.0	11.0	15.0
21	.5	.0	.0	6.0	1.0	3.5	16.0	11.0	13.5	---	---	---
22	1.0	.0	.5	6.5	1.0	3.5	18.0	12.0	15.0	---	---	---
23	1.5	.0	.5	6.5	3.5	5.0	17.5	13.5	15.5	---	---	---
24	1.5	.0	.5	5.5	4.5	5.0	14.5	11.5	12.5	---	---	---
25	2.5	1.0	1.5	7.0	2.5	4.5	11.5	10.5	10.5	---	---	---
26	3.5	2.0	2.5	7.0	1.5	4.0	14.5	9.0	11.5	---	---	---
27	3.5	1.0	3.0	9.5	2.5	6.0	15.5	10.5	12.5	---	---	---
28	3.0	.0	1.5	10.0	7.5	8.5	12.5	10.0	11.0	---	---	---
29	---	---	---	13.0	8.5	10.5	15.0	8.5	11.0	18.5	13.0	16.0
30	---	---	---	11.5	8.5	9.5	17.0	9.5	13.0	18.5	14.5	16.5
31	---	---	---	8.0	4.0	6.5	---	---	---	17.0	15.5	16.5
MONTH	3.5	.0	.5	13.0	.0	3.5	18.0	1.5	9.0	22.5	8.0	15.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.5	14.5	15.5	23.0	18.0	20.5	21.0	16.0	18.0	19.5	16.0	17.5
2	19.0	13.0	15.5	23.0	19.0	21.0	21.5	16.5	18.5	20.5	17.5	19.0
3	17.0	15.0	16.0	23.0	20.0	21.5	22.5	17.0	19.5	22.0	17.5	20.0
4	19.0	12.5	15.5	25.5	19.0	22.0	22.5	18.0	20.5	23.0	20.0	21.5
5	16.0	13.5	14.5	24.5	18.5	21.5	24.0	19.0	21.0	24.0	21.0	22.5
6	17.5	13.0	15.0	22.5	17.5	21.0	24.0	19.5	21.5	24.0	21.0	22.5
7	19.0	13.0	16.0	18.0	15.0	17.0	22.0	20.0	21.0	25.0	21.5	23.0
8	17.5	15.0	16.5	19.0	15.0	17.0	23.5	19.0	21.0	24.0	21.5	22.5
9	17.5	14.5	16.0	19.5	16.0	18.0	25.0	19.0	22.0	22.0	19.0	20.5
10	22.0	15.5	18.0	20.0	17.0	18.5	24.0	20.0	22.0	19.5	17.0	18.5
11	20.5	15.5	18.0	21.5	16.5	18.5	22.0	20.5	21.5	19.5	16.5	18.0
12	18.5	15.0	16.5	19.5	16.0	17.5	24.0	18.0	21.0	17.5	14.5	15.5
13	15.0	13.0	14.0	19.5	14.5	16.5	23.5	18.0	21.0	16.0	12.5	14.0
14	15.0	12.0	13.5	18.5	15.5	17.0	24.0	20.5	22.5	17.0	12.0	14.5
15	19.0	12.5	15.5	17.5	16.5	17.0	26.0	22.0	24.0	17.0	12.5	14.5
16	19.0	16.0	17.5	21.0	16.5	18.5	25.0	22.0	23.0	17.5	13.5	15.5
17	20.0	16.5	18.5	22.0	16.5	19.0	24.5	19.5	22.0	18.5	14.0	16.5
18	22.0	17.0	19.5	22.5	17.0	20.0	23.0	19.5	21.5	19.0	15.0	17.5
19	20.5	17.5	19.0	24.0	18.0	21.0	21.5	19.5	20.5	20.0	16.0	18.0
20	20.5	16.0	18.5	23.5	19.0	21.0	23.0	20.0	21.0	21.5	17.5	19.5
21	22.5	16.0	19.0	22.0	18.5	20.0	22.0	18.5	20.5	22.0	18.5	20.5
22	21.5	16.5	19.0	22.0	18.5	20.0	20.5	18.0	19.5	21.0	19.0	20.0
23	25.0	18.5	21.5	21.0	16.5	19.0	21.5	17.0	19.0	21.0	18.5	20.0
24	22.5	19.0	21.0	22.5	16.0	19.0	20.0	17.0	18.5	20.0	18.5	19.5
25	19.5	16.0	18.0	23.5	18.0	20.5	19.5	17.0	18.0	19.0	16.0	17.5
26	17.5	15.5	16.5	22.0	20.0	21.0	21.0	17.5	19.0	17.5	15.0	16.5
27	18.5	14.5	16.5	24.0	18.5	21.0	21.5	19.5	21.0	17.0	14.0	15.5
28	16.5	15.0	15.5	24.0	18.0	21.0	22.0	18.5	20.5	14.5	13.0	13.5
29	17.5	14.5	15.5	24.0	19.0	21.5	22.0	20.0	21.0	14.5	12.0	13.0
30	23.0	15.0	18.5	25.0	19.5	22.0	20.5	18.5	19.0	15.0	12.5	13.5
31	---	---	---	22.5	17.5	19.0	18.0	17.5	17.5	---	---	---
MONTH	25.0	12.0	17.0	25.5	14.5	19.5	26.0	16.0	20.5	25.0	12.0	18.0

01417820 BEAVER KILL ABOVE BLACK BROOK, NEAR TURNWOOD, NY

LOCATION.--Lat 42°00'40", long 74°36'15", Ulster County, Hydrologic Unit 02040102, 900 ft upstream from Black Brook, 2.4 mi southwest of Balsam Lake Mountain, and 5.5 mi southeast of Turnwood.

DRAINAGE AREA.--8.08 mi².

PERIOD OF RECORD.--November 1983 to current year.
CHEMICAL DATA: 1984-85 (c).
MINOR ELEMENT DATA: 1984-85 (c).
ORGANIC DATA: OC--1984-85 (c).

REMARKS.--All anion and cation analyses were performed on water samples which passed through a 0.1-micrometer membrane filter.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV 03...	1600	3.5	34	6.8	6.0	16	10	<.1	5.5
DEC 12...	1100	14	33	6.4	2.5	16	11	<.1	5.3
JAN 23...	1500	8.4	38	6.9	.5	15	12	<.1	5.2
MAR 29...	0945	56	--	6.6	4.5	14	12	<.1	4.6
MAY 18...	1445	24	25	6.7	13.5	14	11	<.1	4.9
JUL 17...	1100	9.4	31	7.0	15.0	16	11	<.1	5.3

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV 03...	.59	.30	.27	7.2	8.0	.80	<.10	<.01	1.8
DEC 12...	.61	.40	.23	5.3	7.2	.65	.04	.01	1.9
JAN 23...	.60	.30	.18	5.7	7.1	.60	.04	.01	1.8
MAR 29...	.53	.34	.22	2.2	5.5	.54	.03	.02	1.6
MAY 18...	.50	.30	.23	4.4	6.5	.57	.04	<.01	1.8
JUL 17...	.63	.40	.20	6.8	7.4	.47	.06	.01	2.0

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
NOV 03...	22	.19	<.005	<.002	10	7	<1	1.3
DEC 12...	22	.58	.007	<.002	20	9	<1	3.5
JAN 23...	20	.62	.005	<.001	20	7	<1	1.9
MAR 29...	20	1.2	.013	<.001	70	8	13	1.9
MAY 18...	19	.46	.006	<.001	40	9	3	2.3
JUL 17...	21	.33	.008	.002	70	15	2	2.0

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 66 ft downstream from road bridge in Cooks Falls, and 5.5 mi downstream from Willowemoc Creek.

DRAINAGE AREA.--241 mi^2.

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 above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1933, nonrecording gage at site 125 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 25, Feb. 28, and Mar. 1, 4, 6-7. Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--71 years (1915-85), 556 ft^3/s, 31.33 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,600 ft^3/s Mar. 31, 1951, gage height, 16.02 ft, from rating curve extended above 13,000 ft^3/s on basis of slope-area measurement at gage height 15.52 ft; minimum discharge, 16 ft^3/s Nov. 22, 23, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 12	1400	4,700	7.50	Sept. 27	1915	*10,100	*10.16

Minimum discharge, 51 ft^3/s Oct. 14, 15, 16, 19, gage height, 0.84 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	73	736	717	150	620	588	275	407	146	734	157
2	69	74	607	725	140	579	652	262	368	124	365	129
3	68	73	541	622	140	531	584	309	305	111	258	113
4	64	70	592	552	130	450	552	320	282	106	216	107
5	62	121	479	524	130	575	620	274	268	102	196	106
6	59	182	465	465	130	520	692	283	262	104	177	154
7	57	140	406	451	130	430	675	319	232	124	164	139
8	57	120	353	420	130	461	666	281	222	104	243	115
9	56	112	353	250	130	441	638	250	227	94	220	394
10	56	160	329	230	130	435	563	245	219	92	183	534
11	56	204	366	210	140	432	535	229	194	94	159	323
12	54	183	376	200	160	2850	515	218	185	124	145	228
13	53	183	400	190	340	2220	484	227	189	380	131	190
14	52	171	541	190	370	1460	474	212	177	212	124	168
15	51	158	513	200	260	1110	465	194	161	293	126	161
16	52	163	493	180	240	872	456	188	167	485	160	149
17	53	171	491	170	210	768	438	221	171	302	139	136
18	53	162	503	160	180	664	399	1070	191	217	117	130
19	52	155	505	160	160	558	411	765	175	183	109	123
20	54	146	636	150	150	549	470	548	150	164	109	117
21	53	143	539	150	150	511	433	445	143	160	106	113
22	66	136	928	150	180	455	415	392	129	821	98	116
23	146	131	1000	150	230	436	399	346	126	328	92	115
24	114	133	744	160	600	433	388	319	135	225	87	116
25	86	130	648	160	1500	409	374	290	128	187	148	110
26	88	126	518	150	1140	371	371	274	116	213	208	101
27	94	123	494	150	936	363	344	274	110	327	172	3790
28	86	123	485	150	700	460	324	450	117	232	133	2940
29	83	1280	814	140	---	591	313	578	149	183	116	1270
30	82	1060	1030	140	---	583	294	373	186	162	111	806
31	78	---	788	140	---	530	---	314	---	183	186	---
TOTAL	2117	6206	17673	8406	8986	21667	14532	10745	5891	6582	5532	13150
MEAN	68.3	207	570	271	321	699	484	347	196	212	178	438
MAX	146	1280	1030	725	1500	2850	692	1070	407	821	734	3790
MIN	51	70	329	140	130	363	294	188	110	92	87	101
CFSM	.28	.86	2.37	1.12	1.33	2.90	2.01	1.44	.81	.88	.74	1.82
IN.	0.33	0.96	2.73	1.30	1.39	3.34	2.24	1.66	0.91	1.02	0.85	2.03

CAL YR 1984 TOTAL 204031 MEAN 557 MAX 9690 MIN 51 CFSM 2.31 IN. 31.49
WTR YR 1985 TOTAL 121487 MEAN 333 MAX 3790 MIN 51 CFSM 1.38 IN. 18.75

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 upstream from bridge on County highway 28 at Fishs Eddy, 0.6 mi upstream from Fish Creek, 4.2 mi downstream from Beaver Kill, and 11 mi upstream from the confluence of East and West Branches near Hancock. Water-quality sampling site at discharge station.

DRAINAGE AREA.--784 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 955.96 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 27, 1928, nonrecording gage and Sept. 28, 1928 to Nov. 1, 1967, water-stage recorder at site 3,000 ft downstream at datum 5.0 ft lower.

REMARKS.--Estimated daily discharges: Dec. 25-26, Jan. 5 to Feb. 26, and Mar. 4-8. Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from 371 mi^2 of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin). Part 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. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,300 ft^3/s Aug. 24, 1933, gage height, 20.60 ft at former site and datum, from rating curve extended above 22,000 ft^3/s; minimum discharge, 52 ft^3/s July 23, 1964, gage height, 1.16 ft at former site and datum; minimum daily discharge, 68 ft^3/s Aug. 29, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 9, 1903, reached a stage of 23.6 ft at former site and datum, from description obtained in April 1939, from local residents who had experienced the flood (discharge, about 70,000 ft^3/s, from rating curve extended above 22,000 ft^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,800 ft^3/s Sept. 27, gage height, 9.62 ft; minimum, 137 ft^3/s Oct. 16, 19, Aug. 23, gage height, 2.76 ft; minimum daily, 139 ft^3/s Oct. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	436	1390	1280	270	1090	903	510	808	231	872	242
2	174	690	1200	1250	270	991	1030	486	765	197	584	189
3	170	465	1060	1100	260	904	969	500	647	200	410	168
4	166	445	1130	993	240	720	934	538	582	215	337	154
5	159	529	954	940	230	860	991	471	527	210	315	152
6	155	633	922	840	230	820	1050	476	504	277	294	233
7	150	577	825	780	220	700	1070	517	449	564	274	258
8	148	544	703	740	220	760	1060	467	412	375	348	211
9	147	526	709	470	220	749	1050	420	406	308	341	449
10	147	612	657	440	220	746	951	397	385	250	293	882
11	146	566	720	420	240	744	898	377	339	237	270	570
12	144	655	758	410	270	3510	851	354	333	272	243	401
13	143	675	786	380	540	3550	800	353	336	928	215	323
14	142	879	944	340	680	2470	775	337	314	597	194	301
15	140	872	963	330	520	1900	757	308	279	596	183	282
16	140	879	943	310	440	1480	731	295	271	811	214	234
17	140	896	927	300	380	1290	716	364	289	618	220	212
18	140	883	918	290	340	1120	654	1170	313	459	173	198
19	139	869	904	290	300	946	666	1030	309	410	167	187
20	141	657	1070	290	340	933	767	796	255	379	178	178
21	144	826	964	290	300	855	724	667	262	354	171	170
22	181	831	1370	290	340	771	697	598	262	888	162	167
23	279	819	1670	280	440	739	681	533	256	570	146	168
24	257	819	1320	290	1100	721	733	490	260	403	159	169
25	203	811	1100	300	2700	684	694	448	252	320	205	164
26	319	803	920	280	2000	621	700	438	229	333	284	153
27	431	796	892	280	1610	600	653	459	219	511	251	5570
28	330	795	876	270	1280	666	612	622	230	405	192	6050
29	249	2060	1220	260	---	813	585	865	280	320	168	2520
30	403	1830	1610	260	---	831	543	601	297	283	180	1580
31	408	---	1380	260	---	805	---	505	---	312	260	---
TOTAL	6202	23678	31805	15253	16200	34389	24245	16392	11070	12833	8303	22535
MEAN	200	789	1026	492	579	1109	808	529	369	414	268	751
MAX	431	2060	1670	1280	2700	3550	1070	1170	808	928	872	6050
MIN	139	436	657	260	220	600	543	295	219	197	146	152

CAL YR 1984 TOTAL 433180 MEAN 1184 MAX 19400 MIN 139
WTR YR 1985 TOTAL 222905 MEAN 611 MAX 6050 MIN 139

DELAWARE RIVER BASIN

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1968 to current year.
CHEMICAL DATA: 1958-59 (d), 1970 (b), 1971-74 (d), 1975 (c).
MINOR ELEMENTS DATA: 1971-74 (a).
ORGANIC DATA: OC--1974 (a), 1975 (c).
NUTRIENT DATA: 1971-75 (d).
BIOLOGICAL DATA:
Bacteria--1971 (c), 1973-75 (c).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: November 1967 to current year.

INSTRUMENTATION.--Water-temperature digital recorder since October 1975, provides one-hour-interval punches. Prior to October 1975, water-temperature recorder provided continuous recordings.

REMARKS.--Interruption of record was due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1968-75, 1978, 1980-82, 1984), 31.5°C Aug. 2, 1975; minimum (water years 1968-76, 1978-79, 1981-85), 0.0°C on many days during winter periods, except 1978.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 27.5°C Aug. 15, but may have been higher during period of instrument malfunction; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.5	11.5	12.5	8.5	8.0	8.0	4.5	4.0	4.5	4.5	3.0	3.5
2	11.5	10.0	11.0	8.5	6.5	8.0	4.5	3.5	4.0	4.5	3.5	4.5
3	10.5	9.0	9.5	7.0	4.5	6.0	3.5	3.0	3.0	3.5	1.5	2.5
4	13.0	9.0	10.5	6.5	5.0	6.0	3.0	2.0	2.5	1.0	.5	.5
5	13.0	9.5	11.0	9.0	7.0	8.0	2.5	1.5	2.0	1.0	.5	.5
6	12.5	8.0	10.0	8.5	6.5	8.0	1.0	.5	.5	.5	.5	.5
7	11.5	7.5	9.5	6.5	4.5	5.5	.5	.0	.5	1.5	.5	1.0
8	12.0	10.0	11.0	5.0	3.0	4.0	.5	.0	.5	1.5	.0	.5
9	14.5	11.5	12.5	5.5	4.5	5.0	1.5	.5	1.0	.0	.0	.0
10	16.5	13.0	14.5	7.5	5.5	7.0	2.5	1.0	2.0	.0	.0	.0
11	16.5	13.5	14.5	8.5	7.5	8.0	4.0	2.5	3.5	.0	.0	.0
12	17.5	13.0	14.5	8.5	5.0	7.0	4.0	3.5	3.5	.0	.0	.0
13	15.5	12.5	14.0	5.0	3.0	4.0	5.5	4.0	4.5	.0	.0	.0
14	15.5	12.0	13.5	4.5	2.5	3.5	5.5	4.0	5.0	.0	.0	.0
15	14.5	10.5	12.5	4.5	3.5	3.5	4.0	3.5	3.5	.0	.0	.0
16	14.5	10.0	12.0	5.0	4.5	5.0	4.0	3.5	4.0	.0	.0	.0
17	13.0	10.5	12.0	4.5	3.5	4.0	6.0	4.0	5.0	.0	.0	.0
18	14.5	12.5	13.5	4.0	3.5	3.5	5.5	4.5	5.0	.0	.0	.0
19	14.0	13.0	13.5	4.5	3.0	4.0	4.5	3.5	3.5	.0	.0	.0
20	16.0	13.5	14.5	3.0	2.0	2.5	4.0	2.5	3.5	.0	.0	.0
21	13.0	12.5	13.0	3.5	2.0	2.5	2.5	1.0	1.5	.0	.0	.0
22	14.0	13.0	13.5	4.0	3.0	3.5	3.0	1.0	2.0	.0	.0	.0
23	13.5	12.5	13.0	4.0	3.0	3.5	3.0	2.0	2.5	.0	.0	.0
24	12.5	11.0	11.5	4.5	3.5	4.0	2.5	1.0	1.5	.0	.0	.0
25	12.5	10.0	11.5	6.0	4.5	5.0	2.5	.5	2.0	.0	.0	.0
26	12.0	11.0	11.5	5.5	4.5	5.0	.5	.5	.5	.0	.0	.0
27	12.0	10.5	11.0	5.0	4.0	4.5	.5	.5	.5	.0	.0	.0
28	15.0	12.0	13.5	8.5	5.0	6.5	2.5	.5	1.0	.0	.0	.0
29	14.5	13.0	14.0	8.5	5.0	6.5	6.5	2.5	5.0	.0	.0	.0
30	12.5	9.5	11.0	5.0	4.0	4.5	6.5	4.0	5.5	.0	.0	.0
31	10.0	9.0	9.5	---	---	---	4.0	2.5	3.0	.0	.0	.0
MONTH	17.5	7.5	12.0	9.0	2.0	5.0	6.5	.0	3.0	4.5	.0	.5

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	3.5	.5	2.0	5.0	3.5	4.0	16.0	13.0	14.5
2	.0	.0	.0	4.5	3.0	3.5	4.0	3.5	3.5	14.5	11.5	13.0
3	.0	.0	.0	3.5	1.5	2.5	3.0	2.5	2.5	12.5	10.0	11.0
4	.0	.0	.0	1.5	.0	.5	7.0	2.0	4.5	14.5	8.5	11.5
5	.0	.0	.0	1.5	.0	.5	10.5	6.0	8.0	14.0	11.5	13.0
6	.0	.0	.0	1.5	.0	.5	11.0	8.0	9.5	13.5	12.5	13.0
7	.0	.0	.0	1.5	.5	.5	8.0	6.0	7.0	14.5	11.0	12.5
8	.0	.0	.0	2.0	.5	1.0	6.5	4.5	5.5	15.0	10.0	12.5
9	.0	.0	.0	4.5	.5	2.5	5.5	3.0	4.0	15.5	9.0	12.5
10	.0	.0	.0	5.5	2.0	3.5	6.0	1.5	4.0	19.0	12.0	15.5
11	.0	.0	.0	4.0	2.0	3.0	6.5	4.5	5.0	21.0	14.5	18.0
12	.0	.0	.0	3.5	2.5	3.0	9.5	4.0	6.5	21.0	17.0	19.0
13	.0	.0	.0	3.5	2.0	3.0	9.0	6.5	7.5	23.0	18.0	20.0
14	.0	.0	.0	3.5	3.0	3.0	7.5	6.5	7.0	22.5	17.5	20.0
15	.0	.0	.0	3.0	1.5	2.5	9.5	7.5	8.5	21.0	17.0	19.0
16	.0	.0	.0	4.0	.0	2.0	12.5	9.0	10.5	18.5	15.5	16.5
17	.0	.0	.0	3.5	2.5	3.0	11.0	7.0	9.0	18.0	15.0	16.0
18	.5	.0	.0	3.0	1.0	2.0	11.5	6.5	9.0	15.5	13.5	14.5
19	.5	.5	.5	3.0	.5	1.5	11.5	9.5	11.0	13.5	11.5	12.5
20	.5	.0	.5	5.0	2.5	3.5	14.5	10.5	12.0	17.0	10.5	14.0
21	.5	.0	.5	5.0	1.5	3.0	16.5	11.5	14.0	16.5	14.5	15.5
22	.5	.5	.5	5.5	1.0	3.0	18.0	12.5	15.0	18.5	13.0	15.5
23	.5	.5	.5	6.0	3.5	4.5	17.5	14.0	16.0	17.5	14.0	16.0
24	.5	.5	.5	5.0	4.0	4.5	15.0	11.0	12.5	19.5	13.5	16.5
25	1.0	.0	.5	6.0	2.0	4.0	11.0	10.5	10.5	20.5	14.0	17.5
26	2.0	1.0	1.5	6.0	1.5	3.5	14.0	9.5	11.5	19.0	15.5	17.5
27	3.0	1.0	2.0	8.0	2.5	5.5	15.5	11.0	13.0	20.5	16.5	18.5
28	2.0	.5	1.0	9.5	7.0	8.5	13.0	10.0	11.0	18.5	15.5	17.0
29	---	---	---	12.0	8.5	10.0	14.5	8.0	11.0	18.5	13.5	15.5
30	---	---	---	10.5	8.0	9.0	16.5	10.0	13.5	18.0	14.0	16.0
31	---	---	---	8.0	4.0	6.0	---	---	---	17.0	15.0	16.0
MONTH	3.0	.0	.5	12.0	.0	3.5	18.0	1.5	9.0	23.0	8.5	15.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.5	14.5	15.5	22.5	19.0	21.0	20.5	16.5	18.5	---	---	---
2	19.0	13.5	16.0	23.5	19.5	21.5	21.5	17.0	19.5	---	---	---
3	17.0	16.0	16.5	23.0	20.5	21.5	22.5	17.0	20.0	---	---	---
4	19.0	13.5	16.5	25.5	20.0	23.0	24.0	18.0	21.0	---	---	---
5	17.0	14.0	15.0	26.0	21.0	23.5	24.0	19.0	21.5	---	---	---
6	18.0	13.0	15.0	24.0	18.0	22.5	24.5	20.0	22.0	---	---	---
7	19.0	13.5	16.0	19.0	17.5	18.5	22.5	20.5	21.5	---	---	---
8	18.0	15.5	17.0	20.0	16.0	18.0	24.0	20.0	22.0	---	---	---
9	17.5	15.0	16.0	22.0	17.5	19.5	25.5	20.5	23.0	---	---	---
10	21.5	15.5	18.5	22.0	19.0	20.0	24.5	21.0	23.0	---	---	---
11	20.5	16.0	18.5	23.5	18.5	21.0	23.5	21.0	22.0	---	---	---
12	19.5	15.0	17.0	21.5	17.5	19.5	25.0	19.5	22.0	---	---	---
13	15.0	13.0	14.0	21.5	16.5	19.0	24.5	19.5	22.5	---	---	---
14	15.0	11.5	13.5	20.0	18.0	19.5	25.5	22.0	23.5	---	---	---
15	19.0	12.5	15.5	19.5	18.5	19.0	27.5	23.0	25.0	---	---	---
16	19.0	16.5	17.5	22.0	18.0	20.0	25.5	22.0	23.5	---	---	---
17	20.0	16.5	18.0	23.0	17.5	20.5	25.0	20.0	22.5	---	---	---
18	22.5	18.0	20.0	24.0	18.5	21.0	23.0	20.0	21.5	19.5	15.5	17.0
19	20.5	17.5	19.5	24.5	19.5	22.0	22.0	20.0	20.5	21.0	16.0	18.0
20	20.0	16.5	18.5	25.5	21.0	22.5	---	---	---	22.0	17.5	19.5
21	22.0	16.0	19.0	24.5	20.5	22.5	---	---	---	22.5	18.5	20.5
22	22.0	17.0	19.5	22.5	20.5	21.5	---	---	---	20.0	19.0	19.5
23	25.0	19.5	22.0	22.0	17.5	20.0	---	---	---	20.5	18.0	19.5
24	24.0	20.0	22.0	23.0	17.0	20.0	---	---	---	19.5	17.5	19.0
25	21.5	17.5	19.5	24.0	19.0	21.5	---	---	---	19.0	15.0	17.0
26	19.0	16.5	17.5	23.0	21.0	21.5	---	---	---	17.0	14.5	16.0
27	19.0	16.0	17.5	24.0	19.0	21.5	---	---	---	16.0	14.0	15.0
28	18.0	16.0	16.5	24.0	19.0	21.5	---	---	---	14.0	13.0	13.5
29	19.5	15.0	17.0	24.5	19.5	22.0	---	---	---	14.0	11.5	13.0
30	23.0	16.5	20.0	25.0	20.5	23.0	---	---	---	14.5	12.0	13.0
31	---	---	---	23.5	18.0	20.5	---	---	---	---	---	---
MONTH	25.0	11.5	17.5	26.0	16.0	21.0	27.5	16.5	22.0	22.5	11.5	17.0

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 downstream from West Brook.

DRAINAGE AREA.--332 mi^2.

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

REVISED RECORD.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,190.30 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 25-26, Jan. 6 to Feb. 13, Feb. 15-24, and Mar. 6-7. Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Intermittent water-quality data for this station are included in section "ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES".

AVERAGE DISCHARGE.--35 years, 581 ft^3/s, 23.76 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,900 ft^3/s Feb. 11, 1981, gage height, 14.34 ft; minimum, 12 ft^3/s Sept. 15, Nov. 22, 1964; minimum gage height, 1.86 ft Nov. 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	2400	*4,610	*8.49	No other peak greater than base discharge.			

Minimum discharge, 30 ft^3/s Aug. 24, gage height, 2.31 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	79	1080	766	160	963	776	244	439	137	153	64
2	74	79	968	808	160	875	851	229	328	108	108	55
3	80	84	875	678	155	734	739	232	275	101	80	48
4	89	82	1020	597	150	597	774	206	244	99	69	44
5	82	122	749	593	150	871	785	193	223	91	63	45
6	71	212	733	500	150	780	746	217	238	90	56	54
7	65	156	654	400	145	580	737	256	215	138	53	81
8	63	134	587	330	145	684	717	204	190	113	59	64
9	61	130	547	280	145	787	716	178	185	95	57	81
10	58	160	526	260	150	727	627	164	173	92	53	425
11	56	187	680	260	155	723	582	152	150	89	49	223
12	54	167	696	250	170	2150	531	148	157	103	46	141
13	55	183	871	250	250	2040	480	168	193	119	43	110
14	53	189	875	260	330	1650	458	158	193	108	41	95
15	51	186	804	240	260	1380	438	139	159	110	41	84
16	50	242	784	200	230	1110	410	135	144	167	47	76
17	49	316	738	190	200	1050	378	171	146	139	57	70
18	49	257	676	185	190	895	339	546	176	109	48	50
19	48	241	662	180	180	729	382	421	183	94	43	59
20	48	215	798	180	170	737	524	366	148	84	41	55
21	49	206	630	170	160	640	420	295	129	76	38	52
22	69	189	1110	170	170	547	370	266	118	73	36	50
23	102	179	1070	175	400	541	374	238	107	68	35	47
24	97	179	847	180	1700	511	350	217	103	61	33	47
25	80	175	740	190	2630	463	350	198	95	58	45	46
26	83	171	620	180	1740	407	354	183	90	66	51	44
27	97	162	603	175	1470	396	331	183	87	83	49	2560
28	93	158	632	170	1130	449	306	332	92	91	45	3220
29	90	1170	882	165	---	532	292	274	157	68	40	1270
30	93	1150	924	160	---	505	262	278	186	58	41	869
31	87	---	729	160	---	521	---	229	---	90	61	---
TOTAL	2164	7160	24110	9302	13045	25574	15399	7220	5323	2978	1681	10129
MEAN	69.8	239	778	300	466	825	513	233	177	96.1	54.2	338
MAX	102	1170	1110	808	2630	2150	851	546	439	167	153	3220
MIN	48	79	526	160	145	396	262	135	87	58	33	44
CFSM	.21	.72	2.34	.90	1.40	2.48	1.55	.70	.53	.29	.16	1.02
IN.	0.24	0.80	2.70	1.04	1.46	2.87	1.73	0.81	0.60	0.33	0.19	1.13

CAL YR 1984 TOTAL 221254 MEAN 605 MAX 7390 MIN 48 CFSM 1.82 IN. 24.79
WTR YR 1985 TOTAL 124085 MEAN 340 MAX 3220 MIN 33 CFSM 1.02 IN. 13.90

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 upstream from Cold Spring Creek, 1.4 mi downstream from Cannonsville Dam, and 2.0 mi northeast of Deposit. Water-quality sampling site at discharge station.

DRAINAGE AREA.--456 mi^2.

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 above National Geodetic Vertical Datum of 1929 (levels by Board of Water Supply, City of New York). Prior to Oct. 1, 1964, at site 600 ft downstream at datum 1.37 ft higher.

REMARKS.--No estimated daily discharges. Records good except those for periods below 700 ft^3/s, which are poor. Subsequent to October 1963, entire flow from 454 mi^2 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 ft^3/s Jan. 22, 1959, gage height, 9.01 ft, site and datum then in use; maximum gage height, 12.19 ft Mar. 14, 1977; minimum daily, 7.2 ft^3/s Feb. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,810 ft^3/s Nov. 1, gage height, 8.92 ft; minimum daily, 11 ft^3/s Mar. 29-30, April 7, 9-14; minimum gage height, 2.91 ft April 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	609	51	44	200	19	13	28	32	34	61	35
2	1010	765	48	43	266	13	12	29	29	28	45	27
3	719	955	48	42	218	13	12	28	29	433	45	28
4	592	792	48	42	234	13	12	27	28	250	45	27
5	1370	618	47	42	227	14	12	27	28	620	128	91
6	1350	901	48	42	351	13	12	28	28	681	133	180
7	1060	903	47	42	377	13	11	27	28	321	135	139
8	1100	910	46	42	592	14	12	27	28	304	135	111
9	1040	744	47	41	574	14	11	27	28	321	163	101
10	831	681	48	41	648	13	11	27	27	198	136	34
11	838	724	49	89	552	13	11	27	27	460	134	27
12	1070	463	50	69	468	23	11	27	29	684	135	27
13	1070	436	52	42	361	20	11	27	28	361	115	28
14	1260	206	53	41	245	18	11	27	28	306	39	76
15	1110	213	54	41	20	16	13	27	28	308	40	33
16	1070	323	55	41	12	18	29	51	28	246	45	27
17	1050	335	55	41	12	15	29	41	28	148	31	27
18	891	347	56	41	12	14	28	44	29	146	28	28
19	1050	251	57	42	12	14	29	31	28	119	42	42
20	1000	550	59	41	34	14	29	29	28	290	45	123
21	816	404	59	41	164	14	29	27	271	207	44	112
22	710	420	64	90	60	13	28	27	426	162	126	100
23	258	417	64	200	15	13	27	27	179	139	322	75
24	184	483	62	509	16	14	27	27	163	60	286	34
25	376	552	62	414	17	13	27	29	80	47	71	71
26	300	550	61	301	15	13	27	40	67	130	31	70
27	287	432	62	219	14	13	27	38	267	147	30	72
28	107	333	64	111	14	13	27	29	612	147	37	52
29	122	209	69	128	---	11	27	27	328	145	40	36
30	561	72	74	143	---	11	27	28	64	151	82	33
31	156	---	65	188	---	12	---	28	---	147	113	---
TOTAL	23465	15598	1724	3253	5730	444	592	933	3023	7740	2862	1866
MEAN	757	520	55.6	105	205	14.3	19.7	30.1	101	250	92.3	62.2
MAX	1370	955	74	509	648	23	29	51	612	684	322	180
MIN	107	72	46	41	12	11	11	27	27	28	28	27

CAL YR 1984 TOTAL 249337 MEAN 681 MAX 6780 MIN 12
WTR YR 1985 TOTAL 67230 MEAN 184 MAX 1370 MIN 11

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.
CHEMICAL DATA: 1959-60 (a) unpublished, 1969 (a), 1970 (a) unpublished, 1971, 1973 (b), 1974 (d), 1975 (b).
MINOR ELEMENTS DATA: 1971 (b).
NUTRIENT DATA: 1970 (a) unpublished, 1971, 1973 (b), 1974 (d), 1975 (b).
BIOLOGICAL DATA:
Bacteria--1973 (b), 1974 (d), 1975 (b).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1962 to current year.

INSTRUMENTATION.--Water-temperature digital recorder since October 1962, provides one-hour-interval punches. Prior to October 1962, water-temperature recorder provided continuous recordings.

REMARKS.--Water temperature is affected by release of water from upstream reservoir. Interruption of record was due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1963-78, 1980-82, 1984-85), 30.5°C July 2, 1963; minimum, 0.0°C on many days during winter periods, except 1969 and 1973.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 19.5°C May 24, June 10, Aug. 17; minimum, 0.0°C on several days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

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

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	.5	2.0	6.0	.5	3.0	7.5	3.0	5.0	13.5	7.0	10.0
2	2.5	2.0	2.5	6.5	2.5	4.5	6.5	3.5	4.5	11.0	7.5	9.0
3	2.5	1.5	2.0	5.5	.5	2.5	3.5	2.0	3.0	12.5	6.5	9.0
4	2.5	1.0	1.5	1.0	.5	.5	11.0	2.5	6.5	15.0	4.5	9.5
5	2.0	2.0	2.0	2.5	.5	1.0	16.0	6.0	10.5	11.5	7.5	9.5
6	2.5	2.0	2.5	4.0	.5	1.5	13.5	7.5	11.0	9.5	8.0	9.0
7	2.5	2.0	2.5	3.5	.5	1.5	10.0	4.5	8.0	12.5	7.5	9.5
8	2.0	2.0	2.0	5.5	1.5	3.0	8.5	4.0	6.0	14.5	6.0	9.5
9	2.0	2.0	2.0	8.5	1.0	4.0	7.5	2.0	4.5	16.5	4.5	10.0
10	2.5	2.0	2.5	9.5	1.5	5.0	11.5	1.0	6.0	18.5	8.0	12.5
11	3.0	2.5	2.5	12.0	1.5	4.5	9.5	5.0	7.0	18.0	8.0	12.5
12	3.0	2.5	2.5	5.5	3.5	5.0	14.5	3.5	9.0	17.0	9.0	12.0
13	3.0	2.5	2.5	6.0	2.5	4.0	13.0	7.0	9.5	18.0	9.5	13.5
14	3.0	1.0	2.5	5.5	3.5	4.0	9.5	6.5	8.0	18.0	8.0	12.5
15	---	---	---	4.5	.0	3.0	13.0	8.0	10.0	18.5	9.0	13.0
16	---	---	---	8.0	.0	3.5	14.0	7.5	10.5	11.5	8.0	9.5
17	---	---	---	5.0	2.0	3.5	12.5	3.0	7.5	14.0	8.0	10.5
18	---	---	---	5.5	.5	2.5	15.0	5.0	9.0	15.0	7.5	10.5
19	---	---	---	6.0	.5	3.5	10.0	7.5	9.0	12.5	7.0	9.5
20	---	---	---	8.0	2.5	5.0	13.0	7.5	10.0	19.0	7.0	12.0
21	---	---	---	8.5	.5	4.0	16.0	7.5	11.5	12.5	9.0	10.5
22	---	---	---	10.0	1.0	5.0	17.5	8.0	12.0	17.5	6.5	12.0
23	---	---	---	8.0	4.0	6.0	16.0	8.0	11.5	16.5	8.0	12.0
24	---	---	---	6.0	4.5	5.0	11.5	7.5	9.5	19.5	7.5	13.0
25	---	---	---	9.5	2.0	5.0	8.5	7.0	8.0	17.5	8.0	13.0
26	---	---	---	10.0	1.0	5.5	14.5	6.5	9.5	13.5	8.0	10.5
27	4.5	.0	3.0	13.0	2.0	7.5	15.5	6.5	10.5	16.5	8.5	12.0
28	4.5	.0	2.0	11.5	7.5	9.5	8.5	6.0	7.5	11.5	10.0	10.5
29	---	---	---	15.5	9.0	12.0	15.5	5.0	9.5	19.0	7.5	12.5
30	---	---	---	12.0	7.5	9.5	17.0	5.5	11.0	17.5	8.5	12.5
31	---	---	---	7.0	3.5	5.5	---	---	---	14.5	9.0	12.0
MONTH	4.5	.0	2.5	15.5	.0	4.5	17.5	1.0	8.5	19.5	4.5	11.0

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

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 upstream from confluence of East and West Branches near Hancock. Water-quality sampling site at discharge station.

DRAINAGE AREA.--595 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1912 to current year.

REVISED RECORDS.--WSP 871: 1916. WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 946.46 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 8, 1928, nonrecording gage.

REMARKS.--Estimated daily discharges: Jan. 3 to Feb. 21 and Feb. 28 to Mar. 7. Records good except those for estimated daily discharges, which are poor. Subsequent to October 1963, entire flow from 454 mi^2 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. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,900 ft^3/s Mar. 22, 1948, gage height, 15.69 ft; maximum gage height, 15.8 ft Sept. 30, 1924, from graph based on gage readings; minimum discharge, 17 ft^3/s Oct. 20, 1963; minimum gage height, 1.03 ft Aug. 4, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 10, 1903, reached a stage of 20.3 ft, from floodmarks, discharge, about 46,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,820 ft^3/s Sept. 27, gage height, 8.50 ft; minimum, 35 ft^3/s Sept. 17, 18, 25, gage height, 1.19 ft; minimum daily, 37 ft^3/s Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	361	613	469	270	280	309	111	339	66	158	77
2	755	864	529	422	320	250	332	106	214	57	83	42
3	835	872	478	330	270	210	301	104	174	343	66	39
4	513	811	478	260	270	230	296	95	146	396	60	38
5	1170	667	362	190	280	400	291	90	129	544	124	41
6	1290	864	339	160	400	230	276	104	121	720	144	240
7	1010	892	285	130	500	210	254	112	109	470	148	151
8	996	888	269	110	700	217	247	93	96	349	154	128
9	972	761	222	105	800	246	235	85	89	344	178	143
10	841	722	211	98	700	238	202	80	82	299	149	122
11	763	688	276	150	600	243	192	77	73	365	146	68
12	970	642	306	130	520	1180	175	75	85	915	145	52
13	1020	498	463	110	450	1040	159	85	86	659	126	46
14	1170	313	542	100	350	749	152	79	81	406	71	76
15	1120	223	491	90	100	559	146	72	75	391	42	62
16	973	373	432	92	80	429	147	78	73	405	57	39
17	1000	421	400	94	70	371	136	107	78	212	51	38
18	904	403	365	96	60	305	126	381	89	191	38	37
19	948	345	365	100	60	249	146	241	85	153	39	40
20	971	488	416	110	70	240	226	188	70	279	49	114
21	814	483	338	120	110	208	178	154	252	267	48	119
22	694	458	581	150	186	179	162	134	481	198	61	106
23	384	451	569	300	344	173	153	115	293	162	320	84
24	155	493	440	600	816	170	151	102	198	89	321	55
25	348	591	386	500	1060	162	148	90	124	59	121	56
26	363	527	311	400	669	138	164	90	81	121	60	72
27	310	492	299	300	504	131	145	104	149	157	49	3610
28	176	377	346	200	340	141	134	203	672	148	48	1940
29	95	1130	516	180	---	146	127	183	435	142	50	673
30	519	649	615	190	---	139	117	133	112	149	87	405
31	259	---	494	250	---	155	---	111	---	194	135	---
TOTAL	22431	17747	12737	6536	10899	9618	5827	3782	5091	9250	3328	8713
MEAN	724	592	411	211	389	310	194	122	170	298	107	290
MAX	1290	1130	615	600	1060	1180	332	381	672	915	321	3610
MIN	93	223	211	90	60	131	117	72	70	57	38	37

CAL YR 1984 TOTAL 333210 MEAN 910 MAX 8290 MIN 93
WTR YR 1985 TOTAL 115959 MEAN 318 MAX 3610 MIN 37

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1968 to current year.
CHEMICAL DATA: 1958-59 (d), 1970 (b), 1971-74 (d), 1975 (c).
MINOR ELEMENTS DATA: 1971-74 (a).
ORGANIC DATA: OC--1974 (a), 1975 (c).
NUTRIENT DATA: 1971-74 (d), 1975 (c).
BIOLOGICAL DATA:
Bacteria--1971, 1973 (c); 1974 (d); 1975 (c).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1967 to current year (no winter record for water years 1969-77).

INSTRUMENTATION.--Water-temperature digital recorder since April 1977, provides one-hour-interval punches. Prior to October 1976, water-temperature recorder provided continuous recordings.

REMARKS.--Water temperature is affected by release of water from upstream reservoir. Interruption of record was due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1968-77, 1979-83, 1985), 30.5°C July 22, 23, 1972; June 16, 1981; minimum (water years 1968, 1978-85), 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 28.0°C Aug. 15; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.5	10.0	11.0	13.5	9.0	10.5	5.0	3.5	4.5	4.5	3.0	3.5
2	10.0	9.0	9.5	13.5	10.5	12.5	5.0	3.5	4.5	4.5	3.0	4.0
3	11.5	8.5	9.5	13.5	10.5	12.0	3.5	2.5	2.5	2.5	.5	1.5
4	12.5	8.5	10.0	13.0	11.5	12.0	3.0	2.0	2.5	.5	.0	.0
5	11.0	8.5	9.5	13.5	12.0	13.0	3.0	1.0	2.0	1.0	.0	.5
6	12.0	8.5	9.5	12.5	11.5	12.0	.5	.0	.5	.0	.0	.0
7	12.0	8.5	10.0	12.5	10.5	11.5	.5	.0	.0	1.5	.0	1.0
8	11.0	10.0	10.5	12.5	10.0	11.0	.0	.0	.0	1.5	.0	.5
9	12.0	10.0	11.0	11.5	11.0	11.0	2.5	.0	1.0	.0	.0	.0
10	13.0	10.5	11.5	12.5	11.0	11.5	3.5	1.5	2.5	.0	.0	.0
11	13.5	10.0	11.0	11.5	10.5	11.0	4.5	3.5	4.0	.0	.0	.0
12	13.5	10.0	11.0	11.5	8.0	10.0	4.5	3.5	4.0	.0	.0	.0
13	13.5	10.0	11.5	8.0	6.5	7.5	5.5	4.5	5.0	.0	.0	.0
14	14.0	10.5	11.5	8.0	5.5	6.5	5.5	3.5	4.5	.0	.0	.0
15	14.5	10.0	12.0	7.5	3.5	5.0	3.5	3.0	3.0	.0	.0	.0
16	14.5	10.0	11.5	8.5	7.0	7.5	4.5	3.5	4.0	.0	.0	.0
17	14.0	11.0	12.0	7.0	6.0	6.5	7.0	4.5	5.5	.0	.0	.0
18	13.5	12.0	12.5	8.0	5.5	7.0	6.0	4.0	5.0	.0	.0	.0
19	14.0	12.0	13.0	7.5	4.0	6.5	4.0	2.5	3.0	.0	.0	.0
20	15.0	12.0	13.5	7.0	2.0	5.0	4.5	2.5	3.5	.0	.0	.0
21	14.5	12.0	13.0	7.0	5.5	6.0	2.5	.0	1.0	.0	.0	.0
22	14.0	13.0	13.5	7.5	5.5	6.5	3.5	.0	2.0	.0	.0	.0
23	13.0	12.5	13.0	7.5	5.0	6.0	3.0	1.5	2.0	.0	.0	.0
24	13.0	11.5	12.0	8.0	6.0	7.0	2.5	.5	1.5	.0	.0	.0
25	14.5	10.5	12.5	8.0	5.5	7.0	3.0	.0	1.5	.0	.0	.0
26	13.5	12.5	13.0	7.5	5.0	6.0	.0	.0	.0	.0	.0	.0
27	16.0	13.0	14.5	7.5	5.0	6.0	.0	.0	.0	.0	.0	.0
28	19.5	14.0	16.5	9.5	6.5	8.0	2.5	.0	.5	.0	.0	.0
29	17.0	13.0	16.0	9.5	3.5	5.5	8.5	3.0	6.0	.0	.0	.0
30	14.5	10.5	12.5	4.5	3.0	4.0	8.5	3.5	6.0	.0	.0	.0
31	14.0	10.5	12.5	---	---	---	3.0	2.0	2.5	.0	.0	.0
MONTH	19.5	8.5	12.0	13.5	2.0	8.5	8.5	.0	2.5	4.5	.0	.5

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	4.5	.0	2.0	6.5	2.5	4.5	19.5	13.0	16.0
2	.0	.0	.0	6.0	3.0	4.0	5.5	3.5	4.5	14.0	11.5	13.0
3	.5	.0	.0	5.0	.5	2.5	3.5	2.5	2.5	16.0	10.5	12.5
4	.0	.0	.0	1.5	.0	.5	9.0	2.0	6.0	18.0	7.5	13.0
5	.0	.0	.0	.0	.0	.0	13.0	6.0	9.5	16.0	12.0	14.5
6	.5	.0	.0	1.0	.0	.0	13.5	8.0	11.0	14.5	13.0	14.0
7	1.0	.0	.5	1.5	.0	.5	10.5	6.0	8.0	17.5	11.5	14.0
8	.5	.0	.0	2.5	.0	1.0	7.5	4.0	6.0	18.0	9.5	13.5
9	1.0	.0	.5	6.5	.0	3.0	6.5	2.5	4.0	20.0	8.0	13.5
10	3.5	1.0	2.0	7.5	1.5	4.0	9.0	.5	4.5	23.5	12.5	18.0
11	4.5	1.5	2.5	4.5	2.0	3.5	8.5	4.5	6.5	25.5	15.0	20.0
12	3.5	2.0	2.5	4.5	3.0	3.5	13.0	4.0	8.5	24.5	17.0	20.0
13	3.0	2.0	2.5	5.0	2.0	3.5	12.5	7.5	9.5	26.5	18.0	22.0
14	3.0	1.0	2.0	4.5	3.0	3.5	9.0	6.5	8.0	26.0	16.5	21.0
15	1.5	.0	.5	4.0	1.5	3.0	12.0	8.0	10.0	24.5	16.5	20.0
16	1.5	.0	.5	5.5	.0	2.5	16.5	10.5	13.0	18.0	16.0	16.5
17	2.0	.0	.5	4.5	2.5	3.5	13.5	6.0	9.5	19.5	15.0	17.0
18	5.0	.0	1.5	4.5	.0	2.0	15.5	7.0	11.0	17.0	13.0	15.5
19	5.5	.0	2.0	4.5	.0	2.0	14.0	11.0	13.0	15.5	11.5	13.5
20	4.0	.0	1.0	6.5	2.0	4.0	16.0	11.0	13.5	20.5	11.0	15.5
21	2.0	.0	1.0	7.0	.5	3.5	20.0	12.5	16.0	---	---	---
22	4.5	2.0	3.0	8.5	.0	4.0	21.5	14.0	17.5	---	---	---
23	5.0	1.5	3.5	7.0	3.5	5.5	21.5	15.0	17.5	20.5	14.0	17.5
24	4.5	.5	2.5	6.0	4.0	5.0	15.0	12.0	13.0	23.5	14.5	18.5
25	3.5	2.0	2.5	8.5	1.5	4.5	12.0	10.5	11.5	24.0	15.5	20.0
26	3.5	1.0	2.5	9.5	1.0	5.0	17.5	10.0	13.0	22.5	17.0	19.5
27	3.5	.0	2.5	12.0	2.5	7.0	19.0	11.0	14.5	23.5	17.0	20.0
28	4.0	.0	1.5	12.0	8.5	10.5	13.0	9.5	11.5	20.0	14.5	17.5
29	---	---	---	16.0	9.5	12.5	18.0	7.5	12.5	20.5	12.5	16.5
30	---	---	---	13.0	8.5	10.5	21.0	10.0	15.5	20.5	15.0	17.5
31	---	---	---	8.5	3.5	6.0	---	---	---	19.0	15.5	17.5
MONTH	5.5	.0	1.5	16.0	.0	4.0	21.5	.5	10.0	26.5	7.5	17.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.5	15.0	16.0	25.0	17.5	21.0	22.5	13.5	17.5	20.0	12.5	15.5
2	21.5	13.5	17.0	25.0	19.0	21.5	24.0	16.5	20.0	22.0	16.0	18.5
3	19.0	16.5	18.0	21.0	9.5	16.5	25.0	16.5	20.5	24.0	16.5	20.0
4	22.5	14.0	18.0	18.0	8.0	12.5	27.0	18.0	22.0	25.5	19.0	22.0
5	18.5	14.0	15.5	15.5	9.5	13.0	21.5	17.0	19.0	25.5	21.0	23.0
6	20.5	13.0	16.0	12.0	7.5	9.5	20.0	16.0	17.5	23.0	12.0	16.5
7	22.0	14.0	17.5	13.0	8.0	10.5	17.5	16.5	17.0	19.0	16.5	17.5
8	21.5	16.5	18.5	14.0	8.5	11.0	20.0	15.5	17.0	18.0	17.0	17.5
9	20.5	16.0	18.0	14.0	9.0	11.5	19.0	17.0	18.0	17.5	16.0	16.5
10	25.0	16.5	20.5	14.0	9.0	11.5	18.5	16.0	17.5	20.5	15.5	17.5
11	23.0	16.0	20.0	16.5	9.5	13.0	16.5	14.0	15.5	21.5	16.0	18.5
12	20.0	15.0	17.5	12.0	7.0	8.5	19.5	13.0	16.0	17.5	13.5	15.0
13	15.0	13.0	14.0	17.0	9.5	12.5	21.0	15.0	18.0	15.5	10.0	13.0
14	16.0	11.5	14.0	14.5	10.0	12.5	24.0	18.0	20.5	17.0	10.5	13.5
15	22.5	12.5	17.0	13.5	10.0	11.5	28.0	20.0	23.5	18.5	11.0	14.0
16	21.5	16.5	19.0	17.5	10.5	13.5	24.0	20.0	22.5	20.5	12.0	15.5
17	23.0	17.5	20.0	21.5	13.0	17.0	26.0	17.5	21.5	21.0	13.5	17.0
18	26.0	19.0	22.0	22.5	14.0	17.5	25.0	18.0	21.5	22.5	15.0	18.0
19	23.5	18.5	21.0	24.0	14.0	18.5	23.0	19.0	21.0	23.5	16.0	19.5
20	22.0	16.5	19.5	20.5	16.0	17.5	24.0	19.5	21.5	20.5	16.5	18.5
21	19.0	14.0	17.5	17.5	10.5	13.5	22.5	17.5	20.0	19.5	15.0	17.0
22	15.0	7.5	11.5	20.5	12.5	15.5	21.0	17.0	19.0	16.5	15.5	16.0
23	21.5	9.0	14.5	18.5	12.0	15.0	16.5	10.0	13.0	19.0	15.0	16.5
24	20.5	13.5	16.5	23.5	13.0	18.0	13.5	9.0	11.5	18.5	14.5	17.0
25	20.0	10.5	15.0	25.5	17.0	21.0	15.0	12.5	13.5	19.0	13.5	16.0
26	19.0	14.0	16.0	23.0	17.0	20.5	22.5	15.0	18.5	16.5	13.0	15.0
27	20.5	12.0	17.0	21.0	15.5	18.0	24.0	19.0	21.0	15.0	14.5	15.0
28	10.0	7.0	8.0	21.0	15.0	18.0	24.5	18.0	21.0	15.0	13.5	14.0
29	12.0	7.5	9.5	21.0	15.5	18.0	22.5	19.5	21.0	15.5	12.0	13.5
30	22.0	11.5	16.5	20.5	16.0	18.0	20.0	16.0	18.0	17.0	12.5	14.5
31	---	---	---	18.0	13.0	15.0	16.0	13.0	14.5	---	---	---
MONTH	26.0	7.0	16.5	25.5	7.0	15.0	28.0	9.0	18.5	25.5	10.0	16.5

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 downstream from Humphries Brook, and 6.5 mi southeast of Hancock.

DRAINAGE AREA.--1,590 mi².

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1967 to August 1971, June 1973 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

INSTRUMENTATION.--Water-temperature digital recorder since June 1973, provides one-hour interval punches. Prior to August 1971, water-temperature recorder provided continuous recordings.

REMARKS.--Interruption of record was due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1968-70, 1973, 1975-85) 30.5°C June 16, 1976, July 10, 1981; minimum (water years 1968-71, 1974, 1977-78, 1980-85), 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 29.5°C Aug. 15; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	12.5	12.0	12.0	11.5	10.0	10.5	4.5	4.0	4.0	4.0	3.0	3.0
2	12.5	10.5	11.5	12.5	9.5	11.0	4.5	3.5	4.0	4.0	3.5	4.0
3	10.5	8.5	9.5	9.0	7.0	8.0	3.5	2.5	3.0	3.0	1.0	2.0
4	12.5	9.5	10.5	9.5	8.0	8.5	2.5	2.0	2.0	1.0	.0	.5
5	11.5	10.0	10.5	11.0	9.5	10.0	2.0	1.5	1.5	.5	.0	.0
6	10.0	8.0	9.5	10.5	9.0	10.0	1.0	.0	.5	.0	.0	.0
7	10.5	9.0	9.5	9.0	7.5	8.0	.5	.0	.0	.5	.0	.0
8	12.0	10.5	11.0	7.5	6.0	7.0	.0	.0	.0	.5	.0	.0
9	13.5	11.5	12.5	8.0	7.0	7.5	.5	.0	.0	.0	.0	.0
10	14.0	12.5	13.0	9.5	8.0	8.5	1.0	.0	.5	.0	.0	.0
11	15.0	13.0	13.5	10.0	9.5	9.5	2.5	1.0	2.0	.0	.0	.0
12	14.5	12.5	13.5	9.5	7.5	9.0	3.5	2.5	3.0	.0	.0	.0
13	13.5	12.5	13.0	7.5	4.0	5.5	5.0	3.5	4.0	.0	.0	.0
14	13.0	12.0	12.5	3.5	2.5	3.5	5.0	4.0	4.5	.0	.0	.0
15	12.5	11.0	12.0	4.0	2.5	3.0	3.5	3.0	3.5	.0	.0	.0
16	13.5	11.0	12.0	5.0	3.5	4.0	4.0	3.5	3.5	.0	.0	.0
17	13.0	12.0	12.5	4.5	3.5	4.0	5.5	4.0	4.5	.0	.0	.0
18	14.0	13.0	13.5	4.0	3.0	3.5	5.5	4.5	5.0	.0	.0	.0
19	14.0	13.0	13.5	4.5	3.0	4.0	4.5	3.0	3.5	.0	.0	.0
20	15.0	13.5	14.5	3.0	1.5	2.0	3.0	2.5	3.0	.0	.0	.0
21	13.5	12.5	13.0	2.5	1.0	1.5	2.5	.0	1.5	.0	.0	.0
22	14.5	13.0	14.0	3.0	2.0	2.5	2.5	.0	1.5	.0	.0	.0
23	14.5	13.0	13.5	3.0	2.0	2.5	2.5	1.5	2.0	.0	.0	.0
24	13.0	12.0	12.5	4.0	2.5	3.0	2.0	.5	1.5	.0	.0	.0
25	13.5	11.5	12.0	5.0	3.5	4.5	2.0	.5	1.5	.0	.0	.0
26	13.0	12.0	12.5	5.0	4.0	4.5	.0	.0	.0	.0	.0	.0
27	15.0	13.0	13.5	5.0	3.5	4.0	.0	.0	.0	.0	.0	.0
28	17.0	15.0	15.5	8.0	4.5	6.0	.5	.0	.0	.0	.0	.0
29	16.5	14.5	16.0	8.5	5.0	6.5	6.0	.5	3.0	.0	.0	.0
30	14.5	12.5	13.5	5.0	4.0	4.5	6.5	4.5	6.0	.0	.0	.0
31	13.0	11.5	12.0	---	---	---	4.5	3.0	3.0	.0	.0	.0
MONTH	17.0	8.0	12.5	12.5	1.0	6.0	6.5	.0	2.5	4.0	.0	.5

DELAWARE RIVER BASIN

01427207 DELAWARE RIVER AT LORDVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	3.0	.0	1.5	5.5	4.5	5.0	17.5	15.0	16.5
2	.0	.0	.0	4.5	2.5	3.5	5.0	4.0	4.5	16.0	13.0	14.5
3	.0	.0	.0	3.5	1.5	2.5	4.0	2.5	3.0	14.0	12.0	13.0
4	.0	.0	.0	2.5	.0	.5	6.0	2.5	4.0	15.0	11.0	13.0
5	.0	.0	.0	.0	.0	.0	10.5	6.0	8.0	15.0	13.5	14.5
6	.0	.0	.0	.5	.0	.0	12.0	10.0	11.0	15.0	14.5	14.5
7	.0	.0	.0	.5	.0	.0	10.0	8.0	8.5	15.5	13.5	14.5
8	.0	.0	.0	2.0	.0	1.0	7.5	6.0	7.0	15.5	12.0	13.5
9	.0	.0	.0	3.5	.5	2.0	6.0	4.0	5.0	16.5	11.5	13.5
10	.0	.0	.0	5.0	2.0	3.0	6.0	2.5	4.5	20.0	14.0	16.5
11	.0	.0	.0	4.0	3.0	3.5	6.5	5.0	5.5	22.0	17.5	19.5
12	.0	.0	.0	4.0	2.5	3.5	9.5	5.0	7.0	23.0	19.5	21.0
13	.0	.0	.0	3.5	2.0	3.0	11.0	8.0	9.0	24.0	20.0	22.0
14	.0	.0	.0	3.5	3.0	3.5	9.5	8.0	8.5	24.0	20.5	22.0
15	.0	.0	.0	3.5	2.0	3.0	10.0	8.0	9.0	23.0	19.5	21.0
16	.0	.0	.0	3.5	.5	2.0	13.0	10.0	11.5	20.0	17.5	18.5
17	.0	.0	.0	4.0	2.5	3.0	11.5	8.0	10.0	19.5	17.0	18.0
18	.0	.0	.0	3.0	.5	2.0	13.0	8.5	10.5	18.5	16.0	17.5
19	.0	.0	.0	2.5	.0	1.5	13.0	11.5	12.0	16.5	13.5	15.0
20	.0	.0	.0	5.0	2.0	3.5	15.5	12.0	14.0	18.0	13.0	15.0
21	.0	.0	.0	4.5	1.5	3.0	17.5	14.0	15.5	18.0	16.5	17.5
22	.0	.0	.0	5.0	1.5	3.5	19.5	15.5	17.5	19.5	15.0	17.0
23	.0	.0	.0	5.5	4.0	5.0	20.0	17.0	18.5	19.0	16.5	18.0
24	.0	.0	.0	5.5	5.0	5.5	17.5	13.5	15.5	21.0	16.5	18.5
25	1.5	.0	.5	6.0	3.0	4.5	13.5	12.5	12.5	22.0	18.0	20.0
26	---	---	---	6.0	2.0	4.0	15.0	11.0	13.0	21.5	19.0	20.5
27	---	---	---	8.5	3.5	5.5	16.5	13.0	14.5	23.0	20.0	21.0
28	1.5	.0	.5	10.0	8.0	8.5	14.5	12.0	13.0	22.0	18.5	20.5
29	---	---	---	13.0	9.5	11.0	15.0	10.0	12.5	20.0	16.0	18.0
30	---	---	---	12.0	10.0	11.0	17.5	12.0	14.5	19.5	17.0	18.5
31	---	---	---	10.0	5.5	8.0	---	---	---	19.0	17.5	18.5
MONTH	1.5	.0	.0	13.0	.0	3.5	20.0	2.5	10.0	24.0	11.0	17.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20.0	17.5	18.5	24.5	20.5	22.0	22.5	19.5	21.0	21.0	18.0	19.0
2	20.5	16.5	18.5	25.0	21.5	23.0	23.0	19.0	21.0	22.5	19.0	20.0
3	20.0	19.0	19.5	25.0	22.0	23.5	25.0	20.0	22.0	24.5	20.0	21.5
4	21.5	17.0	19.0	24.5	22.0	23.0	25.5	21.0	23.0	26.0	21.0	23.0
5	20.5	16.5	18.5	25.0	21.0	23.0	26.5	21.5	23.5	26.5	23.5	24.5
6	19.0	16.0	17.0	24.0	19.5	21.0	27.0	22.5	24.0	27.0	24.0	25.0
7	20.5	16.0	18.5	20.0	17.0	18.5	24.5	22.5	23.5	27.5	24.5	25.5
8	20.5	18.5	19.5	21.0	18.5	19.5	26.0	22.5	24.0	26.0	25.0	25.5
9	20.5	18.5	19.5	22.0	19.0	20.0	28.0	23.0	25.0	24.5	22.5	23.5
10	23.5	19.0	21.0	22.5	20.5	21.0	27.0	24.0	25.5	22.5	21.0	22.0
11	23.5	19.5	21.5	24.0	20.0	21.5	25.5	23.5	24.5	21.5	18.5	20.5
12	21.5	18.0	20.0	22.0	17.5	20.0	26.0	21.5	23.5	19.0	16.5	17.5
13	18.0	15.5	16.5	22.0	14.5	18.0	26.5	22.0	24.0	16.5	13.5	15.0
14	16.0	14.5	15.5	22.0	20.0	21.0	28.0	23.5	25.5	18.0	13.5	15.0
15	20.5	14.5	17.0	21.0	20.0	20.5	29.5	25.0	26.5	18.0	14.0	16.0
16	21.5	18.5	19.5	23.0	19.5	21.0	27.0	24.0	25.5	20.0	15.0	17.0
17	23.0	19.0	20.5	24.5	20.0	22.0	27.0	22.0	24.0	21.0	16.0	17.5
18	24.5	21.0	22.0	25.0	21.5	23.5	25.0	22.0	23.5	21.5	17.0	19.0
19	23.5	21.0	22.0	27.0	22.5	24.5	24.0	21.5	22.5	23.5	18.0	20.0
20	22.5	20.0	21.0	27.5	24.0	25.0	25.0	22.0	23.0	24.5	19.5	21.5
21	24.0	19.0	21.5	26.0	24.0	25.0	24.5	21.0	22.5	24.5	20.5	22.0
22	23.0	20.0	21.5	25.5	22.5	24.0	23.0	21.0	22.0	22.5	20.5	21.5
23	24.0	20.0	21.5	24.0	20.5	22.5	24.0	19.5	21.5	21.5	19.5	20.5
24	24.0	21.0	22.5	25.0	20.5	22.0	22.0	19.5	20.5	21.0	19.0	20.0
25	22.5	20.0	21.0	26.0	21.0	23.0	20.0	18.5	19.0	20.0	17.0	18.5
26	20.5	18.5	19.5	24.5	23.0	24.0	24.0	18.5	21.0	18.0	16.5	17.0
27	20.0	17.5	18.5	26.5	22.0	24.0	24.5	22.0	23.0	17.5	15.0	16.0
28	18.5	15.0	17.5	26.0	22.5	24.0	25.0	21.5	23.0	15.0	14.0	14.5
29	16.0	13.5	15.0	26.5	22.5	24.5	24.0	22.0	23.0	15.5	13.0	14.0
30	21.5	16.0	18.0	27.0	23.0	24.5	22.5	20.5	21.5	16.0	13.5	14.5
31	---	---	---	24.5	21.0	23.0	20.5	18.5	19.5	---	---	---
MONTH	24.5	13.5	19.5	27.5	14.5	22.5	29.5	18.5	23.0	27.5	13.0	19.5

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 downstream from Callicoon Creek, 0.5 mi downstream from Interstate Bridge 7, and 0.8 mi southeast of Callicoon. Water-quality sampling site at discharge station.

DRAINAGE AREA.--1,820 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 734.88 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 7, 9, Jan. 5 to Feb. 25, and Feb. 27 to Mar. 1. Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from 371 mi^2 of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin), and subsequent to October 1963, entire flow from 454 mi^2 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. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,300 ft^3/s Feb. 12, 1981, result of ice jam release, gage height, 13.19 ft; maximum gage height, 14.83 ft Jan. 9, 1979 (ice jam); minimum discharge, 307 ft^3/s Aug. 23, 1985; minimum gage height, 2.20 ft Sept. 13, 1977, Aug. 23, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,500 ft^3/s Sept. 27, gage height, 10.13 ft; minimum, 307 ft^3/s Aug. 23, gage height, 2.20 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	774	728	3220	3130	900	2600	1750	847	1170	597	1130	596
2	420	1240	2960	3010	840	2240	2290	809	1560	477	1290	529
3	1190	1390	2460	2570	820	1950	2110	957	1220	411	831	420
4	865	1410	2700	2180	840	1630	2040	975	1050	677	655	385
5	868	1390	2220	2000	900	1570	2000	882	938	687	575	371
6	1520	1510	2000	1700	840	2050	1980	856	883	956	578	393
7	1360	1640	1700	1400	820	1580	1990	982	813	1290	590	628
8	1150	1540	1480	1100	820	1680	2020	912	744	1070	637	631
9	1240	1510	1400	1000	840	1780	2080	784	711	867	677	1580
10	1210	1390	1370	900	940	1740	1830	731	684	814	657	2370
11	1010	1500	1420	1100	1050	1750	1680	699	615	675	584	1540
12	1040	1550	1670	1200	1200	6390	1580	673	570	832	547	996
13	1210	1310	1800	1300	1500	9000	1440	651	586	1740	507	754
14	1230	1370	2270	1200	1700	6070	1360	632	574	1570	506	638
15	1410	1280	2410	1000	1300	4570	1370	580	536	1460	482	594
16	1120	1290	2310	900	1100	3520	1340	541	535	1740	437	585
17	1170	1440	2180	840	940	3010	1250	600	540	1500	418	508
18	1190	1440	2080	800	840	2550	1140	1220	571	1030	408	474
19	1040	1410	1980	780	800	2080	1120	2130	573	832	354	453
20	1250	1250	2380	760	780	1960	1300	1470	539	731	331	435
21	1130	1380	2230	780	780	1780	1340	1190	473	932	332	464
22	1070	1380	3080	820	800	1570	1220	1010	619	1680	323	480
23	1180	1370	4280	900	1200	1440	1160	893	852	1490	312	455
24	797	1350	3300	980	3000	1400	1140	812	672	929	519	453
25	589	1440	2850	1400	6400	1370	1140	745	609	702	677	428
26	775	1410	2320	1300	5540	1240	1170	694	497	651	624	386
27	858	1440	1940	1100	4200	1130	1130	719	424	833	571	18200
28	904	1350	1860	960	3200	1130	1040	1070	561	882	485	20500
29	688	3460	3100	900	---	1260	971	1630	1020	731	405	7200
30	541	4850	3980	860	---	1340	914	1300	883	636	383	4200
31	1090	---	3500	820	---	1320	---	989	---	643	523	---
TOTAL	31889	47018	74450	39690	44890	74700	44895	28983	22022	30065	17348	67646
MEAN	1029	1567	2402	1280	1603	2410	1497	935	734	970	560	2255
MAX	1520	4850	4280	3130	6400	9000	2290	2130	1560	1740	1290	20500
MIN	420	728	1370	760	780	1130	914	541	424	411	312	371

CAL YR 1984 TOTAL 1082294 MEAN 2957 MAX 41000 MIN 420
WTR YR 1985 TOTAL 523596 MEAN 1435 MAX 20500 MIN 312

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1975 to current year.

INSTRUMENTATION.--Water-temperature digital recorder since June 1975, provides one-hour-interval punches.

REMARKS.--Interruptions of record were due to malfunction of recording instrument, except July 3, 4, and Aug. 17-24, when probe was out of the water.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1976-84), 29.5°C Aug. 7-9, 1980; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 29.0°C Aug. 15, but may have been higher during period when probe was out of the water; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.5	12.0	12.5	11.5	11.0	11.0	5.0	4.0	4.5	3.5	3.0	3.0
2	12.0	10.5	11.5	12.0	9.0	11.0	4.5	3.5	4.0	4.0	3.5	3.5
3	---	---	---	9.5	7.5	8.5	3.5	2.5	3.0	3.0	1.5	2.5
4	12.0	9.5	11.0	9.0	7.0	8.0	2.5	1.5	2.0	1.0	.5	1.0
5	12.5	10.0	11.0	10.5	9.0	9.5	2.0	1.0	2.0	.5	.0	.0
6	11.5	9.0	10.5	10.0	9.0	10.0	1.0	.5	.5	.0	.0	.0
7	11.5	8.0	10.0	8.5	6.5	8.0	.5	.0	.0	.5	.0	.0
8	12.0	10.5	11.0	7.0	5.5	6.5	.0	.0	.0	.5	.0	.0
9	14.5	12.0	13.0	7.0	6.0	6.5	.5	.0	.0	.5	.0	.0
10	16.0	13.5	14.5	9.0	7.0	8.0	.5	.0	.5	.0	.0	.0
11	15.5	13.5	14.5	10.0	8.5	9.5	1.5	.5	1.0	.0	.0	.0
12	16.0	13.0	15.0	9.5	7.5	8.5	3.0	1.5	2.0	.0	.0	.0
13	15.5	13.0	14.0	7.0	4.5	6.0	4.5	3.0	4.0	.0	.0	.0
14	14.5	12.5	13.5	4.0	3.0	3.5	4.5	4.0	4.5	.0	.0	.0
15	13.5	11.0	12.5	4.0	2.0	3.0	4.0	3.5	3.5	.0	.0	.0
16	13.5	10.5	12.0	4.5	3.5	4.0	4.0	3.5	3.5	.5	.0	.0
17	14.0	11.5	12.5	4.0	3.0	3.5	5.5	4.0	4.5	.0	.0	.0
18	14.5	13.5	14.0	4.0	2.5	3.0	5.5	4.5	5.0	.0	.0	.0
19	15.0	13.5	14.0	3.5	2.0	3.0	4.5	3.5	4.0	.0	.0	.0
20	16.0	14.5	15.0	2.0	1.0	1.5	3.5	2.5	3.0	.0	.0	.0
21	14.5	13.0	13.5	1.5	.5	1.0	2.0	.5	1.5	.0	.0	.0
22	15.0	14.0	14.5	2.0	.5	1.5	2.0	.5	1.0	.0	.0	.0
23	14.5	13.5	14.0	2.5	1.0	1.5	2.0	1.5	2.0	.0	.0	.0
24	14.0	13.0	13.5	3.0	1.5	2.0	2.0	1.0	1.5	.0	.0	.0
25	13.5	11.5	12.5	4.0	2.0	3.0	1.5	.5	1.5	.0	.0	.0
26	13.0	12.5	13.0	4.5	3.0	3.5	.0	.0	.0	.0	.0	.0
27	15.0	13.0	14.0	4.5	3.0	3.5	.0	.0	.0	.0	.0	.0
28	17.0	14.5	15.5	7.5	4.0	5.5	.0	.0	.0	.0	.0	.0
29	16.5	15.0	16.0	8.0	5.5	6.5	4.0	.0	1.5	.0	.0	.0
30	14.5	12.5	14.0	5.5	4.5	5.0	6.0	4.0	5.0	.0	.0	.0
31	13.5	12.0	13.0	---	---	---	4.5	3.0	4.0	.0	.0	.0
MONTH	17.0	8.0	13.0	12.0	.5	5.5	6.0	.0	2.0	4.0	.0	.5

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	2.5	.0	1.0	7.0	5.5	6.0	18.5	14.5	16.5
2	.0	.0	.0	4.0	1.5	2.5	6.0	4.5	5.0	17.0	14.0	15.0
3	.0	.0	.0	4.0	1.5	2.5	4.5	3.0	4.0	15.0	12.0	13.5
4	.0	.0	.0	2.0	.0	.5	7.0	2.5	4.5	16.5	10.5	13.5
5	.0	.0	.0	2.5	.0	1.0	11.0	5.5	8.0	16.0	13.5	15.0
6	.0	.0	.0	.5	.0	.0	12.5	9.5	10.5	15.5	14.5	15.0
7	.0	.0	.0	1.0	.0	.5	11.0	8.5	10.0	16.5	13.5	15.0
8	.0	.0	.0	1.5	.0	.5	8.5	6.5	7.5	16.0	12.0	14.5
9	.0	.0	.0	4.0	.0	2.0	7.5	4.5	6.0	17.5	11.0	14.5
10	.0	.0	.0	5.0	1.5	3.0	7.5	3.0	5.5	20.0	14.0	17.0
11	.0	.0	.0	5.0	2.5	3.5	7.5	4.5	6.0	22.0	17.0	19.5
12	.0	.0	.0	4.0	3.0	3.5	10.5	5.0	7.5	22.5	19.0	21.0
13	.0	.0	.0	3.5	2.5	3.0	11.5	7.5	9.5	24.5	20.5	22.5
14	.0	.0	.0	4.5	3.5	3.5	9.5	8.5	9.0	24.5	20.0	22.5
15	.0	.0	.0	4.0	2.0	3.0	10.5	8.5	9.5	23.5	19.5	21.5
16	.0	.0	.0	4.0	1.5	2.5	14.0	9.5	11.5	20.5	18.0	19.0
17	.0	.0	.0	4.5	2.5	3.0	12.5	8.0	10.5	20.5	17.5	18.5
18	.0	.0	.0	3.5	1.0	2.5	13.5	8.5	11.0	19.5	16.0	18.0
19	.0	.0	.0	4.0	.0	2.0	14.0	11.0	13.0	17.5	15.5	16.5
20	.0	.0	.0	5.5	2.0	3.5	16.5	12.5	14.5	20.0	14.0	16.5
21	.0	.0	.0	5.5	2.0	3.5	19.0	13.5	16.0	---	---	---
22	.0	.0	.0	6.0	1.5	4.0	20.5	15.5	18.0	---	---	---
23	.0	.0	.0	6.5	4.0	5.0	21.0	17.0	19.0	---	---	---
24	.0	.0	.0	6.0	5.0	5.5	18.5	14.5	16.0	---	---	---
25	1.0	.0	.0	7.0	3.5	5.0	14.5	13.5	14.0	---	---	---
26	1.0	.0	.5	7.0	2.0	4.5	16.5	12.0	14.5	---	---	---
27	1.0	.0	.5	9.5	3.0	6.5	17.5	13.0	15.5	---	---	---
28	1.0	.0	.5	10.5	7.5	9.0	16.0	12.5	14.0	---	---	---
29	---	---	---	13.0	9.0	11.0	16.5	11.0	13.5	22.0	17.5	19.5
30	---	---	---	13.0	10.0	11.5	18.5	12.0	15.5	21.5	17.5	19.5
31	---	---	---	10.5	6.0	8.5	---	---	---	20.0	18.5	19.5
MONTH	1.0	.0	.0	13.0	.0	4.0	21.0	2.5	11.0	24.5	10.5	17.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.5	18.5	20.0	---	---	---	24.0	20.0	22.0	20.5	18.0	19.0
2	23.0	17.5	20.5	---	---	---	24.0	19.5	22.0	21.0	19.0	20.0
3	22.0	19.0	20.5	---	---	---	24.5	19.5	22.5	23.0	19.5	21.5
4	23.5	18.0	21.0	---	---	---	25.0	21.5	23.5	26.0	21.5	23.5
5	21.5	18.0	19.5	26.0	23.0	25.0	25.5	22.5	24.0	26.0	23.5	24.5
6	21.0	17.0	19.0	25.5	23.0	24.5	25.0	23.0	24.0	27.0	24.0	25.5
7	22.0	17.0	20.0	24.0	21.5	23.0	24.5	23.0	23.5	27.0	24.5	26.0
8	21.0	19.0	20.0	22.5	19.0	21.0	25.0	22.5	24.0	26.5	25.5	26.0
9	21.0	18.5	20.0	23.5	20.5	22.0	27.0	22.5	25.0	25.0	22.0	23.5
10	24.0	20.0	22.0	24.0	21.5	23.0	27.0	24.0	26.0	23.5	21.0	22.0
11	23.5	20.5	22.0	25.0	21.5	23.5	26.0	24.5	25.5	22.0	20.0	21.0
12	23.5	19.0	21.5	24.0	21.5	23.0	26.5	23.0	24.5	19.5	16.5	18.0
13	19.0	17.0	18.0	23.5	20.0	22.0	26.0	22.5	24.5	17.5	14.5	16.5
14	18.0	15.5	17.0	24.0	19.5	21.5	28.0	24.5	26.0	17.5	14.0	16.0
15	20.5	16.0	18.5	23.0	21.0	22.0	29.0	25.0	26.5	18.0	14.0	16.0
16	21.0	19.5	20.5	25.0	20.5	22.5	26.5	23.0	25.0	19.0	15.0	17.0
17	22.5	20.0	21.0	25.5	20.5	23.0	---	---	---	19.0	16.0	18.0
18	24.5	21.5	23.0	26.5	21.0	24.0	---	---	---	19.5	17.0	18.5
19	24.5	22.0	23.0	27.0	22.5	25.0	---	---	---	21.0	17.5	19.5
20	24.0	20.5	22.5	27.5	24.5	26.0	---	---	---	22.5	19.5	21.0
21	25.0	20.0	22.5	27.5	24.5	26.0	---	---	---	23.0	20.0	22.0
22	24.5	21.0	23.0	25.5	22.0	23.5	---	---	---	23.0	21.0	21.5
23	26.5	22.5	25.0	24.5	21.0	23.0	---	---	---	21.0	20.0	20.5
24	25.5	23.0	23.5	24.5	19.5	22.5	---	---	---	21.5	19.5	20.5
25	23.5	20.5	22.5	25.0	21.0	23.5	22.0	20.5	21.0	19.5	17.0	18.5
26	22.0	20.0	20.5	25.0	23.5	24.0	23.0	20.5	21.5	18.5	16.5	17.5
27	20.5	19.0	20.0	26.0	22.0	24.0	24.5	22.0	23.0	17.5	15.0	16.5
28	19.5	18.5	19.0	26.5	22.0	24.5	24.0	21.5	23.0	15.0	14.5	15.0
29	---	---	---	26.0	23.0	24.5	23.5	22.0	23.0	15.0	14.0	14.5
30	---	---	---	26.5	23.5	25.5	22.0	20.5	21.5	16.0	14.0	15.0
31	---	---	---	25.5	21.5	23.0	20.5	19.0	19.5	---	---	---
MONTH	26.5	15.5	21.0	27.5	19.0	23.5	29.0	19.0	23.5	27.0	14.0	20.0

DELAWARE RIVER BASIN

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY

LOCATION.--Lat 41°30'31", long 74°59'11", Sullivan County, Hydrologic Unit 02040101, on left bank 1.6 mi upstream from Lackawaxen River, and 4.6 mi northwest of Barryville. Water-quality sampling site at discharge station.

DRAINAGE AREA.--2,020 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 600.22 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 7-10, Jan. 7 to Feb. 26, and Feb. 28 to Mar. 1. Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from 371 mi^2 of drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin), and subsequent to October 1963, entire flow from 454 mi^2 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. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130,000 ft^3/s Aug. 19, 1955, gage height, 26.40 ft, from floodmarks in gage house, from rating curve extended above 55,000 ft^3/s on basis of slope-area measurement at gage height 23.19 ft; minimum discharge, 122 ft^3/s Sept. 5, 1953, gage height, 1.11 ft; minimum daily, 126 ft^3/s Sept. 4, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49,500 ft^3/s Sept. 27, gage height, 14.70 ft; minimum daily, 355 ft^3/s Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	1010	3580	3480	960	2900	2120	1110	1500	857	1150	650
2	597	794	3250	3380	960	2690	2770	1070	1940	663	1500	668
3	728	1610	2740	3000	900	2400	2620	1500	1630	539	1130	530
4	1280	1470	2960	2580	900	2110	2460	1640	1370	476	842	433
5	788	1530	2620	2380	1000	1860	2380	1380	1230	889	711	414
6	1350	1600	2290	2030	900	2490	2370	1250	1140	860	625	397
7	1550	1740	1900	1900	900	2100	2410	1320	1050	1250	665	470
8	1310	1670	1600	1600	900	2040	2530	1310	968	1370	721	651
9	1260	1620	1600	1300	900	2260	2660	1160	913	1030	727	838
10	1260	1530	1600	1100	1000	2220	2400	1040	859	916	758	2900
11	1180	1620	1560	1000	1200	2180	2170	972	794	845	703	2070
12	1030	1540	1870	1200	1300	6190	2040	928	730	713	628	1330
13	1210	1550	1960	1400	1500	11800	1880	888	721	1580	592	981
14	1270	1410	2360	1500	1700	7510	1790	858	724	1910	558	792
15	1410	1450	2600	1300	1900	5610	1760	808	681	1650	562	682
16	1410	1310	2510	1100	1400	4320	1690	744	721	1870	498	680
17	1200	1470	2360	940	1100	3610	1640	778	717	1830	463	605
18	1250	1550	2260	880	1000	3130	1520	1190	707	1280	452	525
19	1220	1510	2150	860	940	2610	1430	2360	725	1020	435	483
20	1150	1450	2450	860	880	2360	1540	1920	696	877	382	453
21	1250	1310	2530	860	840	2230	1710	1530	627	849	360	430
22	1190	1500	3130	900	860	1980	1550	1300	548	2070	368	480
23	1280	1470	4990	1000	1400	1820	1450	1150	899	1810	355	476
24	1090	1460	3910	1100	3500	1760	1420	1040	958	1280	365	460
25	726	1490	3300	1200	7600	1720	1450	954	832	953	651	444
26	704	1590	2730	1600	7200	1580	1430	884	711	817	772	418
27	913	1500	2320	1500	5170	1430	1420	864	564	924	653	16800
28	945	1490	2160	1300	3500	1410	1320	1310	523	1040	576	30000
29	877	2590	3190	1100	---	1490	1240	2350	1040	929	478	9780
30	654	5670	4460	1000	---	1640	1180	1930	1220	786	450	5340
31	806	---	4090	960	---	1660	---	1390	---	768	607	---
TOTAL	34098	49504	83030	46310	52310	91110	56350	38928	27738	34651	19737	81180
MEAN	1100	1650	2678	1494	1868	2939	1878	1256	925	1118	637	2706
MAX	1550	5670	4990	3480	7600	11800	2770	2360	1940	2070	1500	30000
MIN	597	794	1560	860	840	1410	1180	744	523	476	355	397

CAL YR 1984 TOTAL 1224087 MEAN 3345 MAX 47000 MIN 597
WTR YR 1985 TOTAL 614946 MEAN 1685 MAX 30000 MIN 355

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.
CHEMICAL DATA: 1971-73 (a).
NUTRIENT DATA: 1971 (a).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1967 to current year (no winter record for water years 1969-76).

INSTRUMENTATION.--Water-temperature digital recorder since October 1975, provides one-hour-interval punches. Prior to October 1975, water-temperature recorder provided continuous recordings.

REMARKS.--Interruptions of record were due to malfunctions of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1968-75, 1980-81, 1983, 1985), 32.0°C Aug. 2, 3, 1975, July 10, 1981; minimum (water years 1968, 1977-85), 0.0°C on many days during winter periods, each year except water years 1980-82.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 30.0°C July 20; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	13.5	12.5	13.0	5.0	4.5	5.0	---	---	---
2	---	---	---	13.0	9.5	12.0	4.5	4.0	4.5	---	---	---
3	---	---	---	11.0	8.5	10.0	4.0	3.5	4.0	---	---	---
4	---	---	---	9.5	8.0	8.5	3.0	2.0	2.5	---	---	---
5	---	---	---	10.0	9.0	9.5	2.0	1.5	2.0	---	---	---
6	---	---	---	10.0	9.0	9.5	1.5	.5	1.0	---	---	---
7	---	---	---	9.0	7.5	8.5	.5	.0	.0	---	---	---
8	---	---	---	8.0	6.0	7.0	.5	.0	.0	---	---	---
9	---	---	---	7.5	6.0	6.5	1.0	.0	.5	---	---	---
10	---	---	---	8.5	7.0	7.5	.5	.0	.0	.5	.0	.0
11	---	---	---	9.0	8.0	8.5	1.0	.0	.5	.0	.0	.0
12	---	---	---	9.0	8.0	8.5	1.5	1.0	1.0	.0	.0	.0
13	---	---	---	8.0	5.0	7.0	3.5	1.5	2.5	.0	.0	.0
14	---	---	---	5.5	4.0	5.0	4.0	3.5	3.5	.0	.0	.0
15	---	---	---	4.0	3.0	4.0	4.0	4.0	4.0	.0	.0	.0
16	---	---	---	5.0	3.5	4.0	4.0	4.0	4.0	.0	.0	.0
17	---	---	---	4.5	3.0	3.5	5.0	4.0	4.5	.0	.0	.0
18	---	---	---	3.5	3.0	3.0	5.0	4.5	5.0	.0	.0	.0
19	---	---	---	3.5	2.5	3.0	4.5	4.0	4.5	.0	.0	.0
20	---	---	---	2.0	1.0	1.5	4.0	3.0	3.5	.0	.0	.0
21	---	---	---	2.0	.5	1.0	3.0	1.5	2.5	.0	.0	.0
22	---	---	---	2.5	1.0	1.5	1.5	1.5	1.5	.0	.0	.0
23	---	---	---	2.0	.5	1.0	1.5	1.5	1.5	.0	.0	.0
24	---	---	---	2.5	1.0	1.5	1.5	1.0	1.5	.0	.0	.0
25	---	---	---	3.5	1.5	2.5	1.5	1.0	1.5	.0	.0	.0
26	14.0	14.0	14.0	4.0	2.0	3.0	1.0	.0	.5	.0	.0	.0
27	15.5	14.0	14.5	4.5	2.5	3.5	.0	.0	.0	.0	.0	.0
28	17.5	15.0	16.0	6.5	3.5	5.0	.0	.0	.0	.0	.0	.0
29	16.5	15.5	16.5	6.5	5.5	6.0	---	---	---	.0	.0	.0
30	15.5	14.0	15.0	6.0	5.0	5.5	---	---	---	.0	.0	.0
31	15.5	13.5	14.5	---	---	---	---	---	---	.0	.0	.0
MONTH	17.5	13.5	15.0	13.5	.5	5.5	5.0	.0	2.0	.5	.0	.0

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	1.5	.0	1.0	8.5	6.5	7.5	---	---	---
2	.0	.0	.0	3.5	1.5	2.5	6.5	5.5	6.0	---	---	---
3	.0	.0	.0	3.5	2.0	2.5	5.0	4.0	5.0	---	---	---
4	.0	.0	.0	2.0	.5	1.0	6.0	3.5	4.5	---	---	---
5	.0	.0	.0	3.0	.5	1.5	9.5	5.5	7.5	---	---	---
6	.0	.0	.0	1.5	.0	.5	12.0	9.0	10.5	---	---	---
7	.0	.0	.0	1.5	.0	.5	11.0	9.5	10.5	17.0	14.5	15.5
8	.0	.0	.0	2.0	.5	1.0	9.5	7.5	9.0	17.0	13.0	15.0
9	.0	.0	.0	3.0	1.0	2.0	7.5	6.0	7.0	17.5	11.5	14.5
10	.0	.0	.0	4.5	2.0	3.0	7.5	5.0	6.0	20.5	14.5	17.5
11	.0	.0	.0	4.0	3.0	3.5	7.0	5.5	6.0	22.0	17.0	19.5
12	.0	.0	.0	4.5	3.5	4.0	9.5	5.5	7.5	23.0	19.5	21.0
13	.0	.0	.0	3.5	3.5	3.5	11.5	8.0	9.5	25.5	20.5	22.5
14	.0	.0	.0	3.5	3.5	3.5	---	---	---	26.0	20.5	23.0
15	.0	.0	.0	3.5	3.5	3.5	---	---	---	23.5	20.0	22.0
16	.0	.0	.0	3.5	2.5	3.0	13.5	10.0	11.5	20.5	19.0	19.5
17	.0	.0	.0	3.5	3.0	3.0	13.0	9.5	11.0	21.0	18.5	19.5
18	.0	.0	.0	3.5	2.0	3.0	14.0	9.5	11.5	20.5	17.0	18.5
19	.0	.0	.0	3.5	1.5	2.5	13.5	11.5	13.0	17.5	16.0	17.0
20	.0	.0	.0	5.0	2.5	3.5	17.0	13.0	14.5	19.5	15.5	17.5
21	.0	.0	.0	5.5	3.0	4.0	---	---	---	21.5	17.0	19.0
22	.0	.0	.0	6.0	3.0	4.5	19.5	16.0	18.0	22.5	17.5	19.5
23	.0	.0	.0	6.0	4.0	5.0	21.5	17.0	19.0	20.5	17.5	19.0
24	.0	.0	.0	5.5	5.5	5.5	18.0	15.5	17.0	22.5	17.5	19.5
25	.0	.0	.0	7.0	4.5	5.5	15.5	14.5	15.0	24.5	18.0	21.0
26	.5	.0	.0	7.0	3.5	5.5	17.0	13.5	15.0	24.0	19.5	21.5
27	1.0	.5	.5	9.0	4.0	6.5	---	---	---	26.0	21.0	23.0
28	1.0	.0	.5	10.0	7.0	9.0	---	---	---	23.0	20.0	22.0
29	---	---	---	13.0	9.5	11.0	---	---	---	21.0	18.5	19.5
30	---	---	---	12.5	10.5	11.5	---	---	---	20.5	18.5	19.5
31	---	---	---	10.5	8.0	9.5	---	---	---	19.5	18.5	19.0
MONTH	1.0	.0	.0	13.0	.0	4.0	21.5	3.5	10.5	26.0	11.5	19.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.5	19.0	20.0	24.5	20.0	22.0	25.5	21.5	23.5	22.5	19.0	20.5
2	22.0	18.5	20.5	24.0	21.5	23.0	24.5	21.0	23.0	23.0	19.5	21.5
3	22.5	20.0	21.0	25.5	22.5	23.5	26.5	21.0	23.5	24.5	20.5	22.5
4	23.5	19.0	21.5	27.0	22.5	24.5	26.5	22.0	24.0	26.5	22.0	24.5
5	21.5	18.5	20.0	28.0	23.5	25.5	27.0	23.0	25.0	27.0	24.0	25.5
6	22.5	18.0	20.0	27.0	24.5	25.5	27.0	23.5	25.0	28.5	25.0	26.5
7	22.5	17.5	20.0	26.5	23.5	25.0	25.5	24.0	24.5	29.0	25.5	27.0
8	22.0	19.0	20.0	24.5	22.0	23.5	28.0	24.0	25.5	27.5	26.0	26.5
9	22.0	19.5	20.5	25.5	21.5	23.5	29.0	24.0	26.5	26.0	25.0	25.5
10	25.0	20.0	22.0	26.5	23.0	24.5	29.0	25.0	27.0	25.0	22.5	23.5
11	25.0	20.0	22.0	27.5	23.0	25.0	27.5	25.5	26.5	22.5	20.5	22.0
12	22.5	20.0	21.5	25.5	23.0	24.5	28.5	24.0	26.0	21.0	18.0	19.5
13	20.0	18.0	19.0	26.5	23.0	24.5	28.0	24.0	26.0	19.5	15.5	17.5
14	19.5	17.0	18.0	24.5	23.0	24.0	29.0	25.5	27.0	19.5	15.0	17.0
15	22.5	16.5	19.0	24.5	22.0	23.0	29.5	26.0	27.5	19.0	15.5	17.0
16	22.0	19.5	20.5	25.5	22.5	24.0	27.5	25.0	26.5	19.5	16.0	17.5
17	23.0	19.5	21.5	26.0	22.0	24.0	28.0	23.5	25.5	19.5	17.0	18.0
18	25.5	21.0	23.0	28.0	23.0	25.5	25.5	23.5	24.5	20.5	17.5	19.0
19	24.0	21.5	22.5	29.0	24.0	26.5	25.5	22.5	24.0	22.0	18.5	20.0
20	24.0	21.0	22.5	30.0	25.0	27.5	25.5	23.0	24.0	23.5	19.5	21.5
21	24.5	20.5	22.5	29.5	25.5	27.5	25.5	22.0	24.0	23.5	20.5	22.0
22	25.0	21.0	23.0	26.5	24.0	26.0	24.5	22.0	23.5	22.5	21.0	21.5
23	27.5	22.5	24.5	25.0	22.0	23.5	25.0	20.5	23.0	22.5	20.5	21.0
24	26.0	23.0	24.5	26.0	21.0	23.5	24.0	20.5	22.5	---	---	---
25	25.0	21.0	23.0	26.5	22.0	24.5	---	---	---	---	---	---
26	22.0	20.0	21.0	26.0	24.0	25.0	---	---	---	---	---	---
27	20.5	18.5	20.0	28.5	23.0	25.5	---	---	---	---	---	---
28	19.5	18.5	19.0	28.0	23.0	25.5	25.5	22.5	24.0	---	---	---
29	21.5	18.5	19.5	28.0	23.5	25.5	24.5	23.0	23.5	---	---	---
30	23.5	19.0	21.0	28.0	24.0	26.0	23.0	21.5	22.0	---	---	---
31	---	---	---	25.0	22.5	23.5	21.0	20.0	20.5	---	---	---
MONTH	27.5	16.5	21.0	30.0	20.0	24.5	29.5	20.0	24.5	29.0	15.0	21.5

01432160 DELAWARE RIVER AT BARRYVILLE, NY

LOCATION.--Lat 41°28'31", long 74°54'46", Pike County, Pa., Hydrologic Unit 02040104, at Shohola-Barryville Bridge at Barryville, just upstream from Halfway Brook, and 1,000 ft upstream from Shohola Brook.

DRAINAGE AREA.--2,659 mi^2.

PERIOD OF RECORD.--Water years 1958, 1968 to current year.
CHEMICAL DATA: 1958 (d), 1969 (a), 1973 (b), 1974 (d), 1975 (b).
NUTRIENT DATA: 1973 (b), 1974 (d), 1975 (b).
BIOLOGICAL DATA:
Bacteria.--1973 (b), 1974 (d), 1975 (b).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1967 to September 1973, March 1975 to current year.

INSTRUMENTATION.--Water-temperature digital recorder since March 1975, provides one-hour-interval punches. Prior to September 1973, water-temperature recorder provided continuous recordings.

REMARKS.--Unpublished records of daily temperatures for May to September 1964-66 are available in files of the Geological Survey. Temperature probe may be influenced by solar radiation during periods of low flow. Records are not published for June 15, 20-23, 27-29, July 2-6, 12, and Aug. 5-25, 27-28, when probe was known to have less than 4 inches of water cover.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1968-73, 1976-78, 1980-82), 32.0°C July 20, 21, 1980; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 30.5°C July 20, 21, but may have been higher during periods when records were not published; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	13.5	12.0	12.5	13.5	12.0	13.0	5.0	5.0	5.0	3.5	3.5	3.5
2	13.5	8.5	11.5	13.0	8.5	11.5	5.0	4.5	4.5	4.0	3.5	4.0
3	15.0	6.0	10.5	10.5	8.5	9.5	4.0	3.5	4.0	3.5	2.0	3.0
4	13.0	11.5	12.5	9.0	8.0	8.5	3.5	2.5	3.0	2.0	1.0	1.5
5	16.5	11.0	12.5	10.0	9.0	9.5	3.0	2.0	2.0	1.0	.0	.5
6	11.5	10.0	11.0	10.0	8.5	9.5	3.5	2.5	3.0	.0	.0	.0
7	11.5	9.0	10.5	8.5	7.0	7.5	3.0	.5	1.0	1.0	.0	.5
8	12.5	10.5	11.5	7.0	5.5	6.5	.5	.0	.0	1.0	.0	.5
9	15.0	12.0	13.0	7.0	6.0	6.5	.5	.0	.5	.0	.0	.0
10	16.0	13.5	14.5	8.5	7.0	7.5	1.0	.5	.5	.0	.0	.0
11	16.0	14.0	15.0	9.0	7.5	8.5	2.0	1.0	1.5	.0	.0	.0
12	17.0	13.5	15.0	9.0	7.5	8.5	2.5	1.5	2.0	.5	.0	.0
13	16.0	14.0	15.0	7.5	5.0	6.5	4.0	2.5	3.0	.5	.0	.0
14	15.0	13.0	14.0	5.0	4.0	4.5	4.0	3.5	4.0	.5	.0	.0
15	14.0	12.0	13.0	4.0	3.5	3.5	4.0	3.5	3.5	.5	.0	.0
16	13.5	11.0	12.5	5.0	3.5	4.0	4.0	3.5	3.5	.5	.0	.0
17	14.0	11.5	13.0	4.0	3.0	3.5	5.0	4.0	4.5	.5	.0	.0
18	15.0	13.5	14.0	3.5	2.5	3.0	5.5	5.0	5.0	.5	.5	.5
19	15.0	14.0	14.5	3.5	2.5	3.0	5.0	4.0	4.0	.5	.0	.0
20	16.5	14.5	15.5	2.5	1.0	1.5	3.5	3.0	3.5	.0	.0	.0
21	15.0	14.0	14.5	1.0	.0	.5	3.0	1.5	2.0	.0	.0	.0
22	16.0	15.0	15.5	1.5	.5	1.0	2.5	1.5	2.0	.0	.0	.0
23	15.0	14.0	14.5	1.5	.5	1.0	2.0	1.5	2.0	.5	.0	.0
24	14.0	12.5	13.5	2.0	1.0	1.5	2.0	1.0	1.5	.5	.0	.0
25	15.0	12.0	13.0	2.5	1.5	2.0	2.0	1.0	2.0	.5	.0	.0
26	14.0	12.0	13.5	3.0	1.5	2.5	.5	.0	.0	.0	.0	.0
27	16.5	14.0	15.0	3.5	2.5	3.0	.0	.0	.0	.5	.0	.0
28	18.0	15.0	16.0	7.0	3.5	5.0	1.0	.0	.0	.5	.0	.0
29	16.5	15.0	16.0	7.5	6.0	6.5	4.5	1.0	2.5	.5	.0	.0
30	17.0	12.5	14.5	6.0	5.0	5.5	4.5	4.0	4.0	.5	.0	.5
31	16.0	13.0	14.0	---	---	---	4.0	3.5	3.5	.0	.0	.0
MONTH	18.0	6.0	13.5	13.5	.0	5.5	5.5	.0	2.5	4.0	.0	.5

DELAWARE RIVER BASIN

01432160 DELAWARE RIVER AT BARRYVILLE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.0	3.0	.0	1.5	7.5	7.0	7.5	18.5	15.5	17.0
2	.5	.5	.5	4.0	2.0	3.0	7.0	5.5	6.0	17.0	14.0	15.5
3	.5	.0	.0	3.5	2.0	3.0	5.5	4.5	5.0	14.0	12.5	13.0
4	.0	.0	.0	2.5	.0	1.0	6.5	3.5	5.0	14.0	11.0	12.5
5	.0	.0	.0	2.5	.0	1.0	10.5	6.0	8.0	14.5	13.0	13.5
6	.5	.0	.5	2.5	.5	1.5	11.5	9.5	10.5	14.5	14.0	14.5
7	.5	.0	.5	2.5	.0	1.0	10.5	9.5	10.0	16.0	14.0	15.0
8	.5	.0	.5	3.0	2.0	2.5	9.5	7.5	8.5	15.5	13.0	14.5
9	.5	.5	.5	4.0	2.0	3.0	7.5	6.0	7.0	16.0	12.5	14.0
10	.5	.5	.5	5.0	2.5	3.5	7.5	4.5	6.0	19.0	14.5	17.0
11	.5	.0	.0	5.0	3.0	4.0	7.0	5.5	6.5	21.5	17.0	19.0
12	.0	.0	.0	5.5	4.0	5.0	9.0	5.5	7.5	23.0	19.5	20.5
13	.0	.0	.0	4.5	3.5	4.0	11.0	8.0	9.5	25.5	20.5	23.0
14	.5	.0	.0	4.5	4.0	4.5	10.5	9.5	10.0	25.5	20.0	23.0
15	.5	.0	.5	4.5	3.5	4.0	11.0	10.0	10.5	24.0	19.0	21.5
16	.5	.0	.5	4.0	2.5	3.5	13.0	10.5	11.5	19.0	17.5	18.0
17	.5	.0	.5	4.5	3.5	4.0	12.0	10.0	11.0	21.0	17.0	18.5
18	.5	.0	.0	4.0	2.5	3.0	13.0	9.5	11.5	19.5	17.0	18.0
19	.5	.0	.5	4.0	1.5	2.5	13.5	12.0	13.0	17.5	16.0	16.5
20	.5	.0	.0	5.5	3.0	4.0	16.0	13.0	14.5	19.0	15.0	17.0
21	.5	.0	.0	5.0	3.0	4.0	17.5	14.0	15.5	20.5	17.5	19.0
22	.5	.0	.5	5.5	2.5	4.0	19.0	16.0	17.5	21.0	18.0	19.5
23	.5	.0	.5	6.0	4.0	5.0	20.0	17.5	18.5	20.0	18.0	18.5
24	.5	.0	.0	6.0	5.5	5.5	18.5	15.0	16.5	22.5	17.0	19.5
25	1.0	.0	.5	6.5	4.5	5.5	15.0	14.0	14.5	23.5	17.5	20.5
26	1.0	.0	.5	6.0	3.5	5.0	16.0	13.5	14.5	24.5	18.5	21.0
27	2.0	1.0	1.5	8.0	4.5	6.5	17.0	14.5	15.5	27.0	19.5	23.0
28	2.0	.0	1.0	10.0	8.5	9.0	15.5	13.5	14.5	22.0	20.0	21.5
29	---	---	---	13.0	10.0	11.5	16.0	12.0	14.0	20.5	18.5	19.5
30	---	---	---	12.0	11.0	11.5	18.0	13.0	15.5	20.0	18.0	19.0
31	---	---	---	11.0	7.5	9.5	---	---	---	19.5	18.5	19.0
MONTH	2.0	.0	.5	13.0	.0	4.5	20.0	3.5	11.0	27.0	11.0	18.0
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.0	18.5	19.5	24.5	19.5	21.5	24.0	19.5	21.5	21.5	17.5	19.5
2	21.0	18.0	19.5	---	---	---	23.0	20.5	22.0	23.5	18.5	20.5
3	21.0	19.5	20.5	---	---	---	25.5	20.5	23.0	27.5	18.5	22.0
4	22.0	18.5	20.5	---	---	---	27.0	21.0	23.5	26.5	20.0	23.5
5	22.0	16.5	18.5	---	---	---	---	---	---	27.5	22.0	24.0
6	20.0	16.0	17.5	---	---	---	---	---	---	28.0	22.5	24.5
7	20.5	16.0	18.0	26.5	23.0	25.0	---	---	---	29.0	22.0	24.5
8	20.5	17.0	18.0	23.5	21.5	22.5	---	---	---	27.0	23.5	25.0
9	22.0	18.0	19.5	26.0	21.0	23.0	---	---	---	25.0	22.0	23.5
10	24.5	19.0	21.0	26.0	21.5	23.5	---	---	---	24.0	22.5	23.5
11	23.5	17.5	20.0	27.0	20.0	23.5	---	---	---	23.0	21.0	22.0
12	21.5	18.0	20.0	---	---	---	---	---	---	21.0	18.5	19.5
13	17.5	14.5	16.5	26.0	20.5	23.5	---	---	---	19.0	16.0	17.5
14	20.0	13.5	16.5	25.0	23.0	24.0	---	---	---	20.5	15.0	17.0
15	---	---	---	24.0	22.5	23.5	---	---	---	21.0	13.5	16.5
16	23.5	17.0	19.5	25.5	22.5	24.0	---	---	---	22.5	14.0	17.0
17	22.5	17.0	19.5	25.0	22.0	24.0	---	---	---	23.0	15.0	18.0
18	23.5	18.5	20.5	26.5	23.0	25.0	---	---	---	24.0	15.5	18.0
19	24.5	17.5	21.0	29.0	23.5	26.5	---	---	---	25.0	16.0	19.0
20	---	---	---	30.5	24.0	26.5	---	---	---	23.0	17.0	20.0
21	---	---	---	30.5	23.0	27.0	---	---	---	23.5	17.5	20.5
22	---	---	---	26.0	23.5	25.0	---	---	---	22.0	19.0	20.5
23	---	---	---	23.5	21.5	22.5	---	---	---	23.5	19.0	20.5
24	26.5	24.0	25.5	23.5	21.0	22.5	---	---	---	21.5	19.0	20.0
25	25.5	18.5	21.0	25.0	20.5	22.5	---	---	---	21.5	14.5	18.0
26	21.5	18.0	19.5	22.5	21.0	22.0	24.5	20.5	22.0	19.5	15.0	17.5
27	---	---	---	26.5	21.0	24.0	---	---	---	18.0	16.0	17.5
28	---	---	---	26.5	22.5	24.5	---	---	---	16.0	16.0	16.0
29	---	---	---	27.5	23.0	24.5	22.5	19.5	21.0	16.5	15.0	16.0
30	23.0	18.5	20.5	28.5	21.5	24.0	22.0	19.0	20.0	17.0	15.5	16.5
31	---	---	---	22.5	20.0	21.0	20.0	18.0	19.5	---	---	---
MONTH	26.5	13.5	19.5	30.5	19.5	24.0	27.0	18.0	21.5	29.0	13.5	20.0

01432805 DELAWARE RIVER AT POND EDDY, NY

LOCATION.--Lat 41°26'20", long 74°49'11", Pike County, Pa., Hydrologic Unit 02040104, at interstate bridge at Pond Eddy, 450 ft downstream from Mill Brook, and 4.5 mi upstream from Mongaup River.

DRAINAGE AREA.--2,820 mi^2.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1973 to current year.

INSTRUMENTATION.--Water-temperature digital recorder since October 1973, provides one-hour-interval punches.

REMARKS.--Temperature probe may be influenced by solar radiation during periods of low flow. Interruptions of record were due to malfunctions of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1976, 1978, 1980-81, 1983-84) 31.0°C July 21, 1980; minimum (water years 1974, 1977-78, 1980, 1983-85), 0.0°C on many days during winter periods, except 1978, 1980, and 1985.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 0.5°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	14.5	13.5	14.0	---	---	---	4.0	4.0	4.0
2	---	---	---	14.0	12.0	13.0	---	---	---	4.5	4.0	4.0
3	---	---	---	11.5	9.5	11.0	---	---	---	4.0	3.0	3.5
4	---	---	---	10.0	9.5	9.5	---	---	---	2.5	1.5	2.0
5	---	---	---	11.0	9.5	10.0	---	---	---	1.5	.5	1.0
6	---	---	---	10.5	9.5	10.0	---	---	---	.5	.5	.5
7	---	---	---	9.5	8.0	9.0	---	---	---	.5	.5	.5
8	---	---	---	8.0	7.0	7.5	---	---	---	1.5	.5	.5
9	---	---	---	7.5	7.0	7.5	---	---	---	.5	.5	.5
10	---	---	---	9.0	7.5	8.0	---	---	---	.5	.5	.5
11	---	---	---	9.5	8.5	9.0	---	---	---	.5	.5	.5
12	---	---	---	9.5	8.5	9.0	---	---	---	.5	.5	.5
13	---	---	---	8.5	7.0	8.0	---	---	---	.5	.5	.5
14	---	---	---	6.5	5.5	6.0	---	---	---	.5	.5	.5
15	---	---	---	5.5	5.0	5.0	---	---	---	.5	.5	.5
16	---	---	---	5.5	5.0	5.0	---	---	---	.5	.5	.5
17	13.5	12.0	12.5	5.0	4.0	4.5	---	---	---	.5	.5	.5
18	15.0	13.0	14.0	4.5	4.0	4.5	---	---	---	.5	.5	.5
19	15.0	14.0	14.5	4.5	4.0	4.5	5.5	4.5	5.0	.5	.5	.5
20	16.5	14.5	15.5	4.0	2.5	3.5	4.5	4.0	4.0	.5	.5	.5
21	15.5	15.0	15.0	2.5	2.0	2.5	3.5	2.5	3.0	.5	.5	.5
22	16.0	15.0	15.5	2.5	2.0	2.5	3.0	2.0	2.5	.5	.5	.5
23	16.0	15.0	15.5	2.5	2.5	2.5	2.5	2.0	2.0	.5	.5	.5
24	14.5	13.5	14.5	2.5	2.5	2.5	2.5	1.5	2.0	.5	.5	.5
25	14.5	13.0	13.5	3.0	2.5	3.0	2.5	1.5	2.0	.5	.5	.5
26	14.5	13.5	14.0	3.5	3.0	3.5	1.5	.5	1.0	.5	.5	.5
27	16.0	14.5	15.0	---	---	---	.5	.5	.5	.5	.5	.5
28	18.0	15.5	16.5	---	---	---	1.0	.5	.5	.5	.5	.5
29	17.5	16.5	17.0	---	---	---	4.5	.5	2.0	.5	.5	.5
30	16.5	15.0	15.5	---	---	---	4.5	3.5	4.0	.5	.5	.5
31	15.0	14.5	14.5	---	---	---	4.5	4.0	4.5	.5	.5	.5
MONTH	18.0	12.0	15.0	14.5	2.0	6.5	5.5	.5	2.5	4.5	.5	1.0

01432805 DELAWARE RIVER AT POND EDDY, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---				24.0	20.0	22.0	---	---	---
2	---	---	---				23.5	20.5	22.0	---	---	---
3	---	---	---				25.0	21.0	22.5	---	---	---
4	---	---	---				26.0	21.5	23.5	---	---	---
5	---	---	---				26.5	22.0	23.5	---	---	---
6	---	---	---				26.5	22.5	24.0	---	---	---
7	---	---	---				25.0	22.5	23.5	---	---	---
8	---	---	---				25.5	23.0	24.0	---	---	---
9	---	---	---				26.5	24.0	25.0	---	---	---
10	---	---	---				26.5	23.0	24.5	---	---	---
11	---	---	---				---	---	---	---	---	---
12	---	---	---				---	---	---	---	---	---
13	---	---	---				---	---	---	---	---	---
14	---	---	---				---	---	---	---	---	---
15	---	---	---				---	---	---	---	---	---
16	---	---	---				---	---	---	---	---	---
17	---	---	---				---	---	---	---	---	---
18	---	---	---				---	---	---	---	---	---
19	---	---	---				---	---	---	---	---	---
20	23.5	20.0	21.5				---	---	---	---	---	---
21	23.5	20.0	21.0				---	---	---	---	---	---
22	---	---	---				---	---	---	---	---	---
23	---	---	---				---	---	---	---	---	---
24	---	---	---				---	---	---	---	---	---
25	---	---	---				---	---	---	---	---	---
26	---	---	---				---	---	---	19.5	18.0	18.5
27	---	---	---				---	---	---	18.5	16.5	17.5
28	---	---	---				---	---	---	16.5	16.0	16.0
29	---	---	---				---	---	---	16.0	15.5	16.0
30	---	---	---				---	---	---	16.5	15.5	16.0
31	---	---	---				---	---	---	---	---	---
MONTH	23.5	20.0	21.5				26.5	20.0	23.5	19.5	15.5	17.0

01433500 MONGAUP RIVER NEAR MONGAUP, NY

LOCATION.--Lat 41°27'41", long 74°45'33", Sullivan County, Hydrologic Unit 02040104, on right bank 300 ft downstream from Rio hydroelectric plant of Orange and Rockland Utilities, Inc., 0.5 mi downstream from Bush Kill, and 2.8 mi upstream from mouth and Mongaup.

DRAINAGE AREA.--200 mi^2.

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

REVISED RECORDS.--WDR NY-71-1: 1970. WDR NY-81-1: 1980. WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 625.05 ft Orange and Rockland Utilities, Inc. datum. Prior to July 6, 1956, water-stage recorders at sites 25 ft upstream on Rio Tailrace and 200 ft upstream on natural channel, at datum 4.0 ft higher.

REMARKS.--Estimated daily discharges: Oct. 1, 7-15, 20-22, 28-29, Nov. 4-14, 16-19, 22-28, Dec. 9-10, 13-17, 19, Jan. 13-14, 20, 27-28, Feb. 3, 10-11, 19, 22, Apr. 29, May 15-17, 23-28, June 17-24, 30, July 1, 7-9, 12-15, 21, 23-25, 29-30, Aug. 2-5, and Sept. 13-16. Records poor. Flow regulated by storage in Cliff Lake, Swinging Bridge, and Toronto Reservoirs (see Reservoirs in Delaware River Basin) and small reservoirs upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--46 years, 341 ft^3/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,100 ft^3/s Aug. 19, 1955, gage height, 15.22 ft, present datum; minimum daily, 6 ft^3/s Oct. 1, 1939.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,370 ft^3/s Sept. 27, gage height, 4.66 ft; minimum daily, 23 ft^3/s Oct. 14, but may have been lower during other periods of estimated daily discharges (see REMARKS).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179	201	88	225	419	437	287	281	301	179	92	212
2	259	251	73	213	181	323	480	315	118	255	65	203
3	281	138	250	440	68	137	526	485	263	267	53	203
4	254	44	247	463	256	224	547	507	350	276	47	254
5	261	40	231	291	350	167	536	303	335	222	139	292
6	148	41	235	163	403	124	276	298	375	100	484	300
7	48	39	265	284	302	246	106	334	364	57	537	179
8	41	32	124	403	290	208	297	331	233	43	432	186
9	39	27	56	392	150	121	481	310	90	66	494	336
10	35	26	184	409	57	107	420	179	209	143	384	255
11	30	30	277	392	206	305	392	90	401	92	496	120
12	28	42	106	237	204	714	416	77	360	49	474	87
13	25	43	58	73	232	964	205	171	361	59	371	64
14	23	159	47	240	156	933	96	177	332	46	373	50
15	112	186	44	354	88	875	195	74	207	205	404	44
16	240	75	43	289	111	813	270	60	91	404	412	160
17	232	47	82	369	148	715	306	62	69	433	292	357
18	264	36	119	282	72	789	329	113	58	295	188	383
19	270	180	145	166	100	767	281	103	58	303	308	444
20	131	321	290	68	209	547	181	93	51	115	358	416
21	42	152	327	258	91	739	82	86	47	59	260	361
22	136	46	188	298	64	743	151	76	44	90	209	309
23	287	40	106	258	80	745	252	64	45	63	194	354
24	346	38	88	260	151	738	265	57	148	49	197	314
25	269	34	87	312	224	719	281	51	147	249	169	295
26	303	31	70	161	213	510	284	45	138	521	252	386
27	140	30	253	62	388	521	185	47	211	253	199	856
28	46	29	419	127	462	538	75	150	210	85	194	1210
29	159	86	494	312	---	501	115	258	119	61	189	959
30	266	96	287	392	---	256	204	567	67	124	217	854
31	260	---	424	352	---	96	---	572	---	127	230	---
TOTAL	5154	2540	5707	8545	5675	15622	8521	6336	5802	5290	8713	10443
MEAN	166	84.7	184	276	203	504	284	204	193	171	281	348
MAX	346	321	494	463	462	964	547	572	401	521	537	1210
MIN	23	26	43	62	57	96	75	45	44	43	47	44

CAL YR 1984 TOTAL 157887 MEAN 431 MAX 6740 MIN 23
WTR YR 1985 TOTAL 88348 MEAN 242 MAX 1210 MIN 23

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 downstream from bridge (on U.S. Highways 6 and 209) between Port Jervis, N.Y. and Matamoras, Pa., 1.2 mi upstream from Neversink River, and 6.5 mi downstream from Mongaup River. Water-quality sampling site at discharge station.

DRAINAGE AREA.--3,070 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1904 to current year.

REVISED RECORDS.--WSP 1031: 1905-36. WDR NY-71-1: 1970. WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 415.35 ft above National Geodetic Vertical Datum of 1929. 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.--Estimated daily discharges: Jan. 9 to Feb. 20. Records good except those for estimated daily discharges, which are fair. 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 mi^2 of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 mi^2 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. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 233,000 ft^3/s Aug. 19, 1955, gage height, 23.91 ft, from floodmarks in gage house, from rating curve extended above 89,000 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 26.6 ft Feb. 12, 1981 (ice jam), from floodmarks; minimum observed discharge, 175 ft^3/s Sept. 23, 1908, gage height, 0.6 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--The U.S. Weather Bureau reported a discharge of 205,000 ft^3/s Oct. 10, 1903, gage height, 23.1 ft, from rating curve extended above 70,000 ft^3/s by velocity-area studies; stage on Mar. 8, 1904 was 25.5 ft, ice jam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67,700 ft^3/s Sept. 28, gage height, 12.61 ft; minimum, 555 ft^3/s Aug. 23, gage height, 1.50 ft; minimum daily, 853 ft^3/s Sept. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1580	1920	4660	4950	1430	5180	3120	1770	2480	1520	1990	1490
2	1190	1070	3990	4620	1290	4300	4420	1780	3170	1230	2460	1400
3	912	1900	3680	4450	1090	3680	4350	3450	3340	1280	1990	1130
4	1940	1590	3790	3900	1360	3310	4000	4630	2780	1220	1250	1030
5	1660	1710	3820	3490	1760	3030	3780	3520	2790	1180	1130	1070
6	1640	1810	4600	3030	1590	4030	3580	2940	3040	1340	1700	1090
7	1730	1900	3220	3140	1340	3810	3370	2870	2830	1380	1750	1110
8	1530	1940	2310	3230	1270	3680	3940	2820	2500	1930	1660	1130
9	1540	1800	2070	2440	1620	3710	4500	2500	1490	1580	1660	1320
10	1600	1730	2180	1660	1550	3440	3930	2190	1590	1360	1610	3420
11	1650	1690	2140	1670	1650	3720	3490	1890	1960	1470	1270	2900
12	1660	1680	2250	2030	1900	7330	3310	1740	1860	1540	1190	1910
13	1710	1860	2450	1840	2110	16300	2960	1670	1680	1930	1370	1350
14	1790	1610	2740	2190	2530	11900	2660	1660	1380	2360	1390	1060
15	1800	1760	3190	2200	2510	9220	2700	1460	1340	2040	1420	874
16	1980	1540	3160	1920	2330	6980	2700	1290	1610	2610	1560	853
17	1800	1560	2990	1860	1920	5590	2600	1220	1910	2870	1400	1310
18	1960	1680	2910	1590	1510	5420	2480	1650	1660	2120	1100	1310
19	2000	1730	2720	1540	1390	4690	2310	2930	1530	1750	1130	1250
20	1720	1870	2970	1340	1480	4070	2420	2900	1240	1260	1230	1180
21	1860	1620	3420	1700	1400	4320	2530	2320	1150	1050	1240	1160
22	1720	1710	3720	3300	1340	4060	2410	1920	1150	2450	1220	1060
23	2040	1660	6640	1890	1750	3640	2310	1670	950	3040	1160	1150
24	2220	1620	5600	2070	4200	3170	2260	1530	1300	2460	1310	1200
25	1670	1610	4490	1970	9070	3340	2330	1380	1780	2230	1030	1170
26	1620	1710	3800	2330	10700	3160	2310	1260	1690	3330	1520	1210
27	1730	1640	3340	1890	7740	2510	2220	1210	1670	2170	1600	16900
28	1640	1680	3370	1610	6060	2420	1970	1530	1410	1600	1310	48100
29	1710	2200	4310	1810	---	2430	1840	3600	1430	1430	1200	18600
30	1630	6500	6280	1520	---	2470	1810	3530	1650	1330	1170	11200
31	1480	---	6040	1470	---	2340	---	2720	---	1610	1340	---
TOTAL	52712	56300	112850	74650	75890	147250	88610	69550	56360	56670	44360	129937
MEAN	1700	1877	3640	2408	2710	4750	2954	2244	1879	1828	1431	4331
MAX	2220	6500	6640	4950	10700	16300	4500	4630	3340	3330	2460	48100
MIN	912	1070	2070	1340	1090	2340	1810	1210	950	1050	1030	853

CAL YR 1984 TOTAL 1957462 MEAN 5348 MAX 75300 MIN 912
WTR YR 1985 TOTAL 965139 MEAN 2644 MAX 48100 MIN 853

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-60, 1964 to current year.
CHEMICAL DATA: 1958-59 (e), 1964-65 (c), 1966 (a), 1967-68 (c), 1969-76 (d).
MINOR ELEMENTS DATA: 1970 (a), 1972-73 (a), 1974-76 (c).
PESTICIDE DATA: 1974 (a).
ORGANIC DATA: OC--1974 (b), 1975 (d).
NUTRIENT DATA: 1968 (a), 1969-76 (d).
BIOLOGICAL DATA:
Bacteria--1973-76 (d).
Phytoplankton--1974 (b), 1975-76 (c).
Periphyton--1976 (a).
SEDIMENT DATA: 1959 (c), 1976 (c).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1973 to September 1973.
WATER TEMPERATURES: February 1957 to September 1960, January 1973 to September 1973, June 1974 to current year.
SUSPENDED-SEDIMENT DISCHARGE: February 1957 to September 1960, March 1970 to June 1976.

INSTRUMENTATION.--Water-temperature digital recorder since January 1973, provides one-hour-interval punches.

REMARKS.--Interruptions of record were due to malfunctions of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1957-59, 1973-81, 1983-84), 30.0°C July 13, 1981; minimum (water years 1958-60, 1973, 1975-85), 0.0°C on many days during winter periods, except 1984.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	13.5	13.0	13.0	5.0	5.0	5.0	---	---	---
2	---	---	---	13.5	10.5	12.0	4.5	4.0	4.5	---	---	---
3	---	---	---	10.5	9.0	10.0	4.0	3.5	4.0	---	---	---
4	---	---	---	9.5	8.5	9.5	3.5	2.5	3.0	---	---	---
5	13.0	12.0	12.5	10.5	9.5	10.0	2.5	1.0	2.0	---	---	---
6	12.5	11.5	12.0	10.0	8.5	9.5	2.5	1.5	2.0	---	---	---
7	12.5	11.0	11.5	8.5	7.0	8.0	2.0	.0	1.0	---	---	---
8	13.0	11.5	12.0	7.0	6.5	7.0	.5	.0	.0	---	---	---
9	14.5	13.0	13.5	7.0	6.0	7.0	.5	.0	.5	---	---	---
10	15.5	14.0	14.5	8.0	7.0	7.5	1.0	.0	.5	---	---	---
11	16.0	14.5	15.5	8.5	7.5	8.0	2.0	1.5	1.5	.0	.0	.0
12	16.0	14.5	15.5	8.5	7.0	8.0	2.0	1.5	2.0	.5	.0	.0
13	16.0	14.5	15.0	7.0	5.0	6.5	3.5	2.0	2.5	.0	.0	.0
14	15.0	14.0	14.5	5.0	4.5	4.5	4.0	3.5	3.5	.0	.0	.0
15	14.5	13.0	14.0	5.0	4.0	4.5	4.0	4.0	4.0	.0	.0	.0
16	14.0	12.5	13.5	5.0	4.5	5.0	4.5	4.0	4.5	.0	.0	.0
17	14.0	12.5	13.5	4.5	3.5	4.0	5.0	4.5	5.0	.0	.0	.0
18	15.0	13.5	14.0	4.0	3.0	3.5	4.5	4.0	4.0	.0	.0	.0
19	15.0	14.5	15.0	3.5	3.0	3.5	4.0	3.0	3.5	.0	.0	.0
20	16.0	15.0	15.0	3.0	2.0	2.5	3.0	2.0	2.5	.5	.0	.0
21	15.5	15.0	15.5	2.0	1.0	1.5	---	---	---	.5	.5	.5
22	16.0	15.5	16.0	1.5	.5	1.0	---	---	---	.5	.0	.0
23	15.5	14.5	15.0	1.5	.5	1.0	---	---	---	.5	.0	.0
24	14.5	13.5	14.0	1.5	1.0	1.0	---	---	---	.0	.0	.0
25	14.0	13.0	13.5	2.0	1.0	1.5	---	---	---	.0	.0	.0
26	14.0	13.5	14.0	2.5	1.5	2.0	---	---	---	.0	.0	.0
27	15.5	14.0	15.0	3.0	2.0	2.5	---	---	---	.0	.0	.0
28	17.0	15.5	16.5	6.0	3.0	4.0	---	---	---	.5	.0	.0
29	16.5	15.0	16.5	6.5	5.5	6.0	---	---	---	.0	.0	.0
30	15.5	14.5	15.0	5.5	5.0	5.5	---	---	---	.0	.0	.0
31	15.0	13.5	14.5	---	---	---	---	---	---	.0	.0	.0
MONTH	17.0	11.0	14.5	13.5	.5	5.5	5.0	.0	3.0	.5	.0	.0

01434000 DELAWARE RIVER AT PORT JERVIS, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	2.0	1.0	1.5	8.5	7.0	7.5	18.0	15.5	17.0
2	.0	.0	.0	3.5	2.0	3.0	7.0	6.0	6.5	17.0	15.0	16.0
3	.0	.0	.0	3.5	2.5	3.0	6.0	5.0	5.5	15.0	12.0	13.0
4	.0	.0	.0	2.5	1.0	1.5	7.0	4.5	5.5	15.0	11.5	13.0
5	.0	.0	.0	2.5	1.0	1.5	10.0	6.0	7.5	15.5	12.5	14.0
6	.0	.0	.0	2.0	1.0	1.5	11.5	8.5	10.0	16.0	13.5	14.5
7	.0	.0	.0	2.0	1.0	1.5	11.0	9.5	10.0	16.5	14.0	15.0
8	.0	.0	.0	3.5	1.5	2.0	10.5	8.5	9.5	16.5	13.5	15.0
9	.0	.0	.0	4.5	2.0	3.0	9.0	7.0	7.5	16.5	12.5	14.5
10	.0	.0	.0	4.5	2.5	3.5	8.0	6.0	7.0	18.5	13.5	16.5
11	.0	.0	.0	5.0	3.0	4.0	8.0	6.5	7.0	20.5	16.5	18.5
12	.0	.0	.0	6.0	4.0	5.0	10.0	6.0	7.5	21.5	18.5	20.0
13	.0	.0	.0	4.5	3.5	4.0	11.5	8.0	9.5	23.5	20.0	22.0
14	.0	.0	.0	4.5	4.0	4.0	11.0	9.0	10.0	24.0	20.5	22.0
15	.0	.0	.0	4.5	3.5	4.0	11.5	9.5	10.5	22.5	20.0	21.5
16	.0	.0	.0	4.5	3.0	3.5	13.5	10.5	11.5	21.0	18.5	20.0
17	.0	.0	.0	5.0	3.5	4.0	13.0	10.0	11.5	20.0	18.0	19.0
18	.0	.0	.0	4.0	2.5	3.5	13.5	9.5	11.5	19.5	17.0	18.5
19	.5	.0	.0	4.0	2.5	3.0	14.5	11.0	13.0	18.5	16.5	17.5
20	.5	.0	.0	5.5	3.5	4.0	15.5	12.5	14.0	19.5	15.5	17.5
21	.5	.0	.5	5.5	4.0	4.5	18.0	14.0	16.0	20.5	17.0	19.0
22	.5	.0	.5	5.5	4.0	4.5	20.0	15.5	18.0	21.5	17.5	20.0
23	1.0	.5	.5	6.0	4.5	5.0	19.0	16.5	18.0	20.5	18.0	19.0
24	1.0	.0	.5	6.0	5.0	5.5	17.5	15.5	16.0	21.5	17.5	19.5
25	.5	.0	.0	6.5	4.5	5.5	16.0	14.0	15.0	22.0	18.5	20.5
26	.5	.0	.0	7.0	4.5	5.5	17.0	13.5	15.5	22.5	20.0	21.5
27	2.0	.5	1.5	8.0	4.5	6.5	17.5	14.5	16.0	---	---	---
28	1.5	.5	1.0	10.5	6.5	8.5	16.5	14.5	15.5	---	---	---
29	---	---	---	12.0	8.5	10.5	16.0	12.5	14.5	---	---	---
30	---	---	---	12.5	10.0	11.0	17.5	13.5	15.5	---	---	---
31	---	---	---	11.0	8.0	9.5	---	---	---	---	---	---
MONTH	2.0	.0	.0	12.5	1.0	4.5	20.0	4.5	11.5	24.0	11.5	18.0

0143400690 EAST BRANCH NEVERSINK RIVER ABOVE TRAY MILL BROOK, NEAR DENNING, NY

LOCATION.--Lat 41°57'51", long 74°27'02", Ulster County, Hydrologic Unit 02040104, 500 ft upstream from Tray Mill Brook, and 2.2 mi northeast of Denning.

DRAINAGE AREA.--9.15 mi^2.

PERIOD OF RECORD.--June 1984 to current year.
CHEMICAL DATA: 1984 (a), 1985 (c).
MINOR ELEMENT DATA: 1984 (a), 1985 (c).
ORGANIC DATA: OC--1984 (a), 1985 (b).

REMARKS.--All anion and cation analyses were performed on water samples which passed through a 0.1-micrometer membrane filter.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
DEC									
05...	1220	13	24	4.9	1.0	7	5	<.1	1.7
JAN									
22...	1545	12	25	5.0	.0	7	--	<.1	1.6
MAR									
29...	1515	81	31	4.6	4.5	7	--	<.1	1.5
MAY									
14...	0845	29	26	4.7	10.5	7	5	<.1	1.5
18...	1715	90	24	4.6	10.5	6	8	<.1	1.4
JUL									
17...	1430	39	25	5.0	14.5	6	--	<.1	1.3
SEP									
27...	1740	--	31	4.3	--	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
DEC									
05...	.73	.40	.26	-.20	6.5	.72	.03	<.01	2.6
JAN									
22...	.70	.50	.22	-.70	6.2	.60	.03	.01	2.1
MAR									
29...	.69	.38	.26	-1.2	5.9	.55	.06	.02	1.8
MAY									
14...	.70	.30	.28	-.80	6.5	.60	.04	<.01	1.9
18...	.62	.38	.24	-1.8	6.3	.63	.05	<.01	2.0
JUL									
17...	.64	.40	.14	--	6.6	.48	.04	.01	2.2
SEP									
27...	--	--	--	-2.5	--	--	--	--	1.3

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
DEC								
05...	16	.41	<.005	<.002	200	<3	64	--
JAN								
22...	--	.40	.004	<.001	190	4	47	--
MAR								
29...	--	.78	.009	<.001	450	12	110	2.6
MAY								
14...	15	.35	.010	<.001	270	9	69	2.3
18...	11	--	.003	<.001	370	12	88	--
JUL								
17...	--	.13	.007	.006	260	11	64	3.3
SEP								
27...	--	--	--	--	490	110	130	--

01434010 EAST BRANCH NEVERSINK RIVER AT DENNING, NY

LOCATION.--Lat 41°57'30", long 74°46'18", Ulster County, Hydrologic Unit 02040104, on downstream side of bridge on private road at Strauss Estate, 0.9 mi upstream from Erts Brook, 0.4 mi downstream from Riley Brook, and 1.0 mi northeast of Denning.

DRAINAGE AREA.--13.3 mi^2.

PERIOD OF RECORD.--August 1983 to current year.
CHEMICAL DATA: 1983 (a), 1984 (e), 1985 (b).
MINOR ELEMENT DATA: 1983 (a), 1984 (e), 1985 (b).
ORGANIC DATA: OC--1983 (a), 1984 (e), 1985 (b).

REMARKS.--All anion and cation analyses were performed on water samples which passed through a 0.1-micrometer membrane filter.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV									
03...	0700	10	22	5.6	4.0	7	--	<.1	1.6
29...	1600	170	--	4.5	--	8	--	<.1	1.9
FEB									
12...	0800	19	22	5.5	--	8	--	<.1	1.9
25...	1025	84	25	5.0	.5	7	--	<.1	1.8
SEP									
04...	1215	16	22	5.2	--	6	5	.3	1.5

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV									
03...	.68	.50	.26	.60	6.2	.75	.04	.02	2.6
29...	.80	.50	.62	-.80	7.2	1.1	.03	<.01	2.3
FEB									
12...	.80	.50	.29	.20	6.3	.72	.02	.02	2.2
25...	.70	.50	.22	.40	6.4	.62	.03	.02	2.5
SEP									
04...	.63	.40	.19	-.20	5.7	.68	.06	<.01	2.2

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
NOV								
03...	--	.16	<.005	<.002	80	4	25	1.1
29...	--	.69	<.005	<.002	550	38	180	6.5
FEB								
12...	--	.77	.005	.004	250	11	71	1.3
25...	--	.40	.006	.005	100	7	22	.70
SEP								
04...	13	.13	<.001	<.010	130	6	36	--

01434025 BISCUIT BROOK ABOVE PIGEON BROOK AT FROST VALLEY, NY

LOCATION.--Lat 41°59'43", long 74°30'05", Ulster County, Hydrologic Unit 02040104, on right bank 0.2 mi upstream from Pigeon Brook, 0.6 mi upstream from mouth, and 0.8 mi northeast of Frost Valley. Water-quality sampling site at discharge station.

DRAINAGE AREA.--3.80 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1983 to current year. February to May 1983 (occasional discharge measurements).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,060 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 8-9, 26, Jan. 4 to Feb. 1, Feb. 5-7, 10, 16-24, and Mar. 8-9. Records fair. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 803 ft^3/s Apr. 5, 1984, Sept. 27, 1985, gage height, 2.89 ft; minimum, 0.40 ft^3/s Sept. 16, 1983; minimum gage height, 0.22 ft Sept. 15, 16, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	1430	*803	*2.89	No other peak greater than base discharge.			

Minimum discharge, 0.53 ft^3/s Oct. 14, 15, 16, gage height, 0.27 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.75	8.2	14	2.9	6.3	15	5.9	9.6	3.9	12	3.3
2	1.3	1.2	6.5	15	3.0	6.2	12	5.7	6.3	3.4	6.4	3.0
3	1.1	1.0	7.4	11	2.8	5.8	11	8.5	5.7	3.3	5.2	2.8
4	1.3	.95	6.4	8.8	2.6	5.3	11	6.7	5.1	3.1	4.9	2.7
5	.84	3.4	5.3	7.8	2.5	13	19	6.1	5.4	2.9	4.5	2.7
6	.84	2.2	5.6	7.0	2.6	7.0	27	6.6	5.1	2.8	4.2	2.6
7	1.0	1.6	4.5	6.4	2.5	6.4	20	6.6	4.4	2.8	5.6	2.8
8	1.0	1.3	4.0	6.0	2.4	6.0	16	5.8	4.7	2.5	6.8	2.6
9	.82	1.2	4.3	5.6	2.4	5.8	13	5.4	4.3	2.5	4.3	9.1
10	.76	3.2	5.0	5.2	2.4	5.7	12	5.4	4.1	2.6	4.0	6.6
11	.68	2.3	5.4	4.8	2.5	5.9	11	5.3	3.7	2.3	3.9	5.2
12	.61	2.0	4.9	4.6	4.6	43	10	6.4	4.0	26	3.6	3.8
13	.60	1.9	9.4	4.4	14	20	9.8	6.8	3.8	19	3.4	3.5
14	.53	1.7	11	4.4	2.8	13	10	5.6	3.6	8.4	3.5	3.2
15	.53	1.7	8.0	5.0	2.5	11	10	5.2	3.4	12	3.7	3.1
16	.60	2.2	7.6	4.1	2.3	12	9.7	5.3	4.4	19	3.8	2.9
17	.64	2.0	10	3.9	2.2	8.7	8.7	6.1	3.6	9.3	3.0	2.8
18	.65	1.8	10	3.8	2.1	8.0	8.3	17	5.0	7.5	2.8	2.6
19	.68	1.7	11	3.7	2.0	9.8	9.2	9.3	3.5	6.5	2.8	2.5
20	.74	1.5	9.6	3.5	2.0	7.9	11	7.7	3.3	5.7	2.9	2.4
21	.78	1.6	7.5	3.4	2.0	8.0	8.9	6.9	3.1	6.0	2.5	2.2
22	2.4	1.6	21	3.4	2.2	7.7	8.4	6.1	2.8	7.5	2.4	2.3
23	2.6	1.7	14	3.3	5.0	7.3	8.0	5.5	2.9	5.0	2.3	2.5
24	1.1	1.7	10	3.2	18	7.3	7.7	5.1	2.9	4.4	2.3	3.2
25	.84	1.7	8.8	3.1	44	6.8	7.6	4.6	2.4	4.4	4.1	2.7
26	1.5	1.7	8.0	3.0	11	7.0	7.1	4.3	2.4	12	4.5	2.8
27	1.3	1.7	7.0	2.9	8.3	8.2	6.9	4.7	2.3	7.9	3.1	188
28	.99	2.0	12	2.9	7.6	26	6.7	13	5.3	5.4	2.5	51
29	1.0	35	23	2.8	---	34	6.4	7.9	12	4.6	2.4	17
30	.88	13	18	2.8	---	25	6.0	5.8	6.5	4.1	4.8	10
31	.81	---	13	2.8	---	17	---	5.5	---	14	4.9	---
TOTAL	30.92	97.30	286.4	162.6	161.2	361.1	327.4	206.8	135.6	220.8	127.1	351.9
MEAN	1.00	3.24	9.24	5.25	5.76	11.6	10.9	6.67	4.52	7.12	4.10	11.7
MAX	2.6	35	23	15	44	43	27	17	12	26	12	188
MIN	.53	.75	4.0	2.8	2.0	5.3	6.0	4.3	2.3	2.3	2.3	2.2
CFSM	.26	.85	2.43	1.38	1.52	3.05	2.87	1.76	1.19	1.87	1.08	3.08
IN.	0.30	0.95	2.80	1.59	1.58	3.53	3.21	2.02	1.33	2.16	1.24	3.44

CAL YR 1984 TOTAL 3990.53 MEAN 10.9 MAX 297 MIN .53 CFSM 2.87 IN. 39.07
WTR YR 1985 TOTAL 2469.12 MEAN 6.76 MAX 188 MIN .53 CFSM 1.78 IN. 24.17

01434025 BISCUIT BROOK ABOVE PIGEON BROOK, AT FROST VALLEY, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1983 to current year.
CHEMICAL DATA: 1983-85 (e).
MINOR ELEMENT DATA: 1983-85 (e).
ORGANIC DATA: 1983-85 (e)

REMARKS.--All anion and cation analysis were performed on water samples which passed through a 0.1-micrometer membrane filter.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT									
18...	1230	.64	26	6.4	10.5	10	8	<.1	2.9
NOV									
03...	0900	.95	26	6.4	4.5	11	10	<.1	3.1
05...	0001	.95	28	6.2	7.0	11	10	<.1	3.1
05...	0210	1.4	28	6.1	7.0	11	--	<.1	3.1
05...	0315	1.6	28	6.2	7.5	10	9	<.1	3.0
05...	0500	1.8	25	6.2	7.5	10	9	<.1	3.0
05...	0600	2.1	27	6.2	7.5	10	9	<.1	2.9
05...	0655	2.8	27	6.2	8.0	10	9	<.1	2.9
05...	0750	3.1	27	6.2	8.0	10	9	<.1	3.0
05...	0850	3.8	28	6.3	8.0	11	10	<.1	3.1
05...	0851	3.8	28	6.3	8.0	11	10	<.1	3.1
05...	1000	4.8	28	6.3	8.0	11	10	<.1	3.2
05...	1110	5.7	29	6.3	8.0	11	10	<.1	3.3
05...	1200	5.9	30	6.5	8.0	11	10	<.1	3.2
05...	1235	5.4	27	6.4	8.5	11	10	<.1	3.3
05...	1310	5.1	30	6.3	9.0	12	11	<.1	3.4
05...	1410	4.9	30	6.4	9.0	12	11	<.1	3.4
05...	1540	4.3	30	6.4	9.0	11	10	<.1	3.3
12...	1200	2.1	26	6.4	--	11	9	<.1	3.3
21...	1530	1.7	--	6.4	--	11	--	<.1	3.3
27...	1400	1.7	--	6.5	3.5	11	--	<.1	3.2
29...	1355	44	--	5.8	--	12	11	<.1	3.6
DEC									
05...	1550	5.3	28	6.7	1.0	11	8	<.1	3.3
12...	0730	5.0	26	6.2	2.0	11	9	<.1	3.3
18...	1040	10	21	6.3	3.0	10	--	<.1	3.1
22...	0800	22	27	6.1	--	10	9	<.1	2.9
JAN									
01...	1345	14	21	6.5	3.0	11	--	<.1	3.1
08...	1300	5.7	24	6.1	1.0	11	--	<.1	3.2
15...	1245	5.1	28	6.3	2.0	9	--	<.1	2.5
21...	1745	3.5	28	6.3	.0	11	10	<.1	3.1
29...	0915	2.9	26	6.4	2.0	11	--	<.1	3.3
MAR									
05...	1045	16	20	5.6	2.0	11	10	<.1	3.2
05...	1430	13	27	5.9	--	10	9	<.1	3.1
07...	1410	11	26	6.2	--	11	10	<.1	3.2
11...	2030	6.4	30	6.1	2.0	10	9	<.1	3.1
11...	2230	6.7	28	6.3	2.0	11	8	<.1	3.1
12...	0330	20	28	6.1	1.0	10	9	<.1	3.0
12...	0930	70	27	5.7	.5	10	--	<.1	2.9
12...	1130	80	27	5.7	.5	10	--	<.1	3.0
12...	1300	67	28	5.7	1.0	10	9	<.1	3.0
12...	1510	54	--	5.5	1.5	10	--	<.1	3.0
12...	1705	46	29	5.5	1.5	10	--	<.1	3.0
12...	1905	40	29	5.5	1.0	10	--	<.1	3.1
12...	2220	33	30	5.5	1.0	10	--	<.1	3.1
13...	1030	20	29	5.9	2.0	10	9	<.1	3.1
26...	0935	7.0	28	6.2	1.0	11	9	<.1	3.1
29...	0545	34	27	5.7	4.5	10	--	<.1	3.0
31...	1600	17	27	5.9	3.0	10	10	<.1	2.9

01434025 BISCUIT BROOK ABOVE PIGEON BROOK, AT FROST VALLEY NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT									
18...	.70	.60	.26	1.0	6.8	.90	--	--	2.3
NOV									
03...	.67	.60	.27	1.0	7.3	1.0	.05	<.01	1.8
05...	.69	.60	.26	2.6	7.3	1.0	.05	.01	2.0
05...	.71	.60	.29	1.6	--	--	--	--	1.8
05...	.65	.50	.32	2.1	7.2	1.0	.04	<.01	1.7
05...	.67	.60	.34	1.8	7.3	1.0	.05	<.01	1.7
05...	.65	.50	.36	1.8	7.0	.98	.04	.01	1.7
05...	.67	.60	.38	2.0	6.6	.97	.05	<.01	1.7
05...	.68	.60	.39	2.0	7.0	.97	.05	<.01	1.8
05...	.71	.60	.40	2.0	7.1	1.0	.05	<.01	1.9
05...	.68	.60	.40	2.0	7.1	.99	.05	.01	1.9
05...	.69	.50	.40	1.9	7.4	1.1	.05	.01	2.0
05...	.75	.60	.41	2.2	7.4	1.1	.05	.01	2.1
05...	.70	.50	.39	2.4	8.7	1.6	<.10	<.01	2.1
05...	.75	.60	.39	1.8	7.5	1.1	.05	.01	2.1
05...	.78	.60	.38	1.8	7.2	1.1	.05	<.01	2.2
05...	.76	.60	.37	1.8	7.5	1.1	.05	.01	2.2
05...	.72	.60	.35	2.0	7.4	1.1	.04	.01	2.2
12...	.73	.60	.26	2.0	7.4	.98	.05	.01	2.1
21...	.70	.60	.18	1.8	7.5	.89	.04	.01	2.0
27...	.70	.60	.18	1.6	7.3	.88	.04	.01	1.8
29...	.80	.50	.53	.50	6.9	1.0	.05	<.03	2.1
DEC									
05...	.72	.50	.24	--	7.0	.82	.04	.01	2.4
12...	.73	.50	.22	1.8	7.2	.80	.04	.01	2.2
18...	.60	.40	.21	.60	7.3	.75	.04	.01	1.9
22...	.60	.30	.21	1.0	6.7	.65	.04	.01	1.5
JAN									
01...	.70	.50	.22	1.0	7.0	.71	.05	.10	2.2
08...	.70	.40	.17	1.0	5.9	.55	.03	.01	2.2
15...	.60	.40	.14	2.7	5.9	.47	.03	<.01	2.1
21...	.70	.40	.19	.70	7.0	.71	.04	<.01	2.0
29...	.70	.50	.18	1.8	6.1	.60	.03	.01	2.4
FEB									
05...	.70	.60	.17	2.2	6.9	.76	.04	.02	2.4
12...	.70	.50	.18	2.4	6.7	.69	.05	.02	2.4
19...	.74	.49	.21	2.1	7.1	.77	.04	.02	2.3
23...	.70	.50	.21	1.8	6.9	.72	.04	.02	2.1
23...	.70	.50	.20	1.8	6.8	.72	.03	.02	2.0
23...	.70	.50	.19	1.0	7.1	.76	.03	.02	2.1
24...	.70	.50	.19	1.3	6.7	.70	.04	.02	2.1
24...	.70	.40	.20	1.2	6.6	.70	.04	.02	2.0
24...	.70	.40	.30	.70	6.3	.67	.05	.02	1.9
24...	.70	.40	.29	.80	6.3	.67	.03	.02	1.9
25...	.70	.40	.33	.60	6.1	.66	.03	.02	1.9
25...	.70	.40	.30	.30	6.2	.65	.04	.02	1.9
25...	.70	.40	.27	.60	6.1	.65	.03	.02	1.9
26...	.70	.50	.23	.60	6.4	.65	.04	.02	2.0
MAR									
05...	.70	.42	.23	1.0	6.8	.74	.05	.01	1.9
05...	.60	.38	.22	.90	6.6	.71	.04	.02	1.8
07...	.70	.40	.20	1.0	6.8	.73	.04	.01	2.0
11...	.60	.39	.21	1.8	6.8	.69	.04	.01	1.9
11...	.70	.42	.21	1.2	6.8	.69	.04	.01	1.9
12...	.66	.39	.72	1.0	6.5	.67	.05	.01	1.8
12...	.63	.33	.29	.60	6.0	.60	.04	.01	1.6
12...	.64	.36	.36	.50	6.0	.59	.05	.01	1.7
12...	.65	.39	.24	.70	6.5	.69	.04	.01	1.8
12...	.65	.36	.30	.70	6.2	.62	.04	.01	1.7
12...	.65	.36	.29	.20	6.2	.62	.04	.01	1.7
12...	.65	.37	.27	.30	6.2	.63	.04	.01	1.8
12...	.65	.37	.25	.20	6.3	.64	.05	.01	1.8
13...	.65	.37	.23	.30	6.4	.65	.04	.01	1.8
26...	.70	.42	.19	1.4	6.9	.69	.04	.02	2.0
29...	.63	.37	.23	.30	5.7	.55	.06	.02	1.7
31...	.63	.37	.22	.50	6.0	.59	.04	.02	1.7

DELAWARE RIVER BASIN

01434025 BISCUIT BROOK ABOVE PIGEON BROOK, AT FROST VALLEY NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
OCT								
18...	16	--	.011	<.002	30	7	2	1.4
NOV								
03...	16	.10	<.005	<.002	30	<3	2	3.0
05...	16	.13	<.005	<.002	20	4	2	1.4
05...	--	--	<.005	<.002	30	7	2	1.6
05...	16	.14	<.005	<.002	20	4	4	1.9
05...	16	.13	.005	<.002	30	7	2	1.9
05...	15	.14	<.005	<.002	40	6	4	2.7
05...	15	.13	<.005	.002	30	7	6	14
05...	16	.14	<.005	<.002	30	8	3	2.6
05...	16	.17	<.005	<.002	50	9	7	3.2
05...	16	.17	<.005	<.002	50	8	7	4.2
05...	17	.19	<.005	<.002	50	7	8	3.6
05...	17	.21	.007	.002	50	7	8	4.5
05...	18	--	<.005	<.002	50	6	9	3.4
05...	17	.22	<.005	<.002	50	6	9	3.2
05...	17	.23	<.005	.002	40	6	7	3.1
05...	18	.23	<.005	<.002	40	5	6	3.2
05...	17	.22	<.005	.002	40	6	8	2.6
12...	18	.23	<.005	<.002	30	<3	7	--
21...	--	.30	<.005	<.002	30	3	4	1.8
27...	--	.32	<.005	<.002	30	3	3	.90
29...	20	.92	<.005	<.002	150	13	53	4.1
DEC								
05...	17	--	<.005	<.002	40	<3	4	1.6
12...	18	.39	.011	<.002	30	<3	<1	1.4
18...	--	.43	<.005	<.002	60	3	4	--
22...	15	.40	.003	<.001	70	5	14	--
JAN								
01...	--	.41	<.005	<.002	60	7	7	--
08...	--	.28	<.005	<.002	40	5	5	--
15...	--	.23	.006	<.002	30	<3	4	--
21...	16	.38	.005	<.001	40	<3	1	1.3
29...	--	.32	.004	<.001	30	<3	<1	--
FEB								
05...	--	.43	.017	<.001	20	6	4	--
12...	17	.39	.017	<.001	10	3	<1	--
19...	18	.44	.009	<.001	30	<2	2	.80
23...	17	.49	.006	.005	30	<3	<1	--
23...	17	.54	.005	.004	30	4	6	--
23...	18	.49	.007	.005	30	4	2	--
24...	--	.74	.004	.003	40	4	7	--
24...	--	.76	.003	.004	50	4	6	--
24...	--	1.0	.007	.004	100	5	27	1.9
24...	--	1.1	.006	.005	110	8	34	--
25...	--	1.3	.006	.006	130	8	49	--
25...	--	1.3	.005	.004	140	8	49	--
25...	--	1.3	.004	.005	120	5	38	--
26...	--	1.1	.007	.005	90	4	21	--
MAR								
05...	18	.74	.010	.001	60	<2	13	--
05...	17	.72	.002	.001	60	<2	12	--
07...	18	.65	.004	<.001	40	<2	10	1.8
11...	17	.50	.012	<.001	40	<2	5	7.4
11...	18	.57	.008	.001	40	<2	5	--
12...	17	.65	.009	.001	60	<2	13	1.6
12...	--	.79	.008	.003	110	5	31	2.6
12...	--	.88	.011	.001	120	8	40	9.9
12...	17	.63	.021	.002	50	5	10	1.2
12...	--	.99	.011	.002	140	8	48	2.2
12...	--	1.0	.007	.001	130	<2	45	2.4
12...	--	1.0	.010	.002	140	9	41	2.8
12...	--	1.0	.010	.003	130	7	37	2.0
13...	18	.93	.007	.001	90	3	23	1.6
26...	17	.45	.003	<.001	40	2	5	--
29...	--	.82	.008	<.001	130	6	32	2.5
31...	15	.55	.006	<.001	80	<2	14	1.7

01434025 BISCUIT BROOK ABOVE PIGEON BROOK, AT FROST VALLEY NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
APR									
02...	0930	13	26	6.0	2.0	10	9	<.1	2.9
09...	0915	13	25	6.0	2.0	10	--	<.1	3.1
16...	1130	9.7	22	6.1	7.0	10	9	<.1	3.0
23...	0940	8.1	27	6.3	11.0	11	--	<.1	3.1
30...	0940	6.0	22	6.3	7.0	11	--	<.1	3.1
MAY									
03...	0730	8.8	28	--	--	10	9	<.1	3.0
03...	1400	9.7	24	6.2	--	10	7	<.1	2.9
07...	1200	6.4	23	6.4	9.0	10	--	<.1	3.0
13...	2000	6.0	28	6.0	14.5	11	9	<.1	3.1
17...	2315	7.8	27	6.4	--	10	--	<.1	3.1
18...	0740	25	27	6.3	--	10	9	<.1	3.1
18...	1155	19	22	6.0	10.5	10	--	<.1	3.0
18...	1815	13	25	6.3	11.0	10	--	<.1	3.1
19...	1540	9.1	21	6.4	10.0	10	9	<.1	3.1
21...	1000	7.0	23	6.2	10.0	10	9	<.1	3.1
28...	1030	6.0	27	6.3	--	11	10	<.1	3.2
JUN									
04...	0925	5.3	28	6.6	--	11	9	<.1	3.1
29...	2230	11	28	6.8	--	11	9	<.1	3.2
JUL									
16...	0945	19	24	6.1	--	10	9	<.1	2.9
23...	1055	5.3	25	6.2	13.0	11	9	<.1	3.1
31...	1140	6.8	24	6.4	--	10	9	<.1	3.1
31...	1515	8.1	23	6.4	--	11	10	<.1	3.3
31...	1730	26	24	6.3	--	10	--	<.1	3.0
31...	2230	30	24	6.2	--	10	--	<.1	2.8
AUG									
01...	0630	15	23	6.3	--	10	--	<.1	3.0
13...	1004	3.7	25	6.5	13.0	11	8	<.1	3.1
27...	1025	3.2	22	6.2	15.0	10	--	<.1	3.1
SEP									
03...	1445	2.9	27	6.4	--	10	6	.1	3.0
10...	0940	5.7	23	6.6	15.0	11	9	<.1	3.1
24...	1030	4.4	24	6.6	13.5	10	8	<.1	3.3
26...	2101	2.9	28	6.6	--	11	8	--	3.1
27...	0930	38	22	6.4	--	11	--	--	3.1
27...	1110	40	24	6.2	--	--	--	--	--
27...	1230	150	21	6.0	--	9	7	--	2.6
27...	1304	241	23	5.7	--	8	6	--	2.4
27...	1505	747	22	4.9	--	--	--	--	--
27...	1555	662	23	4.9	--	7	7	.1	2.1
27...	1845	286	24	4.9	--	--	--	--	--
28...	0945	54	20	5.4	12.0	9	--	<.1	2.6
28...	1530	38	20	5.6	--	8	7	--	2.4

01434025 BISCUIT BROOK ABOVE PIGEON BROOK, AT FROST VALLEY NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
APR									
02...	.66	.39	.21	.60	6.6	.67	.10	.04	1.8
09...	.65	.40	.20	-.20	7.2	.63	.05	.01	1.9
16...	.70	.40	.21	1.0	7.2	.64	.05	.01	1.8
23...	.70	.40	.23	.80	7.0	.67	.06	.02	1.9
30...	.70	.40	.20	1.8	6.8	.67	.05	<.01	1.8
MAY									
03...	.70	.40	.25	1.2	6.7	.67	.05	.01	1.7
03...	.60	.40	.25	1.5	6.5	.66	.05	<.01	1.6
07...	.60	.40	.22	1.2	7.0	.68	.05	<.01	1.8
13...	.70	.40	.39	1.6	7.0	.67	.05	<.01	1.9
17...	.60	.40	.25	2.1	6.7	.69	.04	<.01	1.9
18...	.63	.42	.23	1.3	6.8	.71	.05	<.01	2.1
18...	.62	.41	.20	1.0	6.8	.67	.05	<.01	2.0
18...	.60	.40	.22	1.4	6.6	.67	.05	<.01	2.0
19...	.62	.41	.21	1.1	6.8	.70	.04	<.01	2.0
21...	.63	.41	.20	1.3	6.9	.70	.06	.01	2.0
28...	.70	.50	.20	1.7	6.8	.66	.06	<.01	2.0
JUN									
04...	.70	.40	.21	1.8	6.9	.67	.07	.01	2.2
29...	.70	.50	.18	2.1	6.2	.58	.06	.02	2.1
JUL									
16...	.60	.50	.15	1.0	6.9	.52	.04	.01	1.9
23...	.70	.40	.16	1.6	6.9	.65	.06	.01	2.5
31...	.66	.40	.20	1.8	7.0	.62	.05	.01	2.3
31...	.70	.40	.19	1.7	7.1	.62	.05	.01	2.1
31...	.63	.40	.19	--	6.8	.56	.04	.02	2.1
31...	.63	.40	.15	1.2	6.9	.49	.05	.02	1.9
AUG									
01...	.60	.60	.17	1.1	7.1	.51	.05	.02	1.9
13...	.67	.44	.15	1.7	6.9	.65	.06	.02	2.5
27...	.66	.45	.17	1.6	7.8	.60	.50	<.01	2.4
SEP									
03...	.67	.40	.18	1.6	6.8	.69	.06	<.01	2.3
10...	.69	.41	.22	1.8	6.4	.53	.06	.01	2.4
24...	.46	.46	.27	2.0	6.6	.69	.07	.01	2.5
26...	.70	.50	--	2.5	--	--	--	--	2.6
27...	.70	.50	--	1.8	--	--	--	--	2.2
27...	--	--	--	1.8	--	--	--	--	1.9
27...	.58	.40	--	1.8	--	--	--	--	1.6
27...	.54	.30	--	2.0	--	--	--	--	1.4
27...	--	--	--	.10	--	--	--	--	1.3
27...	.39	.23	.44	-.40	4.9	.37	.10	.01	1.3
27...	--	--	--	-.50	--	--	--	--	1.6
28...	.52	.28	.22	.10	6.3	.43	.06	.02	1.7
28...	.46	.30	--	.40	--	--	--	--	1.9

01434025 BISCUIT BROOK ABOVE PIGEON BROOK, AT FROST VALLEY NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
APR								
02...	16	.55	.010	<.001	70	<2	11	--
09...	--	.50	.005	<.001	50	<3	10	--
16...	16	.37	.009	.001	50	3	5	--
23...	--	.42	.003	<.001	50	<3	5	--
30...	--	.30	.005	.002	30	<3	<1	--
MAY								
03...	16	.35	.004	.004	60	3	5	--
03...	16	.36	.006	<.001	40	8	4	--
07...	--	.34	<.001	<.001	40	<3	<1	--
13...	16	.28	.009	.004	40	<2	5	1.9
17...	--	.33	.005	<.001	40	<3	3	1.5
18...	17	.39	.004	.003	70	<2	6	2.0
18...	--	.37	.014	.003	70	<2	6	--
18...	--	.36	.006	.001	100	3	9	2.4
19...	16	.36	.009	.003	60	<2	5	--
21...	17	.33	.010	.004	40	<2	3	--
28...	16	.29	.011	.001	40	<3	2	--
JUN								
04...	17	.26	.012	.003	40	<2	1	--
29...	16	.32	.012	.004	60	5	<1	--
JUL								
16...	15	.16	.010	.001	90	5	7	2.3
23...	17	.23	.002	<.001	40	5	<1	--
31...	16	.30	.009	.002	40	6	4	1.7
31...	17	.31	.009	.002	40	4	4	--
31...	--	.28	.009	.002	50	13	5	2.3
31...	--	.25	.009	.002	90	13	10	--
AUG								
01...	--	.19	.009	.002	80	7	6	2.8
13...	17	.25	.001	<.001	30	<2	<1	--
27...	--	.23	.002	<.001	40	<2	1	--
SEP								
03...	17	.18	.024	<.010	30	4	<1	--
10...	16	.25	.005	.002	50	2	2	--
24...	17	.24	<.001	.003	40	4	1	--
26...	--	--	--	--	40	10	3	--
27...	--	--	--	--	90	22	12	--
27...	--	--	--	--	90	16	11	4.8
27...	--	--	--	--	170	29	20	--
27...	--	--	--	--	230	52	49	10
27...	--	--	--	--	340	58	99	--
27...	10	--	.013	.002	320	46	98	10
27...	--	--	--	--	290	61	85	--
28...	--	--	<.001	.007	160	13	39	--
28...	--	--	--	--	150	10	33	3.8

0143402705 PIGEON BROOK AT MOUTH, AT FROST VALLEY, NY

LOCATION.--Lat 41°59'13", long 74°30'11", Ulster County, Hydrologic Unit 02040104, at bridge on private road, 250 ft upstream from Biscuit Brook, at Frost Valley, and 0.4 mi north of West Branch Road.

DRAINAGE AREA.--2.67 mi^2.

PERIOD OF RECORD.--April 1983 to current year.
CHEMICAL DATA: 1983 (a), 1984-85 (d).
MINOR ELEMENT DATA: 1983 (a), 1984-85 (d).
ORGANIC DATA: OC--1983 (a), 1984 (d), 1985 (c).

REMARKS.--All cation analysis were performed on water samples which passed through a 0.1-micrometer membrane filter; while anion analysis were performed on water samples which passed through a 0.4-micrometer membrane filter.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV									
02...	1815	1.2	32	6.4	7.0	14	10	<.1	4.5
29...	1430	--	--	6.4	--	13	12	<.1	4.2
DEC									
05...	1530	4.0	33	6.7	1.0	12	8	<.1	3.9
JAN									
23...	1020	2.7	33	6.7	.5	13	11	<.1	4.0
MAR									
12...	0730	32	26	6.1	--	10	9	<.1	3.2
29...	1845	21	27	6.2	--	11	10	<.1	3.6
MAY									
14...	1215	2.8	29	6.8	14.0	12	10	<.1	3.9
18...	0800	11	28	6.7	10.0	12	11	<.1	3.9
JUL									
16...	2045	5.6	24	6.6	15.0	11	--	<.1	3.6
SEP									
03...	1430	1.9	28	6.8	--	13	7	.2	4.0

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV									
02...	.75	.50	.33	4.6	8.8	1.2	<.10	<.01	2.6
29...	.70	.50	.53	1.6	7.3	1.0	.05	.01	2.1
DEC									
05...	.64	.40	.25	3.2	7.1	.78	.04	.01	2.4
JAN									
23...	.70	.40	.21	3.2	7.3	.70	.04	.01	1.9
MAR									
12...	.50	.33	.29	1.6	6.0	.58	.04	.01	1.6
29...	.55	.38	.25	1.7	5.7	.54	.04	.02	1.6
MAY									
14...	.60	.40	.22	3.2	7.0	.72	.06	<.01	2.0
18...	.60	.40	.22	3.2	6.7	.62	.05	<.01	2.0
JUL									
16...	.60	.40	.17	3.0	7.4	.50	.05	<.01	2.2
SEP									
03...	.64	.40	.17	1.9	6.7	.74	.04	<.01	2.3

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
NOV								
02...	22	.12	<.005	<.002	20	5	2	1.9
29...	20	.68	<.005	<.002	110	13	17	18
DEC								
05...	20	.37	<.005	<.002	30	3	<1	1.6
JAN								
23...	18	.38	.004	.002	30	7	<1	1.4
MAR								
12...	16	.50	.006	.003	90	19	14	3.1
29...	17	.83	.008	<.001	80	5	13	--
MAY								
14...	17	.27	.010	.002	30	<3	1	1.8
18...	17	.31	.007	.002	70	17	3	3.8
JUL								
16...	--	.17	.007	<.001	50	11	2	2.9
SEP								
03...	20	.24	.057	<.010	30	<3	<1	--

0143410505 HIGH FALLS BROOK AT FROST VALLEY, NY

LOCATION.--Lat 41°58'33", long 74°31'19", Ulster County, Hydrologic Unit 02040104, at bridge on West Branch Road, 0.1 mi upstream from mouth, and 1.0 southwest of Frost Valley.

DRAINAGE AREA.--2.76 mi².

PERIOD OF RECORD.--August 1983 to current year.
CHEMICAL DATA: 1983 (a), 1984 (c), 1985 (d).
MINOR ELEMENT DATA: 1983 (a), 1984 (c), 1985 (d).
ORGANIC DATA: OC--1983 (a), 1984 (c), 1985 (d).

REMARKS.--All cation analysis were performed on water samples which passed through a 0.1-micrometer membrane filter; while anion analysis were performed on water samples which passed through a 0.4-micrometer membrane filter.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)
NOV									
03...	1015	.98	42	6.9	4.5	18	10	<.1	6.1
DEC									
05...	1420	5.0	22	6.7	-.5	15	9	<.1	5.0
JAN									
21...	1630	5.0	36	6.8	.0	15	11	<.1	4.9
FEB									
20...	1645	2.5	36	7.1	.5	17	11	<.1	5.5
24...	2015	17	34	6.0	.5	13	11	<.1	4.4
25...	0500	21	33	5.9	.5	13	12	<.1	4.3
25...	0910	13	34	5.9	.5	13	12	<.1	4.3
MAR									
12...	0700	25	29	6.4	--	12	9	<.1	3.8
12...	0945	--	28	6.2	--	11	10	<.1	3.5
12...	1445	--	28	6.2	--	11	7	<.1	3.6
12...	2115	22	30	6.4	--	12	11	<.1	3.9
29...	1715	15	30	6.7	8.0	12	10	<.1	3.9
MAY									
14...	1330	5.0	35	6.9	15.5	15	8	<.1	4.9
18...	0830	9.8	35	6.9	10.0	14	11	<.1	4.6
JUL									
16...	1800	8.0	33	6.7	15.0	13	10	<.1	4.4
SEP									
03...	1510	2.8	38	7.2	--	16	7	.1	5.3
27...	1651	9.0	22	5.7	--	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	BROMIDE DIS-SOLVED (MG/L AS BR)	SILICA, DIS-SOLVED (MG/L AS SIO2)
NOV									
03...	.77	.50	.31	9.1	7.5	.82	.05	<.01	2.7
DEC									
05...	.60	.40	.25	4.5	7.1	.72	.04	.01	2.4
JAN									
21...	.60	.40	.20	5.0	7.2	.64	.03	<.01	2.0
FEB									
20...	.70	.40	.23	--	7.4	.67	.06	.01	2.5
24...	.60	.40	.27	3.6	7.1	.64	.03	.02	2.1
25...	.50	.40	.25	2.9	6.5	.61	.05	.02	2.1
25...	.60	.40	.24	2.0	6.6	.63	.03	.02	2.2
MAR									
12...	.50	.33	.32	2.8	6.2	.59	.03	.01	1.7
12...	.50	.30	.36	1.7	6.0	.55	.04	.01	1.6
12...	.60	.32	.32	.80	6.1	.57	.04	.01	1.7
12...	.60	.33	.24	1.4	6.3	.60	.04	.01	1.9
29...	.53	.32	.21	2.1	6.3	.54	.06	.02	1.7
MAY									
14...	.60	.30	.19	5.3	7.1	.59	.05	<.01	2.1
18...	.60	.40	.25	4.9	6.9	.58	.05	<.01	2.1
JUL									
16...	.59	.40	.18	4.2	6.9	.49	.05	.01	2.4
SEP									
03...	.69	.40	.20	7.0	6.7	.62	.05	<.01	2.4
27...	--	--	--	1.1	--	--	--	--	1.5

01434105O5 HIGH FALLS BROOK AT FROST VALLEY, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
NOV								
03...	24	.16	<.005	<.002	10	4	<1	1.9
DEC								
05...	22	.41	<.005	<.002	20	<3	<1	--
JAN								
21...	20	.38	.007	.002	20	<3	<1	1.2
FEB								
20...	21	--	<.001	.004	20	4	1	1.0
24...	20	.68	.005	.006	60	12	6	1.8
25...	19	.78	.005	.005	60	10	7	--
25...	19	.82	.005	.004	60	12	8	--
MAR								
12...	18	.56	.009	.001	70	15	11	3.0
12...	16	.61	.006	.003	100	17	18	3.4
12...	20	.78	.011	.002	100	7	27	3.3
12...	18	.83	.003	.001	60	<2	13	1.9
29...	18	.75	.008	<.001	40	2	5	8.4
MAY								
14...	22	.33	.015	.003	20	>3	<1	1.4
18...	19	.30	.005	.003	40	12	<1	2.6
JUL								
16...	18	.27	.009	.004	40	9	<1	2.4
SEP								
03...	22	--	<.001	<.010	20	5	<1	--
27...	--	--	--	--	240	70	50	--

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 downstream from covered bridge, 300 ft upstream from small tributary, 2.2 mi downstream from confluence of East and West Branches, and 2.2 mi southwest of Claryville.

DRAINAGE AREA.--66.6 mi^2.

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

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,522.37 ft above National Geodetic Vertical Datum of 1929. Prior to October 1, 1974, at datum 6.00 ft higher. Oct. 1, 1974 to Sept. 30, 1979 at datum 5.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 12, Feb. 15-16, 20-21, Mar. 2-3, and Apr. 6. Records fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--34 years, 187 ft^3/s, 38.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,600 ft^3/s Mar. 21, 1980; maximum gage height, 13.83 ft present datum, July 10, 1952; minimum discharge, 6.8 ft^3/s Sept. 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 25, 1950, reached a stage of about 15.0 ft present datum, from floodmarks, discharge, 23,400 ft^3/s by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 27	1600	*7,540	*11.02	No other peak greater than base discharge.			

Minimum discharge, 21 ft^3/s Oct. 19, 21, gage height, 5.10 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	25	167	198	62	130	222	106	131	95	374	97
2	31	24	135	213	60	120	208	102	106	78	195	80
3	29	24	128	182	58	110	183	130	93	70	159	73
4	28	24	130	169	58	103	178	121	87	67	141	67
5	26	47	109	150	58	183	224	108	86	62	129	64
6	24	52	110	139	60	143	305	110	86	60	118	63
7	22	38	93	142	56	133	277	110	79	61	116	60
8	23	33	86	126	56	127	244	99	77	56	178	57
9	23	30	92	94	54	120	219	94	79	53	125	116
10	23	43	88	88	54	116	196	92	74	54	109	139
11	23	47	100	86	54	116	186	89	67	54	101	103
12	24	40	96	86	56	683	178	93	68	423	95	83
13	23	37	110	92	95	416	168	176	70	577	87	75
14	23	35	153	98	73	277	168	119	66	208	88	70
15	22	34	129	94	62	222	168	105	62	216	84	66
16	22	35	127	92	56	189	165	99	79	310	106	63
17	22	35	135	90	56	180	160	106	83	185	84	61
18	22	34	143	86	54	162	151	250	83	148	75	60
19	22	32	143	84	53	158	151	181	70	128	73	58
20	23	30	167	80	52	152	173	146	62	114	76	56
21	22	30	142	78	52	146	163	129	60	116	70	55
22	29	30	250	76	54	135	151	119	55	188	66	53
23	59	31	223	74	72	133	146	110	66	121	64	53
24	37	31	176	72	147	138	140	105	63	105	61	58
25	29	31	154	68	294	127	136	100	55	97	106	59
26	31	31	126	66	189	118	129	94	51	202	126	54
27	32	31	131	64	163	125	123	92	51	241	93	1760
28	29	33	145	64	143	216	119	138	55	145	74	665
29	28	457	284	62	---	311	115	140	188	123	66	288
30	28	246	253	60	---	277	110	105	138	112	79	208
31	25	---	197	60	---	228	---	96	---	204	146	---
TOTAL	831	1650	4522	3133	2301	5794	5256	3664	2390	4673	3464	4764
MEAN	26.8	55.0	146	101	82.2	187	175	118	79.7	151	112	159
MAX	59	457	284	213	294	683	305	250	188	577	374	1760
MIN	22	24	86	60	52	103	110	89	51	53	61	53
CFSM	.40	.83	2.19	1.52	1.23	2.81	2.63	1.77	1.20	2.27	1.68	2.39
IN.	0.46	0.92	2.53	1.75	1.29	3.24	2.94	2.05	1.33	2.61	1.93	2.66

CAL YR 1984 TOTAL 67854 MEAN 185 MAX 4900 MIN 22 CFSM 2.78 IN. 37.90
WTR YR 1985 TOTAL 42442 MEAN 116 MAX 1760 MIN 22 CFSM 1.74 IN. 23.71

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 downstream from Neversink Dam and State Highway 55, 1.7 mi southwest of Neversink, and 2.6 mi upstream from Wynkoop Brook.

DRAINAGE AREA.--92.6 mi^2.

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WDR NY-72-1: 1961 (M), 1968 (M). WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,255.24 ft Board of Water Supply, City of New York datum. Prior to Jan. 17, 1953, water-stage recorder at site 650 ft downstream at datum 0.20 ft lower. Jan. 17, 1953 to Apr. 16, 1954, water-stage recorder at present site at datum 0.41 ft higher.

REMARKS.--No estimated daily discharges. Records good. Subsequent to June 1953, entire flow from 92.5 mi^2 of drainage area controlled by Neversink 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 release and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,300 ft^3/s Nov. 25, 1950, from rating curve extended above 2,600 ft^3/s on basis of contracted-opening and critical-depth measurements of peak flow; maximum gage height, 11.65 ft Sept. 27, 1942, site and datum then in use; minimum discharge, no flow for all or part of each day Sept. 22-24, Oct. 26-29, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 73 ft^3/s July 6, gage height, 3.35 ft; minimum, 4.2 ft^3/s Mar. 25, gage height, 2.43 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	41	23	24	11	5.2	4.8	15	15	14	17	15
2	46	24	23	24	22	5.1	4.8	15	15	14	17	15
3	46	25	23	23	22	5.0	4.8	15	15	25	17	15
4	46	25	23	24	22	5.2	4.7	14	15	47	17	15
5	47	25	23	23	22	5.3	4.7	14	15	54	19	15
6	47	25	23	23	23	5.2	4.8	15	14	59	21	24
7	48	25	22	23	22	5.2	7.7	14	15	42	24	37
8	48	25	23	22	22	5.2	15	14	15	44	21	29
9	49	25	23	22	22	4.8	14	14	15	46	21	23
10	49	25	23	22	22	4.8	15	14	15	46	22	16
11	49	25	23	22	22	4.8	15	14	15	45	22	15
12	48	24	23	22	23	6.0	14	14	15	44	22	15
13	47	24	23	22	23	5.0	14	14	15	51	19	15
14	48	23	24	22	15	4.9	14	14	15	60	20	24
15	49	24	24	22	5.2	4.8	14	14	15	54	15	32
16	47	24	24	22	5.2	4.8	14	15	15	31	15	15
17	47	24	24	23	5.2	4.8	14	23	15	15	18	15
18	47	24	24	23	5.2	4.8	14	25	14	29	15	15
19	48	24	23	23	5.2	4.7	14	14	15	44	15	15
20	49	23	23	23	10	4.7	14	14	15	45	19	15
21	53	23	24	22	22	4.7	14	14	26	47	20	15
22	51	24	24	23	13	4.7	14	14	52	31	20	15
23	47	24	24	23	5.2	4.7	14	14	51	15	24	15
24	47	24	24	23	5.2	4.8	14	15	49	15	29	15
25	46	24	23	23	5.2	4.6	14	14	47	15	25	15
26	47	24	23	22	5.2	4.7	14	24	42	25	15	15
27	47	24	23	23	5.1	4.7	14	32	42	26	15	16
28	47	24	23	22	5.1	4.8	15	16	34	26	15	15
29	47	24	23	22	---	4.7	15	15	25	24	20	15
30	47	24	23	22	---	4.7	15	15	27	21	25	15
31	47	---	24	16	---	4.8	---	15	---	20	15	---
TOTAL	1477	743	722	695	395.0	152.2	364.3	493	693	1074	599	531
MEAN	47.6	24.8	23.3	22.4	14.1	4.91	12.1	15.9	23.1	34.6	19.3	17.7
MAX	53	41	24	24	23	6.0	15	32	52	60	29	37
MIN	46	23	22	16	5.1	4.6	4.7	14	14	14	15	15

CAL YR 1984 TOTAL 23135.6 MEAN 63.2 MAX 2730 MIN 4.2
WTR YR 1985 TOTAL 7938.5 MEAN 21.7 MAX 60 MIN 4.6

01436500 NEVERSINK RIVER AT WOODBOURNE, NY

LOCATION.--Lat 41°45'24", long 74°35'52", Sullivan County, Hydrologic Unit 02040104, on left bank 0.2 mi downstream from highway bridge at Woodbourne, 0.3 mi upstream from outlet of South Wind Lake. Water-quality sampling site at discharge station.

DRAINAGE AREA.--113 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to September 1973, October 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,180 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Sept. 20, 1938, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Nov. 16-20, Dec. 7-8, Jan. 3 to Feb. 23, and Mar. 5, 7. Records good except those for Dec. 7-8, Jan. 3 to Feb. 23, and Mar. 5, 7, which are poor. Subsequent to June 1953, entire flow from 92.5 mi^2 of drainage area controlled by Neversink Reservoir. 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. Several measurements of water temperature were made during the year. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,000 ft^3/s Nov. 26, 1950, gage height, 11.19 ft on basis of slope-area measurement; maximum gage height, 11.2 ft July 22, 1938, from floodmarks and graph based on gage readings; minimum discharge, 6.7 ft^3/s June 27, 1953; minimum gage height, 0.80 ft Aug. 25, 27, 28, 1949; minimum daily discharge, 8.2 ft^3/s June 25, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,170 ft^3/s Sept. 27, gage height, 4.05 ft; minimum, 19 ft^3/s June 15, July 2, Aug. 18, 19, 23, 29, Sept. 4, 5, 21, 22, 23, 24, 25, 26; minimum gage height, 1.16 ft Sept. 26; minimum daily discharge, 19 ft^3/s Sept. 23, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	50	52	60	32	51	45	26	46	23	108	31
2	45	30	43	58	31	47	49	27	33	20	54	25
3	44	28	46	56	30	42	38	56	28	23	41	22
4	44	28	51	52	30	51	37	42	26	52	36	21
5	45	39	42	50	30	70	38	33	26	55	35	20
6	45	33	45	48	29	54	39	36	27	68	32	25
7	47	29	42	46	29	49	34	41	26	50	39	45
8	47	28	39	44	29	47	56	32	26	49	58	33
9	48	31	36	42	29	53	51	29	25	50	47	143
10	48	28	35	40	29	49	44	28	23	50	38	82
11	47	27	39	39	29	49	42	27	20	50	34	48
12	48	27	44	39	31	393	40	26	21	51	32	34
13	45	27	50	44	42	159	38	26	24	58	28	30
14	46	27	53	56	37	105	41	24	21	64	29	29
15	48	26	47	52	34	81	41	22	20	104	23	49
16	46	26	47	49	32	68	39	22	33	80	23	26
17	46	26	45	47	30	61	37	28	26	33	23	25
18	47	26	43	45	28	53	35	119	39	31	20	22
19	48	26	47	44	27	49	36	53	28	54	20	22
20	47	26	54	43	27	45	38	38	25	53	24	21
21	54	26	51	42	27	41	35	31	24	94	25	20
22	61	26	106	40	29	37	33	28	56	261	24	20
23	61	25	69	39	54	35	33	26	57	64	23	19
24	53	25	60	38	215	34	33	25	59	45	32	21
25	51	25	58	37	189	32	32	23	56	37	47	20
26	54	25	55	36	86	29	31	24	51	59	41	19
27	52	25	68	35	71	28	29	48	47	67	29	419
28	52	25	87	34	59	34	28	70	51	49	24	160
29	53	142	67	33	---	33	28	65	34	42	21	82
30	52	69	60	33	---	31	27	37	52	35	43	62
31	52	---	68	32	---	30	---	31	---	66	53	---
TOTAL	1522	1001	1649	1353	1345	1940	1127	1143	1030	1837	1106	1595
MEAN	49.1	33.4	53.2	43.6	48.0	62.6	37.6	36.9	34.3	59.3	35.7	53.2
MAX	61	142	106	60	215	393	56	119	59	261	108	419
MIN	44	25	35	32	27	28	27	22	20	20	20	19

CAL YR 1984 TOTAL 38050 MEAN 104 MAX 3020 MIN 25
WTR YR 1985 TOTAL 16648 MEAN 45.6 MAX 419 MIN 19

01436500 NEVERSINK RIVER AT WOODBOURNE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1965, 1972, 1978 to current year.
CHEMICAL DATA: 1964 (b), 1965 (c), 1972 (a).
NUTRIENT DATA: 1964 (b), 1965 (c), 1972 (a).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July and August 1978, May 1979 to current year.

INSTRUMENTATION.--Water-temperature digital recorder since July 1978, provides one-hour-interval punches.

REMARKS.--Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum (water years 1979-83, 1985), 26.5°C June 16, 1981; minimum (water years 1980-85), 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.5°C Aug. 15; minimum, 0.0°C on many days during winter period.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	11.5	10.0	10.5	11.0	9.5	10.0	6.0	4.5	5.0	3.5	2.5	3.0
2	11.0	9.5	10.0	12.5	8.0	10.5	5.5	3.5	4.5	4.0	3.0	3.5
3	9.5	7.5	9.0	9.5	5.5	7.0	3.5	2.5	3.0	2.5	1.0	2.0
4	13.0	8.5	10.5	9.0	5.5	7.0	3.5	1.5	2.0	---	---	---
5	12.0	9.0	10.0	10.5	6.0	8.5	3.5	1.0	2.0	---	---	---
6	11.0	7.0	9.0	---	---	---	1.5	.0	1.0	---	---	---
7	11.5	7.5	9.5	---	---	---	1.0	.0	.5	---	---	---
8	12.0	10.5	11.5	---	---	---	.5	.0	.0	1.5	.0	.5
9	13.5	11.5	12.5	---	---	---	2.5	.5	1.0	1.0	.5	.5
10	13.5	12.0	12.5	---	---	---	3.0	1.5	2.5	.5	.5	.5
11	14.5	10.5	12.5	---	---	---	5.5	3.0	4.0	.5	.5	.5
12	14.0	10.0	12.0	---	---	---	4.5	4.0	4.5	.5	.5	.5
13	13.0	11.0	12.0	---	---	---	6.5	4.0	5.0	.5	.5	.5
14	12.0	9.5	11.0	---	---	---	5.5	3.5	4.5	.5	.5	.5
15	12.5	8.5	10.5	---	---	---	4.0	3.0	3.5	.5	.5	.5
16	13.0	9.0	10.5	---	---	---	4.5	4.0	4.0	.5	.5	.5
17	13.0	9.0	11.0	---	---	---	7.0	4.5	5.5	.5	.0	.0
18	15.5	12.0	13.0	---	---	---	5.5	3.5	4.5	.5	.0	.0
19	13.0	12.0	12.5	---	---	---	3.5	2.5	3.0	.5	.0	.5
20	15.5	12.5	13.5	---	---	---	4.5	2.5	3.0	---	---	---
21	12.5	11.0	11.5	3.5	.5	1.0	2.0	.0	1.0	---	---	---
22	13.5	11.5	12.5	4.0	.5	1.5	3.0	.0	2.0	---	---	---
23	13.0	11.5	12.5	4.5	1.0	2.5	2.5	1.0	2.0	---	---	---
24	12.0	11.0	11.5	5.5	2.0	3.0	2.5	.5	1.5	---	---	---
25	12.5	9.0	10.5	6.0	2.5	4.0	3.0	.5	2.0	---	---	---
26	13.0	11.0	12.0	6.5	2.5	4.0	1.0	.0	.5	---	---	---
27	13.5	11.5	12.5	6.5	2.5	4.0	.5	.0	.0	---	---	---
28	15.5	12.5	14.0	8.5	4.0	6.0	3.0	.5	1.0	---	---	---
29	14.5	12.0	13.5	9.0	5.0	7.0	6.0	3.0	4.5	---	---	---
30	12.5	9.5	11.0	6.0	4.0	4.5	6.0	3.0	5.0	---	---	---
31	12.5	10.5	11.0	---	---	---	3.0	1.0	2.0	---	---	---
MONTH	15.5	7.0	11.5	12.5	.5	5.5	7.0	.0	2.5	4.0	.0	1.0

01436500 NEVERSINK RIVER AT WOODBOURNE, NY--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.5	.5	---	---	---	5.5	3.5	4.5	18.0	13.5	15.5
2	.5	.5	.5	---	---	---	5.5	.0	4.0	14.5	11.0	13.0
3	.5	.0	.0	---	---	---	3.5	2.0	2.5	11.5	9.0	10.0
4	.5	.0	.0	---	---	---	9.0	1.5	5.0	15.5	7.0	11.0
5	1.0	.0	.5	---	---	---	13.0	6.0	9.5	15.0	11.0	13.0
6	.5	.5	.5	---	---	---	13.0	9.0	11.0	14.0	12.5	13.0
7	.5	.5	.5	---	---	---	11.0	7.0	9.0	16.5	11.0	13.5
8	.5	.5	.5	---	---	---	9.0	5.5	7.0	16.5	10.0	13.0
9	.5	.5	.5	---	---	---	7.5	3.0	5.0	16.5	9.0	12.5
10	.5	.5	.5	---	---	---	8.5	2.0	5.5	20.0	12.0	15.5
11	---	---	---	---	---	---	8.5	4.5	6.5	22.0	14.5	18.0
12	---	---	---	---	---	---	12.0	4.5	8.0	21.5	17.0	19.0
13	---	---	---	---	---	---	11.0	7.0	8.5	24.0	17.5	20.0
14	---	---	---	---	---	---	8.0	6.5	7.5	22.5	16.5	19.5
15	---	---	---	---	---	---	9.0	6.5	8.0	21.5	16.0	18.0
16	---	---	---	---	---	---	14.0	8.5	11.0	16.5	14.5	15.5
17	---	---	---	---	---	---	13.0	6.5	10.0	17.0	13.5	15.0
18	---	---	---	---	---	---	14.0	7.0	10.0	16.5	11.5	14.0
19	---	---	---	---	---	---	13.0	10.0	11.5	15.0	11.0	13.0
20	---	---	---	---	---	---	15.5	10.5	12.5	19.5	10.5	14.5
21	---	---	---	---	---	---	17.0	10.5	13.5	19.5	15.0	17.0
22	---	---	---	---	---	---	19.5	12.5	16.0	---	---	---
23	---	---	---	---	---	---	16.5	12.5	14.5	---	---	---
24	---	---	---	---	---	---	12.5	10.0	11.0	---	---	---
25	---	---	---	---	---	---	13.0	9.5	11.0	---	---	---
26	---	---	---	8.5	1.5	4.5	17.5	10.0	13.5	---	---	---
27	---	---	---	11.0	3.0	6.5	18.5	11.5	14.5	---	---	---
28	---	---	---	10.5	7.5	9.0	13.5	10.0	12.0	---	---	---
29	---	---	---	13.0	8.5	10.5	17.0	8.0	12.0	19.5	12.5	15.5
30	---	---	---	14.0	9.0	10.5	19.5	11.0	15.0	18.5	13.0	15.5
31	---	---	---	9.0	4.0	6.5	---	---	---	16.5	15.0	16.0
MONTH	1.0	.0	.5	14.0	1.5	8.0	19.5	.0	9.5	24.0	7.0	15.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.0	15.0	16.0	21.5	15.5	18.5	21.0	15.0	17.5	19.0	14.5	16.0
2	20.5	13.5	16.5	22.0	17.5	19.5	20.0	15.5	17.5	19.5	15.5	17.0
3	20.0	16.5	18.0	23.0	18.0	20.0	20.5	14.5	17.5	22.0	15.0	17.5
4	21.5	14.5	17.5	21.0	16.0	18.0	21.0	15.0	18.0	23.5	17.5	20.0
5	17.5	13.5	15.5	20.0	15.0	17.5	22.0	16.0	19.0	23.5	19.5	21.0
6	20.0	12.5	15.5	16.0	13.5	15.0	22.5	16.5	19.5	24.0	19.5	21.0
7	20.5	13.5	16.5	18.0	14.0	16.0	20.0	17.0	18.5	21.0	18.0	20.0
8	17.5	15.5	16.5	18.5	14.5	16.0	22.0	16.5	19.0	20.0	17.5	19.0
9	18.0	15.0	16.0	20.0	14.5	17.0	23.5	17.0	20.0	18.5	16.5	17.5
10	23.0	15.0	18.0	18.5	15.5	17.0	23.5	17.5	20.5	20.5	17.0	18.0
11	22.5	16.0	18.5	20.0	13.5	16.5	21.5	18.5	20.0	20.5	16.0	18.0
12	20.0	16.0	18.0	17.0	14.5	15.5	23.0	16.5	19.5	16.5	12.5	14.5
13	15.5	13.0	14.5	20.5	13.5	16.5	23.5	16.5	19.5	16.0	10.5	13.0
14	17.5	11.5	14.0	18.0	14.0	16.0	24.0	19.0	21.0	17.5	10.5	13.5
15	21.5	12.5	16.0	17.0	13.5	15.5	25.5	20.0	22.0	16.0	10.5	13.0
16	18.5	16.5	17.0	21.0	14.5	17.0	23.0	20.5	21.5	18.0	11.5	14.0
17	20.0	15.0	17.0	24.0	16.0	19.5	24.0	17.0	19.5	18.5	12.5	14.5
18	---	---	---	23.0	17.5	20.0	20.5	17.0	19.0	19.0	13.0	15.0
19	---	---	---	21.5	15.5	18.5	19.0	17.5	18.0	20.5	14.0	16.0
20	20.5	15.5	17.5	21.5	17.0	18.5	21.0	17.5	18.5	21.5	15.0	17.5
21	21.5	14.5	17.5	20.5	15.5	18.0	20.5	16.0	18.0	21.5	16.0	17.5
22	17.5	14.0	16.0	21.0	16.5	18.5	18.5	16.5	17.5	18.5	17.0	17.5
23	19.5	14.5	17.0	22.0	15.5	18.0	20.0	14.0	16.5	20.0	16.0	17.0
24	18.5	14.5	16.5	22.0	14.5	18.0	18.0	14.5	16.5	18.5	16.5	17.5
25	18.5	12.5	15.5	21.5	16.5	19.0	17.0	15.0	16.0	18.5	14.0	16.0
26	15.5	12.5	13.5	19.5	17.5	19.0	19.5	15.0	16.5	15.5	13.0	14.5
27	15.0	12.5	13.5	22.0	15.5	18.5	22.0	17.0	19.0	16.0	14.5	15.0
28	13.5	12.0	12.5	21.0	15.5	18.5	22.5	17.0	19.5	16.5	14.0	15.0
29	16.5	13.0	14.5	21.0	16.5	18.5	20.0	18.0	19.0	16.0	11.5	13.5
30	20.0	13.5	16.5	22.0	16.5	19.0	18.0	15.5	17.0	16.0	11.5	13.5
31	---	---	---	19.0	15.0	17.0	16.0	15.0	15.5	---	---	---
MONTH	23.0	11.5	16.0	24.0	13.5	17.5	25.5	14.0	18.5	24.0	10.5	16.5

DELAWARE RIVER BASIN

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 downstream from Basher Kill, 0.8 mi southeast of Godeffroy, 1.7 mi south of Cuddebackville, and 8.5 mi upstream from mouth.

DRAINAGE AREA.--307 mi^2.

PERIOD OF RECORD.--August to October 1903, July 1937 to current year. Gage heights and discharge measurements, August 1909 to April 1914. Twice-daily figures of discharge, January 1911 to December 1912, which do not represent daily mean discharges because of diurnal fluctuation. August to October 1903, published as "Navesink River at Godeffroy, NY."

REVISED RECORDS.--WSP 1502: 1951(M). WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 459.66 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Apr. 30, 1914, nonrecording gages at same site (August to October 1903 at datum 0.98 ft higher).

REMARKS.--Estimated daily discharges: Dec. 8-10, 27, Jan. 5 to Feb. 15, and Feb. 20-25. Records fair except those for estimated daily discharges, which are poor. Prior to 1949, diurnal fluctuation at low and medium flow caused by powerplant at Cuddebackville. Subsequent to June 1953, entire flow from 92.5 mi^2 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. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,000 ft^3/s Aug. 19, 1955, gage height, 12.49 ft, from rating curve extended above 11,000 ft^3/s on basis of slope-area measurement of peak flow; minimum, practically no flow several times in July 1911.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,510 ft^3/s Sept. 27, gage height, 6.99 ft; minimum discharge, 33 ft^3/s Nov. 23, gage height, 2.92 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	101	270	347	110	474	297	148	459	166	409	134
2	111	100	215	359	110	435	350	154	388	129	264	105
3	95	79	211	339	100	388	309	656	293	119	198	90
4	88	72	287	300	100	351	289	715	257	114	166	80
5	83	97	230	270	100	390	272	487	240	129	138	77
6	83	185	226	230	100	460	265	436	252	139	125	126
7	82	146	194	200	100	371	265	421	218	157	114	128
8	82	135	150	170	100	386	314	371	225	131	151	125
9	81	123	150	140	100	446	354	322	243	125	159	305
10	81	137	160	130	100	414	311	289	214	123	139	788
11	79	134	168	130	100	392	284	267	183	128	119	387
12	76	117	181	130	110	1220	277	248	169	120	99	256
13	81	107	200	150	200	1290	263	229	159	172	81	196
14	77	96	216	180	270	940	259	210	154	155	68	171
15	79	85	206	170	260	797	256	185	141	216	77	153
16	80	81	195	160	225	679	253	175	174	246	70	158
17	77	78	186	160	201	605	243	177	206	186	65	130
18	78	75	181	150	188	534	217	487	178	131	60	120
19	79	73	175	150	180	456	217	453	189	117	58	110
20	88	68	200	140	170	430	243	328	155	128	55	105
21	82	58	204	140	160	396	228	277	142	124	55	99
22	93	58	332	130	180	357	211	248	127	609	56	93
23	144	61	519	130	310	343	197	221	147	369	55	90
24	130	69	379	130	630	325	191	202	163	227	53	91
25	109	65	341	140	920	301	192	187	179	155	72	93
26	120	63	287	130	752	274	199	172	149	208	106	88
27	136	62	260	130	646	253	188	169	136	284	97	1860
28	119	62	288	120	544	242	175	351	136	195	72	2180
29	115	422	390	120	---	241	168	767	179	155	62	1070
30	113	462	450	110	---	234	160	417	179	140	65	745
31	105	---	383	110	---	237	---	295	---	136	194	---
TOTAL	2943	3471	7834	5395	7066	14661	7447	10064	6034	5533	3502	10153
MEAN	94.9	116	253	174	252	473	248	325	201	178	113	338
MAX	144	462	519	359	920	1290	354	767	459	609	409	2180
MIN	76	58	150	110	100	234	160	148	127	114	53	77

CAL YR 1984 TOTAL 185220 MEAN 506 MAX 6810 MIN 58
WTR YR 1985 TOTAL 84103 MEAN 230 MAX 2180 MIN 53

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION.--Lat 41°18'33", long 74°47'44", Pike County, PA, Hydrologic Unit 02040104, on right bank 1,500 ft upstream from toll bridge (on U.S. Route 206) between Montague, NJ and Milford, PA, 0.8 mi downstream from Sawkill Creek, and at river mile 246.3.

DRAINAGE AREA.--3,480 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1936 to September 1939 (gage heights only, published as "at Milford, PA"). October 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WDR-NJ-81-2: 1980.

GAGE.--Water-stage recorder. Datum of gage is 369.93 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 9, 1940, nonrecording gage on upstream side of left span of subsequently dismantled bridge at present site at datum 70 ft lower.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 25. Records excellent except those for period of ice effect, Jan. 9 to Feb. 25, and those from May 28 to Sept. 28, which are good. 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). Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE.--46 years, 5,787 ft³/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 250,000 ft³/s, Aug. 19, 1955, gage height, 35.15 ft, from rating curve extended above 90,000 ft³/s on basis of flood-routing study; minimum, 382 ft³/s, Aug. 24, 1954, gage height, 3.83 ft, minimum daily, 412 ft³/s, Aug. 23, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 10, 1903, reached a stage of 35.5 ft, from floodmark, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66,300 ft³/s, Sept. 28, gage height, 18.04 ft; minimum discharge, 691 ft³/s, Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	1970	5180	5470	1600	5910	3370	1940	3120	1720	2140	1750
2	1480	1240	4270	5050	1500	5150	4900	1940	3760	1400	2870	1580
3	1120	1830	3970	4920	1400	4290	4930	4160	3660	1390	2650	1340
4	1900	1680	4090	4340	1500	3820	4500	6100	3390	1380	1530	1180
5	1910	1810	4050	3910	1950	3590	4250	4510	3090	1140	1240	1200
6	1700	1950	4870	3330	1750	4450	4110	3660	3470	1690	1860	1230
7	1860	2060	3740	3270	1550	4490	3790	3510	3230	1550	1890	1300
8	1710	2070	2520	3450	1450	4270	4280	3390	3050	1910	1990	1220
9	1690	1950	2260	2700	1750	4350	4970	3010	1890	1970	1890	1370
10	1760	1920	2350	2000	1650	4030	4590	2680	1760	1440	1860	4210
11	1780	1820	2350	1800	1750	4090	3980	2290	2260	1650	1420	3720
12	1860	1920	2410	2400	2100	6990	3760	2100	2110	1760	1380	2450
13	1800	1940	2660	2000	2400	16500	3430	1980	2040	2050	1560	1720
14	1890	1690	2880	2300	2900	12900	3050	1960	1510	2520	1560	1360
15	1870	1870	3370	2400	2900	10300	3040	1730	1670	2280	1570	1130
16	2040	1720	3350	2200	2700	8210	3080	1570	1880	2890	1760	1010
17	1920	1640	3190	2100	2300	6540	2940	1520	2080	3280	1570	1510
18	2050	1760	3100	1900	1900	6140	2850	2060	1950	2420	1240	1540
19	2080	1770	2890	1900	1700	5590	2620	3440	1900	1990	1180	1450
20	1910	1920	3080	1600	1750	4580	2720	3540	1450	1520	1330	1380
21	1940	1780	3660	1750	1650	4970	2840	2880	1400	1240	1350	1370
22	1800	1710	3960	3200	1550	4560	2710	2450	1350	2560	1280	1220
23	2100	1720	7050	2200	1950	4290	2580	2100	1080	3820	1120	1280
24	2380	1710	6260	2000	4400	3630	2480	1910	1460	3020	1480	1380
25	1870	1660	5000	2000	9600	3620	2570	1740	1920	2520	1070	1320
26	1640	1770	4260	2400	11400	3750	2560	1600	1920	3700	1490	1330
27	1990	1740	3710	2000	8790	2890	2480	1530	1850	2860	1830	12600
28	1800	1750	3620	1700	7030	2770	2210	1900	1510	1900	1500	50700
29	1820	2230	4660	1900	---	2750	2040	4410	1490	1660	1380	20700
30	1790	6680	6760	1700	---	2800	2020	4290	1890	1420	1310	12200
31	1620	---	6560	1650	---	2650	---	3300	---	1840	1540	---
TOTAL	56800	59280	122080	81540	84870	164870	99650	85200	65140	64490	49840	137750
MEAN	1832	1976	3938	2630	3031	5318	3322	2748	2171	2080	1608	4592
MAX	2380	6680	7050	5470	11400	16500	4970	6100	3760	3820	2870	50700
MIN	1120	1240	2260	1600	1400	2650	2020	1520	1080	1140	1070	1010

CAL YR 1984 TOTAL 2254130 MEAN 6159 MAX 82700 MIN 1120
WTR YR 1985 TOTAL 1071510 MEAN 2936 MAX 50700 MIN 1010

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 Downsville Dam on East Branch Delaware River, and 1.6 mi east of Downsville, N.Y. DRAINAGE AREA, 371 mi^2. PERIOD OF RECORD, September 1954 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (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 between minimum operating level, elevation, 1,152.0 ft and crest of spillway, elevation, 1,280.0 ft. Capacity: at crest of spillway 149,799 mil gal; at minimum operating level, 9,609 mil gal; at sill of diversion tunnel, elevation, 1,143.0 ft, 6,098 mil gal; in dead storage below release outlet, elevation, 1,126.50 ft, 1,898 mil gal. 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 provided by Bureau of Water Resources Development and Department of Environmental Protection, City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 154,027 mil gal Apr. 5, 1960, elevation, 1,282.27 ft; minimum observed (after first filling), 9,575 mil gal Dec. 26, 1964, elevation, 1,151.92 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 110,929 mil gal Oct. 1, elevation, 1,257.13 ft; minimum, 59,620 mil gal Sept. 17, elevation, 1,217.82 ft.

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 southeast of Stilesville, N.Y. DRAINAGE AREA, 454 mi^2. PERIOD OF RECORD, October 1963 to current year. REVISED RECORDS, WDR NY-72-1: 1966. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (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 between minimum operating level, elevation, 1,040.0 ft and crest of spillway, elevation, 1,150.0 ft. Capacity, at crest of spillway, 98,618 mil gal; at minimum operating level, 2,912 mil gal; at mouth of inlet channel to diversion tunnel, elevation, 1,035.0 ft, 1,892 mil gal; in dead storage below release outlet elevation, 1,020.5 ft, 328 mil gal. 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 the Delaware River Master; and is released for conservation flow in the Delaware River. No diversion prior to January 29, 1964. Records provided by Bureau of Water Resources Development, City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 108,116 mil gal Mar. 15, 1977, elevation, 1,155.85 ft; minimum observed (after first filling), 11,901 mil gal Nov. 7, 1968, elevation, 1,066.24 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 68,995 mil gal June 19, elevation, 1,129.01 ft; minimum, 26,758 mil gal Nov. 29, elevation, 1,089.31 ft.

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 northwest of Fowlersville, N.Y. DRAINAGE AREA, 118 mi^2 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 National Geodetic Vertical Datum of 1929 (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.

Reservoir is formed by an earthfill dam. Storage began Jan. 19, 1930. Usable capacity, 1,436.6 mil ft^3 between elevations 1,010.0 ft, minimum operating pool, and 1,071.2 ft, top of flashboards. Capacity below elevation 1,010.0 ft, minimum operating pool, about 212.7 mil ft^3. Reservoir is used for storage of water for power. Figures given herein represent contents above 1,010.0 ft. Water is received from Cliff Lake, Lebanon Lake, and Toronto Reservoir. Records provided by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,461.6 mil ft^3 Mar. 14, 1977, elevation, 1,071.8 ft; minimum (after first filling), -141.4 mil ft^3 Dec. 2, 1938, elevation, 987.5 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,355 mil ft^3 Mar. 11, elevation, 1,069.2 ft; minimum, 935.5 mil ft^3 Feb. 18, elevation, 1,057.8 ft.

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 southeast of village of Black Lake, N.Y. DRAINAGE AREA, 23.2 mi^2. 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 National Geodetic Vertical Datum of 1929 (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.

Reservoir is formed by an earthfill dam completed July 24, 1926. Storage began Jan. 13, 1926. Usable capacity 1,098.2 mil ft^3 between elevations 1,165.0 ft, minimum operating pool, and 1,220.0 ft, top of permanent flashboards. Capacity below elevation 1,165.0 ft, minimum operating pool, about 26.8 mil ft^3. Reservoir is used for storage of water for power. Figures given herein represent contents above 1,165.0 ft. Records provided by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 1,171.2 mil ft^3 July 20, 1945, elevation, 1,222.0 ft; minimum observed (after first filling), -26.8 mil ft^3 Nov. 15, 1928, elevation, 1,144.5 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 684.6 mil ft^3 Aug. 12, elevation, 1,206.5 ft; minimum observed, 142.0 mil ft^3 Nov. 26, elevation, 1,180.6 ft.

REVISIONS.--Monthend elevation, contents, and change in contents have been revised as shown on the following page. They supersede figures published in WDR NY Vol. 1, 1984.

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 northwest of Fowlersville, N.Y. DRAINAGE AREA, 6.46 mi^2, excluding area above Toronto Reservoir. PERIOD OF RECORD, January 1939 to current year. REVISED RECORDS, WSP 1552: 1951-54. WDR NY-75-1: 1974(m). GAGE, nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (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.

Reservoir is formed by a concrete gravity-type dam. Storage began Jan. 6, 1939. Usable capacity, 136.06 mil ft^3 between elevations 1,043.3 ft, minimum operating pool, and 1,072.0 ft, top of permanent flashboards. Capacity below elevation 1,043.3 ft, minimum operating pool, about 6.54 mil ft^3. 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. Records provided by Orange and Rockland Utilities, Inc.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 145.44 mil ft^3 July 30, 31, 1945, elevation, 1,073.1 ft; minimum observed (after first filling), about -6.54 mil ft^3 Mar. 16, 1963, elevation, 1,038.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 112.64 mil ft^3 Mar. 11, elevation, 1,069.1 ft; minimum observed, 41.5 mil ft^3 Feb. 18, elevation, 1,057.4 ft.

RESERVOIRS IN DELAWARE RIVER BASIN--Continued

01435900 NEVERSINK RESERVOIR.--Lat 41°49'40", long 74°38'21", Sullivan County, Hydrologic Unit 02040104, at a gatehouse at Neversink Dam on Neversink River, and 2 mi southwest of Neversink, N.Y. DRAINAGE AREA, 92.5 mi^2, revised. PERIOD OF RECORD, June 1953 to current year. GAGE, nonrecording gage read daily at 0900. Datum of gage is National Geodetic Vertical Datum of 1929 (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 between minimum operating level, elevation, 1,319.0 ft and crest of spillway, elevation, 1,440.0 ft. Capacity at crest of spillway 37,146 mil gal; at minimum operating level, 2,205 mil gal; dead storage below diversion sill and outlet sill, elevation 1,314.0 ft, 1,680 mil gal. 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 provided by Bureau of Water Resources Development and Department of Environmental Protection, City of New York.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 37,978 mil gal Apr. 25, 1961, elevation, 1,441.67 ft; minimum observed (after first filling), 1,985 mil gal Nov. 25, 1964, elevation, 1,316.98 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 23,454 mil gal Sept. 30, elevation, 1,408.51 ft; minimum observed, 13,978 mil gal Dec. 19, elevation, 1,379.81 ft.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

Date	Elevation (feet) #	Contents (million ft^3)	Change in contents (equivalent in ft^3/s)
	01433100 Toronto Reservoir		
Sept. 30	1,196.0	422	
Oct. 31	1,196.4	436R	+ 5.2R
Nov. 30	1,185.0	211	- 86.8R
Dec. 31	1,193.5	368	+ 58.6
CAL YR 1983	-	-	+ 3.6
Jan. 31	1,196.5	434	+ 24.6
Feb. 28	1,210.0R	781R	+138 R
Mar. 31	1,206.1	674	- 39.9R
Apr. 30	1,217.3	1,005	+128
May 31	1,221.7	1,160	+ 57.9
June 30	1,216.6	981	- 69.1
July 31	1,215.7	952	- 10.8
Aug. 31	1,207.5	712	- 89.6
Sept. 30	1,196.8	440	-105
WTR YR 1984	-	-	+ 0.6

R Revised.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

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 ft^3)	Change in contents (equivalent in ft^3/s)
	01416900 Pepacton Reservoir			01424997 Cannonsville Reservoir			01433000 Swinging Bridge Reservoir		
Sept. 30	1,257.13	110,929		1,116.29	53,454		1,063.1	1,121	
Oct. 31	1,248.03	97,290	-681	1,110.63	36,806	-831	1,063.1	1,121	0.0
Nov. 30	1,237.58	82,976	-738	1,091.36	28,448	-431	1,063.6	1,139	+ 7.1
Dec. 31	1,238.96	84,784	+ 90.2	1,111.20	47,723	+962	1,066.0	1,229	+33.6
CAL YR 1984	-	-	- 17.8	-	-	- 31.9	-	-	+ 2.5
Jan. 31	1,232.66	76,735	-402	1,114.84	51,771	+202	1,061.3	1,056	-64.7
Feb. 28	1,231.11	74,834	-105	1,115.86	52,953	+ 65.3	1,062.7	1,106	+20.8
Mar. 31	1,242.64	89,733	+744	1,122.45	60,774	+390	1,063.3	1,128	+ 8.2
Apr. 30	1,249.18	98,954	+476	1,123.79	62,411	+ 84.4	1,062.7	1,106	- 8.4
May 31	1,245.23	93,319	-281	1,126.86	66,257	+192	1,066.5	1,249	+53.2
June 30	1,239.17	85,062	-426	1,128.24	68,015	+ 90.7	1,066.2	1,237	- 4.5
July 31	1,232.10	76,045	-450	1,125.77	64,869	-157	1,066.6	1,252	+ 5.8
Aug. 31	1,221.50	63,658	-618	1,124.99	63,876	- 49.6	1,062.0	1,081	-64.1
Sept. 30	1,222.18	64,418	+ 39.2	1,125.20	64,143	+ 13.8	1,067.8	1,299	+84.3
WTR YR 1985	-	-	-197	-	-	+ 45.3	-	-	+ 5.7

\# Elevation at 2400 hours.
Elevation at 0900 hours on first day of following month.

RESERVOIRS IN DELAWARE RIVER BASIN--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet) #	Contents (million ft³)	Change in contents (equivalent in ft³/s)	Elevation (feet) #	Contents (million ft³)	Change in contents (equivalent in ft³/s)	Elevation (feet) ##	Contents (million gallons)	Change in contents (equivalent in ft³/s)
	01433100 Toronto Reservoir			01433200 Cliff Lake			01435900 Neversink Reservoir		
Sept. 30	1,196.8	440		1,064.6	81.1		1,401.50	20,873	
Oct. 31	1,184.0	195	-91.6	1,065.0	83.7	+ 1.0	1,388.83	16,644	-211
Nov. 30	1,181.3	153	-16.4	1,063.6	74.8	- 3.4	1,382.14	14,638	-103
Dec. 31	1,186.0	228	+28.2	1,065.9	89.6	+ 5.5	1,381.80	14,540	- 4.89
CAL YR 1984	-	-	- 4.4	-	-	+ 0.3	-	-	- 33.6
Jan. 31	1,189.2	284	+20.9	1,061.5	62.2	-10.2	1,383.79	15,117	+ 28.8
Feb. 28	1,189.3	286	+ 0.7	1,062.2	66.3	+ 1.7	1,389.97	17,002	+104
Mar. 31	1,198.9	490	+76.1	1,063.2	72.3	+ 2.3	1,400.65	20,572	+178
Apr. 30	1,201.2	546	+21.9	1,062.5	68.1	- 1.6	1,403.09	21,443	+ 44.9
May 31	1,203.4	603	+21.0	1,066.7	95.1	+10.1	1,404.50	21,957	+ 25.7
June 30	1,204.8	639	+14.1	1,066.0	90.3	- 1.9	1,402.17	21,111	- 43.6
July 31	1,205.7	663	+ 8.9	1,066.4	93.0	+ 1.0	1,404.80	22,067	+ 47.7
Aug. 31	1,202.3	574	-33.2	1,063.1	71.7	- 8.0	1,404.78	22,060	- 0.35
Sept. 30	1,201.6	556	- 6.9	1,067.8	102.9	+12.1	1,408.72	23,534	+ 76.0
WTR YR 1985	-	-	+ 3.7	-	-	+ 0.7	-	-	+ 11.3

\# Elevation at 2400 hours.
\## Elevation at 0900 hours on first day of following month.

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 provided by Bureau of Water Resources Development and Department of Environmental Protection, City of New York.
REVISED RECORDS, WDR NY-71-1: 1970. WDR NY-81-1: 1980.

014239000 Diversion from Cannonsville Reservoir (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 provided by Bureau of Water Resources Development, City of New York.
REVISED RECORDS, WDR NY-81-1: 1980.

01435800 Diversion from Neversink Reservoir (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 provided by Bureau of Water Resources Development and Department of Environmental Protection, City of New York.
REVISED RECORDS, WDR NY-82-1: 1976, 1977.

DIVERSION, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Month	01415200 Pepacton Reservoir	01423900 Cannonsville Reservoir	01435800 Neversink Reservoir
October.....	698	185	193
November.....	678	229	149
December.....	697	50.3	180
CAL YR 1984	533	184	212
January.....	696	112	75.9
February.....	585	316	0
March.....	55.0	701	89.2
April.....	129	597	148
May.....	658	122	104
June.....	696	51.7	107
July.....	693	70.3	107
August.....	696	30.8	104
September.....	255	479	101
WTR YR 1985	545	244	114

04250750 SANDY CREEK NEAR ADAMS, NY
(National stream-quality accounting network station)

LOCATION.--Lat 43°48'48", long 76°04'30", Jefferson County, Hydrologic Unit 04140102, on left bank 250 ft upstream from highway bridge on Liberty Street, 0.2 mi downstream from tributary, 2.5 mi downstream from Adams, and 10.0 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--128 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 523.71 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Nov. 19-23, Dec. 7-11, 28-30, Jan. 7, Jan. 10 to Feb. 10, Feb. 14-24, May 29 to June 12, and July 15-16. Records good except those for estimated daily discharges, which are poor. Moderate diurnal fluctuation at low flow caused by mills above station.

AVERAGE DISCHARGE.--28 years, 274 ft³/s, 29.07 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,690 ft³/s Feb. 25, 1985, gage height, 11.05 ft, from rating curve extended above 5,500 ft³/s on basis of flow-over-dam measurement of peak flow; minimum discharge, 1.5 ft³/s Sept. 17, 18, 1963, Aug. 19, 1964; minimum daily, 2.2 ft³/s Sept. 7, 11, 1960, Sept. 17, 1963, Aug. 16, Sept. 22, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Dec. 29	Unknown	7,240	a10.63	Feb. 25	0230	*7,690	*11.05

a From floodmark in gage well.

Minimum discharge, 7.6 ft³/s Sept. 24, 25, 26, gage height, 1.00 ft.

REVISIONS.--The maximum discharge for some water years has been revised as shown in the following table. They supersede figures published in WDR NY Vol. 1, 1963-64, 1976-77, 1980, and 1984.

Water year	Date	Time	Discharge (ft³/s)	Gage height (ft)	Water year	Date	Time	Discharge (ft³/s)	Gage height (ft)
1963	Apr. 4, 1963	0600	7,640	11.01	1977	Mar. 13, 1977	1800	7,300	10.69
1964	Mar. 5, 1964	1515	6,450	9.86	1980	Nov. 26, 1979	2200	6,420	9.83
1976	May 20, 1976	1030	6,860	10.26	1984	Feb. 15, 1984	0230	7,180	10.57

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	35	795	1200	74	954	745	98	47	61	17	21
2	30	54	672	1190	74	1100	640	93	45	43	16	17
3	31	69	553	643	76	905	525	83	42	36	14	16
4	87	56	518	465	78	586	581	76	39	32	13	15
5	73	130	367	337	80	688	1090	85	40	28	12	15
6	51	182	259	263	82	641	1930	167	42	25	11	23
7	41	236	240	220	86	549	1170	436	43	73	11	48
8	36	141	230	164	90	575	751	254	38	89	25	32
9	36	115	250	130	92	669	541	164	42	52	23	27
10	37	138	270	120	96	613	427	120	38	38	16	30
11	34	189	320	110	97	696	401	101	38	38	13	25
12	31	167	355	110	97	1610	395	92	90	32	12	20
13	30	170	912	110	99	1350	378	97	280	27	11	18
14	28	131	658	110	100	1000	348	90	361	25	10	16
15	26	114	546	100	100	759	592	78	144	600	11	14
16	26	307	505	96	100	566	604	71	86	860	14	13
17	25	357	613	90	100	535	448	80	73	212	16	12
18	26	259	513	82	100	408	540	71	350	100	12	11
19	26	210	372	76	98	371	674	64	186	63	9.9	10
20	27	140	311	70	98	406	457	60	96	49	9.2	9.5
21	33	120	222	68	98	381	366	58	66	41	8.6	9.1
22	117	110	609	72	110	332	310	56	52	35	8.4	8.5
23	93	110	629	74	250	369	256	48	73	30	8.1	8.3
24	64	127	469	72	4000	422	206	43	60	26	8.4	8.1
25	51	157	402	70	6440	382	178	38	44	23	11	7.9
26	54	192	269	70	2910	332	167	36	38	21	13	7.7
27	63	167	210	72	1610	411	148	46	34	21	13	86
28	56	251	620	72	1030	1250	132	74	30	20	14	341
29	50	801	6010	72	---	1390	124	60	30	18	14	97
30	43	676	2400	70	---	988	109	56	90	17	15	52
31	39	---	954	72	---	665	---	50	---	16	26	---
TOTAL	1397	5911	22053	6470	18265	21903	15233	2945	2637	2751	415.6	1018.1
MEAN	45.1	197	711	209	652	707	508	95.0	87.9	88.7	13.4	33.9
MAX	117	801	6010	1200	6440	1610	1930	436	361	860	26	341
MIN	25	35	210	68	74	332	109	36	30	16	8.1	7.7
CFSM	.35	1.54	5.55	1.63	5.09	5.52	3.97	.74	.69	.69	.10	.26
IN.	0.41	1.72	6.41	1.88	5.31	6.37	4.43	0.86	0.77	0.80	0.12	0.30

CAL YR 1984 TOTAL 106368.7 MEAN 291 MAX 6900 MIN 9.3 CFSM 2.27 IN. 30.91
WTR YR 1985 TOTAL 100998.7 MEAN 277 MAX 6440 MIN 7.7 CFSM 2.16 IN. 29.35

04250750 SANDY CREEK NEAR ADAMS, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965, 1978 to current year.
CHEMICAL DATA: 1965, 1978 (c); 1979-80 (d), 1981-85 (c).
MINOR ELEMENTS DATA: 1978-79 (b), 1980 (c), 1981-85 (b).
ORGANIC DATA: OC--1978 (c), 1979-80 (d), 1981 (c).
NUTRIENT DATA: 1978 (c), 1979-80 (d), 1981-85 (c).
BIOLOGICAL DATA:
Bacteria--1978 (c), 1979-80 (d), 1981-85 (c).
Phytoplankton--1978-80 (c), 1981 (b).
Periphyton--1978-80 (b).
SEDIMENT DATA: 1978 (c), 1979-80 (d), 1981-85 (c).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Once daily January 1978 to September 1980. Recorder July 1980 to September 1984.
WATER TEMPERATURES: Once daily January 1978 to September 1980. Recorder July 1980 to September 1984.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (water years 1978-84): Maximum recorded, 563 microsiemens Jan. 21, 1983; minimum recorded, 86 microsiemens Oct. 15, 1982.
WATER TEMPERATURES: Maximum (water years 1979-80, 1983-84), 33.0°C July 24, 1979; minimum (water years 1978-84), 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
24...	1245	62	273	8.2	10.5	.80	750	8.5	77	570	77
FEB											
12...	1130	98	322	7.6	.5	.50	730	12.0	87	580	64
MAR											
26...	1030	273	260	7.9	1.0	1.0	760	13.5	95	K33	K12
MAY											
07...	1115	540	175	7.8	9.5	2.5	750	11.0	98	K780	65
JUL											
09...	1000	52	241	8.2	20.5	.90	755	8.9	100	240	110
AUG											
13...	1200	11	379	8.6	19.5	.50	755	9.1	100	90	80

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	CAR-BONATE IT-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT											
24...	130	20	45	4.1	6.0	1.7	111	134	--	20	11
FEB											
12...	150	14	55	4.0	7.7	1.4	140	171	--	16	11
MAR											
26...	130	20	47	3.3	5.1	1.0	111	136	--	13	8.5
MAY											
07...	83	4	29	2.6	3.6	1.0	79	97	--	12	5.9
JUL											
09...	110	8	39	3.5	5.9	1.6	105	127	--	17	8.0
AUG											
13...	150	7	52	4.8	17	2.5	144	164	5.3	23	23

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT										
24...	<.10	3.1	157	160	.11	.020	.40	.040	.020	.020
FEB										
12...	<.10	4.6	187	180	1.4	.070	.60	.100	.050	.110
MAR										
26...	<.10	3.0	156	150	1.1	<.010	.30	.030	<.010	<.010
MAY										
07...	<.10	2.6	108	100	.39	<.010	.50	.040	.010	.010
JUL										
09...	.30	3.0	156	140	.31	.020	.40	<.010	<.010	<.010
AUG										
13...	.10	1.5	206	220	.34	.010	.30	.050	<.010	<.010

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

04250750 SANDY CREEK NEAR ADAMS, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT 24...	<10	<1	26	<.5	<1	<1	<3	3	24	2
FEB 12...	--	--	--	--	--	--	--	--	--	--
MAR 26...	<10	1	19	<.5	<1	<1	<3	1	16	<1
MAY 07...	20	<1	15	<.5	<1	<1	<3	2	52	1
JUL 09...	--	--	--	--	--	--	--	--	--	--
AUG 13...	<10	<1	31	.5	<1	<1	<3	1	5	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 24...	4	5	<.1	<10	4	<1	<1	110	<6	25
FEB 12...	--	--	--	--	--	--	--	--	--	--
MAR 26...	6	4	.2	<10	<1	<1	<1	87	<6	4
MAY 07...	<4	4	.2	<10	2	<1	<1	65	<6	8
JUL 09...	--	--	--	--	--	--	--	--	--	--
AUG 13...	8	3	.1	<10	3	<1	<1	130	<6	6

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	BAROMETRIC PRESSURE (MM OF HG)
JUL 09...	0940	15	1.46	239	7.8	20.5	8.9	100	755
09...	0944	20	1.64	240	7.8	20.5	8.7	98	755
09...	0948	25	1.52	241	7.9	20.5	8.7	98	755
09...	0952	30	1.40	241	7.9	20.5	8.7	98	755
09...	0956	35	1.33	241	7.9	20.5	8.8	99	755
09...	1002	40	1.28	241	7.9	20.5	8.9	100	755
09...	1004	45	1.16	241	8.0	20.5	8.9	100	755
09...	1008	50	1.10	242	8.0	20.5	8.9	100	755

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 24...	1245	62	2	.33	88
FEB 12...	1130	98	5	1.3	63
MAR 26...	1030	273	5	3.7	90
MAY 07...	1115	540	19	28	93
JUL 09...	1000	52	1	.14	67
AUG 13...	1200	11	4	.12	97

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 upstream from Sugar River, and 2 mi northeast of Boonville.

DRAINAGE AREA.--304 mi^2.

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

REVISED RECORDS.--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). WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 935.50 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 27, 1933, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 6-7, 25-27, and Jan. 6 to Mar. 1. Records good except those for estimated daily discharges, which are poor. Occasional regulation by several headwater reservoirs. Forestport feeder diverts water from State Pond at Forestport 9 mi upstream. That portion of diverted water which does not pass Black River Canal (flowing south), returns to Black River downstream from station through Mill Creek sluiceway. Slight diurnal fluctuation at medium and low flow caused by mill upstream from station. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--74 years, 702 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,800 ft^3/s Apr. 18, 1982, Dec. 30, 1984, gage heights, 11.31 ft and 11.41 ft, respectively; maximum gage height, 13.10 ft Feb. 21, 1981 (ice jam); minimum observed discharge, about 5 ft^3/s Aug. 26, 1918, gage height, 2.40 ft; minimum daily, 7 ft^3/s Aug. 26, 1918.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 30	1330	*12,800	*11.41	Sept. 28	0630	4,730	8.93
Apr. 7	1245	3,920	8.47				

Minimum discharge, 107 ft^3/s July 25, Aug. 22, Sept. 19, gage height, 3.63 ft; minimum daily, 112 ft^3/s July 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419	442	1420	3340	430	940	2010	541	439	413	249	212
2	494	422	1210	4040	450	923	1330	507	547	311	272	177
3	595	456	1010	2980	440	822	1120	469	439	274	230	162
4	715	452	879	1880	430	620	1040	438	457	300	193	155
5	772	1090	782	1350	440	627	1120	440	400	264	173	176
6	610	1670	660	920	450	726	2170	560	335	226	160	365
7	508	1190	620	760	470	692	3720	960	330	231	154	639
8	458	870	593	660	490	648	2980	923	312	277	154	430
9	460	688	593	560	520	679	2030	694	312	266	151	492
10	520	728	586	520	560	640	1390	556	310	247	148	855
11	508	864	604	490	520	602	1150	495	300	241	153	577
12	474	949	680	470	490	1080	1050	571	487	176	157	375
13	444	894	811	480	480	1750	1060	1060	843	177	150	257
14	424	741	1040	520	470	1570	1080	965	856	168	144	211
15	413	632	959	480	470	1180	1220	741	642	215	141	185
16	368	667	867	440	460	906	1910	620	477	501	156	169
17	319	870	936	420	460	842	2700	609	427	421	172	160
18	302	855	1080	410	450	646	2380	542	466	280	147	141
19	307	775	980	400	460	562	2450	474	492	209	119	116
20	324	610	846	420	470	639	2160	468	402	177	123	129
21	345	609	716	440	480	607	1980	457	332	166	114	129
22	375	530	851	460	520	555	1940	456	270	153	119	129
23	395	492	978	480	800	591	1820	420	303	130	134	154
24	375	497	831	500	1500	634	1580	388	304	120	143	275
25	342	473	660	480	2500	652	1320	360	257	112	236	584
26	367	461	560	470	2400	611	1140	340	233	179	309	465
27	419	453	560	460	1900	631	924	368	226	363	249	1610
28	404	510	656	450	1100	1110	801	452	212	360	200	4390
29	450	1270	3350	440	---	2710	717	385	681	297	188	2610
30	497	1840	11100	440	---	2920	611	319	681	173	200	1190
31	448	---	5650	430	---	2510	---	282	---	195	223	---
TOTAL	13851	23000	43068	26590	20610	30625	48903	16860	12772	7622	5461	17519
MEAN	447	767	1389	858	736	988	1630	544	426	246	176	584
MAX	772	1840	11100	4040	2500	2920	3720	1060	856	501	309	4390
MIN	302	422	560	400	430	555	611	282	212	112	114	116

CAL YR 1984 TOTAL 303970 MEAN 831 MAX 11100 MIN 189
WTR YR 1985 TOTAL 266881 MEAN 731 MAX 11100 MIN 112

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 downstream from Chase Lake Outlet, 4.2 mi northeast of Glenfield, and 5.0 mi upstream from mouth.

DRAINAGE AREA.--89.8 mi^2, revised.

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

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 972.84 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 16, 1949, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 7-9, Jan. 3 to Mar. 10, and Mar. 20-26. Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--43 years, 193 ft^3/s, 29.19 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,420 ft^3/s Dec. 30, 1984, gage height, 13.34 ft, from rating curve extended above 4,600 ft^3/s on basis of slope-area measurement of peak flow; minimum observed discharge, 18 ft^3/s Sept. 17, 1948, Aug. 4, 5, 1949, gage height, 2.85 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 30	0200	a*9,420	*13.34	Sept. 28	1100	2,020	7.51
Apr. 7	0730	1,590	6.96				

a From rating curve extended above 4,600 ft^3/s on basis of slope-area measurement of peak flow.

Minimum discharge, 30 ft^3/s Aug. 23, 24, gage height, 3.55 ft; minimum gage height, 3.50 ft Oct. 18, 19; minimum daily discharge, 31 ft^3/s Aug. 7, 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	75	491	756	94	320	552	131	104	184	39	72
2	93	75	346	889	92	280	407	123	118	123	38	70
3	94	78	264	500	90	260	312	115	107	96	37	64
4	111	79	227	370	88	250	272	105	89	84	35	63
5	125	97	202	280	86	240	296	109	78	74	34	63
6	112	154	186	240	84	220	806	177	77	65	32	105
7	98	157	180	210	82	210	1440	370	83	70	31	177
8	90	130	170	180	86	200	917	436	82	77	37	122
9	86	115	170	160	92	190	554	286	76	79	34	96
10	81	111	159	150	92	160	382	209	72	71	35	93
11	76	129	167	150	94	158	322	171	65	70	36	87
12	72	155	178	140	92	254	287	162	91	68	37	73
13	70	163	221	130	88	399	293	447	256	62	37	62
14	68	143	354	130	84	408	305	465	367	57	40	55
15	68	124	338	120	80	315	444	280	280	58	39	50
16	68	143	283	120	76	245	830	206	184	87	41	46
17	65	209	315	110	74	209	872	185	144	86	41	43
18	62	193	461	110	72	176	635	164	165	66	37	41
19	63	163	379	100	70	164	627	146	202	57	34	39
20	77	137	278	100	70	160	592	141	157	50	32	37
21	91	126	210	98	68	150	535	134	119	47	34	36
22	98	121	244	96	76	140	504	130	95	45	34	36
23	113	108	292	96	90	130	432	112	87	43	31	35
24	102	109	246	96	120	130	338	101	91	40	31	34
25	91	107	206	98	300	130	274	94	81	38	39	61
26	90	104	173	100	700	140	235	86	80	37	60	75
27	98	102	147	100	460	156	203	93	82	41	111	369
28	96	131	163	100	360	337	178	162	74	40	118	1750
29	93	475	2420	100	---	829	165	139	144	38	76	856
30	89	723	5410	98	---	974	146	109	297	38	64	354
31	82	---	1370	96	---	754	---	93	---	37	64	---
TOTAL	2715	4736	16250	6023	3860	8688	14155	5681	3947	2028	1388	5064
MEAN	87.6	158	524	194	138	280	472	183	132	65.4	44.8	169
MAX	125	723	5410	889	700	974	1440	465	367	184	118	1750
MIN	62	75	147	96	68	130	146	86	65	37	31	34
CFSM	.99	1.78	5.91	2.19	1.56	3.16	5.32	2.06	1.49	.74	.51	1.91
IN.	1.14	1.99	6.82	2.53	1.62	3.64	5.94	2.38	1.66	0.85	0.58	2.12

CAL YR 1984 TOTAL 77393 MEAN 211 MAX 5410 MIN 36 CFSM 2.38 IN. 32.46
WTR YR 1985 TOTAL 74535 MEAN 204 MAX 5410 MIN 31 CFSM 2.30 IN. 31.26

04256460 CRANBERRY POND OUTLET NEAR BIG MOOSE, NY

LOCATION.--Lat 43°51'52", long 74°58'44", Herkimer County, Hydologic Unit 04150101, on right bank at mouth of Cranberry Pond, 1.6 mi northwest of Woods Lake, and 4.5 mi northwest of Big Moose.

DRAINAGE AREA.--0.60 mi^2.

PERIOD OF RECORD.--January 1984 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is 1,940 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 6-7, 13-20, 29, Jan. 1-3, 13, 24-26, and Feb. 10, 15-17. Records fair except those for estimated daily discharges, those for periods of doubtful gage-height record Apr. 15 to May 1 and May 15-29, and those for period of extremely low flow July 25 to Aug. 25, which are poor. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 70 ft^3/s, Dec. 29, 1984, gage height 2.98 ft (backwater from ice); maximum gage height unaffected by backwater, 1.87 ft, Sept. 27, 1985; minimum discharge, 0.002 ft^3/s, Aug. 19, 20, 1985, gage height 0.53 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 70 ft^3/s, Dec. 29, gage height 2.98 ft (backwater from ice); maximum gage height unaffected by backwater, 1.87 ft, Sept. 27; minimum discharge, 0.002 ft^3/s, Aug. 19, 20, gage height 0.53 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	.37	3.8	4.7	.40	1.9	3.7	.58	.76	.22	.004	.74
2	.65	.43	2.5	4.3	.40	1.6	2.8	.46	.63	.17	.004	.61
3	.64	.44	1.9	3.6	.40	1.4	2.2	.37	.52	.17	.005	.49
4	1.0	.40	1.8	2.6	.41	1.2	1.8	.35	.41	.25	.004	.51
5	1.1	.73	1.6	2.0	.39	1.7	2.0	.40	.33	.22	.003	.59
6	1.0	1.1	1.5	1.7	.39	1.4	6.8	.64	.32	.18	.003	1.2
7	.88	1.2	1.4	1.6	.39	1.1	7.5	2.4	.30	.20	.004	1.4
8	.76	1.1	1.3	1.4	.37	1.0	5.7	2.8	.26	.24	.005	1.1
9	.72	.93	1.2	1.2	.35	1.1	4.0	2.2	.23	.21	.004	.83
10	.63	.95	.95	.94	.30	.87	2.8	1.8	.19	.19	.004	.71
11	.56	1.2	.92	.82	.29	.81	2.2	1.4	.14	.24	.005	.57
12	.49	1.3	.98	.71	.26	1.6	1.9	1.6	.38	.20	.004	.42
13	.44	1.5	1.3	.64	.25	2.7	1.9	5.5	1.1	.18	.004	.33
14	.40	1.3	3.0	.61	.25	2.3	2.0	4.5	1.9	.13	.004	.25
15	.36	1.1	2.8	.57	.25	1.9	3.7	2.6	1.8	.12	.004	.20
16	.32	1.3	2.5	.51	.23	1.5	6.2	1.9	1.3	.17	.005	.15
17	.30	1.8	2.9	.51	.26	1.3	5.7	1.7	1.1	.13	.004	.11
18	.25	1.6	3.7	.49	.31	1.1	4.8	1.4	1.2	.10	.003	.09
19	.24	1.5	3.1	.48	.30	.93	5.2	.98	1.2	.07	.002	.07
20	.39	1.2	2.5	.48	.29	.82	5.2	.81	.92	.06	.002	.05
21	.40	.98	2.0	.48	.27	.78	5.1	.42	.69	.04	.003	.04
22	.49	.82	2.0	.50	.32	.77	4.6	.17	.52	.03	.003	.03
23	.52	.73	2.1	.53	.81	.74	3.4	.12	.48	.02	.003	.03
24	.47	.72	1.9	.58	5.2	.78	2.6	.13	.40	.01	.003	.13
25	.44	.70	1.7	.60	7.6	.85	2.0	.12	.31	.007	.007	.40
26	.46	.73	1.4	.60	4.9	.88	1.4	.04	.25	.007	.01	.43
27	.50	.74	1.2	.55	3.6	.93	1.2	.05	.22	.009	.04	5.4
28	.51	1.1	1.8	.54	2.4	3.2	.97	.08	.18	.007	.07	7.6
29	.51	3.8	37	.50	---	5.8	.78	1.0	.23	.007	.09	4.4
30	.47	4.8	9.9	.44	---	5.2	.73	1.2	.26	.007	.29	2.6
31	.42	---	5.6	.40	---	4.4	---	.78	---	.005	.85	---
TOTAL	17.03	36.57	108.25	35.58	31.59	52.56	100.88	38.50	18.53	3.60	1.45	31.48
MEAN	.55	1.22	3.49	1.15	1.13	1.70	3.36	1.24	.62	.12	.05	1.05
MAX	1.1	4.8	37	4.7	7.6	5.8	7.5	5.5	1.9	.25	.85	7.6
MIN	.24	.37	.92	.40	.23	.74	.73	.04	.14	.005	.002	.03
CFSM	.92	2.03	5.82	1.92	1.88	2.83	5.60	2.07	1.03	.19	.08	1.75
IN.	1.06	2.27	6.71	2.21	1.96	3.26	6.25	2.39	1.15	0.22	0.09	1.95

CAL YR 1984 TOTAL 460.67 MEAN 1.26 MAX 37 MIN .01 CFSM 2.10 IN. 28.56
WTR YR 1985 TOTAL 476.02 MEAN 1.30 MAX 37 MIN .002 CFSM 2.17 IN. 29.51

STREAMS TRIBUTARY TO LAKE ONTARIO

04256480 WOODS LAKE TRIBUTARY NEAR BIG MOOSE, NY

LOCATION.--Lat 43°52'17", long 74°57'17", Herkimer County, Hydrologic Unit 04150101, on right bank 65 ft upstream from mouth at Woods Lake, and 4.2 mi northwest of Big Moose.

DRAINAGE AREA.--0.12 mi^2.

PERIOD OF RECORD.--October 1979 to January 1982, July 1984 to current year (no winter records). Records from October 1979 to January 1982 published in U.S. Geological Survey Open-File Report 85-80.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 1,990 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Aug. 14-16, Nov. 20-30, 1984, Mar. 1-28, 31, and Apr. 10, 1985. Records fair except those for estimated daily discharges and those for periods when water level was below intake to stilling well Aug. 1-5, 1984, and Aug. 5-16, 1985, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3.0 ft^3/s, Apr. 6, 1985; minimum not determined, water level below intake to stilling well (gage height .04 ft) July 15-16, Aug. 27-30, Sept. 7-9, Sept. 12-13, 1980, Aug. 1, 2-5, 6, 1984, and Aug. 5, 6-16, 17, 1985.

EXTREMES FOR CURRENT PERIOD.--July to September 1984: Maximum daily discharge during period, 0.59 ft^3/s Aug. 13; minimum not determined, water level below intake to stilling well (gage height .04 ft) Aug. 1, 2-5, 6.

Water year 1985: Maximum recorded daily discharge, 3.0 ft^3/s Apr. 6, but may have been greater during period of no gage-height record; minimum not determined, water level below intake to stilling well (gage height .04 ft), Aug. 5, 6-16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, JULY 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	*	.06
2										---	*	.06
3										---	*	.20
4										---	*	.11
5										---	*	.07
6										---	.10	.07
7										---	.07	.06
8										---	.21	.06
9										---	.13	.06
10										---	.12	.05
11										---	.07	.16
12										---	.06	.17
13										---	.59	.11
14										---	.26	.54
15										---	.46	.39
16										---	.35	.25
17										.09	.50	.22
18										.08	.23	.15
19										.08	.13	.10
20										.08	.08	.08
21										.08	.06	.07
22										.07	.06	.07
23										.06	.29	.06
24										.08	.18	.08
25										.07	.11	.07
26										.06	.06	.45
27										.05	.06	.34
28										.05	.05	.21
29										.04	.05	.16
30										.04	.08	.13
31										.03	.12	---
TOTAL										---		4.61
MEAN										---		.15
MAX										---		.54
MIN										---		.05

* Water level below intake to stilling well.

04256480 WOODS LAKE TRIBUTARY NEAR BIG MOOSE, NY--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.07				.70	.47	.16	.16	.06	.03	.07
2	.12	.13				.84	.31	.14	.07	.05	.03	.07
3	.17	.08				.72	.24	.13	.07	.14	.03	.06
4	.34	.09				.60	.22	.11	.07	.13	.03	.20
5	.25	.30				.60	.40	.24	.07	.06	*	.11
6	.20	.24				.49	3.0	.32	.07	.05	*	.58
7	.17	.20				.40	1.5	.92	.07	.07	*	.31
8	.15	.17				.30	.87	.56	.07	.09	*	.16
9	.14	.16				.30	.54	.33	.06	.06	*	.10
10	.13	.22				.28	.39	.24	.06	.08	*	.11
11	.10	.25				.26	.35	.19	.06	.10	*	.08
12	.09	.26				.30	.37	.39	.31	.06	*	.07
13	.08	.23				.35	.41	1.2	.41	.05	*	.06
14	.08	.19				.32	.57	.56	.39	.05	*	.06
15	.07	.18				.30	1.7	.33	.21	.07	*	.05
16	.07	.36				.26	2.3	.26	.12	.08	*	.04
17	.07	.32				.24	1.4	.23	.09	.05	.03	.04
18	.06	.25				.24	.96	.18	.19	.04	.03	.04
19	.09	.21				.22	1.3	.17	.10	.04	.03	.04
20	.19	.20				.20	1.1	.14	.07	.04	.03	.04
21	.12	.20				.22	1.2	.16	.06	.03	.03	.04
22	.19	---				.20	1.1	.11	.06	.03	.03	.04
23	.13	---				.22	.69	.09	.06	.03	.03	.04
24	.10	---				.24	.52	.09	.06	.03	.03	.20
25	.09	---				.22	.38	.08	.05	.03	.11	.09
26	.17	---				.20	.29	.09	.05	.03	.09	.07
27	.13	---				.35	.23	.20	.06	.03	.13	2.3
28	.12	---				1.6	.20	.15	.05	.03	.07	1.7
29	.12	---				2.0	.19	.08	.11	.03	.06	.51
30	.09	---				1.3	.16	.08	.07	.03	.29	.23
31	.08	---				.80	---	.08	---	.03	.18	---
TOTAL	4.03	---				15.27	23.36	8.01	3.35	1.70		7.51
MEAN	.13	---				.49	.78	.26	.11	.05		.25
MAX	.34	---				2.0	3.0	1.2	.41	.14		2.3
MIN	.06	---				.20	.16	.08	.05	.03		.04

* Water level below intake to stilling well.

STREAMS TRIBUTARY TO LAKE ONTARIO

04256485 WOODS LAKE OUTLET NEAR BIG MOOSE, NY

LOCATION.--Lat 43°51'57", long 74°57'20", Herkimer County, Hydrologic Unit 04150101, on right bank 45 ft downstream from dam on Woods Lake.

DRAINAGE AREA.--0.80 mi^2.

PERIOD OF RECORD.--October 1977 to December 1981, December 1983 to current year.

REVISED RECORDS.--WDR NY-81-1: 1980 (M).

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is 1,980 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 6 to Jan. 15. Records fair except those for estimated daily discharges and period of doubtful gage-height record Feb. 25 to Mar. 5, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69 ft^3/s, Oct. 30, 1978, from rating curve extended above 15 ft^3/s; minimum daily discharge, 0.01 ft^3/s several days during water years 1978 and 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge unknown, occurred sometime during period of no gage-height record Dec. 28 to Jan. 4; minimum daily, .04 ft^3/s, Aug. 20-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.69	3.6	7.8	1.1	5.3	5.1	2.0	1.3	.62	.09	.71
2	1.1	.67	3.3	7.7	.98	3.8	4.6	1.7	1.2	.57	.08	.79
3	1.0	.67	3.0	6.8	.88	2.8	4.2	1.4	1.1	.60	.07	.65
4	1.4	.64	2.8	5.5	.83	2.7	3.8	1.2	.96	.78	.06	.86
5	1.4	.94	2.5	4.7	.82	3.1	3.6	1.2	.86	.70	.07	1.1
6	1.3	1.0	2.6	3.8	.84	3.0	4.7	1.6	.89	.60	.07	2.0
7	1.2	1.0	2.4	3.1	.80	2.4	6.1	2.4	.84	.61	.07	2.5
8	1.2	.94	2.1	2.5	.73	2.2	5.7	2.2	.79	.63	.05	2.4
9	1.2	.88	1.9	2.2	.69	2.0	5.0	2.1	.73	.55	.05	2.0
10	1.1	.98	1.7	1.8	.67	1.8	4.4	1.9	.61	.52	.05	1.8
11	1.0	1.1	1.6	1.6	.68	1.6	3.9	1.8	.53	.59	.06	1.6
12	.95	1.2	1.5	1.4	.68	1.9	3.5	1.9	.87	.50	.05	1.3
13	.87	1.5	1.8	1.6	.67	2.8	3.3	3.3	1.5	.44	.05	1.1
14	.79	1.4	2.7	1.6	.63	2.8	3.1	3.5	2.0	.34	.05	.90
15	.74	1.2	3.2	1.4	.61	2.5	4.0	3.2	2.1	.38	.13	.80
16	.70	1.4	3.1	1.1	.61	2.2	5.7	3.0	2.0	.49	.06	.68
17	.64	1.7	3.4	1.3	.62	2.0	6.3	2.8	1.9	.40	.07	.57
18	.62	1.7	4.1	1.3	.68	1.8	6.1	2.5	2.0	.31	.05	.48
19	.62	1.7	4.0	1.3	.65	1.6	6.3	2.2	1.9	.22	.05	.46
20	.76	1.5	3.6	1.3	.64	1.4	6.1	2.0	1.7	.18	.04	.42
21	.74	1.4	3.2	1.2	.70	1.3	6.3	1.9	1.5	.14	.04	.36
22	.86	1.2	3.2	1.2	.89	1.2	6.6	1.7	1.3	.13	.04	.27
23	.85	1.2	3.1	1.2	1.2	1.2	6.3	1.5	1.3	.09	.04	.37
24	.80	1.1	3.0	1.2	2.3	1.1	5.5	1.4	1.1	.08	.04	.36
25	.72	.98	2.5	1.2	4.7	1.1	4.8	1.3	.93	.08	.04	.49
26	.78	.98	2.4	1.2	6.3	1.0	4.2	1.2	.83	.08	.07	.41
27	.79	.98	2.3	1.2	6.2	1.1	3.7	1.3	.72	.09	.11	2.2
28	.79	1.2	2.4	1.2	5.3	2.4	3.2	1.5	.61	.09	.11	5.5
29	.83	2.5	31	1.2	---	4.9	2.8	1.5	.70	.09	.11	5.5
30	.83	3.6	11	1.2	---	5.6	2.3	1.3	.70	.09	.28	4.8
31	.76	---	8.9	1.1	---	5.4	---	1.2	---	.08	.73	---
TOTAL	28.54	37.95	127.9	72.9	42.40	76.0	141.2	59.7	35.47	11.07	2.88	43.38
MEAN	.92	1.26	4.13	2.35	1.51	2.45	4.71	1.93	1.18	.36	.09	1.45
MAX	1.4	3.6	31	7.8	6.3	5.6	6.6	3.5	2.1	.78	.73	5.5
MIN	.62	.64	1.5	1.1	.61	1.0	2.3	1.2	.53	.08	.04	.27
CFSM	1.15	1.57	5.16	2.94	1.89	3.06	5.89	2.41	1.47	.45	.12	1.81
IN.	1.33	1.76	5.95	3.39	1.97	3.53	6.57	2.78	1.65	0.51	0.13	2.02

CAL YR 1984 TOTAL 569.55 MEAN 1.56 MAX 31 MIN .08 CFSM 1.95 IN. 26.48
WTR YR 1985 TOTAL 679.39 MEAN 1.86 MAX 31 MIN .04 CFSM 2.32 IN. 31.59

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 upstream from Moshier Creek, and 7.5 mi west of Beaver River Post Office.

DRAINAGE AREA.--171 mi^2, revised.

PERIOD OF RECORD.--May 1908 to current year. Prior to February 1925, month-end contents only, published in WSP 1307. February 1925 to September 1937, published in WSP 824.

GAGE.--Nonrecording gage read once daily and prior to reservoir gate changes. Datum of gage is National Geodetic Vertical Datum, 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 ft^3 between elevations 1,650.3 ft and 1,679.3 ft (top of 24-inch flashboards in place throughout year). Elevation of gate sill of lowest outlet, 1,642.3 ft. Capacity below elevation 1,650.3 ft, 90 mil ft^3, 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.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 1,680.08 ft May 20, 1969, contents, 4,939 mil ft^3; minimum observed since first filling, 1,644.80 ft Mar. 25-27, 1949, contents, 8 mil ft^3.

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 1,679.15 ft Jan. 8, contents, 4,670 mil ft^3; minimum observed, 1,667.03 ft Nov. 16, contents, 1,863 mil ft^3.

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, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1672.26	1667.82	1668.43	1677.68	1676.78	1673.52	1673.04	1678.20	1676.31	1675.15	1672.09	1667.63
2	1672.11	1667.70	1668.51	1678.21	1676.62	1673.54	1673.33	1678.10	1676.30	1675.06	1671.91	1667.53
3	1671.93	1667.62	1668.58	1678.66	1676.43	1673.57	1673.54	1677.97	1676.24	1674.97	1671.72	1667.43
4	1671.88	1667.52	1668.63	1678.86	1676.24	1673.55	1673.64	1677.82	1676.18	1674.93	1671.53	1667.32
5	1671.79	1667.49	1668.68	1678.99	1676.06	1673.71	1673.70	1677.70	1676.10	1674.85	1671.33	1667.33
6	1671.66	1667.45	1668.83	1679.07	1675.90	1673.72	1673.87	1677.67	1676.04	1674.78	1671.14	1667.53
7	1671.51	1667.43	1668.93	1679.12	1675.72	1673.56	1674.37	1677.66	1675.98	1674.77	1670.93	1667.89
8	1671.37	1667.38	1669.01	1679.15	1675.44	1673.34	1674.69	1677.64	1675.89	1674.78	1670.75	1668.15
9	1671.26	1667.29	1669.08	1678.99	1675.18	1673.12	1674.86	1677.58	1675.83	1674.70	1670.54	1668.34
10	1671.11	1667.28	1669.12	1678.82	1674.90	1672.88	1675.03	1677.51	1675.70	1674.61	1670.34	1668.52
11	1670.97	1667.22	1669.17	1678.77	1674.64	1672.62	1675.11	1677.52	1675.64	1674.54	1670.12	1668.64
12	1670.87	1667.19	1669.23	1678.70	1674.37	1672.43	1675.19	1677.53	1675.66	1674.46	1669.96	1668.73
13	1670.74	1667.21	1669.28	1678.63	1674.06	1672.32	1675.27	1677.69	1675.67	1674.37	1669.72	1668.80
14	1670.54	1667.17	1669.48	1678.57	1673.78	1672.43	1675.34	1677.76	1675.77	1674.25	1669.50	1668.85
15	1670.43	1667.13	1669.65	1678.49	1673.49	1672.49	1675.46	1677.80	1675.80	1674.18	1669.31	1668.88
16	1670.28	1667.03	1669.79	1678.41	1673.20	1672.51	1675.82	1677.78	1675.80	1674.17	1669.23	1668.90
17	1670.13	1667.09	1669.92	1678.32	1672.93	1672.53	1676.28	1677.76	1675.79	1674.06	1669.08	1668.93
18	1669.94	1667.08	1670.17	1678.22	1672.67	1672.53	1676.60	1677.67	1675.78	1673.98	1669.02	1668.93
19	1669.75	1667.12	1670.35	1678.12	1672.37	1672.52	1676.95	1677.58	1675.81	1673.93	1668.90	1668.92
20	1669.65	1667.16	1670.52	1678.02	1672.04	1672.48	1677.22	1677.50	1675.80	1673.87	1668.70	1668.87
21	1669.45	1667.26	1670.63	1677.96	1671.76	1672.47	1677.49	1677.45	1675.76	1673.84	1668.45	1668.82
22	1669.34	1667.34	1670.78	1677.87	1671.51	1672.43	1677.82	1677.35	1675.71	1673.77	1668.26	1668.78
23	1669.19	1667.41	1670.92	1677.77	1671.26	1672.37	1678.13	1677.24	1675.66	1673.65	1668.05	1668.72
24	1669.03	1667.50	1671.02	1677.71	1671.56	1672.23	1678.30	1677.12	1675.58	1673.53	1667.92	1668.67
25	1668.88	1667.57	1671.12	1677.64	1672.16	1672.09	1678.44	1677.02	1675.52	1673.37	1667.90	1668.72
26	1668.77	1667.65	1671.18	1677.53	1672.78	1671.97	1678.46	1676.90	1675.45	1673.18	1667.83	1668.68
27	1668.62	1667.71	1671.24	1677.43	1673.16	1671.84	1678.44	1676.82	1675.39	1673.01	1667.83	1668.72
28	1668.48	1667.78	1671.28	1677.34	1673.47	1671.82	1678.42	1676.76	1675.31	1672.83	1667.76	1669.73
29	1668.33	1668.01	1672.54	1677.23	---	1672.01	1678.35	1676.66	1675.26	1672.64	1667.69	1670.23
30	1668.14	1668.27	1676.02	1677.11	---	1672.28	1678.28	1676.54	1675.20	1672.46	1667.61	1670.52
31	1667.98	---	1677.08	1676.94	---	1672.72	---	1676.40	---	1672.26	1667.70	---
MEAN	1670.21	1667.43	1670.30	1678.20	1673.95	1672.70	1676.05	1677.44	1675.76	1674.03	1669.45	1668.59
MAX	1672.26	1668.27	1677.08	1679.15	1676.78	1673.72	1678.46	1678.20	1676.31	1675.15	1672.09	1670.52
MIN	1667.98	1667.03	1668.43	1676.94	1671.26	1671.82	1673.04	1676.40	1675.20	1672.26	1667.61	1667.32
‡	2016	2112	4200	4025	3195	3064	4407	3896	3598	2888	1976	2562
‡‡	-337	+37.0	+780	-65.3	-343	-48.9	+518	-191	-115	-265	-340	+226

CAL YR 1984 MEAN 1673.80 MAX 1678.63 MIN 1667.03 ‡‡ +12.1
WTR YR 1985 MEAN 1672.84 MAX 1679.15 MIN 1667.03 ‡‡ -11.3

‡ Contents, in millions of cubic feet, at 2400 hours on last day of month by interpolation.
‡‡ Change in contents, equivalent in cubic feet per second.

04257000 BEAVER RIVER BELOW STILLWATER DAM, NEAR BEAVER RIVER, NY

LOCATION.--Lat 43°53'56", long 75°03'08", Herkimer County, Hydrologic Unit 04150101, in gatehouse at Stillwater Dam, 2.5 mi upstream from Moshier Creek, and 7.5 mi west of Beaver River Post Office.

DRAINAGE AREA.--171 mi^2.

PERIOD OF RECORD.--May 1908 to current year. Published as "at State dam, near Beaver River" prior to June 1924.

REVISED RECORDS.--WDR NY-73-1: 1971. WDR NY-82-1: Drainage area.

GAGE.--Nonrecording gage read once daily and after reservoir gate changes. Datum of gage is National Geodetic Vertical Datum, 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 downstream at same datum.

REMARKS.--No estimated daily discharges. 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 and adjusted based on discharge measurements made during the year. Several measurements of water temperature were made during the year.

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

AVERAGE DISCHARGE.--77 years, 383 ft^3/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 3,700 ft^3/s May 3, 1926; minimum, practically no flow at times when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,050 ft^3/s Feb. 8; minimum daily, 49 ft^3/s Nov. 20-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	481	467	360	59	768	568	53	805	359	352	596	354
2	549	351	362	64	767	569	53	802	359	352	594	354
3	547	350	362	384	764	569	231	797	359	351	590	353
4	546	350	362	592	761	569	377	792	359	350	588	351
5	544	349	255	597	759	569	377	789	357	338	586	218
6	544	348	182	602	756	780	378	786	357	168	584	140
7	544	348	182	604	962	1010	381	786	356	168	580	63
8	539	348	182	907	1050	1010	384	786	354	278	578	63
9	538	347	183	1040	1040	1010	386	638	354	327	575	142
10	537	347	183	748	1040	1000	387	432	354	326	572	177
11	415	347	183	590	1030	998	388	368	354	326	569	177
12	531	347	183	589	1030	994	388	368	354	325	567	177
13	530	347	184	588	1020	550	388	369	354	325	564	178
14	530	347	184	586	1020	351	388	371	354	324	561	178
15	528	346	184	584	1010	351	388	372	354	324	372	178
16	526	346	185	580	1010	352	389	461	354	324	260	149
17	554	346	185	578	1000	353	393	535	354	323	260	178
18	567	346	186	575	998	353	395	534	354	238	260	178
19	564	241	187	574	994	353	397	534	354	166	445	219
20	564	49	187	571	989	352	399	532	354	166	551	258
21	560	49	187	568	984	351	401	531	354	166	548	258
22	558	49	188	565	979	512	427	530	354	274	546	258
23	557	49	188	564	296	598	579	529	354	341	440	257
24	554	49	189	562	51	597	585	528	354	495	263	257
25	554	49	189	561	52	595	706	528	354	610	263	257
26	423	49	189	560	52	594	812	527	353	608	263	257
27	549	49	189	557	53	592	812	525	353	606	263	141
28	547	49	189	554	315	591	812	525	353	605	263	50
29	546	240	129	554	---	594	809	525	353	602	318	51
30	544	360	54	697	---	186	807	524	352	599	354	51
31	540	---	56	771	---	52	---	427	---	597	354	---
TOTAL	16610	7659	6208	17925	21550	17923	13670	17556	10642	11354	14127	5922
MEAN	536	255	200	578	770	578	456	566	355	366	456	197
MAX	567	467	362	1040	1050	1010	812	805	359	610	596	354
MIN	415	49	54	59	51	52	53	368	352	166	260	50
Adjusted for change in contents in Stillwater Reservoir												
MEAN	199	292	980	513	427	529	974	376	240	101	115	423
CFSM	1.16	1.71	5.73	3.00	2.50	3.09	5.70	2.20	1.40	0.59	0.67	2.47
IN	1.34	1.91	6.61	3.46	2.60	3.57	6.36	2.53	1.56	0.68	0.78	2.76

		Observed					Adjusted		
CAL YR 1984	TOTAL 170592	MEAN 466	MAX 1020	MIN 49	MEAN 478	CFSM 2.80	IN 38.08
WTR YR 1985	TOTAL 161146	MEAN 441	MAX 1050	MIN 49	MEAN 430	CFSM 2.51	IN 34.16

STREAMS TRIBUTARY TO LAKE ONTARIO

04258000 BEAVER RIVER AT CROGHAN, NY

LOCATION.--Lat 43°53'50", long 75°24'16", Lewis County, Hydrologic Unit 04150101, on left bank 1,200 ft upstream from Black Creek, and 0.5 mi west of Croghan.

DRAINAGE AREA.--291 mi^2.

PERIOD OF RECORD.--September 1930 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 806.20 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Feb. 17-24. Records good except those for estimated daily discharges, which are fair. Flow regulated by Stillwater Reservoir (see station 04256500). Between Stillwater Dam and this station, flow is further regulated by several powerplant ponds. Diurnal fluctuation at low and medium flow. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--55 years, 600 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft^3/s May 21, 1969, gage height, 6.98 ft; minimum, 11 ft^3/s Jan. 22, 29, Feb. 4, 1967, gage height, 0.63 ft; minimum daily, 22 ft^3/s July 18, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,840 ft^3/s Dec. 30, gage height, 6.83 ft; minimum, 192 ft^3/s Sept. 12, gage height, 1.84 ft; minimum daily, 217 ft^3/s Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	557	445	713	1790	706	1050	1100	849	804	602	611	486
2	749	574	657	1560	976	1050	1030	841	832	366	609	378
3	797	476	633	1360	946	1020	993	852	821	448	623	360
4	908	345	612	1150	915	892	979	836	817	420	587	266
5	892	404	601	1020	928	868	982	836	608	312	523	264
6	857	407	594	997	915	940	972	845	641	326	563	450
7	835	398	608	950	772	914	1190	891	605	396	612	515
8	818	365	387	882	875	980	1190	869	407	482	609	344
9	499	463	376	922	882	994	993	935	343	603	532	303
10	617	461	382	956	885	992	918	1390	479	543	614	324
11	525	469	414	990	888	960	848	1120	555	531	559	316
12	491	459	473	973	902	1090	689	925	577	497	532	234
13	509	450	635	922	1010	1350	697	918	482	468	547	217
14	467	412	740	811	1080	1380	720	889	457	453	585	227
15	499	367	584	812	1080	1150	725	905	740	425	590	224
16	438	493	544	858	1100	1050	777	872	758	473	584	227
17	441	411	578	762	1080	1000	1090	834	729	338	582	224
18	621	444	621	793	1100	828	1110	387	656	414	580	254
19	800	522	518	775	1100	821	1100	476	669	361	554	277
20	640	492	627	806	1100	714	1100	346	668	477	540	294
21	620	391	563	774	1100	635	1010	659	580	333	532	255
22	498	314	553	770	1100	647	976	649	579	400	309	253
23	413	315	548	882	1200	710	945	457	641	491	325	403
24	611	313	604	836	1350	877	876	515	620	566	267	349
25	587	315	535	747	1400	820	898	457	575	568	266	343
26	577	317	525	766	1210	681	976	436	533	565	269	356
27	625	318	515	753	1140	844	916	506	513	633	267	614
28	714	567	570	819	1060	948	868	597	664	593	309	1010
29	763	640	1100	702	---	1020	860	731	770	576	511	908
30	755	660	4050	690	---	1120	849	749	712	620	524	901
31	385	---	2410	702	---	976	---	787	---	650	524	---
TOTAL	19508	13007	23270	28530	28800	29321	28377	23359	18835	14930	15639	11576
MEAN	629	434	751	920	1029	946	946	754	628	482	504	386
MAX	908	660	4050	1790	1400	1380	1190	1390	832	650	623	1010
MIN	385	313	376	690	706	635	689	346	343	312	266	217

CAL YR 1984 TOTAL 253719 MEAN 693 MAX 4050 MIN 268
WTR YR 1985 TOTAL 255152 MEAN 699 MAX 4050 MIN 217

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 upstream from Philomel Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--1,864 mi^2, revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1920 to current year.

REVISED RECORDS.--WDR NY-77-1: 1974. WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 373.88 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 3, 1921, nonrecording gage, and from Sept. 3, 1921 to Mar. 15, 1977, recording gage at same site at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 8, 10-18, 24-27, and Feb. 2-11. Records good except those for estimated daily discharges, which are fair. Flow regulated by Stillwater Reservoir (see station 04256500), Fulton Chain of Lakes, 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). Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--65 years, 4,033 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,900 ft^3/s Dec. 31, 1984, gage height, 13.15 ft; minimum, 10 ft^3/s Sept. 2, 1934, gage height, 0.81 ft present datum; minimum daily discharge, 137 ft^3/s Sept. 4, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 39,700 ft^3/s Apr. 23, 1869 (from New York State Museum Bulletin 85).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 17,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 31	1645	*42,900	*13.15	No other peak greater than base discharge.			

Minimum discharge, 69 ft^3/s Aug. 15, gage height, 1.10 ft; minimum daily discharge, 755 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2240	2210	6980	37900	2410	12000	11900	3840	2010	3860	1330	1350
2	2380	2070	7590	28600	2400	11200	11800	3560	2150	2910	1210	1400
3	2560	2080	7350	22200	2400	10300	10800	3180	2520	2130	1330	1200
4	2620	2180	6480	17800	2400	8680	9470	3090	2300	1730	1220	1140
5	3810	2040	5540	13500	2400	5260	8810	2950	2120	1780	1250	929
6	4050	3040	4760	11000	2300	4550	9820	3020	1940	1470	1170	1070
7	3520	4530	3660	8810	2300	4840	11000	3650	1860	1250	1070	1800
8	3210	4580	3570	5800	2300	5260	12600	4920	1890	1420	1140	2250
9	2730	4180	3370	4230	2300	5530	13900	5380	1610	1370	1190	2110
10	2100	3520	4010	4200	2300	5800	12500	5120	1550	1660	1050	2200
11	2270	3140	3970	4000	2300	5710	10600	4640	2090	1530	1100	3540
12	2080	3060	4010	3900	2320	7190	8840	3740	1360	1500	1090	2480
13	1960	3620	4600	3800	2440	9370	7570	3540	2470	1280	1160	1820
14	1930	3900	6450	3800	2630	10200	6690	4430	3730	1270	1230	1490
15	1820	4020	6440	3700	2890	9940	6600	4790	4190	1340	945	1250
16	1850	3530	6250	3600	2940	8860	7250	4290	3820	2000	1090	1160
17	1760	3050	6320	3500	2910	7460	7880	3600	3000	2440	1130	1070
18	1730	3570	6730	3500	2770	5970	9130	3210	2870	2180	1120	1070
19	1860	3880	6680	3500	2780	4800	10800	2780	3020	1790	1090	1020
20	2050	3980	6320	3510	2860	4300	11100	2770	3000	1440	1070	986
21	2140	3880	5840	3480	2730	4260	11000	2590	2590	1250	942	1010
22	2250	3170	5250	3530	2680	4110	10500	2620	2300	1110	969	890
23	2370	2710	5900	3470	3200	3880	10000	2560	1960	1150	787	960
24	2330	2430	5860	3200	7000	4060	9500	2170	1830	1200	755	1020
25	2390	2590	5400	3000	14300	4280	8810	2070	1920	1110	906	1130
26	2260	2630	4440	2900	14500	4140	8010	1980	1770	1010	789	1480
27	2240	2730	3540	2900	14800	3990	7140	1840	1540	1150	1050	2090
28	2380	2660	3190	2900	13200	5320	6160	2090	1560	1450	1280	5500
29	2490	3910	12100	2910	---	8490	5210	2330	1660	1510	1230	7780
30	2560	6190	22800	2710	---	9750	4510	2420	2810	1420	1370	9450
31	2500	---	39200	2690	---	11000	---	2310	---	1400	1300	---
TOTAL	74440	99080	224600	224540	122760	210500	279900	101480	69440	50110	34363	62645
MEAN	2401	3303	7245	7243	4384	6790	9330	3274	2315	1616	1108	2088
MAX	4050	6190	39200	37900	14800	12000	13900	5380	4190	3860	1370	9450
MIN	1730	2040	3190	2690	2300	3880	4510	1840	1360	1010	755	890

CAL YR 1984 TOTAL 1690070 MEAN 4618 MAX 39200 MIN 1150
WTR YR 1985 TOTAL 1553858 MEAN 4257 MAX 39200 MIN 755

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956-60, 1962 to current year.
CHEMICAL DATA: 1956 (e), 1959 (a), 1960 (b), 1965 (a), 1966-81 (d), 1982-85 (c).
MINOR ELEMENTS DATA: 1970-71 (a), 1974-79 (b), 1980 (c), 1981-85 (b).
PESTICIDE DATA: 1975-79 (b), 1980-82 (a).
ORGANIC DATA: OC--1973 (c), 1974 (a), 1975 (c), 1976-77 (b), 1978-81 (d).
PCB--1978-79 (b), 1980-82 (a).
NUTRIENT DATA: 1968 (b), 1969-81 (d), 1982-85 (c).
BIOLOGICAL DATA:
Bacteria--1973-81 (d), 1982-85 (c).
Phytoplankton--1975-77 (d), 1978-79 (c), 1980 (b), 1981 (c).
Periphyton--1975-80 (b).
SEDIMENT DATA: 1975-76 (d), 1977 (c), 1978-81 (d), 1982-85 (c).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1955 to September 1959, July 1962 to March 1969.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
25...	0915	2620	81	7.6	12.5	1.3	760	10.8	102	350	72
FEB											
12...	1400	2430	85	6.9	.5	1.5	750	12.8	90	240	240
MAR											
26...	1315	4280	102	7.5	4.0	1.5	760	13.3	102	K17	K20
MAY											
07...	1330	2660	84	7.3	10.0	1.1	755	11.2	100	230	K30
JUL											
09...	1330	853	92	7.8	23.0	1.5	750	7.9	94	790	180
AUG											
13...	1400	510	89	7.4	24.0	.90	755	9.0	108	K230	920

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
25...	32	8	11	1.2	4.2	.80	24	30	13	3.2
FEB										
12...	35	10	12	1.3	4.4	.80	26	31	11	3.7
MAR										
26...	46	11	16	1.4	3.6	.80	34	42	9.1	3.9
MAY										
07...	32	7	11	1.2	4.2	.70	25	31	10	2.9
JUL										
09...	37	6	13	1.2	4.4	.70	31	38	12	3.0
AUG										
13...	32	5	11	1.2	5.3	.70	28	34	12	2.3

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT										
25...	<.10	5.4	60	54	.16	.030	.30	.030	<.010	<.010
FEB										
12...	.10	7.2	68	56	.50	.090	.80	.030	.100	.020
MAR										
26...	<.10	5.9	76	62	.51	.060	.60	.020	<.010	<.010
MAY										
07...	<.10	5.3	56	51	.34	.040	.30	.020	<.010	<.010
JUL										
09...	.20	5.5	70	59	.36	.540	.50	<.010	<.010	<.010
AUG										
13...	.10	4.8	62	54	.23	.020	.30	.030	<.010	<.010

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

04260500 BLACK RIVER AT WATERTOWN, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT 25...	50	<1	15	<.5	<1	<1	<3	2	250	3
FEB 12...	--	--	--	--	--	--	--	--	--	--
MAR 26...	100	<1	15	<.5	1	<1	<3	1	140	<1
MAY 07...	150	<1	17	.5	<1	3	<3	2	180	1
JUL 09...	--	--	--	--	--	--	--	--	--	--
AUG 13...	30	<1	15	.9	<1	1	<3	3	170	4

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 25...	<4	11	<.1	<10	1	<1	<1	31	<6	9
FEB 12...	--	--	--	--	--	--	--	--	--	--
MAR 26...	12	34	.3	<10	<1	<1	<1	39	<6	11
MAY 07...	<4	25	.2	<10	1	<1	1	31	<6	17
JUL 09...	--	--	--	--	--	--	--	--	--	--
AUG 13...	5	4	<.1	<10	3	<1	<1	33	<6	12

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SAMPLING DEPTH (FEET)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	BAROMETRIC PRESSURE (MM OF HG)
JUL 09...	1250	245	1.0	2.2	92	7.3	23.0	7.9	94	750
09...	1254	195	1.0	4.4	90	7.3	23.0	8.1	96	750
09...	1256	195	3.0	4.4	90	7.3	23.0	8.1	96	750
09...	1300	145	1.0	4.7	92	7.3	23.0	7.9	94	750
09...	1302	145	3.3	4.7	92	7.3	23.0	7.9	94	750
09...	1306	95	1.0	3.2	93	7.4	23.0	8.0	95	750
09...	1308	95	2.2	3.2	92	7.3	23.0	7.9	94	750
09...	1312	45	1.0	4.2	93	7.3	23.0	8.1	96	750
09...	1315	45	3.2	4.2	93	7.3	23.0	8.2	97	750

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 25...	0915	2620	3	21	58	MAY 07...	1330	2660	7	50	93
FEB 12...	1400	2430	8	52	49	JUL 09...	1330	853	2	4.6	84
MAR 26...	1315	4280	3	35	96	AUG 13...	1400	510	3	4.1	95

LAKES AND RESERVOIRS IN STREAMS TRIBUTARY TO LAKE ONTARIO

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 upstream from dam at Old Forge. DRAINAGE AREA, 18.6 mi^2. PERIOD OF RECORD, November 1911 to current year. GAGE, nonrecording gage read daily at 0800. Datum of gage is National Geodetic Vertical Datum of 1929 (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 ft 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 ft^3 between minimum operating level, elevation 1,775.1 ft and crest of spillway, elevation 1,786.0 ft; no dead storage below minimum operating level. Figures given herein represent total contents. The dam is operated, records collected, provided, and stored by Board of Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 332 mil ft^3 Oct. 3, 1945, elevation, 1,787.1 ft; minimum observed, less than 0.90 mil ft^3 Nov. 18, 1943, water level below elevation 1,775.6 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 315.8 mil ft^3 Dec. 30, elevation, 1,786.60 ft; minimum observed, 192.9 mil ft^3 Feb. 23, elevation, 1,782.70 ft.

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 downstream from bridge on State Highway 28 at Old Forge, 11.2 mi downstream from dam on Sixth Lake outlet at Inlet. DRAINAGE AREA, 53.6 mi^2, revised. PERIOD OF RECORD, November 1911 to current year. GAGE, nonrecording gage read daily at 0800. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by 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 ft^3, elevation, 1,707.0 ft. Usable capacity without flashboards, 764.3 mil ft^3, elevation, 1,706.1 ft; no dead storage below minimum operating level. Figures given herein represent total contents. The dam is operated, records collected, provided, and stored by Board of Hudson River-Black River Regulating District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 1,019 mil ft^3 June 17, 1972, elevation, 1,707.9 ft; minimum observed, 6.50 mil ft^3 Nov.3, 1939, elevation, 1,699.8 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 895.8 mil ft^3 June 16 and July 16, elevation, 1,707.04 ft; minimum observed, 460.7 mil ft^3 Feb. 22, elevation, 1,703.70 ft.

04256500 STILLWATER RESERVOIR NEAR BEAVER RIVER, NY (see station for daily elevation, skeleton capacity table, monthly contents, and change in contents).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

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)
	04253300 Sixth Lake			04253400 First Lake		
Sept. 30	1,785.50	280.6		1,706.36	803.6	
Oct. 31	1,784.15	238.0	-15.9	1,705.94	748.9	- 20.4
Nov. 30	1,784.45	247.2	+ 3.55	1,704.91	615.0	- 51.7
Dec. 31	1,786.33	307.2	+22.4	1,706.72	852.3	+ 88.6
CAL YR 1984	-	-	+ 1.76	-	-	+ 8.37
Jan. 31	1,784.35	244.2	-23.5	1,704.33	539.6	-117
Feb. 28	1,783.23	209.3	-14.4	1,704.74	592.9	+ 22.0
Mar. 31	1,784.04	234.5	+ 9.42	1,704.87	609.8	+ 6.32
Apr. 30	1,785.33	275.2	+15.7	1,705.62	707.3	+ 37.6
May 31	1,785.35	275.8	+ 0.22	1,706.87	872.8	+ 61.8
June 30	1,785.37	276.4	+ 0.23	1,706.93	880.6	+ 3.01
July 31	1,784.90	261.6	- 5.53	1,706.87	872.8	- 2.91
Aug. 31	1,784.65	253.6	- 2.99	1,706.90	876.7	+ 1.45
Sept. 30	1,784.32	243.2	- 4.01	1,706.51	824.0	- 20.3
WTR YR 1985	-	-	- 1.19	-	-	+ 0.65

* Elevation at 2400 hours, by interpolation.

04262500 WEST BRANCH OSWEGATCHIE RIVER NEAR HARRISVILLE, NY

LOCATION.--Lat 44°11'08", long 75°19'52", St. Lawrence County, Hydrologic Unit 04150302, on right bank just downstream from highway bridge, 0.5 mi northeast of Geers Corners, 1.5 mi downstream from Big Creek, and 4.0 mi downstream from Harrisville.

DRAINAGE AREA.--244 mi^2.

PERIOD OF RECORD.--July 1916 to current year.

REVISED RECORDS.--WSP 784: 1934. WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 738.51 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 30, 1933, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Dec. 8-10, 27, Jan. 7 to Feb. 18, Feb. 24 to Mar. 4, and Mar. 6-7. Records good except those for estimated daily discharges, which are fair. Since June 1985, extensive diurnal fluctuation and slight regulation caused by powerplant upstream from station. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--69 years, 516 ft^3/s, 28.72 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,080 ft^3/s Mar. 15, 1977, gage height, 9.31 ft; maximum gage height, 9.6 ft Jan. 9, 1930; minimum discharge prior to regulation, 25 ft^3/s Sept. 1, 1934, gage height, 0.86 ft; minimum discharge since regulation, 20 ft^3/s Aug. 11, 1985, gage height, 0.83 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 30	1900	*6,070	a*8.74	Sept. 29	0200	4,180	e7.13
Feb. 26	0100	b3,800	cd7.42				

a Recorded in well; outside gage height was 9.09 ft, from crest-stage gage.
b Estimated.
c Ice jam.
d Recorded in well; outside gage height was 7.72 ft, from crest-stage gage.
e Recorded in well; outside gage height was 7.55 ft, from crest-stage gage.

Minimum discharge, 20 ft^3/s Aug. 11, gage height, 0.83 ft (result of regulation).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	156	1180	3340	220	1600	1890	363	246	231	78	94
2	202	147	1180	2420	220	1350	1680	332	214	194	75	110
3	182	148	1070	1990	220	1200	1390	305	198	183	91	87
4	201	147	876	1470	210	1050	1130	283	191	173	59	99
5	244	170	695	1100	210	919	1040	277	164	167	67	155
6	242	267	514	845	200	920	1340	346	158	155	53	618
7	219	324	462	700	200	900	2330	503	179	152	58	1580
8	206	326	450	640	200	824	2520	643	180	212	105	1800
9	193	295	440	560	200	765	2010	611	169	222	65	1120
10	180	272	440	500	190	719	1480	509	154	187	43	734
11	172	289	426	440	190	676	1090	438	144	157	21	559
12	161	313	417	390	190	862	879	395	164	184	43	434
13	149	332	499	360	190	1310	749	381	342	179	52	311
14	148	330	761	340	190	1460	681	402	606	168	47	247
15	135	301	865	320	190	1260	688	367	758	169	50	208
16	128	324	853	300	190	1010	859	323	689	219	73	180
17	125	477	840	290	190	868	1120	319	554	304	72	165
18	121	529	895	280	190	696	1290	309	504	224	70	136
19	119	496	927	270	188	609	1320	282	579	195	63	133
20	122	410	842	260	186	578	1260	264	578	171	58	111
21	131	384	690	260	183	526	1120	267	467	149	55	123
22	162	326	658	250	199	482	1010	274	361	124	45	87
23	254	305	787	250	296	474	1020	257	313	105	45	96
24	250	281	837	250	740	488	1010	214	331	110	44	84
25	223	273	718	240	2800	505	892	195	291	98	64	93
26	202	270	583	240	3600	492	739	164	234	96	60	132
27	204	271	600	230	2800	497	608	219	220	96	74	282
28	206	295	643	230	2000	760	517	397	197	90	84	2430
29	198	515	2280	230	---	1570	451	453	185	83	87	3700
30	180	916	5830	230	---	2270	405	323	228	99	89	2500
31	168	---	5210	220	---	2140	---	266	---	66	119	---
TOTAL	5657	9889	33468	19445	16582	29780	34518	10681	9598	4962	2009	18408
MEAN	182	330	1080	627	592	961	1151	345	320	160	64.8	614
MAX	254	916	5830	3340	3600	2270	2520	643	758	304	119	3700
MIN	119	147	417	220	183	474	405	164	144	66	21	84
CFSM	.75	1.35	4.43	2.57	2.43	3.94	4.72	1.41	1.31	.66	.27	2.52
IN.	0.86	1.51	5.10	2.96	2.53	4.54	5.26	1.63	1.46	0.76	0.31	2.81

CAL YR 1984 TOTAL 200873 MEAN 549 MAX 5830 MIN 82 CFSM 2.25 IN. 30.62
WTR YR 1985 TOTAL 194997 MEAN 534 MAX 5830 MIN 21 CFSM 2.19 IN. 29.73

04263000 OSWEGATCHIE RIVER NEAR HEUVELTON, NY
(National stream-quality accounting network station)

LOCATION.--Lat 44°35'58", long 75°22'45", St. Lawrence County, Hydrologic Unit 04150302, on right bank 1.5 mi downstream from Beaver Creek, and 2.5 mi upstream from Heuvelton. Water-quality sampling site at discharge station.

DRAINAGE AREA.--965 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 288.85 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 16, 1916, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 9-24 and Feb. 25 to Mar. 16. Records good except those for estimated daily discharges, which are fair. 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 upstream from station. In October 1973, a dike was installed on Indian Creek to prevent overflow of Grass River during high flows. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--69 years, 1,730 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s Apr. 6, 1960, gage height, 10.36 ft; minimum recorded, 130 ft³/s Aug. 17, 1949, gage height, 0.47 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,400 ft³/s Feb. 28, gage height, 7.63 ft; minimum, 209 ft³/s Aug. 14, 15, gage height, 0.75 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	673	549	1800	8620	1280	10900	5030	967	1140	915	474	425
2	538	488	2220	9010	1320	9810	5190	921	985	943	420	363
3	520	505	2160	8280	1250	8650	5120	872	690	708	326	385
4	633	618	2190	6960	1190	7900	4460	931	631	643	361	534
5	765	528	2080	5500	1170	6200	4140	857	744	676	364	704
6	818	456	1810	4250	1140	5000	3970	746	490	562	350	912
7	676	519	1540	3470	1160	3900	4160	850	504	654	293	2330
8	773	695	1100	2980	1150	3660	4850	1220	584	426	301	3640
9	601	860	1460	2700	997	3430	5260	1430	719	374	308	3970
10	526	918	1210	2300	918	3380	4980	1270	540	601	263	3380
11	632	644	1140	2200	1090	3530	4340	1190	402	540	288	2600
12	740	558	1230	2000	984	4400	3530	1040	525	587	265	2190
13	751	614	1330	1900	969	5500	3010	944	662	630	230	1860
14	587	693	1580	2100	1080	6400	2750	951	845	571	212	1500
15	457	983	2190	2300	1120	6600	2590	1000	1380	505	219	1190
16	352	1010	2490	2100	1130	6000	2460	1050	1570	592	238	1020
17	370	850	2120	1900	936	4650	2540	1020	1530	1110	237	1040
18	607	769	2220	1700	726	3910	2610	986	1310	864	369	904
19	553	927	2250	1800	699	3190	3010	893	1300	936	424	887
20	530	864	2220	1700	658	2720	3060	711	1330	733	264	942
21	564	976	2180	1500	820	2640	2920	600	1320	592	266	1000
22	541	977	2200	1400	975	2390	2420	686	1270	507	306	961
23	383	950	2070	1350	1210	2320	1980	670	1190	462	327	1020
24	531	857	2090	1450	3510	2270	1930	719	1140	402	347	1060
25	669	807	2190	1590	7760	2110	1930	686	1080	527	334	1150
26	678	618	1930	1280	9460	1860	1930	623	1180	509	268	912
27	591	566	1690	996	10600	2030	1560	646	1020	496	314	1020
28	551	723	1280	844	11300	2130	1370	600	960	545	396	2290
29	555	756	2420	1110	---	2830	1160	1040	952	500	349	4960
30	467	1020	5240	1280	---	3960	991	1370	943	597	309	5990
31	479	---	7220	1180	---	4720	---	1310	---	512	380	---
TOTAL	18111	22298	66850	87750	66602	138990	95251	28799	28936	19219	9802	51139
MEAN	584	743	2156	2831	2379	4484	3175	929	965	620	316	1705
MAX	818	1020	7220	9010	11300	10900	5260	1430	1570	1110	474	5990
MIN	352	456	1100	844	658	1860	991	600	402	374	212	363

CAL YR 1984 TOTAL 613544 MEAN 1676 MAX 12000 MIN 222
WTR YR 1985 TOTAL 633747 MEAN 1736 MAX 11300 MIN 212

04263000 OSWEGATCHIE RIVER NEAR HEUVELTON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960, 1966-69, 1971-72, 1978 to current year.
CHEMICAL DATA: 1960 (a), 1966 (b), 1968-69 (d), 1971-72 (a), 1978 (c), 1979-80 (d), 1981-82 (c), 1983-85 (b).
MINOR ELEMENTS DATA: 1978-79 (b), 1980 (c), 1981-85 (b).
ORGANIC DATA: OC--1978 (c), 1979-80 (d), 1981 (c).
NUTRIENT DATA: 1978 (c), 1979-80 (d), 1981-82 (c), 1983-85 (b).
BIOLOGICAL DATA:
Bacteria--1978 (c), 1979-80 (d), 1981-82 (c), 1983-85 (b).
Phytoplankton--1978-80 (c), 1981 (b).
Periphyton--1978-80 (b).
SEDIMENT DATA: 1978 (c), 1979-80 (d), 1981-85 (c).

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (water years 1978-81): Maximum daily, 155 microsiemens Jan. 31, 1981; minimum daily, 22 microsiemens sometime in February 1980.
WATER TEMPERATURES (water years 1978-81): Maximum daily, 28.0°C July 28, 1978 and July 23-28, 1979; minimum daily, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
19...	0845	574	74	7.2	13.5	.90	755	9.8	95	20	K8
MAR											
13...	1000	5640	92	7.2	.0	6.5	750	13.4	93	250	920
JUN											
13...	1130	643	111	7.2	18.0	.80	750	8.7	94	K18	K24
AUG											
12...	1100	286	84	7.2	24.0	.70	765	7.5	89	40	K6

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
19...	33	11	9.8	2.0	3.2	.60	22	27	14	3.0
MAR										
13...	41	12	11	3.3	2.8	1.1	29	35	12	4.2
JUN										
13...	46	12	13	3.3	3.2	.80	35	42	17	4.3
AUG										
12...	37	15	11	2.4	2.7	.70	23	28	13	3.1

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT										
19...	.10	5.4	54	52	.17	.020	.30	<.010	<.010	<.010
MAR										
13...	.10	5.4	67	58	.32	.110	.80	.050	<.010	.030
JUN										
13...	.20	3.5	83	66	--	--	1.4	<.010	<.010	--
AUG										
12...	.20	3.0	57	50	.14	.020	.30	.040	<.010	<.010

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

04263000 OSWEGATCHIE RIVER NEAR HEUVELTON, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT 19...	50	<1	19	<.5	<1	2	<3	2	330	2
MAR 13...	100	<1	19	<.5	<1	<1	<3	1	170	1
JUN 13...	30	<1	26	<.5	<1	1	<3	1	260	<1
AUG 12...	<10	<1	22	1.0	<1	1	<3	1	220	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 19...	<4	17	<.1	<10	2	<1	<1	45	<6	9
MAR 13...	7	24	.1	<10	<1	<1	<1	44	<6	13
JUN 13...	7	24	<.1	<10	<1	<1	<1	67	<6	23
AUG 12...	4	22	.2	<10	4	<1	<1	53	<6	8

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SAMPLING DEPTH (FEET)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	BAROMETRIC PRESSURE (MM OF HG)
AUG 12...	1115	200	1.0	1.2	84	6.8	24.5	7.8	93	765
12...	1120	160	1.0	1.4	85	6.8	24.5	7.5	90	765
12...	1125	120	1.0	1.8	84	6.8	24.5	7.5	90	765
12...	1130	80	1.0	1.3	84	6.8	24.5	7.5	90	765
12...	1135	40	1.0	1.2	84	6.8	24.5	7.4	88	765

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 19...	0845	574	2	3.1	89	JUN 13...	1130	643	3	5.2	67
MAR 13...	1000	5640	27	411	61	AUG 12...	1100	286	2	1.5	70

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 west of Waddington, 2.5 mi upstream from Sucker Brook, and 3.3 mi downstream from Iroquois Dam.

DRAINAGE AREA.--298,500 mi².

PERIOD OF RECORD.--January 1976 to November 1976, November 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 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. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 244.80 ft Apr. 6, 1976; minimum daily, 236.30 ft Feb. 26, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 242.54 ft Apr. 30; minimum daily, 236.69 ft Feb. 13.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240.16	239.91	240.19	239.79	239.36	239.73	241.05	242.36	242.19	241.33	240.74	239.87
2	240.03	240.62	240.30	240.68	239.27	239.81	241.78	242.26	242.18	241.40	240.66	240.15
3	240.32	240.20	239.83	240.93	239.11	239.41	241.69	241.98	242.09	241.56	240.75	240.13
4	240.42	240.05	240.47	241.19	239.04	238.52	241.74	242.18	241.91	241.58	240.80	240.33
5	240.16	240.20	240.21	241.44	238.76	237.29	241.31	242.20	241.71	241.34	240.72	240.23
6	240.16	240.14	239.80	241.54	238.17	236.91	241.48	241.88	241.69	241.36	240.72	240.21
7	240.32	239.96	239.83	240.94	237.68	237.31	242.50	242.09	241.72	241.60	240.77	240.25
8	240.40	239.89	240.47	241.11	237.66	238.14	241.93	242.19	241.76	241.64	240.79	240.23
9	240.31	239.92	240.18	241.70	237.36	238.93	241.69	242.28	241.89	241.54	240.70	239.94
10	240.23	240.07	239.85	241.67	237.19	239.16	241.75	242.39	242.13	241.54	240.67	239.71
11	240.31	240.00	239.70	241.54	237.08	239.36	241.97	242.21	242.06	241.55	240.72	239.79
12	240.30	239.94	239.77	241.63	236.85	239.97	241.64	241.88	241.70	241.54	240.50	239.86
13	240.27	239.94	239.84	241.72	236.69	240.67	241.25	241.96	241.76	241.41	240.45	239.84
14	240.45	239.88	239.27	241.91	237.13	241.17	240.89	241.92	241.98	241.49	240.54	240.05
15	240.24	239.99	239.59	241.83	237.40	241.39	241.30	241.59	241.84	241.43	240.56	239.95
16	239.97	240.66	239.97	241.67	237.46	241.34	241.46	241.74	241.52	241.44	240.54	239.81
17	239.74	240.81	240.43	241.32	237.38	241.21	241.32	241.80	241.44	241.35	240.66	239.69
18	239.74	240.26	240.03	241.11	237.37	241.05	241.31	241.82	241.71	241.26	240.58	239.68
19	---	239.84	239.83	241.27	237.46	241.25	241.01	241.96	242.02	241.33	240.72	239.71
20	---	239.81	240.23	241.61	237.48	241.38	241.05	242.07	241.92	241.47	240.71	239.79
21	---	239.76	239.84	241.42	237.43	241.31	241.23	242.07	241.78	241.38	240.54	239.81
22	---	239.79	239.85	241.07	237.54	241.21	241.29	241.89	241.70	241.53	240.41	239.60
23	---	240.08	240.47	240.82	237.63	241.14	241.12	241.83	241.84	241.44	240.39	239.51
24	---	240.08	240.24	240.57	237.87	240.92	240.91	241.83	241.95	241.31	240.36	239.59
25	---	239.79	240.06	240.34	238.26	240.87	241.28	241.88	241.77	241.34	240.18	239.66
26	---	239.68	240.32	240.16	238.56	241.22	241.86	241.82	241.53	241.36	240.04	239.59
27	239.86	239.56	239.37	240.04	239.14	241.36	242.15	241.78	241.20	241.19	240.33	239.64
28	240.24	239.58	239.29	239.90	239.39	241.45	242.27	241.59	241.08	241.30	240.59	239.68
29	240.20	239.77	240.04	239.81	---	241.43	242.33	241.49	241.13	241.30	240.34	239.69
30	240.07	239.84	239.95	239.69	---	241.28	242.54	241.64	241.23	241.10	240.01	239.63
31	239.99	---	240.16	239.45	---	240.73	---	241.85	---	240.84	239.70	---
MEAN	---	240.00	239.98	240.96	237.92	240.22	241.57	241.95	241.75	241.40	240.52	239.85
MAX	---	240.81	240.47	241.91	239.39	241.45	242.54	242.39	242.19	241.64	240.80	240.33
MIN	---	239.56	239.27	239.45	236.69	236.91	240.89	241.49	241.08	240.84	239.70	239.51

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY
(National stream-quality accounting network station)
(National radiochemical network station)

LOCATION.--Lat 45°00'22", long 74°47'43", Stormont County, Ontario--St. Lawrence County, N.Y., 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 upstream from Grass River, 6.2 mi upstream from Raquette River, and 5.9 mi northeast of Massena, N.Y.. Water-quality samples collected at power dam from taps at generators 17 and 30.

DRAINAGE AREA.--298,800 mi^2.

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 coordinated 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. Prior to Aug. 1956, these were gages of the Canadian Hydrographic Service and from August 1956 to June 1958, were gages of the Hydro-Electric Power Commission of Ontario. Discharge in the reach of river at Cornwall, Ont.--near Massena, N.Y. is considered to be the same as discharge at Ogdensburg, N.Y. 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 provided by Buffalo District, Corps of Engineers through International St. Lawrence River Board of Control.

AVERAGE DISCHARGE.--125 years (1861-1985), 243,900 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 352,000 ft^3/s June 22, 1976; minimum daily, 139,000 ft^3/s Feb. 7, 1936; maximum monthly discharge, 350,000 ft^3/s July 1973; minimum monthly, 154,000 ft^3/s Feb. 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 312,000 ft^3/s Apr. 19; minimum daily, 220,000 ft^3/s Jan. 5-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283000	265000	247000	240000	245000	264000	287000	280000	304000	305000	301000	293000
2	283000	265000	261000	240000	250000	273000	287000	280000	304000	305000	301000	293000
3	283000	265000	262000	240000	250000	273000	288000	280000	304000	300000	299000	293000
4	283000	265000	262000	240000	250000	273000	288000	285000	304000	308000	299000	293000
5	281000	265000	263000	220000	250000	273000	290000	287000	304000	307000	299000	293000
6	270000	265000	262000	220000	250000	270000	296000	290000	304000	303000	299000	293000
7	270000	265000	263000	220000	250000	262000	296000	290000	304000	302000	299000	296000
8	270000	265000	261000	220000	250000	262000	296000	290000	303000	302000	299000	296000
9	270000	265000	261000	220000	255000	265000	296000	292000	298000	302000	299000	296000
10	270000	264000	262000	220000	255000	276000	296000	295000	304000	302000	296000	296000
11	270000	264000	261000	220000	255000	276000	296000	296000	304000	302000	296000	296000
12	270000	264000	261000	220000	255000	280000	296000	301000	304000	302000	296000	296000
13	270000	264000	261000	220000	255000	280000	301000	303000	304000	305000	296000	296000
14	257000	264000	258000	220000	255000	280000	301000	303000	304000	305000	296000	289000
15	273000	264000	246000	220000	255000	280000	301000	304000	310000	305000	296000	300000
16	273000	264000	252000	220000	260000	280000	301000	303000	310000	305000	296000	300000
17	273000	265000	257000	220000	260000	280000	301000	303000	310000	305000	289000	300000
18	273000	265000	261000	220000	260000	280000	305000	300000	310000	305000	294000	300000
19	270000	265000	261000	220000	260000	280000	312000	304000	310000	305000	295000	299000
20	268000	265000	261000	220000	260000	280000	305000	304000	310000	303000	295000	298000
21	268000	265000	261000	223000	260000	280000	305000	305000	310000	303000	295000	296000
22	268000	265000	264000	230000	260000	280000	305000	305000	305000	303000	295000	294000
23	268000	265000	263000	235000	264000	280000	305000	305000	305000	303000	295000	297000
24	268000	259000	264000	235000	264000	280000	304000	305000	305000	303000	293000	296000
25	268000	271000	264000	240000	264000	280000	297000	304000	305000	303000	293000	295000
26	268000	265000	264000	245000	264000	280000	288000	300000	305000	303000	293000	293000
27	265000	265000	264000	245000	264000	281000	280000	305000	305000	300000	293000	294000
28	266000	265000	264000	245000	264000	280000	280000	305000	305000	293000	293000	296000
29	265000	265000	264000	245000	---	280000	280000	305000	305000	302000	293000	296000
30	265000	265000	264000	245000	---	287000	280000	305000	305000	301000	293000	296000
31	265000	---	240000	245000	---	287000	---	304000	---	302000	293000	---
TOTAL	8394000	7943000	8059000	7113000	7184000	8582000	8863000	9238000	9164000	9394000	9169000	8869000
MEAN	270800	264800	260000	229500	256600	276800	295400	298000	305500	303000	295800	295600
MAX	283000	271000	264000	245000	264000	287000	312000	305000	310000	308000	301000	300000
MIN	257000	259000	240000	220000	245000	262000	280000	280000	298000	293000	289000	289000

CAL YR 1984 TOTAL 103232000 MEAN 282100 MAX 312000 MIN 220000
WTR YR 1985 TOTAL 101972000 MEAN 279400 MAX 312000 MIN 220000

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955, 1966 to current year. Prior to October 1970, published as "near Massena, NY."
CHEMICAL DATA: 1955 (a), 1974 (c), 1975-81 (d), 1982-85 (c).
MINOR ELEMENTS DATA: 1974-77 (b), 1978 (a), 1979 (b), 1980 (c), 1981-85 (b).
RADIOCHEMICAL DATA: 1974-85 (a).
ORGANIC DATA: OC--1974 (a), 1975 (b), 1977 (b), 1978-81 (d).
NUTRIENT DATA: 1974-75 (c), 1976-81 (d), 1982-85 (c).
BIOLOGICAL DATA:
Bacteria--1974 (c), 1975-81 (d), 1982-85 (c).
Phytoplankton--1974 (a), 1975-77 (d), 1978-81 (c).
Periphyton--1974 (a), 1975 (c), 1976-80 (b).
SEDIMENT DATA: 1975 (d), 1976-77 (c), 1978-81 (d), 1982-85 (c).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
WATER TEMPERATURES: October 1955 to October 1958, unpublished; January 1966 to current year.

REMARKS.--Temperature observations made approximately 68 ft below normal forebay level. Temperature observations from October 1955 to October 1958 made at Aluminum Company of America Massena Canal power station.

COOPERATION.--Water-temperature record provided by the New York Power Authority.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 400 microsiemens Aug. 7, 1978, Mar. 29, 1979; minimum daily, 250 microsiemens Dec. 21, 1978.
WATER TEMPERATURES: Maximum daily, 24.5°C on several days in August and September 1973 and August 1975; minimum daily, 0.0°C on many days during winter periods except 1972-74, 1979, 1982-85.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 360 microsiemens Nov. 27; minimum daily, 290 microsiemens Apr. 30, Sept. 26.
WATER TEMPERATURES: Maximum daily, 23.0°C Aug. 15; minimum daily, 0.5°C on several days during January and February.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 26...	0915	268000	315	7.3	13.5	1.3	765	10.0	96	K4	K5
JAN 28...	0900	245000	305	7.8	.5	1.0	755	13.8	97	K3	<1
MAR 25...	0945	280000	300	8.1	1.5	1.0	760	14.8	106	K1	<1
JUN 24...	0915	305000	325	8.1	15.5	1.0	760	9.8	99	K3	K3
JUL 29...	1000	293000	290	8.3	21.0	2.3	760	8.6	97	K8	K1
AUG 26...	0930	293000	320	8.2	21.5	1.5	765	7.8	88	K5	K2

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT 26...	130	36	38	8.2	13	1.3	94	114	28	26
JAN 28...	130	35	39	8.2	13	1.4	97	118	27	25
MAR 25...	130	33	38	8.1	12	1.3	96	117	26	24
JUN 24...	130	29	38	7.9	12	1.3	99	120	26	23
JUL 29...	130	37	38	8.4	14	1.5	92	113	24	23
AUG 26...	120	32	36	8.3	12	1.4	92	113	26	24

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

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO--NEAR MASSENA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT 26...	.20	.3	181	170	.16	.070	1.2	.040	<.010	<.010
JAN 28...	.20	.4	191	170	.35	.030	.50	.010	.060	.020
MAR 25...	.20	.5	179	170	.25	.030	.30	<.010	<.010	<.010
JUN 24...	.20	.05	208	170	.18	.040	.50	.080	.030	.010
JUL 29...	.10	.4	191	170	.12	.120	.50	<.010	<.010	<.010
AUG 26...	.10	.4	189	160	.11	.040	.40	.090	.040	<.010

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT 26...	10	<1	26	<.5	<1	<1	<3	3	7	<1
MAR 25...	10	<1	25	<.5	<1	1	<3	3	13	<1
JUL 29...	<10	1	25	.9	<1	2	<3	4	<3	1
AUG 26...	<10	1	25	<.5	<1	<1	<3	4	4	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 26...	4	2	<.1	<10	2	<1	<1	180	<6	15
MAR 25...	12	2	.2	<10	1	<1	<1	180	<6	25
JUL 29...	6	2	.2	<10	2	<1	<1	180	<6	14
AUG 26...	<4	1	.2	<10	4	<1	<1	180	<6	37

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
JAN 28...	0900	<4.5	<.4	2.8	<.4	2.4	<.4	.06	.32
JUL 29...	1000	<2.7	<.4	3.3	<.4	2.5	<.4	--	.48

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 26...	0915	268000	8	5790	60
JAN 28...	0900	245000	5	3310	77
MAR 25...	0945	280000	6	4540	51
JUN 24...	0915	305000	1	823	67
JUL 29...	1000	293000	5	3960	91
AUG 26...	0930	293000	5	3960	98

04264331 ST. LAWRENCE RIVER AT CORNWALL ONTARIO--NEAR MASSENA, NY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	310	320	310	300	315	310	---	320	325	315	---
2	300	310	320	310	---	---	310	---	325	325	---	---
3	300	---	---	---	310	330	---	300	---	325	---	325
4	310	320	325	305	---	305	---	---	330	330	---	300
5	310	310	310	310	---	300	310	---	---	330	---	---
6	300	320	---	300	310	305	---	300	330	---	---	310
7	310	320	---	---	310	310	---	310	330	---	310	---
8	320	320	310	---	---	315	---	---	---	---	325	---
9	310	320	320	300	---	320	---	---	---	---	---	310
10	310	320	310	305	---	320	---	310	---	320	310	305
11	310	320	300	310	---	---	---	---	---	325	---	310
12	310	---	320	310	310	310	---	---	330	---	315	305
13	315	320	310	---	---	315	---	310	---	315	315	300
14	320	310	325	310	310	320	---	---	---	315	350	300
15	320	310	315	---	315	320	---	305	---	---	315	300
16	---	315	330	---	---	320	310	---	---	315	315	300
17	320	---	320	---	315	---	---	310	---	310	315	295
18	330	---	330	---	315	310	---	310	330	310	320	---
19	350	310	---	---	---	315	310	---	---	310	320	300
20	340	---	320	310	---	320	310	---	---	---	320	---
21	340	---	320	310	---	---	---	---	335	310	315	---
22	340	---	315	310	---	---	310	305	335	310	---	---
23	340	---	300	315	305	320	310	300	---	310	315	---
24	340	---	300	320	---	315	---	300	335	305	320	---
25	340	---	305	320	305	300	310	295	---	---	---	---
26	315	350	300	310	---	310	305	300	---	315	320	290
27	---	360	---	---	330	---	---	300	---	325	---	---
28	---	300	300	310	335	---	---	305	---	310	---	---
29	300	310	310	---	---	305	---	305	---	300	---	---
30	310	---	305	310	---	310	290	300	---	300	---	---
31	315	---	300	305	---	310	---	---	---	310	---	---
MEAN	319	319	313	310	313	313	308	304	330	315	319	304

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	13.5	7.5	2.0	1.0	1.0	2.0	---	13.0	---	21.5	---
2	17.0	13.0	7.0	1.5	---	---	2.0	---	13.0	---	---	---
3	17.0	---	---	1.5	1.0	1.0	---	---	13.5	---	---	20.0
4	16.0	12.5	7.0	1.5	1.0	1.0	---	---	---	---	---	20.0
5	15.5	12.5	6.0	1.5	1.0	1.0	3.0	---	---	18.0	---	---
6	15.0	12.5	---	1.5	1.0	1.0	---	---	13.5	---	---	20.0
7	15.0	12.0	---	---	1.0	1.0	---	---	13.5	---	22.0	20.0
8	15.0	12.0	5.0	---	---	1.0	---	---	---	---	22.0	---
9	15.5	11.5	5.0	1.0	---	1.0	---	---	---	---	---	20.0
10	15.0	11.5	5.0	1.0	---	1.0	---	---	---	19.0	22.0	19.0
11	15.0	11.0	5.0	1.0	---	---	---	---	---	19.0	---	18.5
12	15.0	---	5.0	1.0	1.0	1.0	---	---	14.5	---	22.0	19.0
13	15.0	11.0	5.0	---	---	1.0	---	---	---	19.0	22.0	19.0
14	15.0	10.0	5.0	1.0	1.0	1.0	---	---	---	19.5	---	18.5
15	15.0	10.0	4.5	1.0	1.0	1.0	---	10.0	---	---	23.0	18.5
16	---	9.5	4.0	1.0	1.0	1.0	4.0	---	---	20.0	---	18.5
17	15.0	---	4.0	---	1.0	---	---	10.0	---	20.0	22.5	18.5
18	15.0	---	4.0	---	1.0	1.0	---	10.0	14.5	20.5	22.0	---
19	15.0	8.5	---	---	1.0	1.0	4.5	---	---	21.0	22.0	18.0
20	15.0	---	4.5	1.0	---	1.0	4.5	---	---	---	22.0	---
21	15.0	---	4.0	1.0	.5	---	---	---	15.0	21.0	22.0	---
22	15.0	---	4.0	1.0	---	---	5.5	---	---	21.0	---	---
23	---	---	4.0	1.0	1.0	1.0	6.0	12.0	---	21.0	22.0	---
24	14.5	---	4.0	.5	---	---	---	12.0	16.0	21.0	21.5	---
25	14.5	---	3.5	.5	.5	1.0	6.0	13.0	---	---	---	---
26	14.0	7.0	3.5	.5	1.0	1.5	6.0	13.0	16.0	---	21.0	18.5
27	---	7.0	---	---	1.0	1.5	---	13.0	16.0	21.5	21.0	---
28	---	7.0	2.0	.5	1.0	---	7.0	---	---	22.0	---	---
29	14.0	7.0	2.0	---	---	2.0	7.0	---	16.0	21.5	---	---
30	14.0	---	2.0	1.0	---	2.0	7.0	13.0	---	21.5	---	---
31	14.0	---	2.0	1.0	---	2.0	---	---	---	21.5	---	---
MEAN	15.0	10.5	4.5	1.0	1.0	1.0	5.0	12.0	14.5	20.5	22.0	19.0

04265605 LITTLE SIMON POND OUTLET NEAR TUPPER LAKE, NY

LOCATION.--Lat 44°09'40", long 74°26'30", Franklin County, Hydrologic Unit 04150305, on left bank 15 ft upstream from dam on Little Simon Pond, and 3.0 mi south of Tupper Lake.

DRAINAGE AREA.--2.95 mi^2.

PERIOD OF RECORD.--January 1984 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is about 1,790 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Sept. 7-12. Records fair except those for estimated daily discharges, which are poor. Flow affected by diversion by village of Tupper Lake for water supply. Several measurements of water temperature were made during the year.

COOPERATION.--Figures for diversion provided by village of Tupper Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 150 ft^3/s Dec. 29, 1984, gage height, 3.78 ft; minimum daily, 0.003 ft^3/s Aug. 24, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 150 ft^3/s Dec. 29, gage height, 3.78 ft; minimum daily, 0.003 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	.59	8.8	24	1.2	9.0	14	5.9	3.1	1.8	.35	.02
2	.91	.52	8.2	18	1.1	7.5	11	5.2	2.9	1.7	.30	.02
3	.95	.47	7.6	13	1.1	6.3	9.2	4.6	2.6	1.6	.26	.02
4	1.2	.44	7.0	10	1.1	6.0	7.8	4.1	2.3	1.4	.22	.02
5	1.3	.60	6.0	8.0	1.0	6.9	7.1	4.0	2.1	1.3	.20	.05
6	1.3	.77	6.1	6.7	1.1	5.9	14	4.5	2.1	1.2	.17	7.8
7	1.2	.83	5.6	5.6	1.0	4.9	23	5.7	2.1	1.2	.14	32
8	1.2	.83	5.0	5.2	1.0	4.3	18	6.8	2.0	1.3	.16	56
9	1.2	.80	4.5	4.7	.95	3.9	15	6.5	1.8	1.2	.14	48
10	1.2	.85	4.0	4.1	.90	3.4	11	5.8	1.6	1.1	.11	28
11	1.1	.90	3.6	3.7	.85	3.1	9.1	5.4	1.4	1.0	.10	21
12	1.1	1.0	3.4	3.3	.79	3.7	7.6	5.1	1.9	.92	.08	9.2
13	1.0	1.3	3.6	3.0	.85	5.2	6.7	6.9	3.7	.81	.06	.99
14	.97	1.4	4.8	2.7	.84	5.5	6.1	7.2	7.0	.67	.05	.99
15	.92	1.4	5.4	2.6	.84	5.2	7.6	6.6	7.5	.81	.05	.97
16	.87	1.5	5.3	2.5	.82	4.7	20	6.2	6.9	1.4	.08	.93
17	.82	1.8	5.9	2.2	.79	4.2	30	5.6	6.2	1.3	.06	.89
18	.77	1.9	7.8	2.0	.78	3.8	23	4.9	6.0	1.3	.05	.84
19	.75	2.0	8.1	2.0	.78	3.4	18	4.5	5.5	1.1	.03	.79
20	.75	2.0	7.5	1.9	.79	3.1	16	3.8	4.9	1.0	.02	.74
21	.73	1.9	6.7	1.8	.75	2.9	20	3.7	4.3	.91	.01	.69
22	.82	1.8	6.7	1.7	.75	2.7	28	3.3	3.7	.75	.01	.61
23	.82	1.7	5.9	1.6	1.0	2.5	27	3.0	3.5	.63	.005	.54
24	.78	1.6	5.2	1.7	3.6	2.4	21	2.7	3.1	.56	.003	.62
25	.74	1.6	4.9	1.6	20	2.3	16	2.5	2.7	.47	.01	.75
26	.75	1.5	4.5	1.6	21	2.1	13	2.3	2.5	.45	.01	.73
27	.74	1.5	4.0	1.5	16	2.0	11	2.8	2.2	.43	.01	2.5
28	.73	2.0	4.2	1.4	12	3.1	9.0	3.7	2.0	.37	.01	18
29	.71	4.4	106	1.4	---	10	7.9	3.8	2.1	.32	.01	18
30	.67	7.7	98	1.3	---	16	6.7	3.5	2.0	.37	.02	13
31	.61	---	42	1.2	---	16	---	3.2	---	.34	.02	---
TOTAL	28.51	47.60	406.3	142.0	93.68	162.0	433.8	143.8	101.7	29.71	2.74	264.71
MEAN	.92	1.59	13.1	4.58	3.35	5.23	14.5	4.64	3.39	.96	.09	8.82
MAX	1.3	7.7	106	24	21	16	30	7.2	7.5	1.8	.35	56
MIN	.61	.44	3.4	1.2	.75	2.0	6.1	2.3	1.4	.32	.003	.02
‡	1.0	1.0	1.1	1.0	0.9	1.1	1.1	1.0	1.0	1.0	0.9	0.9

CAL YR 1984 TOTAL 1719.76 MEAN 4.70 MAX 106 MIN .14 ‡ 1.1
WTR YR 1985 TOTAL 1856.55 MEAN 5.09 MAX 106 MIN .003 ‡ 1.0

‡ Indicated net diversion, in cubic feet per second, for diversion and return in downstream supply.

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 downstream from powerplant at Piercefield, and 1.5 mi upstream from Dead Creek.

DRAINAGE AREA.--721 mi^2.

PERIOD OF RECORD.--August 1908 to current year.

REVISED RECORDS.--WSP 604: 1924. WSP 1387: 1910, 1913, 1914(M), 1916, 1921. WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,502.12 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 22, 1912, nonrecording gage at same site (datum of gage lowered 2 ft Jan. 1, 1911, to present datum).

REMARKS.--Estimated daily discharges: Jan. 5-14. Records good except those for estimated daily discharges, which are fair. 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. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--77 years, 1,301 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,360 ft^3/s May 8, 1972, gage height, 12.25 ft; minimum daily, 4.1 ft^3/s Oct. 12, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,690 ft^3/s Jan. 4, gage height, 10.41 ft; minimum daily, 24 ft^3/s Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	524	418	1510	5130	950	2190	2080	3430	1110	841	203	386
2	531	337	1640	5390	1000	2140	2140	3270	1190	810	275	407
3	559	235	1620	5520	996	2080	2170	3050	1240	712	220	244
4	555	300	1560	5530	1020	2040	2170	2860	925	533	341	514
5	657	385	1510	5400	1010	1990	2180	2780	844	557	171	198
6	702	466	1490	5000	826	1820	2220	2660	918	563	271	1040
7	728	513	1370	4700	775	1620	2620	2560	872	511	166	1920
8	722	556	1230	4500	790	1600	2720	2470	869	660	234	2080
9	714	693	1210	4300	790	1630	2840	2470	875	505	387	2220
10	703	704	1220	4000	752	1630	2900	2320	858	665	241	2310
11	698	691	1230	3700	629	1610	2890	2160	544	526	188	2280
12	692	687	1230	3500	692	1630	2850	2130	452	652	60	2290
13	690	689	1280	3200	505	1680	2810	2020	958	484	387	2190
14	690	689	1260	3000	504	1700	2780	1980	1400	542	37	2010
15	690	737	1320	2800	602	1700	2760	1940	1600	598	164	1850
16	661	830	1340	2660	653	1690	2790	1910	1600	569	238	1780
17	653	825	1310	2470	767	1670	2940	1820	1560	516	25	1680
18	627	860	1480	2290	854	1620	3070	1650	1550	640	377	1540
19	631	880	1590	2150	812	1560	3300	1630	1520	494	157	1440
20	644	862	1740	2050	777	1450	3310	1620	1490	511	28	988
21	641	838	1620	1910	773	1430	3370	1540	1320	494	39	712
22	586	820	1610	1740	732	1420	3480	1420	1090	454	320	914
23	588	775	1600	1670	810	1310	3630	1430	1170	219	25	993
24	599	687	1530	1680	943	1360	3760	1230	1080	257	91	703
25	599	661	1520	1480	1290	1430	3850	1020	852	158	283	1120
26	599	649	1420	1100	1990	1510	3900	938	858	279	24	836
27	571	652	1230	883	2340	1590	3910	1090	823	235	291	1090
28	579	672	1200	736	2270	1590	3880	1100	784	236	62	1590
29	594	760	2220	779	---	1660	3760	814	823	303	32	1940
30	571	1140	3710	829	---	1760	3630	960	856	229	461	2070
31	524	---	4810	870	---	1920	---	1110	---	332	300	---
TOTAL	19522	20011	50610	90967	26852	52030	90710	59382	32031	15085	6098	41335
MEAN	630	667	1633	2934	959	1678	3024	1916	1068	487	197	1378
MAX	728	1140	4810	5530	2340	2190	3910	3430	1600	841	461	2310
MIN	524	235	1200	736	504	1310	2080	814	452	158	24	198

CAL YR 1984 TOTAL 501866 MEAN 1371 MAX 4810 MIN 173
WTR YR 1985 TOTAL 504633 MEAN 1383 MAX 5530 MIN 24

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 upstream from bridge on State Highway 56 at South Colton, 500 ft downstream from Niagara Mohawk Power Corp. powerplant, and 0.8 mi upstream from Cold Brook.

DRAINAGE AREA.--937 mi^2.

PERIOD OF RECORD.--January 1953 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 882.05 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow regulated 16 mi upstream by Carry Falls Reservoir since 1953; considerable natural storage in large lakes above Piercefield. Large diurnal fluctuation caused by five powerplants upstream from gage. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--32 years, 1,776 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,720 ft^3/s May 11, 1971, gage height, 9.80 ft; minimum, 1.3 ft^3/s Feb. 1, 1962, Aug. 8, 1964, gage height, 1.53 ft; minimum daily, 4.6 ft^3/s June 2, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,600 ft^3/s Jan. 9, gage height, 8.68 ft; minimum, 8.5 ft^3/s Oct. 19, gage height, 1.66 ft; minimum daily, 15 ft^3/s Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1270	831	611	5840	1770	2910	2240	3490	1120	1240	1060	459
2	951	835	899	6340	1920	2810	2400	3270	1450	1260	1180	343
3	1170	912	1010	6310	1720	3050	2340	2060	1280	1030	522	518
4	1130	507	1230	6380	1800	3180	2320	2640	1450	1310	256	837
5	1130	1190	1340	6340	1730	3060	2640	2040	1180	890	592	934
6	946	984	1110	6310	1810	2520	1980	2950	1310	933	619	1080
7	1020	897	1260	6330	1860	2640	2440	3260	1020	839	435	1310
8	1320	1130	926	6650	1770	2760	2610	3160	1360	1090	515	1630
9	772	1100	815	6640	1550	2880	2330	3290	1310	1410	509	1530
10	1470	634	1530	6120	1570	3030	2870	2650	1130	1110	540	1750
11	753	458	1360	5570	1510	2930	1750	2300	1500	1380	472	1850
12	1370	749	1700	4930	1780	3060	2610	2180	1210	1270	448	1610
13	868	976	1220	4770	1870	3090	2370	2580	1030	1310	582	1880
14	799	970	1310	4670	1590	2770	2460	2100	1720	631	707	2380
15	1370	997	1920	4220	1440	3300	3060	2230	1660	1300	492	1890
16	982	1050	1340	3780	1600	3000	3470	1750	1390	1080	517	2150
17	1140	495	1570	3720	1400	3210	3620	1580	1870	1110	498	2020
18	941	451	1510	3290	1260	3140	3400	1530	2210	1480	416	1720
19	1030	1080	1410	2900	1590	3010	3710	2020	1960	1200	436	2310
20	1190	948	1540	3110	1560	3000	3780	1970	2030	1010	616	1910
21	869	971	1730	3370	1620	2430	3670	1930	2130	1280	683	1740
22	1200	529	1330	3320	1470	2270	3000	1430	1930	1020	434	1850
23	1000	276	1830	2990	1560	2520	2350	1380	1700	1000	323	617
24	963	489	1410	2630	1260	2320	2620	2110	1620	1030	475	1220
25	1180	308	1600	1710	1930	2530	3510	1510	1840	1170	630	1300
26	1090	1020	2000	1330	2430	2300	3580	1140	1650	1020	506	1690
27	1060	880	1640	1560	2730	1850	3490	1340	1840	25	438	1360
28	839	1200	1620	2050	3300	2220	3410	1110	1720	691	294	526
29	1370	1090	1910	1930	---	2160	3600	1310	1220	919	595	15
30	986	1060	4340	1390	---	2190	3610	1190	1290	1000	480	1010
31	1130	---	4660	1780	---	2370	---	1340	---	833	306	---
TOTAL	33309	25017	49681	128280	49400	84510	87240	64840	46130	32871	16576	41439
MEAN	1074	834	1603	4138	1764	2726	2908	2092	1538	1060	535	1381
MAX	1470	1200	4660	6650	3300	3300	3780	3490	2210	1480	1180	2380
MIN	753	276	611	1330	1260	1850	1750	1110	1020	25	256	15

CAL YR 1984 TOTAL 665179 MEAN 1817 MAX 4660 MIN 46
WTR YR 1985 TOTAL 659293 MEAN 1806 MAX 6650 MIN 15

04268000 RAQUETTE RIVER AT RAYMONDVILLE, NY
(National stream-quality accounting network station)

LOCATION.--Lat 44°50'20", long 74°58'45", St. Lawrence County, Hydrologic Unit 04150305, on right bank 250 ft upstream from bridge on Grant Road at Raymondville, 0.3 mi downstream from Trout Brook, 0.4 mi downstream from Niagara Mohawk Power Corp. powerplant, and 18.0 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--1,125 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 183.33 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 13 to Feb. 24. Records good except those for estimated daily discharges, which are poor. Extensive diurnal fluctuation caused by power and industrial operations. Flow regulated since 1953 by Carry Falls Reservoir, about 46 mi upstream and by Niagara Mohawk Power Corp. powerplant, 0.4 mi upstream; considerable natural storage in large lakes above Piercefield. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--41 years (1945-85), 2,079 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft^3/s Apr. 5, 1974, gage height, 8.40 ft; maximum gage height, 9.24 ft Feb. 22, 1954 (backwater from ice); minimum discharge, 2.2 ft^3/s Sept. 18, 19, 1966; minimum gage height, 0.42 ft July 13, 1950; minimum daily discharge, 7.0 ft^3/s Oct. 15, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,300 ft^3/s Feb. 26, gage height, 7.85 ft; minimum, 19 ft^3/s part of each day Oct. 4, 6-9, 14-20, 22, Nov. 3, gage height, 0.59 ft; minimum daily, 439 ft^3/s Sept. 3.

REVISIONS.--The maximum discharges for the water years 1983 and 1984 have been revised to 8,400 ft^3/s May 10, 1983, gage height, 6.45 ft, and 9,370 ft^3/s Dec. 16, 1983, gage height, 6.93 ft; revised daily, monthly, and yearly discharges for the water years 1983 and 1984 are given below. These figures supersede those published in the reports for 1983 and 1984.

Revised daily discharges, in cubic feet per second, for 1983-84 water years, are given herewith:

Water year	Date	Discharge	Water year	Date	Discharge	Water year	Date	Discharge	Water year	Date	Discharge
1983	May 9	7,650	1983	May 13	7,230	1984	Dec. 19	7,060	1984	Dec. 26	8,180
1983	May 10	8,080	1984	Dec. 16	8,360	1984	Dec. 24	7,380	1984	Dec. 27	8,380
1983	May 11	7,960	1984	Dec. 17	8,240	1984	Dec. 25	7,870	1984	Dec. 28	7,980
1983	May 12	7,580	1984	Dec. 18	7,480						

Revised monthly and yearly discharges, in cubic feet per second, for 1983-84 water years, are given herewith:

	TOTAL	MEAN	MAX	MIN
May 1983	174950	5644	8080	2910
December 1983	162070	5228	8380	1990
Wtr Year 1983	828112	2269	8080	445
Cal Year 1983	892292	2445	8380	528
Wtr Year 1984	927604	2534	8380	446

SEE NEXT PAGE FOR DAILY DISCHARGE TABLE FOR 1985 WATER YEAR

04268000 RAQUETTE RIVER AT RAYMONDVILLE, NY--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1210	1240	1160	6130	2600	6170	3180	4180	1590	1500	1100	608
2	1210	1210	1350	6610	2500	5910	3420	3700	1500	1470	1130	615
3	1460	798	1250	7010	2500	5620	3290	2750	1500	1470	698	439
4	1370	783	1430	7010	2500	5130	3220	2410	1380	1260	549	736
5	1280	1330	1580	6820	2600	4260	3400	2640	1560	1120	708	1220
6	1320	1240	1540	6870	2500	3990	3440	2790	1590	1130	569	1370
7	1280	1340	1480	6710	2400	3560	3290	3590	1560	1160	550	1800
8	1250	1250	1380	7120	2300	3410	3210	3710	1560	1170	595	1840
9	1330	1220	1200	7220	2200	3930	3080	3650	1470	1430	595	1810
10	1320	866	1390	7670	2200	4170	3010	3510	1440	1510	561	1850
11	1320	636	1780	7160	2300	4250	3070	2820	1530	1720	525	1840
12	1260	732	1840	6420	2400	5320	2980	2650	1510	1520	586	2140
13	1220	1180	1940	5800	2400	5510	2960	2670	1570	1250	549	2200
14	1190	1330	1980	5600	2300	4880	2930	2610	1660	1140	546	2170
15	1170	1180	1960	5200	2200	4200	2930	2510	1830	1250	981	2160
16	1250	1360	1920	4900	2100	3830	3690	2160	1900	1580	619	2290
17	1230	714	1970	4600	2100	3790	3810	2030	1950	1490	480	2150
18	1210	636	2020	4400	1900	3740	3820	2040	2750	1630	566	2160
19	1230	845	1990	4100	2100	3620	4040	2040	2530	1560	661	2140
20	1130	1250	1950	4100	2000	3090	4360	2090	2280	1140	554	2170
21	1360	1160	1910	4200	2000	2940	4210	2210	2150	1130	656	2080
22	1090	742	1920	4300	2100	2740	4100	1610	2090	1130	495	2110
23	1190	621	2000	3900	2400	2810	2700	1840	2100	1200	573	2110
24	1250	499	2060	3500	4000	2810	2710	1740	2130	1170	688	2200
25	1180	473	2010	3000	9350	2780	3600	1850	2090	1120	495	2190
26	1230	853	1930	2500	10300	2760	3690	1680	2110	1180	614	2200
27	1230	1140	2260	2700	7470	2590	3680	1550	1930	616	590	2460
28	1330	1230	2790	2800	7240	2800	3670	1620	1850	606	537	3250
29	1200	1390	3780	2600	---	3320	3730	1560	1660	840	649	2210
30	1150	1660	6650	2400	---	3420	4020	1460	1440	1170	784	854
31	1210	---	6110	2300	---	2980	---	1460	---	1080	594	---
TOTAL	38660	30908	66530	155650	90960	120330	103240	75130	54210	38742	19797	55372
MEAN	1247	1030	2146	5021	3249	3882	3441	2424	1807	1250	639	1846
MAX	1460	1660	6650	7670	10300	6170	4360	4180	2750	1720	1130	3250
MIN	1090	473	1160	2300	1900	2590	2700	1460	1380	606	480	439

CAL YR 1984 TOTAL 814885 MEAN 2226 MAX 6650 MIN 446
WTR YR 1985 TOTAL 849529 MEAN 2327 MAX 10300 MIN 439

04268000 RAQUETTE RIVER AT RAYMONDVILLE, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955, 1957, 1960-61, 1969-72, 1979 to current year.
CHEMICAL DATA: 1955, 57 (a), 1960-61 (e), 1969 (a), 1970 (d), 1971 (b), 1972 (a), 1979-80 (d), 1981-82 (c), 1983-85 (b).
MINOR ELEMENTS DATA: 1969 (a), 1970, 1979 (b), 1980 (d), 1981-85 (b).
PESTICIDE DATA: 1970 (a).
ORGANIC DATA: OC--1979-80 (d), 1981 (c).
NUTRIENT DATA: 1955, 57 (a), 1960-61 (e), 1969 (a), 1970 (d), 1971 (b), 1972 (a), 1979-80 (d), 1981-82 (c), 1983-85 (b).
BIOLOGICAL DATA:
Bacteria--1969-71 (a), 1979-80 (d), 1981-82 (c), 1983-85 (b).
Phytoplankton--1979-80 (c), 1981 (b).
Periphyton--1979-80 (b).
SEDIMENT DATA: 1979 (c), 1980 (d), 1981-82 (c), 1983-85 (b).

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 22...	0945	51	54	7.5	13.5	1.0	765	10.2	97	K24	K10
MAR 14...	0930	4760	78	7.2	.5	2.0	755	13.5	95	170	76
JUN 13...	0715	1680	51	7.0	17.0	1.0	750	8.4	89	100	K18
AUG 15...	0815	1640	54	7.6	25.0	.50	760	7.8	95	48	130

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT 22...	18	0	5.2	1.3	2.1	.50	21	26	7.2	2.4
MAR 14...	31	9	7.8	2.7	2.6	.60	22	27	9.5	3.9
JUN 13...	19	6	5.4	1.4	1.8	.40	13	16	7.6	3.3
AUG 15...	22	3	6.0	1.7	2.0	.40	19	23	7.0	2.5

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT 22...	<.10	3.6	40	35	<.10	.010	.40	.020	<.010	<.010
MAR 14...	.10	5.4	51	46	.31	.070	.50	<.010	<.010	<.010
JUN 13...	.10	4.1	29	32	.30	.070	1.0	<.010	<.010	.020
AUG 15...	.10	3.0	43	34	.13	.010	.20	<.010	<.010	<.010

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

04268000 RAQUETTE RIVER AT RAYMONDVILLE, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT 22...	30	<1	12	<.5	<1	<1	<3	2	170	2
MAR 14...	60	<1	12	<.5	1	<1	<3	1	130	1
JUN 13...	10	<1	14	<.5	<1	1	<3	<1	130	<1
AUG 15...	<10	<1	14	.7	<1	<1	<3	1	120	2

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 22...	<4	10	<.1	<10	<1	<1	<1	23	<6	7
MAR 14...	9	17	<.1	<10	<1	<1	<1	25	<6	10
JUN 13...	8	19	.1	<10	1	<1	<1	22	<6	13
AUG 15...	<4	9	<.1	<10	4	<1	<1	25	<6	5

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 22...	0945	51	2	.28	92
MAR 14...	0930	4760	6	77	75
JUN 13...	0715	1680	1	4.5	50
AUG 15...	0815	1640	1	4.4	73

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 upstream from highway bridge at Brasher Center, and 6.5 mi downstream from West Branch. Water-quality sampling site at discharge station.

DRAINAGE AREA.--612 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1910 to current year. Monthly discharge only for some periods, published in WSP 1307.

REVISED RECORDS.--WSP 1387: 1910-16, 1917(M), WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 217.23 ft above National Geodetic Vertical Datum of 1929. Prior to June 24, 1916, nonrecording gage at site 600 ft 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.--Estimated daily discharges: Nov. 21-22, Dec. 9-11, 26-27, Jan. 6 to Feb. 26, and Mar. 2-11, 21-23. Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation caused by powerplant operations upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--75 years, 1,046 ft^3/s, 23.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s Apr. 6, 1937, gage height, 12.82 ft; maximum gage height recorded, about 15.3 ft Apr. 6, 1937 (ice jam); minimum discharge observed, about 34 ft^3/s Aug. 8, 1917, gage height, 5.25 ft; minimum daily, 37 ft^3/s Aug. 8, 1917.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 30	0645	*13,100	*11.80	Feb. 25	--	a8,100	ice jam

a About.

Minimum discharge, 137 ft^3/s Aug. 24, gage height, 5.74 ft; minimum daily, 162 ft^3/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	280	1420	5290	500	3240	2930	1120	711	510	245	745
2	343	311	1410	3990	500	2700	2730	1010	617	463	256	685
3	287	283	1190	2900	490	2300	2210	914	533	442	258	551
4	361	283	1010	2350	470	2000	1890	845	471	563	219	473
5	500	313	840	1890	460	1700	1930	892	441	626	203	426
6	588	366	602	1500	460	1400	2440	1350	523	547	192	1170
7	495	423	512	1400	460	1200	3770	1730	576	480	184	2030
8	445	405	467	1200	450	1200	3560	1860	556	479	192	1690
9	417	372	490	1100	460	1200	3050	1580	508	473	207	1300
10	387	341	520	1000	460	1300	2390	1310	456	457	236	1150
11	364	421	560	940	480	1400	2040	1150	406	557	226	1210
12	351	413	620	880	500	2430	1770	1040	399	481	209	1040
13	331	466	803	820	540	3170	1590	1900	475	394	201	868
14	321	475	1790	800	560	2650	1440	1600	1300	338	189	686
15	308	459	2290	740	580	2230	1600	1250	1390	324	177	594
16	296	498	1740	720	560	2050	2410	1060	1100	696	192	498
17	291	594	1220	700	560	1520	2990	1010	933	907	227	433
18	324	618	1460	680	540	1420	2900	943	1150	623	269	405
19	298	515	1400	660	520	1420	2800	841	1200	456	239	363
20	301	432	1200	640	500	1190	2560	786	966	378	220	329
21	306	430	956	620	500	1100	2310	705	784	321	199	296
22	459	420	1040	620	520	1100	2220	615	612	291	186	283
23	412	426	1590	620	660	1000	2160	486	594	264	180	276
24	331	428	875	640	2000	971	2000	542	654	250	162	268
25	258	419	863	640	6600	904	1820	474	669	233	169	333
26	226	417	920	620	6200	906	1650	487	602	218	206	351
27	232	416	940	600	4970	922	1540	581	537	218	244	626
28	239	442	978	580	3790	1570	1450	1070	491	213	220	3080
29	236	603	7390	540	---	3460	1320	1170	490	213	237	2790
30	275	1100	12300	520	---	3910	1230	975	505	239	312	1910
31	287	---	8750	520	---	3270	---	809	---	235	553	---
TOTAL	10565	13369	58146	36720	35290	56833	66700	32105	20649	12889	7009	26859
MEAN	341	446	1876	1185	1260	1833	2223	1036	688	416	226	895
MAX	588	1100	12300	5290	6600	3910	3770	1900	1390	907	553	3080
MIN	226	280	467	520	450	904	1230	474	399	213	162	268
CFSM	.56	.73	3.07	1.94	2.06	3.00	3.63	1.69	1.12	.68	.37	1.46
IN.	0.64	0.81	3.53	2.23	2.15	3.45	4.05	1.95	1.26	0.78	0.43	1.63

CAL YR 1984 TOTAL 374420 MEAN 1023 MAX 12300 MIN 214 CFSM 1.67 IN. 22.76
WTR YR 1985 TOTAL 377134 MEAN 1033 MAX 12300 MIN 162 CFSM 1.69 IN. 22.92

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955, 1960, 1970-72, 1974 to current year.
CHEMICAL DATA: 1955 (a), 1960 (b), 1970-72 (a), 1975-81 (d), 1982 (c), 1983-85 (b).
MINOR ELEMENTS DATA: 1975, 1977-79 (b), 1980 (c), 1981-85 (b).
ORGANIC DATA: OC--1974 (b), 1978-81 (d).
NUTRIENT DATA: 1970-71 (a), 1975-81 (d), 1982 (c), 1983-85 (b).
BIOLOGICAL DATA:
Bacteria--1975-81 (d), 1982 (c), 1983-85 (b).
Phytoplankton--1975-77 (d), 1978-81 (c).
Periphyton--1975-80 (b).
SEDIMENT DATA: 1975 (d), 1976-77 (c), 1978-81 (d), 1982 (c), 1983-85 (b).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: September 1974 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES (water years 1975-81): Maximum daily, 29.0°C Aug. 4, 1975; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 23...	0845	411	74	7.8	11.5	1.8	760	10.1	93	170	180
MAR 12...	0930	2060	87	7.5	.5	1.5	735	13.6	98	160	760
JUN 10...	0915	460	70	7.0	18.5	1.1	755	9.0	97	40	K13
AUG 16...	0815	190	86	7.4	22.5	1.7	760	7.5	87	K40	32

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3)	BICAR-BONATE IT-FLD (MG/L AS HCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT 23...	35	6	9.0	3.0	2.3	.70	29	35	8.1	3.7
MAR 12...	36	11	9.1	3.2	2.7	.60	26	31	9.3	4.3
JUN 10...	34	9	8.8	2.8	2.3	.40	25	30	7.9	3.9
AUG 16...	39	3	10	3.5	2.6	.60	37	45	6.8	3.4

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
OCT 23...	.10	7.4	58	52	.73	.090	.50	.050	<.010	.020
MAR 12...	<.10	6.2	68	51	.23	.020	.40	<.010	<.010	<.010
JUN 10...	.10	5.6	59	47	--	--	1.2	<.010	<.010	--
AUG 16...	.10	5.4	60	55	<.10	.020	.20	.010	<.010	<.010

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

04269000 ST. REGIS RIVER AT BRASHER CENTER, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT 23...	30	<1	17	<.5	<1	<1	<3	2	360	<1
MAR 12...	40	<1	15	<.5	<1	<1	<3	<1	150	<1
JUN 10...	10	<1	16	<.5	<1	2	<3	<1	280	<1
AUG 16...	<10	<1	19	<.5	<1	<1	<3	1	230	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 23...	6	9	<.1	<10	<1	<1	<1	29	<6	4
MAR 12...	<4	8	.2	<10	<1	<1	<1	24	<6	4
JUN 10...	6	19	.1	<10	<1	<1	<1	28	<6	5
AUG 16...	<4	18	.1	<10	2	<1	<1	34	<6	9

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SAMPLING DEPTH (FEET)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	BAROMETRIC PRESSURE (MM OF HG)
AUG 16...	0835	40	1.0	1.1	87	6.9	22.5	7.6	88	760
16...	0840	80	1.0	1.2	86	6.9	22.5	7.7	89	760
16...	0845	120	1.0	1.0	86	7.0	22.5	7.5	87	760
16...	0850	160	1.0	1.2	86	7.0	22.5	7.5	87	760
16...	0855	200	1.0	1.2	86	7.0	22.5	7.4	86	760

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 23...	0845	411	8	8.9	73	JUN 10...	0915	460	3	3.7	92
MAR 12...	0930	2060	13	72	54	AUG 16...	0815	190	5	2.6	89

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 downstream from bridge on road to Fort Covington Center, 0.5 mi east of village of Bombay, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--92.2 mi^2.

PERIOD OF RECORD.--August to November 1957, July 1958 to current year. Occasional low-flow measurements, water years 1954-55, 1957.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above National Geodetic Vertical Datum of 1929. August to November 1957, at site 100 ft upstream at datum 0.72 ft higher.

REMARKS.--Estimated daily discharges: Nov. 20-22, Dec. 7-11, 27-29, and Jan. 4 to Mar. 17. Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--27 years (1959-85), 120 ft^3/s, 17.68 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,250 ft^3/s Apr. 4, 1974, gage height, 12.90 ft; minimum, 8.0 ft^3/s Aug. 6, 7, 1965, gage height, 1.52 ft; minimum gage height, 0.85 ft Sept. 2, 1957, site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 29	1530	2,770	11.80	Mar. 29	0800	918	6.68
Feb. 25	Unknown	a*3,000	a*12.3	July 16	0300	1,150	7.44
Mar. 12	2300	1,920	9.64				

a About.

Minimum discharge, 18 ft^3/s Aug. 24, gage height, 1.55 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	22	121	431	56	760	285	91	50	56	47	48
2	20	21	123	635	56	620	373	83	45	50	43	40
3	21	23	85	519	56	520	247	76	41	63	37	39
4	34	23	80	350	56	440	213	72	38	111	32	35
5	38	26	72	190	54	370	321	90	38	72	29	40
6	31	33	70	130	54	330	394	260	61	50	28	163
7	27	32	70	120	54	310	426	247	79	45	26	141
8	26	28	70	110	54	310	276	234	60	64	30	75
9	30	27	70	110	54	340	219	158	51	65	36	53
10	29	29	70	98	56	400	177	123	47	52	29	44
11	26	38	72	90	54	480	172	112	39	226	26	40
12	25	40	75	86	56	1280	158	100	41	118	24	36
13	24	50	136	82	56	1200	141	137	93	63	23	33
14	23	50	220	78	56	660	127	117	399	48	22	31
15	23	45	128	72	58	320	141	91	207	128	23	29
16	22	68	106	68	60	190	206	86	106	775	29	30
17	22	81	157	66	58	160	211	98	88	201	26	27
18	21	57	158	62	60	148	185	83	310	108	23	24
19	22	49	114	58	60	145	495	72	292	75	23	24
20	24	45	89	56	62	166	303	65	134	59	23	23
21	23	43	88	54	64	151	220	60	88	51	21	22
22	27	40	92	56	70	123	184	58	66	44	20	20
23	27	38	125	58	110	136	157	52	64	39	20	20
24	25	37	100	58	1000	148	126	48	80	34	20	21
25	24	39	82	60	2500	137	109	45	78	32	24	32
26	25	38	59	60	1850	116	102	44	64	31	28	32
27	26	39	52	60	1100	125	114	59	59	33	27	55
28	25	37	56	60	940	365	121	141	52	32	24	361
29	25	50	1500	60	---	770	124	88	61	29	23	165
30	23	124	1390	58	---	453	106	62	70	65	28	89
31	23	---	409	58	---	280	---	53	---	61	58	---
TOTAL	781	1272	6039	4053	8764	11953	6433	3105	2901	2880	872	1792
MEAN	25.2	42.4	195	131	313	386	214	100	96.7	92.9	28.1	59.7
MAX	38	124	1500	635	2500	1280	495	260	399	775	58	361
MIN	20	21	52	54	54	116	102	44	38	29	20	20
CFSM	.27	.46	2.11	1.42	3.39	4.19	2.32	1.08	1.05	1.01	.30	.65
IN.	0.32	0.51	2.44	1.64	3.54	4.82	2.60	1.25	1.17	1.16	0.35	0.72

CAL YR 1984 TOTAL 38858 MEAN 106 MAX 2000 MIN 15 CFSM 1.15 IN. 15.68
WTR YR 1985 TOTAL 50845 MEAN 139 MAX 2500 MIN 20 CFSM 1.51 IN. 20.51

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04270510 CHATEAUGAY RIVER BELOW CHATEAUGAY, NY

LOCATION.--Lat 44°57'49", long 74°07'53", Franklin County, Hydrologic Unit 04150307, on left bank 10 ft downstream from bridge on Sam Cook Road, 0.2 mi downstream from Marble River, 2.4 mi upstream from international boundary, and 4.1 mi northeast of Chateaugay.

DRAINAGE AREA.--151 mi^2.

PERIOD OF RECORD.--December 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 411.33 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 7-9, 13, 26-29, Jan. 6 to Feb. 25, and Mar. 1-7, 16-23. Records good except those for estimated daily discharges, which are poor. Flow regulated at Forge Dam on Upper and Lower Chateaugay Lakes. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--19 years (1967-85), 250 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,200 ft^3/s Apr. 4, 1974, gage height, 7.33 ft, from rating curve extended above 1,600 ft^3/s; maximum gage height, 10.99 ft Feb. 11, 1966 (ice jam); minimum discharge, 14 ft^3/s Sept. 5, 6, 1982, gage height, 2.32 ft, result of regulation; minimum daily, 37 ft^3/s Aug. 23, 26, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,080 ft^3/s Feb. 25, gage height, 5.85 ft; maximum gage height, 9.85 ft Feb. 24 (ice jam); minimum discharge, 23 ft^3/s Oct. 18, gage height, 2.43 ft; minimum daily discharge, 60 ft^3/s Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	99	185	1000	190	460	451	333	173	174	119	89
2	76	101	175	1010	180	440	467	271	188	172	111	85
3	87	98	171	973	180	420	472	214	184	178	82	86
4	91	99	166	833	180	400	465	211	183	175	80	109
5	80	117	160	814	180	380	536	244	186	151	79	106
6	79	211	166	580	190	370	822	262	197	180	79	131
7	80	209	170	430	200	370	691	252	170	184	79	143
8	80	246	180	360	210	358	573	205	143	177	82	139
9	84	263	170	310	210	355	531	185	142	153	76	138
10	81	282	165	290	200	354	494	221	137	153	76	138
11	79	261	161	270	190	396	486	325	134	198	76	133
12	79	229	160	250	180	703	469	313	149	149	76	134
13	78	215	170	230	170	489	455	303	194	173	77	128
14	78	180	177	220	170	431	422	297	231	173	75	121
15	78	159	185	210	170	395	413	301	195	420	78	121
16	141	180	172	210	170	330	478	306	187	323	77	119
17	83	164	211	210	170	300	489	324	188	235	75	118
18	60	163	194	200	170	280	555	315	313	288	73	118
19	103	158	181	200	170	260	730	313	250	279	70	111
20	94	169	180	200	180	240	719	311	279	259	72	78
21	97	155	222	200	190	230	721	302	227	180	70	76
22	120	155	240	200	240	220	714	247	220	182	70	77
23	103	154	185	190	400	210	680	211	223	178	70	78
24	101	153	178	190	900	205	636	173	221	174	71	84
25	102	153	178	190	1000	200	619	159	194	175	77	85
26	105	153	190	190	575	194	599	157	189	177	73	96
27	103	151	210	180	513	232	601	145	184	166	71	154
28	102	154	260	180	483	858	585	121	142	108	70	249
29	100	174	1000	170	---	804	544	110	177	90	68	213
30	99	177	1090	180	---	531	425	109	184	150	86	188
31	99	---	1070	180	---	437	---	128	---	117	100	---
TOTAL	2816	5182	8322	10850	7961	11852	16842	7368	5784	5891	2438	3645
MEAN	90.8	173	268	350	284	382	561	238	193	190	78.6	122
MAX	141	282	1090	1010	1000	858	822	333	313	420	119	249
MIN	60	98	160	170	170	194	413	109	134	90	68	76

CAL YR 1984 TOTAL 85687 MEAN 234 MAX 1090 MIN 60
WTR YR 1985 TOTAL 88951 MEAN 244 MAX 1090 MIN 60

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 downstream from Imperial Paper and Color Corp. dam, 3.0 mi upstream from mouth, and 5.5 mi downstream from Mead Brook.

DRAINAGE AREA.--608 mi^2.

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 above National Geodetic Vertical Datum of 1929. Prior to Nov. 12, 1919, nonrecording gage, and Nov. 12, 1919 to Sept. 30, 1930, water-stage recorder, at site 1.5 mi upstream at different datum.

REMARKS.--Estimated daily discharges: Jan. 5 to Feb. 12, Mar. 6-9, 17-21, and June 18 to July 1. Records good except those for estimated daily discharges, 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 7.87 ft^3/s from Saranac River and Mead and West Brooks, tributaries upstream from station, for municipal supply. About 1 ft^3/s diverted from Great Chazy River basin into Saranac River for water supply of State Institutions at Dannemora. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--69 years, 837 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft^3/s Apr. 8, 1938, from computation of flow over dam and through waste gates and powerplant; minimum daily, 3.6 ft^3/s June 26, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,100 ft^3/s Dec. 30, gage height, 10.08 ft; minimum, 28 ft^3/s July 21, gage height, 1.68 ft; minimum daily discharge, 127 ft^3/s Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	358	406	942	3410	700	1910	1610	1380	727	700	426	574
2	410	371	938	2810	700	1850	1590	1290	667	650	226	512
3	417	393	888	2210	680	1650	1510	1210	610	473	263	380
4	393	390	733	1850	680	1270	1440	1160	630	460	269	249
5	581	338	511	1500	680	1100	1370	1180	580	579	268	495
6	596	413	545	1400	720	1100	1640	1490	548	652	228	836
7	553	441	639	1300	760	1000	2200	1540	576	597	217	1390
8	480	396	684	1200	800	980	1990	1530	603	580	292	1350
9	489	320	725	1100	780	960	1840	1360	574	418	287	1040
10	487	279	652	1100	740	956	1660	1290	551	298	265	981
11	484	395	656	1100	680	921	1600	1200	574	374	272	1000
12	484	417	828	1100	640	1190	1510	1140	562	319	262	938
13	483	457	735	1100	590	1540	1440	1140	810	288	248	918
14	358	449	821	1100	621	1340	1330	1190	1190	262	255	698
15	451	432	736	1100	645	1190	1520	1090	1120	471	212	655
16	487	443	733	1100	647	1010	2600	875	1070	412	295	660
17	401	545	730	1200	635	900	2830	736	965	617	316	561
18	179	518	979	1400	610	840	2250	798	900	489	436	485
19	520	492	973	1300	613	820	2800	796	820	453	468	443
20	414	542	939	1200	531	800	2370	753	760	457	471	429
21	491	480	819	1400	655	800	2250	810	700	373	420	346
22	349	593	756	1600	618	807	2350	759	720	348	262	340
23	232	527	815	1300	619	815	2450	680	680	382	199	432
24	419	468	712	1000	1120	816	2190	781	660	285	190	386
25	364	450	747	860	2720	805	2070	656	600	196	127	512
26	373	459	642	780	2850	784	1880	651	560	294	191	415
27	380	454	471	680	2340	778	1810	636	600	225	230	555
28	447	452	552	660	2140	1110	1680	850	700	270	242	1180
29	395	515	3140	640	---	2150	1590	863	840	351	252	1210
30	275	775	7370	660	---	2020	1490	794	760	227	246	1150
31	405	---	4240	700	---	1870	---	751	---	470	374	---
TOTAL	13155	13610	35651	39860	26514	36082	56860	31379	21657	12970	8709	21120
MEAN	424	454	1150	1286	947	1164	1895	1012	722	418	281	704
MAX	596	775	7370	3410	2850	2150	2830	1540	1190	700	471	1390
MIN	179	279	471	640	531	778	1330	636	548	196	127	249

CAL YR 1984 TOTAL 329723 MEAN 901 MAX 7370 MIN 156
WTR YR 1985 TOTAL 317567 MEAN 870 MAX 7370 MIN 127

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 upstream from bridge on Burt Street in Au Sable Forks, and 0.5 mi upstream from confluence with West Branch.

DRAINAGE AREA.--198 mi^2.

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 above National Geodetic Vertical Datum of 1929. Prior to Sept. 21, 1938, nonrecording gage at lower highway bridge in Au Sable Forks, 400 ft upstream from confluence with West Branch at datum 3.54 ft lower.

REMARKS.--Estimated daily discharges: Dec. 7-11, Jan. 5 to Feb. 24, and Mar. 6-10, 17-25. Records good except those for estimated daily discharges, which are poor. Occasional regulation of storage in Upper and Lower Ausable Lakes and occasional small diurnal fluctuation, cause unknown. Several measurements of water temperature were made during the year. Gage-height telemeter at station.

AVERAGE DISCHARGE.--61 years, 312 ft^3/s, 21.40 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,100 ft^3/s Sept. 22, 1938, gage height, 12.91 ft, from rating curve extended above 5,800 ft^3/s on basis of velocity-area studies; minimum observed, 20 ft^3/s Aug. 11, 14, 28, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 29	1400	*7,600	*8.15	Sept. 27	2400	5,720	7.16
May 18	0400	3,720	5.89				

Minimum discharge, 38 ft^3/s Aug. 23, 24, gage height 0.94 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	77	565	661	120	296	475	446	280	386	85	197
2	78	78	373	781	120	265	364	397	280	258	77	132
3	168	85	267	514	110	202	300	332	222	218	65	105
4	494	77	229	340	110	132	268	289	181	181	59	91
5	340	128	180	220	110	245	308	291	160	146	55	107
6	219	407	134	190	100	210	1490	537	193	132	51	1470
7	162	266	140	170	98	200	1280	849	191	114	49	953
8	134	183	140	170	94	190	713	749	163	120	49	464
9	120	147	150	160	94	180	491	499	148	110	47	259
10	113	132	150	160	98	180	364	381	134	100	44	377
11	104	174	150	160	100	185	334	381	116	97	42	304
12	97	197	155	160	120	414	285	374	352	89	44	223
13	90	285	246	160	130	634	268	752	778	83	42	173
14	85	224	460	160	140	388	253	608	717	78	41	142
15	81	173	310	160	120	287	597	443	451	83	44	120
16	77	174	251	160	110	208	1510	410	313	597	57	102
17	74	178	427	160	100	190	1340	405	270	225	48	91
18	73	144	593	160	92	170	694	2230	250	150	42	82
19	72	133	394	160	82	150	863	1020	272	119	40	75
20	72	113	309	150	84	140	893	635	221	101	40	69
21	75	119	215	150	96	140	1190	494	186	88	40	64
22	83	118	221	150	140	140	1820	378	155	79	39	61
23	112	119	237	150	400	130	1550	310	140	73	39	59
24	101	100	198	150	800	130	1180	263	133	66	39	59
25	92	95	173	140	2100	130	929	225	115	62	44	95
26	90	93	122	130	844	134	886	202	118	60	54	108
27	94	93	208	130	540	148	768	251	143	67	58	730
28	97	108	362	130	309	395	562	443	145	67	76	2350
29	89	902	5320	130	---	1330	449	329	1010	60	64	738
30	85	1090	3560	130	---	1110	399	258	691	61	161	405
31	82	---	1240	120	---	648	---	212	---	62	325	---
TOTAL	3718	6212	17479	6466	7361	9301	22823	15393	8528	4132	1960	10205
MEAN	120	207	564	209	263	300	761	497	284	133	63.2	340
MAX	494	1090	5320	781	2100	1330	1820	2230	1010	597	325	2350
MIN	65	77	122	120	82	130	253	202	115	60	39	59
CFSM	.61	1.05	2.85	1.06	1.33	1.52	3.84	2.51	1.43	.67	.32	1.72
IN.	0.70	1.17	3.28	1.21	1.38	1.75	4.29	2.89	1.60	0.78	0.37	1.92

CAL YR 1984 TOTAL 142001 MEAN 388 MAX 5320 MIN 47 CFSM 1.96 IN. 26.68
WTR YR 1985 TOTAL 113578 MEAN 311 MAX 5320 MIN 39 CFSM 1.57 IN. 21.34

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 north of Hooper's dock at Rogers Rock, and 0.4 mi west of Baldwin.

DRAINAGE AREA.--233 mi^2 at outlet at Ticonderoga.

PERIOD OF RECORD.--July 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 315.93 ft above National Geodetic Vertical Datum, 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 mi^2.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 5.09 ft Apr. 9, 1936; minimum, 0.64 ft Dec. 20, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.20 ft Apr. 7; minimum, 2.98 ft Feb. 23.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.30	3.37	3.58	3.53	3.41	3.20	3.82	3.82	3.68	3.80	3.56	3.43
2	3.32	3.35	3.58	3.60	3.41	3.21	3.85	3.83	3.65	3.80	3.58	3.44
3	3.41	3.29	3.60	3.58	3.42	3.21	3.86	3.79	3.65	3.81	3.59	3.42
4	3.38	3.31	3.68	3.58	3.43	3.23	3.87	3.83	3.62	3.82	3.58	3.43
5	3.33	3.37	3.66	3.51	3.40	3.39	3.87	3.84	3.63	3.81	3.58	3.41
6	3.33	3.41	3.69	3.46	3.40	3.39	3.94	3.85	3.64	3.83	3.59	3.59
7	3.34	3.39	3.74	3.39	3.42	3.41	3.99	3.94	3.66	3.85	3.59	3.70
8	3.34	3.40	3.76	3.42	3.43	3.43	3.94	3.92	3.66	3.82	3.60	3.69
9	3.29	3.42	3.73	3.46	3.39	3.44	3.90	3.96	3.67	3.81	3.57	3.68
10	3.29	3.44	3.73	3.42	3.38	3.45	3.88	3.96	3.68	3.81	3.58	3.69
11	3.30	3.43	3.72	3.41	3.36	3.47	3.83	3.90	3.67	3.80	3.57	3.67
12	3.28	3.45	3.77	3.42	3.30	3.56	3.76	3.89	3.67	3.80	3.50	3.69
13	3.30	3.51	3.77	3.42	3.31	3.68	3.68	3.99	3.76	3.78	3.54	3.67
14	3.29	3.51	3.70	3.43	3.27	3.69	3.69	3.91	3.77	3.81	3.53	3.66
15	3.28	3.54	3.74	3.43	3.22	3.68	3.66	3.91	3.75	3.79	3.53	3.66
16	3.28	3.56	3.74	3.42	3.19	3.65	3.66	3.88	3.74	3.81	3.51	3.65
17	3.27	3.52	3.71	3.41	3.17	3.60	3.64	3.82	3.75	3.77	3.50	3.65
18	3.28	3.52	3.67	3.41	3.14	3.57	3.68	3.75	3.80	3.76	3.50	3.65
19	3.29	3.46	3.63	3.43	3.12	3.59	3.68	3.75	3.82	3.78	3.48	3.64
20	3.32	3.49	3.65	3.45	3.08	3.61	3.72	3.72	3.80	3.76	3.49	3.65
21	3.31	3.47	3.60	3.45	3.05	3.62	3.74	3.64	3.79	3.75	3.45	3.62
22	3.29	3.47	3.72	3.45	3.05	3.62	3.75	3.56	3.79	3.77	3.43	3.61
23	3.31	3.49	3.74	3.44	3.05	3.62	3.76	3.57	3.80	3.70	3.43	3.61
24	3.31	3.46	3.74	3.43	3.08	3.62	3.82	3.58	3.81	3.70	3.41	3.61
25	3.31	3.47	3.68	3.42	3.11	3.63	3.81	3.59	3.76	3.72	3.43	3.61
26	3.30	3.48	3.62	3.41	3.13	3.64	3.83	3.58	3.72	3.69	3.44	3.61
27	3.32	3.48	3.55	3.42	3.16	3.66	3.79	3.60	3.68	3.65	3.48	3.63
28	3.35	3.46	3.55	3.41	3.18	3.67	3.81	3.55	3.73	3.65	3.46	3.74
29	3.32	3.51	3.53	3.41	---	3.70	3.82	3.59	3.77	3.65	3.40	3.70
30	3.34	3.56	3.50	3.40	---	3.70	3.87	3.64	3.79	3.58	3.40	3.65
31	3.31	---	3.52	3.41	---	3.72	---	3.66	---	3.58	3.39	---
MEAN	3.31	3.45	3.66	3.45	3.25	3.54	3.80	3.77	3.72	3.76	3.51	3.62
MAX	3.41	3.56	3.77	3.60	3.43	3.72	3.99	3.99	3.82	3.85	3.60	3.74
MIN	3.27	3.29	3.50	3.39	3.05	3.20	3.64	3.55	3.62	3.58	3.39	3.41

CAL YR 1984 MEAN 3.66 MAX 4.26 MIN 3.25
WTR YR 1985 MEAN 3.57 MAX 3.99 MIN 3.05

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 downstream from county bridge on Padanarum Road, 7.7 mi north of Bolton Landing.

DRAINAGE AREA.--23.4 mi^2.

PERIOD OF RECORD.--October 1965 to September 1968, October 1971 to current year. Annual maximum, water years 1969-71.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 423.60 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1973, at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 4 to Feb. 12, Feb. 24-25, 28, and Sept. 6-30. Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--17 years (1966-68, 1972-85), 36.5 ft^3/s, 21.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,770 ft^3/s Feb. 11, 1981, gage height, 6.35 ft from rating curve extended above 190 ft^3/s on basis of slope-area measurement at gage height 5.53 ft; maximum gage height, 7.14 ft Feb. 11, 1981 (ice jam); minimum discharge, 0.28 ft^3/s Sept. 27, 28, 29, 1968, gage height, 0.18 ft present datum.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 12	1715	*419	*3.41	No other peak greater than base discharge.			

Minimum discharge, 0.34 ft^3/s Aug. 19, gage height, 0.61 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	6.5	52	84	9.8	47	51	21	12	6.7	2.1	1.2
2	8.7	6.7	44	142	9.4	44	44	19	9.7	5.7	1.4	1.1
3	8.9	6.4	37	97	9.0	39	37	18	8.3	5.5	1.0	.99
4	8.4	6.0	36	70	8.8	50	37	16	7.4	4.8	.94	1.1
5	6.5	42	30	52	8.8	75	69	18	7.0	4.2	.85	2.1
6	5.6	42	30	45	8.6	50	197	25	11	3.7	.75	36
7	5.2	24	31	40	8.4	32	141	70	8.0	3.6	.84	30
8	4.9	17	36	35	8.2	29	94	46	6.8	3.4	1.2	11
9	4.8	14	25	32	8.0	27	75	35	6.7	2.7	1.0	6.7
10	4.6	17	23	30	7.8	26	60	30	6.1	2.7	.93	21
11	4.5	16	26	28	8.0	29	53	27	5.1	2.6	.86	14
12	4.4	34	32	26	8.4	211	46	27	14	2.2	.88	8.7
13	4.4	54	65	24	17	182	41	101	19	2.1	.71	6.2
14	4.5	41	83	22	13	115	38	63	16	1.9	.62	4.7
15	4.4	33	60	20	9.4	80	37	45	11	2.6	.65	3.8
16	4.3	31	51	19	8.5	72	37	38	9.8	4.8	.68	3.1
17	4.2	31	67	18	8.1	53	34	40	11	2.9	.60	2.5
18	4.2	26	76	18	7.8	45	33	38	12	2.4	.52	2.2
19	4.3	24	60	17	7.5	54	41	34	10	2.0	.48	1.9
20	6.1	20	50	16	7.3	39	40	29	8.3	1.9	.91	1.7
21	5.7	18	40	15	7.0	37	36	25	7.2	1.8	.68	1.6
22	5.8	17	45	14	7.2	37	35	23	6.3	1.6	.60	1.5
23	6.1	16	41	14	11	31	33	22	5.9	1.2	.56	1.4
24	5.7	16	35	13	56	32	30	18	5.0	1.1	.55	1.4
25	5.4	15	31	12	100	30	28	16	3.9	1.0	1.2	2.1
26	6.9	14	34	12	70	29	27	14	3.7	1.3	1.4	1.6
27	7.1	14	45	11	56	28	25	16	3.7	1.6	1.4	20
28	6.5	14	31	11	50	53	23	17	4.0	1.1	.98	53
29	8.3	41	73	10	---	83	24	13	12	.94	.84	23
30	7.7	72	155	10	---	72	25	11	9.0	.91	1.0	15
31	6.9	---	92	10	---	56	---	10	---	1.4	1.6	---
TOTAL	178.3	728.6	1536	967	539.0	1787	1491	925	259.9	82.35	28.73	280.59
MEAN	5.75	24.3	49.5	31.2	19.2	57.6	49.7	29.8	8.66	2.66	.93	9.35
MAX	8.9	72	155	142	100	211	197	101	19	6.7	2.1	53
MIN	3.3	6.0	23	10	7.0	26	23	10	3.7	.91	.48	.99
CFSM	.25	1.04	2.12	1.33	.82	2.46	2.12	1.27	.37	.11	.04	.40
IN.	0.28	1.16	2.44	1.54	0.86	2.84	2.37	1.47	0.41	0.13	0.05	0.45

CAL YR 1984 TOTAL 13258.1 MEAN 36.2 MAX 352 MIN 2.6 CFSM 1.55 IN. 21.08
WTR YR 1985 TOTAL 8803.47 MEAN 24.1 MAX 211 MIN .48 CFSM 1.03 IN. 14.00

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 downstream from Carver Falls, 1.9 mi upstream from Hubbardton River, and 3.2 mi northwest of Fair Haven.

DRAINAGE AREA.--187 mi^2.

PERIOD OF RECORD.--Discharge: October 1928 to current year.
Water-quality records: Water year 1954.

REVISED RECORDS.--WSP 1114: 1929(M), 1932-35.

GAGE.--Water-stage recorder. Elevation of gage is 105 ft, from topographic map.

REMARKS.--Estimated daily discharges: Jan. 7 to Feb. 13 and July 7-24. Records good except for estimated daily discharges, which are poor. Flow regulated by powerplant upstream and Lake Bomoseen. Several observations of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

AVERAGE DISCHARGE.--57 years, 254 ft^3/s, 18.52 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft^3/s July 20, 1945, gage height, 24.36 ft, from high-water mark in well, from rating curve extended above 2,600 ft^3/s on basis of computations of flow over dam at gage heights 16.10 ft, 21.40 ft, and 24.36 ft; minimum daily, 2.1 ft^3/s Aug. 8, 1965, Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar. 13	0315	*2,350	*10.78				

Minimum daily discharge, 8.5 ft^3/s Sept. 21, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	67	144	564	90	513	321	106	100	49	25	9.0
2	60	68	169	920	58	486	318	117	71	41	22	9.0
3	99	53	139	744	66	426	327	108	78	39	11	21
4	86	63	169	572	43	327	352	90	71	38	11	20
5	95	139	190	507	56	318	433	106	43	33	19	9.1
6	61	254	264	415	72	345	606	122	86	18	23	324
7	54	191	249	350	46	305	708	299	75	88	18	502
8	44	228	229	320	38	319	514	331	72	69	19	218
9	52	207	248	300	43	331	449	289	45	58	9.8	171
10	51	197	191	260	44	339	388	271	54	46	9.6	159
11	48	218	144	170	47	333	350	215	60	44	9.6	230
12	45	394	189	220	40	1020	320	131	75	72	9.6	217
13	40	518	280	145	150	1760	293	181	81	11	22	128
14	29	423	486	130	666	1100	274	179	100	40	22	70
15	50	359	356	150	599	890	264	147	79	56	9.6	66
16	11	345	314	120	531	705	258	143	72	40	22	58
17	61	294	446	62	438	639	254	122	88	50	9.6	55
18	19	247	557	125	242	530	234	173	64	36	9.6	39
19	52	227	484	130	177	432	254	249	87	48	22	44
20	35	183	445	140	190	446	258	197	47	10	31	49
21	30	183	400	90	180	434	232	189	60	10	9.6	8.5
22	35	152	419	110	206	375	231	160	62	34	9.6	17
23	33	150	487	160	326	366	215	126	38	23	22	66
24	36	154	411	220	1240	366	206	149	53	25	9.6	8.7
25	34	147	385	240	1930	341	187	108	46	24	9.3	52
26	47	124	291	210	1070	312	157	103	49	24	9.0	8.5
27	29	132	180	220	791	312	152	111	48	11	9.0	55
28	37	125	187	160	570	333	134	118	44	11	28	317
29	78	140	425	76	---	426	134	121	59	23	9.0	100
30	89	149	779	72	---	377	127	111	41	25	31	73
31	75	---	531	50	---	322	---	76	---	24	9.0	---
TOTAL	1526	6131	10188	7952	9949	15528	8950	4948	1948	1120	489.5	3103.8
MEAN	49.2	204	329	257	355	501	298	160	64.9	36.1	15.8	103
MAX	99	518	779	920	1930	1760	708	331	100	88	31	502
MIN	11	53	139	50	38	305	127	76	38	10	9.0	8.5
CFSM	.26	1.09	1.76	1.37	1.90	2.68	1.59	.86	.35	.19	.08	.55
IN.	.30	1.22	2.03	1.58	1.98	3.09	1.78	.98	.39	.22	.10	.62

CAL YR 1984 TOTAL 132674 MEAN 362 MAX 4010 MIN 11 CFSM 1.94 IN. 26.39
WTR YR 1985 TOTAL 71833.3 MEAN 197 MAX 1930 MIN 8.5 CFSM 1.05 IN. 14.29

04294500 LAKE CHAMPLAIN AT BURLINGTON, VT.

LOCATION.--Lat 44°28'52", long 73°13'27", Chittenden County, Hydrologic Unit 02010003, 50 ft south of Gulf Oil Co. dock at Burlington, 0.1 mi north of Burlington Water Department pumping station, and 0.5 mi north of railroad station.

PERIOD OF RECORD.--Gage heights: May 1907 to current year.
Water-quality records: Water year 1971.

REVISED RECORDS.--WSP 684: 1912-29 (datum correction). WSP 1207: 1938 (datum correction).

GAGE.--Water-stage recorder. Datum of gage is 92.86 ft above National Geodetic Vertical Datum of 1929. Prior to July 20, 1937, nonrecording gage at site 0.7 mi south, and July 20, 1937, to Sept. 7, 1939, nonrecording gage at site 0.1 mi south, both at present datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.80 ft Apr. 4, 1976; minimum observed, -0.25 ft Dec. 4, 1908.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.36 ft Apr. 22, affected by seiche; minimum, 1.31 ft Nov. 4, affected by seiche.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.02	1.52	1.90	3.48	2.97	3.63	4.51	4.98	3.68	3.06	2.43	1.86
2	2.05	1.46	1.95	3.62	2.95	3.71	4.54	4.91	3.65	3.03	2.43	1.85
3	2.03	1.50	1.97	3.69	2.91	3.78	4.54	4.87	3.61	3.01	2.40	1.84
4	2.05	1.39	1.99	3.70	2.87	3.81	4.56	4.77	3.57	3.00	2.36	1.84
5	2.07	1.45	2.00	3.73	2.85	3.86	4.62	4.72	3.52	2.96	2.33	1.85
6	2.07	1.54	2.07	3.72	2.83	3.87	4.73	4.68	3.48	2.95	2.31	1.94
7	2.05	1.58	2.05	3.71	2.79	3.81	4.89	4.67	3.43	2.95	2.24	1.98
8	2.03	1.58	2.02	3.69	2.76	3.78	5.02	4.66	3.40	2.95	2.24	2.02
9	2.05	1.53	2.03	3.65	2.74	3.78	5.07	4.60	3.35	2.95	2.25	2.05
10	2.03	1.51	2.01	3.63	2.72	3.75	5.05	4.52	3.30	2.94	2.22	2.08
11	2.03	1.56	2.03	3.60	2.69	3.71	5.03	4.52	3.25	2.92	2.19	2.07
12	2.02	1.62	1.99	3.59	2.67	3.80	5.02	4.45	3.27	2.88	2.16	2.05
13	2.01	1.74	2.03	3.58	2.67	4.08	4.99	4.42	3.28	2.84	2.14	2.02
14	1.99	1.80	2.16	3.55	2.66	4.30	4.87	4.43	3.30	2.77	2.10	1.99
15	1.97	1.78	2.22	3.54	2.66	4.44	4.84	4.38	3.33	2.77	2.08	1.96
16	1.96	1.79	2.22	3.50	2.65	4.47	4.87	4.31	3.34	2.82	2.08	1.94
17	1.94	1.82	2.23	3.46	2.63	4.49	4.95	4.29	3.33	2.84	2.07	1.91
18	1.92	1.86	2.37	3.43	2.61	4.48	4.99	4.28	3.33	2.83	2.02	1.88
19	1.89	1.87	2.43	3.41	2.57	4.42	5.10	4.26	3.31	2.80	1.93	1.86
20	1.87	1.86	2.46	3.38	2.56	4.39	5.17	4.23	3.31	2.77	1.93	1.84
21	1.82	1.84	2.48	3.34	2.53	4.36	5.18	4.23	3.29	2.74	1.94	1.83
22	1.82	1.82	2.47	3.30	2.50	4.31	5.21	4.20	3.25	2.71	1.91	1.82
23	1.81	1.79	2.48	3.26	2.52	4.26	5.24	4.13	3.22	2.65	1.88	1.78
24	1.80	1.79	2.43	3.23	2.65	4.23	5.24	4.08	3.21	2.61	1.84	1.76
25	1.77	1.80	2.48	3.20	2.90	4.19	5.22	4.00	3.16	2.51	1.84	1.78
26	1.77	1.78	2.47	3.18	3.22	4.14	5.20	3.95	3.15	2.46	1.83	1.76
27	1.74	1.77	2.48	3.13	3.45	4.07	5.18	3.90	3.14	2.48	1.83	1.78
28	1.67	1.73	2.45	3.11	3.58	4.06	5.14	3.91	3.13	2.47	1.82	1.91
29	1.69	1.79	2.56	3.07	---	4.18	5.11	3.88	3.11	2.42	1.81	1.98
30	1.66	1.84	2.96	3.04	---	4.34	5.03	3.81	3.09	2.43	1.84	2.00
31	1.63	---	3.32	3.00	---	4.46	---	3.72	---	2.42	1.89	---
MEAN	1.91	1.69	2.28	3.44	2.79	4.10	4.97	4.35	3.33	2.77	2.08	1.91
MAX	2.07	1.87	3.32	3.73	3.58	4.49	5.24	4.98	3.68	3.06	2.43	2.08
MIN	1.63	1.39	1.90	3.00	2.50	3.63	4.51	3.72	3.09	2.42	1.81	1.76

CAL YR 1984 MEAN 3.94 MAX 6.75 MIN 1.39
WTR YR 1985 MEAN 2.97 MAX 5.24 MIN 1.39

STREAMS TRIBUTARY TO ST. LAWRENCE RIVER

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY
(National stream-quality accounting network station)

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 south of Fort Montgomery ruins. Water-quality sampling site at stage station.

DRAINAGE AREA.--8,277 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--March 1871 to current year. Maximum and minimum monthly gage heights at St. Johns, Quebec, October 1863 to December 1870, published in WSP 97. Prior to October 1970, daily gage heights published in WSP 894. 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 Supply of Canada annual reports. Gage heights prior to October 1, 1925, published as "Richelieu River at Fort Montgomery, Rouses Point."

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. 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 higher.

REMARKS.--Area of lake surface about 490 mi². Total volume below 92.5 ft elevation, reported by Lake Champlain Studies Center, 902.2 bil ft³. Gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 101.80 ft Mar. 30, 1903; minimum observed, 92.17 ft Oct. 23, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known since at least 1827, 102.1 ft 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, 98.28 ft Apr. 24; minimum, 93.91 ft Nov. 2.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94.83	95.11	94.78	96.41	95.80	96.53	97.43	97.75	96.62	95.92	95.22	94.73
2	94.77	94.45	94.76	96.39	95.77	96.54	97.40	97.76	96.58	95.91	95.23	94.76
3	95.07	94.35	94.90	96.52	95.75	96.55	97.43	97.56	96.44	95.92	95.26	94.76
4	94.85	94.75	94.87	96.58	95.72	96.64	97.39	97.58	96.39	95.89	95.26	94.71
5	94.84	94.37	94.85	96.51	95.67	96.74	97.45	97.54	96.36	95.89	95.23	94.69
6	94.89	94.35	94.86	96.52	95.64	96.69	97.62	97.50	96.30	95.85	95.24	94.76
7	94.95	94.37	94.89	96.49	95.64	96.74	97.75	97.47	96.30	95.85	95.32	94.88
8	94.94	94.45	95.08	96.47	95.62	96.68	97.83	97.39	96.26	95.81	95.18	94.86
9	94.86	94.58	94.90	96.47	95.59	96.61	97.84	97.55	96.30	95.82	95.11	94.83
10	94.87	94.61	94.96	96.45	95.55	96.60	97.94	97.46	96.16	95.79	95.10	94.81
11	94.85	94.44	94.85	96.44	95.52	96.60	97.86	97.32	96.09	95.77	95.07	94.81
12	94.84	94.39	95.11	96.43	95.49	96.64	97.83	97.36	96.10	95.82	94.97	94.83
13	94.83	94.45	94.91	96.41	95.51	96.88	97.76	97.34	96.13	95.78	94.99	94.82
14	94.82	94.55	94.91	96.42	95.51	97.15	97.96	97.20	96.16	95.81	94.99	94.81
15	94.80	94.91	95.13	96.33	95.50	97.23	97.77	97.27	96.20	95.69	94.95	94.82
16	94.78	94.74	95.46	96.31	95.49	97.29	97.60	97.28	96.20	95.69	94.91	94.80
17	94.75	94.62	95.23	96.29	95.49	97.28	97.69	97.14	96.18	95.68	94.88	94.80
18	94.74	94.68	95.17	96.26	95.45	97.25	97.94	97.09	96.26	95.67	94.95	94.79
19	94.76	94.65	95.27	96.23	95.44	97.31	97.89	97.14	96.24	95.73	95.05	94.75
20	94.71	94.63	95.31	96.21	95.39	97.20	97.98	97.21	96.17	95.62	94.82	94.76
21	94.82	94.62	95.33	96.17	95.38	97.16	98.00	97.06	96.17	95.63	94.75	94.64
22	94.63	94.69	95.57	96.15	95.37	97.15	98.01	97.02	96.21	95.57	94.71	94.69
23	94.64	94.72	95.44	96.11	95.36	97.09	98.01	97.01	96.15	95.49	94.73	94.72
24	94.64	94.63	95.57	96.06	95.48	97.02	98.11	96.93	96.04	95.54	94.73	94.66
25	94.62	94.65	95.31	96.03	95.73	96.96	98.07	96.87	95.99	95.67	94.73	94.61
26	94.55	94.64	95.24	95.99	96.08	96.96	98.02	96.79	95.90	95.47	94.68	94.72
27	94.61	94.66	95.30	95.99	96.27	96.95	97.98	96.77	95.85	95.35	94.72	94.57
28	94.75	94.70	95.38	95.93	96.44	96.89	97.96	96.68	95.84	95.33	94.66	94.76
29	94.48	94.59	95.40	95.90	---	96.99	97.91	96.69	95.91	95.35	94.59	94.88
30	94.59	94.70	95.76	95.87	---	97.11	97.89	96.79	95.91	95.28	94.63	94.94
31	94.46	---	96.13	95.84	---	97.25	---	96.80	---	95.29	94.63	---
MEAN	94.76	94.60	95.18	96.26	95.63	96.93	97.81	97.20	96.18	95.67	94.94	94.77
MAX	95.07	95.11	96.13	96.58	96.44	97.31	98.11	97.76	96.62	95.92	95.32	94.94
MIN	94.46	94.35	94.76	95.84	95.36	96.53	97.39	96.68	95.84	95.28	94.59	94.57

CAL YR 1984 MEAN 96.80 MAX 99.60 MIN 94.35
WTR YR 1985 MEAN 95.83 MAX 98.11 MIN 94.35

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-67, 1969-72, 1974 to current year.
CHEMICAL DATA: 1966-67 (a), 1969 (b), 1970 (c), 1971-72 (b), 1974-82 (c), 1983-85 (b).
MINOR ELEMENTS DATA: 1974-85 (b).
PESTICIDE DATA: 1976-79 (b), 1980 (a), 1982 (b).
ORGANIC DATA: OC--1974 (a), 1975-77 (b), 1978 (a), 1979-81 (c).
PCB--1978-79 (b), 1980 (a), 1982 (b).
NUTRIENT DATA: 1970 (c), 1971-72 (b), 1974 (b), 1975-82 (c), 1983-85 (b).
BIOLOGICAL DATA:
Bacteria--1974 (a), 1975-82 (c), 1983-85 (b).
Phytoplankton--1974 (a), 1975-78 (c), 1979 (b), 1980-81 (c).
Periphyton--1975 (c), 1976-80 (b).
SEDIMENT DATA: 1975-82 (c), 1983-85 (b).

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 17...	1030	145	7.4	12.5	1.0	770	10.8	100	K5	<1
APR 18...	1000	148	7.2	3.0	1.1	765	12.0	89	K2	<1
MAY 16...	1000	135	8.0	11.5	6.0	760	11.0	101	<1	<1
JUL 31...	0830	141	7.9	22.0	1.4	770	8.4	95	K13	K3

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	BICARBONATE IT-FLD (MG/L AS HCO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT 17...	59	9	17	4.1	6.2	1.3	51	61	16	9.5
APR 18...	59	10	17	4.0	6.1	1.1	49	60	14	9.8
MAY 16...	59	6	17	3.9	5.8	1.1	52	64	14	8.4
JUL 31...	59	10	17	4.1	6.7	1.2	50	60	13	9.3

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
OCT 17...	.20	1.0	93	86	<.10	<.010	.30	.050	.010	.050
APR 18...	.20	1.2	89	83	.13	<.010	.20	.030	.030	.020
MAY 16...	<.10	1.0	91	83	.87	.050	.50	<.010	<.010	<.010
JUL 31...	<.10	.9	86	82	<.10	.020	.40	<.010	<.010	<.010

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

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
OCT										
17...	20	<1	11	<.5	<1	<1	<3	2	6	3
APR										
18...	10	<1	10	<.5	<1	<1	<3	<1	9	1
MAY										
16...	20	<1	9	<.5	<1	<1	<3	1	11	<1
JUL										
31...	<10	1	9	<.5	<1	<1	<3	1	13	1

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
OCT										
17...	<4	3	.1	<10	2	<1	<1	81	<6	28
APR										
18...	<4	2	.1	<10	3	<1	<1	82	<6	10
MAY										
16...	<4	2	<.1	<10	2	<1	<1	80	<6	6
JUL										
31...	<4	2	.1	<10	1	<1	<1	82	<6	<3

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	SAMPLING DEPTH (FEET)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	BAROMETRIC PRESSURE (MM OF HG)
MAY										
16...	0920	275	1	12	137	8.0	11.0	11.0	100	760
16...	0921	275	5	12	137	7.9	11.0	11.2	102	760
16...	0922	275	10	12	136	7.8	11.0	11.1	101	760
16...	0930	550	1	22	135	8.0	11.0	11.0	100	760
16...	0931	550	5	22	135	8.0	11.0	11.1	101	760
16...	0932	550	10	22	135	8.0	11.0	11.1	101	760
16...	0933	550	15	22	135	8.0	11.0	11.1	101	760
16...	0934	550	20	22	135	7.9	11.0	11.4	104	760
16...	0940	825	1	25	135	8.0	11.5	11.0	101	760
16...	0941	825	5	25	135	8.0	11.5	11.0	101	760
16...	0942	825	10	25	135	8.0	11.5	11.0	101	760
16...	0943	825	15	25	135	8.0	11.0	11.1	101	760
16...	0944	825	20	25	135	7.9	11.0	11.3	103	760
16...	0945	825	25	25	134	7.8	11.0	11.6	105	760
16...	1001	1100	1	19	135	8.1	11.5	10.8	99	760
16...	1002	1100	5	19	135	8.0	11.5	10.8	99	760
16...	1003	1100	10	19	135	8.0	11.5	10.9	100	760
16...	1004	1100	15	19	135	8.0	11.5	11.0	101	760
16...	1005	1100	20	19	135	8.0	11.5	11.0	101	760
16...	1010	1380	1	15	135	8.0	12.0	10.6	99	760
16...	1011	1380	5	15	135	8.0	12.0	10.7	100	760
16...	1012	1380	10	15	135	8.0	12.0	10.9	101	760
16...	1013	1380	15	15	135	8.0	11.5	11.3	104	760

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SEDIMENT, SUSPENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	DATE	TIME	SEDIMENT, SUSPENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT				MAY			
17...	1030	7	56	16...	1000	2	95
APR				JUL			
18...	1000	6	45	31...	0830	1	78

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, 140 mi^2. PERIOD OF RECORD, April 1923 to current year. GAGE, nonrecording gage read daily at 1200 hours. Datum of gage is 1,469.75 ft above National Geodetic Vertical Datum of 1929.

Dam completed in 1867 and controlled storage for which records are available began in 1923. Usable capacity above elevation 1,475.25 ft is 2,530 mil ft^3. Crest at spillway is at elevation, 1,486.43 ft. Length of spillway is 110 ft. Area of water surface at crest elevation is 10.9 mi^2. Records provided by Oswegatchie River-Cranberry Reservoir Commission.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 2,985 mil ft^3 May 13-15, 1971, gage height, 18.5 ft; minimum observed, 70 mil ft^3 Apr. 1-4, 1956, gage height, 6.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 2,770 mil ft^3 Jan. 1, gage height, 17.8 ft; minimum observed, 1,142 mil ft^3 Sept. 26, gage height, 11.6 ft.

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 southeast of Stark, and 8.8 mi southeast of South Colton. DRAINAGE AREA, 872 mi^2, revised. PERIOD OF RECORD, October 1954 to current year. GAGE, nonrecording gage read daily at 0800 hours. Datum of gage is National Geodetic Vertical Datum of 1929.

Dam completed January 1953 and controlled storage for which records are available began in October 1954. Usable capacity above elevation 1,332.0 ft is 5,114.9 mil ft^3. Crest at spillway is at elevation 1,386.0 ft. Length of spillway is 830 ft. Area of water surface at crest elevation is 5.16 mi^2 (3,300 acres). The pond has a length of 6 mi and a perimeter of 25 mi. Below crest elevation, capacity controlled by a taintor gate, 27 ft x 15 ft, and 2 sluice gates, 10 ft x 10 ft. Records provided by Niagara Mohawk Power Corporation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 5,146 mil ft^3 June 1, 5, 6, 1955, elevation, 1,386.1 ft; minimum observed, 8.64 mil ft^3 Mar. 27-30, 1963, Apr. 4-11, 1964, elevation, 1,331.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 5,007 mil ft^3 June 4, elevation, 1,385.1 ft; minimum observed, 1,434 mil ft^3 Mar. 24, elevation, 1,354.1 ft, may have been lower Mar. 26 to Apr. 2 (recorder malfunction).

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 1984 TO SEPTEMBER 1985

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	14.7	1,892		1,369.5	2,993.8	
Oct. 31	13.9	1,684	- 77.6	1,362.6	2,256.8	- 275
Nov. 30	14.1	1,736	+ 20.1	1,363.7	2,370.8	+ 44.0
Dec. 31	17.6	2,710	+364	1,381.1	4,454.8	+ 778
CAL YR 1984	-	-	+ 21.8	-	-	+ 22.8
Jan. 31	14.0	1,710	-373	1,367.6	2,780.4	- 625
Feb. 28	13.8	1,658	- 21.5	1,361.7	2,163.5	- 255
Mar. 31	12.8	1,412	- 91.8	1,355.2e	1,531.0e	- 236e
Apr. 30	15.5	2,100	+265	1,378.7	4,134.2	+1,004e
May 31	16.5	2,380	+105	1,384.8	4,966.3	+ 311
June 30	15.8	2,184	- 75.6	1,381.9	4,565.4	- 155
July 31	15.2	2,022	- 60.5	1,373.1	3,416.3	- 429
Aug. 31	13.9	1,684	-126	1,369.5	2,993.8	- 158
Sept. 30	12.2	1,274	-158	1,379.2	4,199.0	+ 465
WTR YR 1985	-	-	- 19.6	-	-	+ 38.2

* Gage heights or elevations at 2400 hours, by interpolation.
e Estimated.

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 1985

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Hudson River Basin				
01358500	Poesten Kill near Troy, NY	Lat 42°44'00", long 73°38'00", Rensselaer County, Hydrologic Unit 02020006, on left bank, 600 ft downstream from bridge on State Highway 2, 1.5 mi west of Eagle Mills, 3.0 mi east of Troy, and 5.0 mi upstream from mouth.	89.4	1924-68‡, 1969, 1985	9- 5-85	16.9
01359528	Normans Kill at Albany, NY	Lat 42°38'00", long 73°48'22", Albany County, Hydrologic Unit 02020006, on left bank, 0.35 mi upstream from bridge on Normans Kill Road at Normansville, and 0.40 mi upstream from Delaware Avenue Bridge in Albany.	168	1979-83‡, 1984-85	9- 5-85	26.7
01361000	Kinderhook Creek at Rossman, NY	Lat 42°19'50", long 73°44'40", Columbia County, Hydrologic Unit 02020006, on right bank, 1.0 mi upstream from Claverack Creek, 2.25 mi downstream from Stuyvesant Falls, just downstream from highway bridge in Rossman.	329	1907-13, 1929-68‡, 1969, 1984-85	9- 5-85	63.7
01361320	Claverack Creek at Hudson, NY	Lat 42°15'17", long 73°45'17", Columbia County, Hydrologic Unit 02020006, at bridge on State Highway 66, 0.7 mi east of city line of Hudson.	164	1957, 1971, 1985	9- 5-85	23.7
01361500	Catskill Creek at Oak Hill, NY	Lat 42°24'16", long 74°09'07", Greene County, Hydrologic Unit 02020006, on right bank, 550 ft downstream from bridge on County Highway 22, 650 ft downstream from unnamed tributary, and 1.1 mi upstream from Tenmile Creek.	98.0	1911-77‡, 1985	9- 5-85	5.22
01362000	Catskill Creek at South Cairo, NY	Lat 42°16'40", long 73°57'30", Greene County, Hydrologic Unit 02020006, near right bank, on downstream side of highway bridge, at South Cairo.	270	1902-06‡	9- 5-85	8.00
01373500	Fishkill Creek at Beacon, NY	Lat 41°30'40", long 73°56'55", Dutchess County, Hydrologic Unit 02020008, on left bank, 2.5 mi upstream from mouth, at upstream side of Bridge Street Bridge, in Beacon.	190	1882-1902, 1945-68‡, 1984-85	9- 6-85	12.5
01373800	Moodna Creek at Mountainville, NY	Lat 41°24'33", long 74°04'26", Orange County, Hydrologic Unit 02020008, at bridge on Buzzard Hill Road, 0.1 mi downstream from Woodbury Creek, and 0.5 mi northeast of Mountainville.	154	1956-60, 1964-65, 1971-72, 1977, 1985	9-26-85	15.5

‡ Operated as a continuous-record gaging station.

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 1985

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		Housatonic River basin					
01199477	Stony Brook near Dover Plains, NY	Lat 41°42'38", long 73°37'18", Dutchess County, Hydrologic Unit 01100005, on town road, 100 ft upstream from mouth, and 2.9 mi southwest of Dover Plains.	1.93	1976-85	9-28-85	2.02	157
		Mamaroneck River basin					
01300800	Mamaroneck River at Winfield Avenue at Mamaroneck, NY	Lat 40°58'07", long 73°44'15", Westchester County, Hydrologic Unit 02030102, at bridge on Winfield Avenue, 0.1 mi downstream from Mamaroneck Reservoir, and 1.6 mi upstream from gaging station at Mamaroneck (01301000).	14.5	1972, 1983-85	9-27-85	5.76	647
		Hudson River basin					
01319800	West Branch Sacandaga River at Arietta, NY	Lat 43°15'03", long 74°31'06", Hamilton County, Hydrologic Unit 02020002, at bridge on State Highway 10, 0.4 mi north of Arietta.	28.9	1963-85	12-29-84	11.86	1,430
01319950	Sand Lake Outlet near Piseco, NY	Lat 43°22'15", long 74°32'47", Hamilton County, Hydrologic Unit 02020002, at bridge on State Highway 10, 0.9 mi upstream from mouth, and 5.5 mi south of Piseco.	7.16	1962-83, 1985	12-29-84	2.60	436
01329154	Steele Brook at Shushan, NY	Lat 43°05'35", long 73°19'38", Washington County, Hydrologic Unit 02020003, at bridge on county road, 1.1 mi upstream from mouth, and 0.8 mi east of Shushan.	2.85	1979-85	3-12-85	3.74	54
01329780	Sessions Brook at Porters Corners, NY	Lat 43°09'21", long 73°52'45", Saratoga County, Hydrologic Unit 02020003, at culvert on County Highway 17, 0.7 mi northeast of Porters Corners, and 0.9 mi upstream from mouth.	1.04	1968-71, 1973, 1975-76, 1978-85	3-13-85	9.59	11
01329900	Glowegee Creek tributary at Mosherville, NY	Lat 43°03'24", long 74°00'58", Saratoga County, Hydrologic Unit 02020003, at culvert on Parkis Mill Road, 0.4 mi south of Mosherville.	1.42	1968-75, 1977, 1979-85	3-14-77 3-12-85	13.15 11.99	R139 60
01330880	Saratoga Lake tributary near Bemis Heights, NY	Lat 42°59'43", long 73°43'06", Saratoga County, Hydrologic Unit 02020003, at culvert on State Highway 423, 1.4 mi upstream from mouth, and 4.6 mi northwest of Bemis Heights.	2.98	1968, 1970-71, 1973, 1975-85	3-12-85	12.54	92
01333367	Little Hoosic River at Cherry Plain, NY	Lat 42°37'57", long 73°21'23", Rensselaer County, Hydrologic Unit 02020003, at bridge on town road, just upstream from Kronk Brook, in Cherry Plain, 4.2 mi south of Berlin.	2.22	1976-85	3-12-85	1.65	57
01342730	Steele Creek at Ilion, NY	Lat 43°00'05", long 75°02'44", Herkimer County, Hydrologic Unit 02020004, at bridge on Whitney Street in Ilion, and 2.6 mi upstream from mouth.	R26.2	1964-65, 1966-68#, 1969, 1971-74, 1976-83, 1985	12-29-84	3.18	618

R Revised.
Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Hudson River basin--Continued					
01342800	West Canada Creek at Nobleboro, NY	Lat 43°23'47", long 74°51'35", Herkimer County, Hydrologic Unit 02020004, on right bank, 30 ft downstream from bridge on State Highway 8, 2.9 mi northeast of Wilmurt, in village of Nobleboro.	R193	1946, 1958-66, 1967-68‡, 1969,1972, 1974,1976, 1985	12-29-84	f13.93	20,000
01346820	Mohawk River tributary at Indian Castle, NY	Lat 43°00'34", long 74°47'47", Herkimer County, Hydrologic Unit 02020004, at culvert on State Highway 5S, 0.35 mi west of Indian Castle, and 0.4 mi upstream from mouth.	R1.36	1974-85	3-12-85	1.57	56
01347460	Spruce Lake tributary near Salisbury Center, NY	Lat 43°10'51", long 74°48'44", Herkimer County, Hydrologic Unit 02020004, at culvert on town road (Jerseyfield Road), 1.3 mi upstream from mouth, and 2.9 mi north of Salisbury Center.	R.54	1975-85	12-29-84	2.85	30
01348420	North Creek near Ephratah, NY	Lat 43°00'28", long 74°33'54", Fulton County, Hydrologic Unit 02020004, at culvert on town road, 0.4 mi upstream from mouth, and 1.2 mi northwest of Ephratah.	R6.52	1975-85	12-29-84	5.62	208
01349360	Van Wie Creek tributary near Randall, NY	Lat 42°54'11", long 74°25'55", Montgomery County, Hydrologic Unit 02020004, at culvert on Brumley Road, 0.3 mi south of intersection with Argisinger Road, and 0.9 mi southwest of Randall.	1.00	1974-85	3-12-85	3.13	48
01349850	Batavia Kill at Hensonville, NY	Lat 42°22'17", long 74°12'55", Greene County, Hydrologic Unit 02020005, on County Highway 40, at Hensonville, 0.7 mi upstream from Silver Lake Outlet, and 1.8 mi upstream from Nauvo Stream.	13.5	1955, 1960-66, 1972, 1974, 1976, 1978-85	9-27-85	3.37	700
01350900	Beaverdam Creek near Knox, NY	Lat 42°38'55", long 74°07'56", Albany County, Hydrologic Unit 02020005, 250 ft downstream from bridge, 1.2 mi south of Knox, and 1.7 mi upstream from mouth.	6.91	1963-64, 1966-74, 1976-77, 1979-85	3- 5-85	5.07	-
01354300	Plotter Kill at Rynex Corners, NY	Lat 42°49'16", long 74°04'20", Schenectady County, Hydrologic Unit 02020004, at bridge on State Highway 159, in hamlet of Rynex Corners.	3.70	1958, 1960-68, 1970-74, 1976-85	2-26-61	5.22	R262
					4- 1-62	3.95	R119
					3-27-63	5.74	R342
					3- 5-64	3.71	R100
					4-12-65	4.33	R155
					3-25-66	4.69	R194
					3-27-67	4.32	R154
					3-18-68	5.05	R239
					4- 3-70	6.04	R398
					4- 4-71	4.21	R143
					6-22-72	4.73	R198
					4- 4-73	4.60	R183
					7- 3-74	4.87	R215
					10-18-75	5.60	R319
					3-14-77	5.44	R294
					10-17-77	5.45	R296
					3- 6-79	5.05	R239
					3-22-80	6.54	R512
					2-20-81	5.81	R354
					10-28-81	5.75	R344
					4-25-83	4.44	R166
					5-29-84	5.74	R342
					3-12-85	4.73	198
01361245	Tributary to Taghkanic Creek tributary near Craryville, NY	Lat 42°09'54", long 73°34'15", Columbia County, Hydrologic Unit 02020006, at culvert on County Highway 7, 300 ft upstream from mouth, 0.1 mi northwest of intersection of Routes 7 and 7A, 1.1 mi upstream from Taghkanic Creek, and 1.4 mi southeast of Craryville.	.39	1982-85	2-24-85	4.25	99

R Revised.
‡ Operated as a continuous-record gaging station.
f From floodmarks.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Hudson River basin--Continued					
01361453	Catskill Creek tributary at Franklinton, NY	Lat 42°31'35", long 74°18'33", Schoharie County, Hydrologic Unit 02020006, at culvert on town road, 0.15 mi upstream from mouth, and 0.5 mi northwest of Franklinton.	3.61	1968-72, 1974-85	2-24-85	3.47	90
01361900	Shingle Kill at Cairo, NY	Lat 42°18'22", long 74°00'13", Greene County, Hydrologic Unit 02020006, at bridge on town road at Cairo, southeast of State Highway 32, about 400 ft south of State Highway 23, and 0.8 mi upstream from mouth.	13.9	1953, 1960, 1965-74, 1976-85	9-27-85	4.67	582
01362100	Roeliff Jansen Kill near Hillsdale, NY	Lat 42°09'14", long 73°31'14", Columbia County, Hydrologic Unit 02020006, at bridge on county highway off State Highway 22, 1.8 mi south of Hillsdale.	27.5	1958-60‡, 1963-64, 1968-85	-	<3.44	<475
01362197	Bushnellsville Creek at Shandaken, NY	Lat 42°07'25", long 74°24'02", Ulster County, Hydrologic Unit 02020006, along State Highway 42, 0.4 mi upstream from Esopus Creek, and 0.6 mi northwest of Shandaken.	11.4	1951, 1956, 1972, 1976-85	9-27-85	6.87	144
01363388	Dry Brook at West Shokan, NY	Lat 41°58'22", long 74°17'50", Ulster County, Hydrologic Unit 02020006, at bridge on town road, 0.6 mi northwest of West Shokan, and 1.2 mi upstream from mouth.	1.67	1976, 1978-85	2-24-85	2.32	-
01374130	Canopus Creek at Oscawana Corners, NY	Lat 41°22'43", long 73°52'23", Putnam County, Hydrologic Unit 02030101, at bridge on Hortun Hollow Road, 0.4 mi downstream from West Branch, and 0.8 mi west of Oscawana Corners.	8.30	1975-85	5- 3-85	1.97	61
01374250	Peekskill Hollow Creek at Tompkins Corners, NY	Lat 41°23'18", long 73°48'47" Putnam County, Hydrologic Unit 02030101, at bridge on Bryant Pond Road, 0.9 mi southwest of Tompkins Corners, and 1.1 mi downstream from Wiccopee Brook.	14.9	1975-85	9-28-85	1.70	99
01376420	Saw Mill River at Elmsford, NY	Lat 41°03'19", long 73°49'16", Westchester County, Hydrologic Unit 02030101, at bridge on State Highway 119, 0.6 mi upstream from Rum Brook, and 0.8 mi downstream from Mine Brook at Elmsford.	15.4	1979-85	9-27-85	8.57	446
		Passaic River basin					
01387410	Torne Brook at Ramapo, NY	Lat 41°08'34", long 74°09'44", Rockland County, Hydrologic Unit 02030103, 0.2 mi upstream from mouth, and 0.5 mi east of Ramapo.	2.60	1960, 1962-85	9-27-85	6.04	378
		Delaware River basin					
01417185	Campbell Brook tributary near Downsville, NY	Lat 42°02'41", long 74°58'37", Delaware County, Hydrologic Unit 02040102, at culvert on Campbell Brook Road, 200 ft upstream from mouth, 2.0 mi southwest of Downsville Dam, and 2.7 mi southeast of Downsville.	.41	1975-85	9-27-85	2.22	23
01434010	East Branch Neversink River at Denning, NY	Lat 41°57'30", long 74°46'18", Ulster County, Hydrologic Unit 02040104, on downstream side of bridge on private road at Strauss Estate, 0.9 mi upstream from Erts Brook, 0.4 mi downstream from Riley Brook, and 1.0 mi northeast of Denning.	13.3	1984-85	9-27-85	5.58	4,510

‡ Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		Streams tributary to Lake Ontario					
042490673	North Branch Grindstone Creek near Altmar, NY	Lat 43°29'31", long 76°05'41", Oswego County, Hydrologic Unit 04140102, at culvert on Hong Kong Road, 4.1 mi upstream from confluence with South Branch Grindstone Creek, and 4.1 mi southwest of Altmar.	11.2	1976-85	12-29-84	8.82	241
04249200	North Branch Salmon River at Redfield, NY	Lat 43°32'32", long 75°48'51", Oswego County, Hydrologic Unit 04140102, at highway bridge on Harvester Mill Road, 0.7 mi northeast of Redfield.	82.5	1962-64, 1985	12-29-84	-	13,600
04253000	Sugar River at Talcottville, NY	Lat 43°32'17", long 75°21'58", Lewis County, Hydrologic Unit 04150101, on right bank, 200 ft downstream from bridge on State Highway Rt. 12-D, 0.3 mi north of village of Talcottville.	43.1	1927-31, 1953, 1968‡, 1969, 1985	12-29-84	-	5,860
04253500	Middle Branch Moose River at Old Forge, NY	Lat 43°42'50", long 74°58'10", Herkimer County, Hydrologic Unit 04150101, on left bank, in Old Forge, 150 ft downstream from bridge on State Highway 28, 250 ft downstream from dam on First Lake, and 1.2 mi upstream from North Branch Moose River.	55.0	1912-73‡, 1985	1- 2-85	f4.80	750
04254000	Middle Branch Moose River near McKeever, NY	Lat 43°37'45", long 75°04'55", Herkimer County, Hydrologic Unit 04150101, on right bank, 0.5 mi upstream from confluence with South Branch, and 1.5 mi northeast of McKeever.	151	1926-68‡, 1985	12-29-84	f7.60	3,200
04254500	Moose River at McKeever, NY	Lat 43°36'40", long 75°06'35", Herkimer County, Hydrologic Unit 04150101, on left bank, 0.5 mi west of McKeever, and 2.0 mi downstream from confluence of Middle and South Branches.	363	1902-70‡, 1985	12-29-84	f16.00	15,800
04255000	Otter Creek near Glenfield, NY	Lat 43°43'29", long 75°21'32", Lewis County, Hydrologic Unit 04150101, on left bank, 0.2 mi upstream from dam of Otter Creek Power Corporation, and 2.5 mi east of Glenfield.	64.5	1925-33‡, 1953, 1985	12-29-84	-	3,820
04256040	Mill Creek tributary near Lowville, NY	Lat 43°45'43", long 75°31'13", Lewis County, Hydrologic Unit 04150101, at culvert on West Road, 2.0 mi southwest of Lowville, and 2.2 mi upstream from mouth.	1.66	1976-85	12-29-84	12.26	224
04258700	Deer River at Deer River, NY	Lat 43°55'49", long 75°35'27", Lewis County, Hydrologic Unit 04150101, on left bank, 350 ft upstream from bridge on State Highway 26 at Deer River, and 2 mi upstream from mouth.	94.8	1957-68‡, 1969, 1971-74, 1977-85	12-29-84	10.63	12,400
04260575	Horse Creek tributary near Dexter, NY	Lat 44°04'47", long 76°03'28", Jefferson County, Hydrologic Unit 04150102, at bridge on Weaver Road, 0.3 mi upstream from mouth, 1.0 mi southwest of Reynolds Corners, and 5.1 mi north of Dexter.	4.59	1976-85	12-29-84 2-24-85	<9.72 b10.22	<72 -
		Streams tributary to St. Lawrence River					
04261000	Oswegatchie River at Cranberry Lake, NY	Lat 44°13'15", long 74°51'00", St. Lawrence County, Hydrologic Unit 04150302, on right bank, 900 ft downstream from dam at outlet of Cranberry Lake, at village of Cranberry Lake.	140	1923-82‡, 1985	1- 1-85	f6.76	1,200

‡ Operated as a continuous-record gaging station.
f From floodmarks.
b Ice jam.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Streams tributary to St. Lawrence River--Continued					
04262000	Oswegatchie River near Oswegatchie, NY	Lat 44°13'25", long 75°04'35", St. Lawrence County, Hydrologic Unit 04150302, on left bank, 300 ft downstream from Niagara Mohawk Power Corporation Flat Rock powerplant, and 2.75 mi north of Oswegatchie.	259	1925-68‡, 1985	1- 1-85	f6.06	2,850
04263445	Birch Creek at Pierces Corners, NY	Lat 44°25'42", long 75°32'15", St. Lawrence County, Hydrologic Unit 04150303, at culvert on Old State Road at Pierces Corners, 4.4 mi southeast of Pope Mills, and 11.1 mi upstream from mouth.	1.56	1976-85	12-29-84	<3.19	<46
04264300	Brandy Brook near Waddington, NY	Lat 44°49'42", long 75°09'32", St. Lawrence County, Hydrologic Unit 04150301, at bridge on Halfway House Road, 3.2 mi southeast of Waddington, and 4.4 mi upstream from mouth.	27.0	1959-63‡, 1964-85	3-25-66 4- 3-67 4-14-71 5- 4-72 3-19-73 4- 5-74 4-20-75 5-20-76 R3-13-77 R4-15-78 4-16-79 4-10-80 12-11-80 4-18-82 12-29-84 2-25-85	8.45 7.27 8.28 7.61 R6.99 6.18 6.63 6.68 8.75 R7.25 6.87 6.37 5.85 7.17 5.73 b7.12	R831 R474 R772 R565 R406 R242 R328 R338 R941 R469 R379 R276 R188 R449 166 -
04264700	North Branch Grass River near Clare, NY	Lat 44°25'46", long 75°03'07", St. Lawrence County, Hydrologic Unit 04150304, at bridge on county highway, 3.5 mi upstream from mouth, and 2.0 mi north of Clare.	46.3	1959-63‡, 1964-69, 1985	12-29-84	f7.76	1,420
04265000	Grass River at Pyrites, NY	Lat 44°31'28", long 75°11'48", St. Lawrence County, Hydrologic Unit 04150304, on left bank, 0.5 mi upstream from Harrison Creek, and 1,000 ft downstream from lower bridge in Pyrites.	333	1925-77‡, 1985	12-29-84 2-25-85	f12.20 bf15.56	6,180 -
04265100	Elm Creek near Hermon, NY	Lat 44°26'15", long 75°12'49", St. Lawrence County, Hydrologic Unit 04150304, on left bank, 100 ft downstream from highway bridge, 2.3 mi south of Hermon, and 6.8 mi upstream from confluence with Tanner Creek.	32.6	1959-68‡, 1969-85	12-29-84	6.60	526
04265300	Little River near Canton, NY	Lat 44°32'24", long 75°06'56", St. Lawrence County, Hydrologic Unit 04150304, at old dam 50 ft downstream from highway, 7.4 mi upstream from mouth, and 4.0 mi southeast of Canton.	42.4	1959-60‡, 1961-69, 1971-76, 1985	12-29-84	f7.58	2,300
04267600	Cold Brook near South Colton, NY	Lat 44°29'35", long 74°52'11", St. Lawrence County, Hydrologic Unit 04150305, at bridge on State Highway 56, 1.5 mi south of South Colton, and 1.6 mi upstream from mouth.	18.7	1962-64‡, 1971-76, 1985	4- 3-67 R3-23-68 4-11-69 4-19-70 5- 5-71 5- 4-72 3-18-73 4- 5-74 4-20-75 5-20-76 12-29-84	2.44 R2.69 2.55 3.36 2.53 2.22 2.36 R3.58 R2.42 R - f3.60	R315 R480 R433 R397 R414 R281 R277 R651 R437 R345 679
04267800	Trout Brook at Allen Corners, NY	Lat 44°47'34", long 75°02'01", St. Lawrence County, Hydrologic Unit 04150305, at abandoned bridge off State Highway 56A, at Allen Corners, and 2 mi southwest of Norfolk.	54.2	1959-63‡, 1964-65, 1967-74, 1976-85	12-29-84 2-25-85	6.55 b9.07	501 -

‡ Operated as a continuous-record gaging station.
f From floodmarks.
R Revised.
b Ice jam.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		Streams tributary to St. Lawrence River--Continued					
04268200	Plum Brook near Grantville, NY	Lat 44°52'46", long 74°54'54", St. Lawrence County, Hydrologic Unit 04150305, at bridge on Grant Road, 0.7 mi downstream from unnamed tributary, 1.1 mi upstream from mouth, 1.4 mi north of Grantville, and 2.3 mi southwest of Massena city limits.	43.9	1959-63‡, 1964-68, 1971-85	2-25-85 7-16-85	b5.72 5.07	- 568
04268700	St. Regis River at St. Regis Falls, NY	Lat 44°40'21", long 74°32'54", Franklin County, Hydrologic Unit 04150306, on left bank, 150 ft upstream from lower bridge on State Highway 72, in St. Regis Falls, 6.4 mi downstream from East Branch St. Regis River.	234	1959-68‡, 1985	12-29-84	f7.00	4,800
04268720	Hopkinton Brook at Hopkinton, NY	Lat 44°40'59", long 74°41'58", St. Lawrence County, Hydrologic Unit 04150306, at bridge on town road, 0.4 mi upstream from unnamed tributary, 0.6 mi south of Hopkinton, and 2.0 mi upstream from mouth.	20.0	1961-69, 1971-85	R4- 8-62 4-13-65 3- 4-66 4- 3-67 4-11-69 3-17-71 5- 4-72 3-18-73 4- 5-74 4-20-75 5-20-76 3-14-77 4- 1-78 3-25-79 11-27-79 12- 9-80 4- 1-82 11- 5-82 12-29-84	R2.80 2.57 2.75 3.21 3.26 2.81 2.44 3.93 3.49 3.73 2.57 3.55 Rb4.67 3.55 2.36 3.80 3.01 2.58 3.98	R390 R329 R376 R515 R531 R393 R297 R783 R611 702 R329 R633 - R633 R278 R729 R452 R332 804
04268800	West Branch St. Regis River near Parishville, NY	Lat 44°35'55", long 74°44'15", St. Lawrence County, Hydrologic Unit 04150306, at highway bridge, 4.1 mi downstream from Mud Pond Outlet, 4.2 mi southeast of Parishville, and 4.8 mi upstream from Niagara Mohawk Power Corp. dam.	171	1959-68‡, 1969-85	12-29-84 2-25-85	7.37 b7.51	5,960 -
04269043	Deer River at North Lawrence, NY	Lat 44°47'57", long 74°40'24", St. Lawrence County, Hydrologic Unit 04150306, on right bank, 0.4 mi upstream from abandoned railroad bridge, 0.5 mi upstream from dam at Kraft Co. plant at North Lawrence, and 1.7 mi downstream from Kingston Brook.	78.0	1973-78‡, 1985	12-29-84	-	1,500
04269050	Allen Brook near Brasher Falls, NY	Lat 44°48'07", long 74°43'41", St. Lawrence County, Hydrologic Unit 04150306, at bridge on U.S. Highway 11, 0.8 mi upstream from mouth, and 2.2 mi east of Brasher Falls.	16.0	1961-66‡, 1967-74, 1976-85	12-29-84 2-25-85	4.69 b4.90	786 -
04269100	Lawrence Brook near Moira, NY	Lat 44°50'20", long 74°35'46", Franklin County, Hydrologic Unit 04150306, at highway bridge, 2.4 mi northwest of Moira, and 5.4 mi upstream from mouth.	25.7	1959-60‡, 1961-85	2-25-85 7-16-85	b6.51 6.48	- 1,630
04269500	Deer River at Brasher Iron Works, NY	Lat 44°53'32", long 74°41'28", St. Lawrence County, Hydrologic Unit 04150306, 400 ft upstream from highway bridge, 2.6 mi southeast of Helena, 3.6 mi upstream from mouth, and 3.8 mi downstream from Lawrence Brook, at Brasher Iron Works.	182	1913-16‡, 1959-68‡, 1969, 1971-74, 1976-80, 1985	12-29-84	f6.60	3,520

‡ Operated as a continuous-record gaging station.
b Ice jam.
f From floodmarks.
R Revised.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Streams tributary to St. Lawrence River--Continued					
04270000	Salmon River at Chasm Falls, NY	Lat 44°45'22", long 74°13'09", Franklin County, Hydrologic Unit 04150307, on right bank, 0.1 mi downstream from Niagara Mohawk Power Corp. powerplant at Chasm Falls, and 3.0 mi downstream from Duane Stream.	132	1926-82‡, 1985	12-29-84	f5.63	3,700
04270100	West Branch Deer Creek at Fort Covington Center, NY	Lat 44°56'49", long 74°28,51", Franklin County, Hydrologic Unit 04150307, at highway bridge, 0.8 mi west of Fort Covington Center, 2.1 mi upstream from East Branch, and 3.1 mi south of Fort Covington.	32.4	1962-74, 1976-85	12-29-84 2-26-85	7.02 b7.17	1,340 -
04270150	East Branch Deer Creek at Fort Covington Center, NY	Lat 44°56'53", long 74°27'50", Franklin County, Hydrologic Unit 04150307, at highway bridge, at Fort Covington Center, 1.9 mi upstream from West Branch, and 3.2 mi south of Fort Covington.	23.9	1962‡, 1963-74, 1976-85	12-29-84 2-26-85	6.01 b6.07	912 -
04270162	East Branch Little Salmon River near Skerry, NY	Lat 44°47'13", long 74°22'12", Franklin County, Hydrologic Unit 04150307, at culvert on Adams Road, 100 ft downstream from Limekiln Brook, 1.1 mi northeast of Skerry, and 5.7 mi upstream from mouth.	7.11	1978-85	12-29-84	4.45	143
04270700	Trout River at Trout River, NY	Lat 44°59'23", long 74°17'56", Franklin County, Hydrologic Unit 04150307, at bridge on county highway, 0.2 mi east of State Highway 30, at Trout River, 0.5 mi upstream from international boundary, 1.5 mi downstream from unnamed tributary, and 3.3 mi downstream from Little Trout River.	107	1960-66‡, 1967-85	12-29-84	8.24	5,280
04271500	Great Chazy River at Perry Mills, NY	Lat 45°00'00", long 73°30'05", Clinton County, Hydrologic Unit 02010006, on left bank, 500 ft upstream from highway bridge, and 7.5 mi upstream from Corbeau Creek, at Perry Mills.	247	1929-68‡, 1985	12-30-84	f7.60	3,680
04273700	Salmon River at South Plattsburgh, NY	Lat 44°38'24", long 73°29'43", Clinton County, Hydrologic Unit 02010004, on left bank, at bridge on Salmon River Road, at South Plattsburgh, 0.4 mi west of State Highway 22, and 3.9 mi upstream from mouth.	61.9	1960-68‡, 1969-85	6-22-73 3- 5-74 4-20-75 5-12-76 9-26-77 10-17-77 4- 2-79 11-27-79 9-23-81 12-29-84 3-12-85	5.30 Rb5.60 3.72 3.61 4.08 5.02 3.46 2.55 3.93 3.03 b4.98	R1,520 - R738 R689 R900 R1,400 R624 R282 R830 504 -
04274000	West Branch Ausable River near Lake Placid, NY	Lat 44°18'40", long 73°55'00", Essex County, Hydrologic Unit 02010004, on right bank, 4 mi northeast of Lake Placid, 4 mi downstream from Lake Placid outlet, and 150 ft upstream from Monument Falls.	116	1917, 1920-27, 1928-68‡, 1983-85	12-29-84	9.71	6,150
04276500	Bouquet River at Willsboro, NY	Lat 44°21'30", long 73°23'50", Essex County, Hydrologic Unit 02010004, on right bank, 0.5 mi upstream from bridge on State Highway 22, 2.5 mi downstream from North Branch Bouquet River, and 3.0 mi upstream from mouth, at Willsboro.	275	1924-68‡, 1985	12-30-84	f6.30	3,500

‡ Operated as a continuous-record gaging station.
f From floodmarks.
b Ice jam.
R Revised.

Discharge measurements made at miscellaneous sites during water year 1985

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Hudson River basin				
01335200 Tomhannock Reservoir	Hoosic River	Lat 42°52'03", long 73°35'09", Rensselaer County, Hydrologic Unit 02020003, at dam at mouth of lake, 2.1 mi west of Tomhannock.			4-16-85	45.6
01349514 Cayadutta Creek	Mohawk River	Lat 42°58'02", long 74°25'15", Montgomery County, Hydrologic Unit 02020004, at bridge on State Highway 344, 1.6 mi southeast of Sammonsville.	58.5	1971, 1976, 1980-81	9- 6-85	59.2
01349519 Cayadutta Creek	Mohawk River	Lat 43°57'15", long 74°22'57", Montgomery County, Hydrologic Unit 02020004, at private bridge to abandoned factory, 0.1 mi upstream from State Highway 5 at Fonda.	62.7		9- 6-85	61.3
01362285 Woodland Creek	Esopus Creek	Lat 42°02'06", long 74°21'59", Ulster County, Hydrologic Unit 02020006, at bridge 0.9 mi upstream from Dougherty Branch, and 2.3 mi southwest of Woodland.	5.18	1983-84	11- 2-84	1.19
01362342 Hollow Tree Brook	Stoney Clove Creek	Lat 42°08'32", long 74°15'55", Greene County, Hydrologic Unit 02020006, at bridge on Diamond Notch Road, 0.9 mi north of Lanesville, and approximately 4.8 mi northeast of Phoenecia.	1.95		1-21-85 3-28-85 5-13-85	*1.20 2.16 3.74
01364959 Rondout Creek	Wallkill River	Lat 41°56'13", long 74°22'30", Ulster County, Hydrologic Unit 02020007, 500 ft upstream from mouth of Red Brook, 0.8 mi upstream from outlet of Peekamoose Lake, and 0.8 mi north of Peekamoose.	5.36	1984	11- 2-84 12-12-84 1-22-85 5-13-85 7-16-85	1.63 5.96 *6.27 13.0 23.3
		Delaware River basin				
01417820 Beaver Kill	East Branch Delaware River	Lat 42°00'40", long 74°36'15", Ulster County, Hydrologic Unit 02040102, 900 ft upstream from Black Brook, and 5.5 mi southeast of Turnwood.	8.08	1984	11- 3-84 12-12-84 7-17-85	3.54 14.3 9.39
01421200 Cadosia Creek	East Branch Delaware River	Lat 41°58'03", long 75°15'51", Delaware County, Hydrologic Unit 02040102, at bridge on State Highway 236, 0.3 mi upstream from mouth, at Cadosia.	17.9	1949-50, 1955, 1957-71, 1973-84	10-26-84 4-22-85 6- 7-85 6-25-85 8- 1-85 9- 4-85	*4.12 *18.1 *15.1 *4.35 8.22 *1.99
01426000 Oquaga Creek	West Branch Delaware River	Lat 42°03'31", long 75°25'42", Broome County, Hydrologic Unit 02040101, on left bank, 150 ft downstream from Bone Creek, 400 ft upstream from Mill Street Bridge in Deposit, and 0.3 mi upstream from mouth.	67.6	1941-73‡, 1975-76, 1979-84	10-26-84 4-22-85 6- 7-85 6-25-85 8- 1-85 9- 4-85	*10.0 *66.0 *32.6 *8.52 36.0 *5.05
01427500 Callicoon Creek	Delaware River	Lat 41°45'39", long 75°02'55", Sullivan County, Hydrologic Unit 02040101, on right bank, 0.7 mi southeast of Callicoon, 0.9 mi upstream from mouth, and 1.0 mi west of Hortonville.	110	1941-82‡, 1983-84	10-26-84 4-23-85 6-25-85 7-31-85 9- 5-85	*32.1 *73.1 51.4 *53.2 *31.3
01428000 Tenmile River	Delaware River	Lat 41°33'51", long 75°00'56", Sullivan County, Hydrologic Unit 02040101, on left bank 0.5 mi downstream from East Branch Tenmile River, 0.8 mi usptream from mouth, and 0.6 mi northeast of Tusten.	45.6	1946-73‡, 1978-84	10-25-84 4-23-85 6-10-85 6-25-85 7-31-85 9- 5-85	*6.97 *32.9 *28.1 27.1 *14.2 *13.7
0143400690 East Branch Neversink River	Neversink River	Lat 41°57'51", long 74°27'02", Ulster County, Hydrologic Unit 02040104, 500 ft upstream from Tray Mill Brook, and 2.2 mi northeast of Denning.	9.15	1984	12- 5-84 1-22-85 3-29-85 5-14-85	13.4 *12.3 80.6 29.3

* Base flow.
‡ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1985--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Delaware River basin--Continued				
01434027O5 Pigeon Brook	Biscuit Brook	Lat 41°59'13", long 74°30'11", Ulster County, Hydrologic Unit 02040104, 0.4 mi north of West Branch Road, at bridge, 250 ft upstream from mouth, at Frost Valley.	2.67	1983-84	11- 2-84 12-15-84 1-23-85 3-29-85 5-14-85 7-16-85 9-27-85 9-28-85	1.20 3.96 *2.70 20.7 2.81 5.56 247 23.8
01434105O5 High Falls Brook	West Branch Neversink River	Lat 41°58'33", long 74°31'19", Ulster County, Hydrologic Unit 02040104, at bridge on West Branch Road, 0.1 mi upstream from mouth, and 1.0 mi southwest of Frost Valley.	2.76	1983-84	12- 5-84 3-29-85 9-27-85 9-28-85	4.98 15.2 58.2 17.3
01438000 Neversink River	Delaware River	Lat 41°21'40", long 74°41'07", Orange County, Hydrologic Unit 02040104, at Tristates Bridge on East Main Street (U.S. Highway 6), in Port Jervis, 450 ft upstream from Clove Brook, and 0.6 mi upstream from mouth.	336	1902-03, 1943, 1945, 1960-62, 1965-84	10-25-84 1-29-85 4-24-85 7- 9-85 8- 2-85 8-19-85 9-12-85	117 143 218 148 265 98.9 278
		Streams tributary to Lake Ontario				
04249080 Salmon River	Lake Ontario	Lat 43°29'20", long 75°39'06", Lewis County, Hydrologic Unit 04140102, at bridge on West Leyden Road, 38.2 mi upstream from mouth, 0.5 mi upstream from Pickens Brook, and 3.6 mi southeast of Osceola.	14.3		12-29-84	p1,770
04250200 Salmon River	Lake Ontario	Lat 43°32'00", long 76°02'20", Oswego County, Hydrologic Unit 04140102, at bridge on Ridge Road, at Pineville, 0.8 mi upstream from Trout Brook, and 11.5 mi upstream from mouth.	241	1953	12-29-84	p24,800
04250830 Black River	Lake Ontario	Lat 43°24'39", long 75°05'47", Oneida County, Hydrologic Unit 04150101, at bridge on Bellingertown Road at Enos, 5.0 mi southwest of North Wilmurt.	72.3	1953	12-29-84	p6,770
04250999 Black River	Lake Ontario	Lat 43°26'28", long 75°12'26", Oneida County, Hydrologic Unit 04150101, at bridge on State Highway 28 and 365 in Forestport, 0.1 mi upstream from outlet of Alder Pond, and 0.4 mi downstream from Woodhull Creek.	250	1946	12-30-84	ap11,000
04253000 Sugar River	Black River	Lat 43°32'17", long 75°22'00", Lewis County, Hydrologic Unit 04150101, at bridge on State Highway 12D, 0.3 mi north of Talcottville.	43.1	1927-31, 1953, 1957-61, 1966-67, 1968‡, 1969	12-29-84	p5,860
04255000 Otter Creek	Black River	Lat 43°43'29", long 75°21'32", Lewis County, Hydrologic Unit 04150101, on left bank, 0.2 mi upstream from dam of Otter Creek Power Corporation, and 2.5 mi east of Glenfield.	64.5	1925-33‡, 1953	12-29-84	p3,820
04255020 Roaring Brook	Black River	Lat 43°44'01", long 75°28'16", Lewis County, Hydrologic Unit 04250101, at bridge on State Highway 12D and 26, at Martinsburg.	21.4	1952	12-29-84	p3,680
04256456 Cranberry Pond Inlet	Cranberry Pond	Lat 43°51'56", long 74°58'23", Herkimer County, Hydrologic Unit 04150101, at site 300 ft west of access logging road to Cranberry Pond, 1.6 mi northwest of Woods Lake, and 4.5 mi northwest of Big Moose.	.39	1984	6-26-85 7-31-85 9- 3-85 9-30-85	*.01 *.002 *.046 .57

* Base flow.
p Peak discharge.
a Approximately.
‡ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1985--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Streams tributary to Lake Ontario--Continued				
04256458 Cranberry Pond Tributary	Cranberry Pond	Lat 43°51'47", long 74°58'40", Herkimer County, Hydrologic Unit 04150101, 50 ft upstream of mouth, along south shore of Cranberry Pond, 0.1 mi east of pond outlet, and 4.5 mi northwest of Big Moose.	.11		6-26-85 7-31-85 9- 3-85 9-30-85	*.017 *.004 *.038 .28
04256470 Woods Lake Tributary 3	Woods Lake	Lat 43°52'32", long 74°56'44", Herkimer County, Hydrologic Unit 04150101, 250 ft upstream from mouth, along north shore of Woods Lake, 0.7 mi from lake outlet, and 4.2 mi northwest of Big Moose.	.06		6-25-85 9-13-85	*.013 *.025
04256475 Woods Lake Tributary 2	Woods Lake	Lat 43°52'32", long 74°56'59", Herkimer County, Hydrologic Unit 04150101, 50 ft upstream from mouth, along northwest shore of Woods Lake, 0.6 mi from lake outlet, and 4.2 mi northwest of Big Moose.	.05		9-13-85	*.012
04256482 Woods Lake Tributary 4	Woods Lake	Lat 43°52'09", long 74°57'04", Herkimer County, Hydrologic Unit 04150101, 400 ft upstream from mouth, along northeast shore of Woods Lake, 0.65 mi from lake outlet, and 4.0 mi northwest of Big Moose.	.19		6-25-85 9-13-85	*.03 *.04
04258022 Black River	Lake Ontario	Lat 43°53'38", long 75°30'18", Lewis County, Hydrologic Unit 04150101, at bridge on State Highway 410, at Castorland.	R1,612	1984	12-31-84	p36,900
		Streams tributary to St. Lawrence River				
04261900 Little River	Oswegatchie River	Lat 44°11'40", long 75°03'53", St. Lawrence County, Hydrologic Unit 04150302, at bridge on State Highway 3, 1.0 mi north of Oswegatchie.	61.0		12-29-84	p2,850
04265598 Little Simon Pond Inlet	Little Simon Pond	Lat 44°09'07", long 74°27'26", Franklin County, Hydrologic Unit 04150305, at culvert on access road from Moody, 1.0 mi southeast of Mount Morris, and 4.8 mi south of Tupper Lake.	.35	1984	8- 1-85 9- 5-85	.037 *.014
0426559830 Little Simon Pond Inlet Tributary	Little Simon Pond	Lat 44°09'01, long 74°27'27", Franklin County, Hydrologic Unit 04150305, at concrete box culvert along dirt road, along west shore of Little Simon Pond, 0.8 mi from pond outlet, and 4.8 mi south of Tupper Lake.	.78		8- 1-85 9- 5-85	.078 *.198
0426559860 Little Simon Pond Tributary 3	Little Simon Pond	Lat 44°08'51", long 74°27'10", Franklin County, Hydrologic Unit 04150305, at foot bridge, 200 ft upstream from mouth, along southeast shore of Little Simon Pond, 0.9 mi from pond outlet, and 5.1 mi south of Tupper Lake.	.26		8- 1-85 9- 5-85	.078 *.010
04265599 Little Simon Pond Tributary 4	Little Simon Pond	Lat 44°09'14", long 74°27'07", Franklin County, Hydrologic Unit 04150305, at concrete box culvert along dirt road, along northwest shore of Little Simon Pond, 0.7 mi from pond outlet, and 4.9 mi southeast of Tupper Lake.	.12		8- 1-85 9- 5-85	.00 *.00
0426559950 Little Simon Pond Tributary 5	Little Simon Pond	Lat 44°09'19", long 74°26'56", Franklin County, Hydrologic Unit 04150305, at concrete box culvert along dirt road, along northwest shore of Little Simon Pond, 0.55 mi from pond outlet, and 4.8 mi southeast of Tupper Lake.	.15		8- 1-85 9- 5-85	.009 *.001

* Base flow.
R Revised.
p Peak discharge.

Discharge measurements made at miscellaneous sites during water year 1985--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Streams tributary to St. Lawrence River--Continued				
04265600 Little Simon Pond Tributary 2	Little Simon Pond	Lat 44°09'05", long 74°26'38", Franklin County, Hydrologic Unit 04150305, at foot bridge, 200 ft upstream from mouth, along east shore of Little Simon Pond, 0.6 mi from pond outlet, and 5.2 mi southeast of Tupper Lake.	.32		8- 1-85 9- 5-85	.070 *.073
0426560440 Little Simon Pond Tributary 1	Little Simon Pond	Lat 44°09'36", long 74°26'04", Franklin County, Hydrologic Unit 04150305, at foot bridge, 400 ft upstream from mouth, along northeast shore of Little Simon Pond, 0.25 mi from pond outlet, and 4.7 mi southeast of Tupper Lake.	.41		8- 1-85 9- 5-85	.093 *.048
04269043 Deer River	St. Regis River	Lat 44°47'56", long 74°40'24", St. Lawrence County, Hydrologic Unit 04150306, on right bank, 0.4 mi upstream from abandoned railroad bridge, 0.5 mi upstream from dam at Kraft Co. plant at North Lawrence, and 1.7 mi downstream from Kingston Brook.	78.0	1973-78‡	12-29-84	p1,500
04269860 Duane Stream	Salmon River	Lat 44°38'35", long 74°12'23", Franklin County, Hydrologic Unit 04150307, at culvert on State Highway 99, 0.1 mi downstream from Debar Brook, and 2.8 mi southeast of Duane Center.	6.28		12-29-84	p370
04270030 Salmon River	St. Lawrence River	Lat 44°50'56", long 74°17'37", Franklin County, Hydrologic Unit 04150307, 0.4 mi downstream from Branch Brook, at bridge on U.S. Highway 11 in Malone.	180		12-29-84	p4,670
04272512 Saranac River	Lake Champlain	Lat 44°19'30", long 74°08'00", Franklin County, Hydrologic Unit 02010006, 300 ft downstream from dam on Lake Flower, at bridge on State Highway 3 and 365, in Saranac Lake.	187	1966, 1975, 1982	12-30-84	p708

* Base flow.
‡ Operated as a continuous-record gaging station.
p Peak discharge.

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. These data are collected usually less than quarterly. Samples collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin are referred to as miscellaneous sites.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
HUDSON RIVER BASIN												
01349542 - ROARING KILL NEAR TANNERSVILLE, NY (LAT 42 09 05 LONG 074 07 57)												
JUN , 1985												
03...	1130	--	32	6.6	11.5	12	8	.1	3.6	.65	.90	.22
AUG												
07...	0930	--	31	6.4	--	11	6	.1	3.4	.62	.80	.19
01349655 - HALSEY BROOK AT EAST JEWETT, NY (LAT 42 14 05 LONG 074 08 12)												
JUN , 1985												
03...	1030	--	31	6.7	12.5	11	6	.1	3.4	.64	1.0	.20
AUG												
07...	0900	--	42	6.3	--	15	4	.1	4.6	.87	1.6	.28
01349749 - WEST KILL BELOW HUNTER BROOK, NEAR SPRUCETON, NY (LAT 42 11 06 LONG 074 16 38)												
AUG , 1985												
07...	1200	--	37	6.4	--	15	8	.2	4.5	.85	.70	.20
01349759 - WEST KILL NEAR SPRUCETON, NY (LAT 42 11 52 LONG 074 20 30)												
JUN , 1985												
03...	1300	--	37	7.3	14.5	15	7	.2	4.5	.81	.90	.25
AUG												
07...	1215	--	40	6.9	--	16	6	.1	5.1	.90	1.0	.27
01349828 - LITTLE WEST KILL NEAR PRATTSVILLE, NY (LAT 42 16 48 LONG 074 26 41)												
JUN , 1985												
03...	1430	--	41	6.9	12.5	16	6	<.1	4.9	.87	1.3	.26
AUG												
07...	1315	--	49	6.7	--	19	4	.1	5.8	1.1	1.9	.51
01349845 - BATAVIA KILL NEAR HENSONVILLE, NY (LAT 42 17 28 LONG 074 09 42)												
JUN , 1985												
03...	0900	--	32	6.5	12.5	12	5	.1	3.5	.75	1.3	.20
AUG												
07...	0815	--	35	6.7	--	13	5	.2	3.8	.84	1.5	.16
01349897 - BATAVIA KILL TRIBUTARY (N SETTLEMENT C) NR ASHLAND, NY (LAT 42 17 57 LONG 074 17 49)												
JUN , 1985												
03...	1600	--	57	7.4	15.5	19	6	.1	5.2	1.4	3.4	.56
AUG												
07...	1415	--	76	6.9	--	25	7	.1	6.8	2.0	4.7	.66
01350000 - SCHOHARIE CREEK AT PRATTSVILLE, NY (LAT 42 19 15 LONG 074 26 10)												
JUN , 1985												
03...	1500	227	65	7.9	18.0	21	6	.1	6.6	1.2	4.3	.46
AUG												
07...	1345	34	90	7.5	--	28	6	.2	8.9	1.5	5.3	.63
01362193 - ESOPUS CREEK TRIBUTARY AT OLIVERA, NY (LAT 42 03 55 LONG 074 27 47)												
JUN , 1985												
26...	1330	--	35	7.0	--	15	6	.1	4.4	1.0	.90	.32
AUG												
15...	1645	--	41	7.4	--	16	6	.1	4.6	1.1	1.0	.14

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
HUDSON RIVER BASIN--Continued												
01349542 - ROARING KILL NEAR TANNERSVILLE, NY (LAT 42 09 05 LONG 074 07 57)												
JUN , 1985												
03...	3.1	7.3	1.2	.18	2.5	21	.44	.004	<.010	30	<3	<1
AUG												
07...	3.0	6.7	.80	.02	2.7	19	.22	<.001	<.010	30	7	1
01349655 - HALSEY BROOK AT EAST JEWETT, NY (LAT 42 14 05 LONG 074 08 12)												
JUN , 1985												
03...	3.8	7.4	.91	.20	3.0	21	.22	.011	.040	20	<3	<1
AUG												
07...	8.8	6.3	1.4	.04	3.3	26	.20	.001	<.010	20	5	<1
01349749 - WEST KILL BELOW HUNTER BROOK, NEAR SPRUCETON, NY (LAT 42 11 06 LONG 074 16 38)												
AUG , 1985												
07...	6.0	7.0	.72	.03	3.1	23	.32	<.001	<.010	10	5	<1
01349759 - WEST KILL NEAR SPRUCETON, NY (LAT 42 11 52 LONG 074 20 30)												
JUN , 1985												
03...	7.0	7.5	1.0	.18	2.9	24	.16	.018	<.010	30	<3	2
AUG												
07...	9.0	6.1	.90	.03	2.8	23	.06	<.001	<.010	30	7	2
01349828 - LITTLE WEST KILL NEAR PRATTSVILLE, NY (LAT 42 16 48 LONG 074 26 41)												
JUN , 1985												
03...	8.8	7.9	.90	.13	3.9	28	.34	.005	<.010	20	12	4
AUG												
07...	14	6.2	1.3	.06	4.6	31	.01	.001	<.010	20	14	2
01349845 - BATAVIA KILL NEAR HENSONVILLE, NY (LAT 42 17 28 LONG 074 09 42)												
JUN , 1985												
03...	5.4	7.1	1.0	.14	2.5	21	.03	<.001	<.010	20	<3	<1
AUG												
07...	7.4	6.0	.99	.04	2.6	21	.02	<.001	<.010	30	12	2
01349897 - BATAVIA KILL TRIBUTARY (N SETTLEMENT C) NR ASHLAND, NY (LAT 42 17 57 LONG 074 17 49)												
JUN , 1985												
03...	11	9.8	3.8	.15	3.6	37	.40	<.001	<.010	20	3	<1
AUG												
07...	16	8.2	5.4	.06	2.5	42	.09	<.001	<.010	30	7	<1
01350000 - SCHOHARIE CREEK AT PRATTSVILLE, NY (LAT 42 19 15 LONG 074 26 10)												
JUN , 1985												
03...	13	8.4	6.8	.14	2.1	40	.14	.019	<.010	20	16	4
AUG												
07...	20	6.8	8.2	.08	1.7	47	.06	<.001	<.010	40	15	7
01362193 - ESOPUS CREEK TRIBUTARY AT OLIVERA, NY (LAT 42 03 55 LONG 074 27 47)												
JUN , 1985												
26...	8.2	6.4	1.0	.05	2.6	23	.23	.039	<.010	10	4	<1
AUG												
15...	8.4	6.2	.94	.04	2.6	24	.19	.056	.010	30	<3	<1

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
HUDSON RIVER BASIN--Continued												
0136219518 - BIRCH CREEK NEAR PINE HILL, NY (LAT 42 09 14 LONG 074 27 30)												
JUN , 1985												
26...	1415	--	38	7.2	--	16	7	.1	4.4	1.1	1.2	.27
AUG												
15...	1815	--	43	7.3	--	17	6	.1	4.7	1.2	1.5	.16
01362210 - ESOPUS CREEK TRIB NO 2 NR SHANDAKEN, NY (LAT 42 07 53 LONG 074 22 29)												
JUN , 1985												
26...	1530	--	39	7.0	--	17	6	.2	5.1	1.1	.90	.26
AUG												
07...	1115	--	48	6.7	--	19	6	.2	5.7	1.2	1.1	.29
01362284 - WOODLAND CREEK NEAR WOODLAND, NY (LAT 42 02 06 LONG 074 22 02)												
JUN , 1985												
26...	1600	--	23	6.7	--	9	7	.1	2.2	.81	.50	.26
AUG												
15...	1730	--	25	6.6	--	9	6	.2	2.2	.80	.50	.26
01362471 - BEAVER KILL NEAR LAKE HILL, NY (LAT 42 04 10 LONG 074 11 44)												
SEP , 1985												
04...	1515	--	52	7.6	--	21	6	.2	6.5	1.1	1.7	.25
01362498 - LITTLE BEAVER KILL NR MOUNT TREMPER, NY (LAT 42 01 08 LONG 074 16 13)												
JUN , 1985												
26...	0845	--	78	7.3	--	33	8	.1	9.6	2.1	3.9	.33
AUG												
15...	0945	--	87	7.8	--	33	7	.1	9.8	2.0	4.3	.37
01362500 - ESOPUS CREEK AT COLDBROOK, NY (LAT 42 00 51 LONG 074 16 16)												
JUN , 1985												
26...	0830	322	68	7.3	--	25	8	.2	7.7	1.4	3.9	.55
AUG												
15...	0900	199	80	7.8	--	27	6	.1	8.4	1.5	4.5	.32
0136336710 - BUSH KILL NEAR WEST SHOKAN, NY (LAT 41 56 08 LONG 074 19 39)												
JUN , 1985												
26...	0915	--	39	7.0	--	16	6	.1	4.1	1.4	1.6	.19
AUG												
15...	1030	--	44	7.3	--	16	5	<.1	4.2	1.3	1.7	.10
01364969 - BEAR HOLE BROOK NEAR SUNDOWN, NY (LAT 41 54 56 LONG 074 26 02)												
JUN , 1985												
25...	1030	--	26	6.4	--	10	7	.2	2.7	.90	.60	.32
AUG												
15...	1330	--	28	6.4	--	10	7	<.1	2.5	.88	.60	.31
01364970 - RONDOUT CREEK NEAR SUNDOWN, NY (LAT 41 54 28 LONG 074 26 10)												
AUG , 1985												
15...	1400	--	29	6.6	--	10	7	<.1	2.6	.78	.80	.28
01364979 - SUNDOWN CREEK TRIBUTARY AT SUNDOWN, NY (LAT 41 53 10 LONG 074 26 05)												
JUN , 1985												
26...	1045	--	28	6.4	--	10	7	.1	2.7	.76	1.2	.42
AUG												
15...	1445	--	30	6.2	--	9	6	.1	2.6	.68	1.0	.37

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
HUDSON RIVER BASIN--Continued												
0136219518 - BIRCH CREEK NEAR PINE HILL, NY (LAT 42 09 14 LONG 074 27 30)												
JUN , 1985												
26...	8.2	6.0	1.7	.04	3.6	25	.17	.033	<.010	10	4	<1
AUG												
15...	8.4	5.6	2.1	.05	3.5	26	.16	<.001	<.010	20	<3	<1
01362210 - ESOPUS CREEK TRIB NO 2 NR SHANDAKEN, NY (LAT 42 07 53 LONG 074 22 29)												
JUN , 1985												
26...	3.6	7.0	.77	.04	3.3	26	.24	<.001	<.010	<10	<3	<1
AUG												
07...	12	6.7	.79	.03	3.5	29	.39	<.001	<.010	20	7	<1
01362284 - WOODLAND CREEK NEAR WOODLAND, NY (LAT 42 02 06 LONG 074 22 02)												
JUN , 1985												
26...	2.0	6.0	.69	.03	2.3	15	.26	.016	--	20	22	<1
AUG												
15...	1.6	5.3	.59	.03	2.1	15	.23	<.001	<.010	10	<3	<1
01362471 - BEAVER KILL NEAR LAKE HILL, NY (LAT 42 04 10 LONG 074 11 44)												
SEP , 1985												
04...	14	7.2	.92	.23	3.6	31	.15	<.001	<.010	30	4	<1
01362498 - LITTLE BEAVER KILL NR MOUNT TREMPER, NY (LAT 42 01 08 LONG 074 16 13)												
JUN , 1985												
26...	25	7.4	1.8	.08	2.2	43	.08	.014	<.010	10	48	2
AUG												
15...	24	5.1	5.0	.08	2.9	46	.08	.037	<.010	30	50	2
01362500 - ESOPUS CREEK AT COLDBROOK, NY (LAT 42 00 51 LONG 074 16 16)												
JUN , 1985												
26...	17	7.3	5.7	.06	1.8	40	.23	.017	<.010	20	16	14
AUG												
15...	19	7.2	6.3	.05	1.9	43	.10	.013	<.010	30	13	12
0136336710 - BUSH KILL NEAR WEST SHOKAN, NY (LAT 41 56 08 LONG 074 19 39)												
JUN , 1985												
26...	10	6.0	2.2	.10	4.8	27	.20	<.001	<.010	10	5	<1
AUG												
15...	9.4	5.5	2.1	.04	4.4	27	.20	<.001	<.010	30	<3	<1
01364969 - BEAR HOLE BROOK NEAR SUNDOWN, NY (LAT 41 54 56 LONG 074 26 02)												
JUN , 1985												
25...	2.0	7.5	.75	.05	2.8	19	.29	.015	<.010	30	5	<1
AUG												
15...	1.2	5.9	.88	.12	2.6	17	.21	.168	<.010	20	<3	<1
01364970 - RONDOUT CREEK NEAR SUNDOWN, NY (LAT 41 54 28 LONG 074 26 10)												
AUG , 1985												
15...	1.4	5.8	1.2	.06	2.4	17	.21	<.001	.020	50	<3	1
01364979 - SUNDOWN CREEK TRIBUTARY AT SUNDOWN, NY (LAT 41 53 10 LONG 074 26 05)												
JUN , 1985												
26...	1.6	7.0	2.8	.04	3.0	21	.21	.009	<.010	50	7	3
AUG												
15...	1.2	6.4	1.1	.04	2.9	18	.16	<.001	<.010	70	<3	4

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
					HUDSON RIVER BASIN--Continued							
					01365000 - RONDOUT CREEK NEAR LOWES CORNERS, NY (LAT 41 52 00 LONG 074 29 12)							
JUN , 1985												
26...	1100	23	36	6.6	--	12	8	.2	3.3	.91	2.0	.47
AUG												
15...	1515	45	34	7.1	--	11	6	<.1	3.1	.84	1.7	.44
					01365240 - CHESTNUT CREEK TRIBUTARY AT CURRY, NY (LAT 41 51 30 LONG 074 34 51)							
JUN , 1985												
26...	1130	--	91	7.0	--	24	18	<.1	6.5	1.8	8.7	.73
AUG												
15...	1545	--	98	7.0	--	22	16	.1	6.0	1.7	9.0	.74
					DELAWARE RIVER BASIN							
					01413085 - E BR DELAWARE TRIBUTARY (MONTGOMERY HOLLOW) NR ROXBURY, NY (LAT 42 17 59 LONG 074 33 00)							
JUN , 1985												
13...	1545	--	53	7.3	--	19	7	.1	6.1	1.0	2.0	.41
AUG												
21...	1545	--	63	7.4	--	20	6	.1	6.3	1.0	2.9	.50
					01413093 - E BR DELAWARE TRIB NO 2 (MEEKER HOLLOW) NR ROXBURY, NY (LAT 42 15 37 LONG 074 36 43)							
JUN , 1985												
13...	1415	--	50	7.3	--	20	5	.2	6.2	1.2	1.6	.45
AUG												
21...	1445	--	67	7.6	--	--	--	<.1	--	--	--	.73
					01413097 - BATAVIA KILL AT VEGA, NY (LAT 42 15 32 LONG 074 31 22)							
JUN , 1985												
13...	1500	--	43	7.1	--	17	6	.2	5.2	.99	1.2	.32
AUG												
21...	1500	--	52	7.2	--	19	3	.1	5.9	1.1	1.7	.49
					01413265 - DRY BROOK NEAR SEAGER, NY (LAT 42 03 31 LONG 074 32 25)							
AUG , 1985												
28...	1030	--	45	7.3	--	18	7	.1	6.0	.84	.60	.22
					01413270 - DRY BROOK AT MAPLEDALE NEAR ARKVILLE, NY (LAT 42 06 27 LONG 074 33 41)							
JUN , 1985												
12...	1315	--	42	6.9	--	17	7	.1	5.3	1.0	1.1	.33
AUG												
28...	1015	--	50	7.6	--	19	6	<.1	5.8	1.1	1.5	.33
					01413308 - ELK CREEK NEAR HALCOTT CENTER, NY (LAT 42 11 04 LONG 074 27 42)							
JUN , 1985												
12...	1200	--	36	6.6	--	15	6	<.1	4.3	1.1	.90	.26
AUG												
28...	0930	--	43	6.8	--	16	4	<.1	4.7	1.1	1.1	.40
					01413500 - EAST BR DELAWARE R AT MARGARETVILLE, NY (LAT 42 08 41 LONG 074 39 14)							
JUN , 1985												
12...	1530	131	70	7.1	--	25	8	.2	7.5	1.5	3.6	.52
AUG												
28...	1200	23	89	7.4	--	29	8	.1	9.0	1.7	4.2	.85

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
HUDSON RIVER BASIN--Continued												
01365000 - RONDOUT CREEK NEAR LOWES CORNERS, NY (LAT 41 52 00 LONG 074 29 12)												
JUN , 1985												
26...	3.6	7.3	3.6	.05	2.6	23	.18	<.001	<.010	20	6	1
AUG												
15...	3.2	7.4	4.5	.05	2.6	24	.08	<.001	<.010	20	7	<1
01365240 - CHESTNUT CREEK TRIBUTARY AT CURRY, NY (LAT 41 51 30 LONG 074 34 51)												
JUN , 1985												
26...	5.8	8.2	20	.10	3.7	53	--	.015	<.010	20	11	1
AUG												
15...	4.6	5.9	17	.13	3.8	48	.08	<.001	<.010	40	18	2
DELAWARE RIVER BASIN--Continued												
01413085 - E BR DELAWARE TRIB (MONTGOMERY HOLLOW) NR ROXBURY, NY (LAT 42 17 59 LONG 074 33 00)												
JUN , 1985												
13...	10	8.5	2.8	.22	4.8	35	.33	.005	<.010	<10	7	1
AUG												
21...	12	7.7	4.0	.08	5.1	38	.41	.004	<.010	<10	<3	<1
01413093 - E BR DELAWARE TRIB NO 2 (MEEKER HOLLOW) NR ROXBURY, NY (LAT 42 15 37 LONG 074 36 43)												
JUN , 1985												
13...	14	7.3	1.2	.22	3.5	32	.19	.005	<.010	<10	110	12
AUG												
21...	21	5.9	1.9	.08	--	--	.13	.002	<.010	--	--	--
01413097 - BATAVIA KILL AT VEGA, NY (LAT 42 15 32 LONG 074 31 22)												
JUN , 1985												
13...	10	7.3	.97	.27	3.7	28	.23	.021	<.010	<10	37	29
AUG												
21...	15	6.0	1.7	.11	3.8	31	.07	<.001	<.010	<10	24	15
01413265 - DRY BROOK NEAR SEAGER, NY (LAT 42 03 31 LONG 074 32 25)												
AUG , 1985												
28...	9.5	8.2	.82	.11	2.2	28	.55	.038	<.010	<10	<3	<1
01413270 - DRY BROOK AT MAPLEDALE NEAR ARKVILLE, NY (LAT 42 06 27 LONG 074 33 41)												
JUN , 1985												
12...	8.8	6.5	1.9	.04	2.2	28	.71	.017	<.010	10	4	2
AUG												
28...	10	7.6	1.8	.03	2.2	30	.32	<.001	<.010	30	4	<1
01413308 - ELK CREEK NEAR HALCOTT CENTER, NY (LAT 42 11 04 LONG 074 27 42)												
JUN , 1985												
12...	8.7	6.0	.71	.03	3.4	23	.18	.033	<.010	<10	5	4
AUG												
28...	10	7.2	.87	.06	4.0	27	.02	<.001	.010	40	8	4
01413500 - EAST BR DELAWARE R AT MARGARETVILLE, NY (LAT 42 08 41 LONG 074 39 14)												
JUN , 1985												
12...	16	7.6	5.6	.37	2.7	41	.24	.024	<.010	<10	70	17
AUG												
28...	19	8.9	9.4	.08	2.3	50	.17	.007	<.010	40	57	12

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
DELAWARE RIVER BASIN--Continued												
01413920 - PLATTE KILL TRIB (WINTER HOLLOW) AT NEW KINGSTON, NY (LAT 42 12 53 LONG 074 40 53)												
JUN , 1985												
12...	1630	--	91	7.4	--	32	11	.1	8.9	2.3	4.1	2.1
AUG												
21...	1415	--	107	7.8	--	38	7	<.1	11	2.6	4.8	1.5
01414285 - MILL BROOK NEAR BELLE AYR, NY (LAT 42 03 56 LONG 074 35 18)												
AUG , 1985												
28...	1100	--	52	7.3	--	22	8	<.1	7.3	.92	.40	.28
01414290 - MILL BROOK TRIBUTARY NEAR ARENA, NY (LAT 42 04 43 LONG 074 37 31)												
JUN , 1985												
12...	1430	--	53	6.8	--	23	10	.1	7.2	1.2	.60	.38
AUG												
28...	1115	--	61	7.6	--	26	8	.1	8.1	1.3	.70	.42
01421613 - TOWN BROOK TRIBUTARY NEAR HOBART, NY (LAT 42 21 32 LONG 074 36 02)												
JUN , 1985												
13...	1245	--	75	7.4	--	24	6	--	7.4	1.3	3.7	2.1
AUG												
21...	0945	--	680	7.8	--	43	42	.5	13	2.5	29	60
01421624 - LAKE BROOK TRIBUTARY NEAR HOBART, NY (LAT 42 23 22 LONG 074 41 11)												
JUN , 1985												
13...	1115	--	82	7.7	--	33	4	.1	9.9	2.0	2.8	.76
AUG												
21...	0915	--	115	7.8	--	46	5	<.1	14	2.7	3.1	1.3
01421655 - ROSE BROOK NEAR SOUTH KORTRIGHT, NY (LAT 42 19 00 LONG 074 38 46)												
JUN , 1985												
13...	1330	--	57	7.1	--	22	7	.1	6.8	1.1	2.5	.37
AUG												
21...	1015	--	74	7.5	--	26	5	.1	8.2	1.3	3.2	.51
01421856 - WRIGHT BROOK TRIBUTARY NEAR BLOOMVILLE, NY (LAT 42 20 50 LONG 074 48 30)												
JUN , 1985												
13...	1030	--	109	7.8	--	29	7	.2	9.1	1.6	9.5	1.3
01422290 - MOUNTAIN BROOK NEAR BOVINA CENTER, NY (LAT 42 15 53 LONG 074 43 31)												
JUN , 1985												
12...	1700	--	58	7.8	--	25	7	.1	6.9	1.8	1.6	.49
AUG												
21...	1345	--	78	7.7	--	30	4	<.1	8.4	2.1	2.2	.79
01422488 - LITTLE DELAWARE TRIBUTARY (GLEN BURNIE) NR DELHI, NY (LAT 42 15 49 LONG 074 51 35)												
JUN , 1985												
12...	--	--	63	7.4	--	22	8	.1	5.5	1.9	2.0	.40
AUG												
21...	1315	--	64	7.4	--	24	7	.2	6.2	2.1	2.5	.51
01422702 - MALLORY BROOK NEAR HAMDEN, NY (LAT 42 09 50 LONG 075 00 19)												
JUN , 1985												
13...	0930	--	61	7.4	--	25	6	.1	6.9	2.0	1.6	.73
AUG												
21...	1230	--	75	7.7	--	31	4	.1	8.3	2.4	2.2	.83

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
DELAWARE RIVER BASIN--Continued												
01413920 - PLATTE KILL TRIB (WINTER HOLLOW) AT NEW KINGSTON, NY (LAT 42 12 53 LONG 074 40 53)												
JUN , 1985												
12...	22	7.2	8.6	.07	2.9	52	.64	.067	.020	<10	110	16
AUG												
21...	29	6.0	9.2	<.10	1.9	56	--	.020	.030	10	23	5
01414285 - MILL BROOK NEAR BELLE AYR, NY (LAT 42 03 56 LONG 074 35 18)												
AUG , 1985												
28...	11	10	.72	.05	2.3	36	1.2	.018	<.010	30	3	<1
01414290 - MILL BROOK TRIBUTARY NEAR ARENA, NY (LAT 42 04 43 LONG 074 37 31)												
JUN , 1985												
12...	13	8.6	.81	.03	2.6	33	.80	.013	<.010	<10	7	1
AUG												
28...	15	8.8	.99	.05	3.0	37	.72	.014	<.010	30	<3	<1
01421613 - TOWN BROOK TRIBUTARY NEAR HOBART, NY (LAT 42 21 32 LONG 074 36 02)												
JUN , 1985												
13...	22	7.1	5.4	.26	3.5	44	.17	.931	<.010	<10	130	20
AUG												
21...	203	9.1	59	<.10	4.3	230	--	35.0	3.60	30	33	56
01421624 - LAKE BROOK TRIBUTARY NEAR HOBART, NY (LAT 42 23 22 LONG 074 41 11)												
JUN , 1985												
13...	29	7.0	3.4	.06	2.4	47	.24	.004	<.010	<10	97	8
AUG												
21...	41	7.2	5.7	<.10	1.2	60	--	.008	.030	<10	18	2
01421655 - ROSE BROOK NEAR SOUTH KORTRIGHT, NY (LAT 42 19 00 LONG 074 38 46)												
JUN , 1985												
13...	14	7.7	3.0	.37	4.1	37	.44	.005	<.010	<10	48	24
AUG												
21...	19	6.8	3.2	.10	4.5	42	.39	.023	<.010	<10	54	30
01421856 - WRIGHT BROOK TRIBUTARY NEAR BLOOMVILLE, NY (LAT 42 20 50 LONG 074 48 30)												
JUN , 1985												
13...	22	8.2	14	<.10	3.0	60	--	.034	.050	<10	14	4
01422290 - MOUNTAIN BROOK NEAR BOVINA CENTER, NY (LAT 42 15 53 LONG 074 43 31)												
JUN , 1985												
12...	19	6.5	1.3	.06	3.7	37	.78	.013	<.010	20	48	6
AUG												
21...	24	7.7	1.8	.09	3.9	44	.35	.048	<.010	20	19	1
01422488 - LITTLE DELAWARE TRIBUTARY (GLEN BURNIE) NR DELHI, NY (LAT 42 15 49 LONG 074 51 35)												
JUN , 1985												
12...	14	6.9	1.7	.05	4.6	37	1.2	.019	<.010	<10	6	<1
AUG												
21...	15	7.1	2.4	.20	5.5	39	.57	<.001	<.010	20	<3	<1
01422702 - MALLORY BROOK NEAR HAMDEN, NY (LAT 42 09 50 LONG 075 00 19)												
JUN , 1985												
13...	24	7.5	.96	.06	3.7	37	.23	.005	.030	<10	29	11
AUG												
21...	25	6.9	3.3	.22	4.3	46	.07	.219	.270	30	19	14

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
DELAWARE RIVER BASIN--Continued												
01422737 - EAST BROOK NEAR TREADWELL, NY (LAT 42 16 15 LONG 075 03 02)												
JUN , 1985 13...	0730	--	49	6.9	--	20	5	<.1	5.1	1.7	1.7	.47
AUG 21...	1130	--	65	7.4	--	25	0	.1	6.7	2.1	2.1	.83
01423000 - WEST BRANCH DELAWARE RIVER AT WALTON, NY (LAT 42 09 58 LONG 075 08 26)												
JUN , 1985 13...	0845	198	100	7.2	--	35	11	.1	9.8	2.6	5.2	1.1
AUG 21...	1200	38	119	7.9	--	39	9	.1	11	2.7	6.4	1.1
0143400350 - E BR NEVERSINK R AB DEER SHANTY BR NR DENNING, NY (LAT 41 58 35 LONG 074 25 39)												
SEP , 1985 04...	0915	--	24	5.0	--	6	5	.2	1.4	.60	.40	.16
0143400505 - DEER SHANTY BROOK AT MOUTH, NEAR DENNING, NY (LAT 41 58 35 LONG 074 25 39)												
SEP , 1985 04...	1000	--	24	5.2	--	7	5	.2	1.7	.67	.40	.21
0143400620 - E BR NEVERSINK R BL DEER SHANTY BR NR DENNING, NY (LAT 41 58 18 LONG 074 26 20)												
SEP , 1985 04...	1130	--	24	4.9	--	6	5	.2	1.4	.60	.40	.17
0143400650 - E BR NEVERSINK R TRIBUTARY NEAR DENNING, NY (LAT 41 58 16 LONG 074 26 38)												
SEP , 1985 04...	1145	--	35	4.4	--	5	--	.4	1.2	.58	.40	.08
01434008 - E BR NEVERSINK R BL TRAY MILL BR NR DENNING, NY (LAT 41 57 48 LONG 074 27 19)												
SEP , 1985 04...	1140	--	23	5.0	--	6	5	.2	1.4	.63	.40	.17
01434009 - FLAT BROOK AT MOUTH, NEAR DENNING, NY (LAT 41 57 50 LONG 074 27 35)												
SEP , 1985 04...	1130	--	25	6.1	--	9	6	.1	2.3	.84	.50	.26
0143401110 - E BR NEVERSINK R TRIBUTARY NO 2 AT DENNING, NY (LAT 41 57 32 LONG 074 28 26)												
SEP , 1985 04...	1220	--	26	5.0	--	8	7	.2	1.8	.73	.40	.07
014340145 - E BR NEVERSINK R TRIB NO 3 AT LADLETON, NY (LAT 41 56 28 LONG 074 31 12)												
SEP , 1985 04...	1245	--	25	5.2	--	8	7	<.1	1.9	.69	.50	.17
014340150 - EAST BRANCH NEVERSINK RIVER AT LADLETON, NY (LAT 41 56 06 LONG 074 31 48)												
SEP , 1985 04...	1300	--	24	6.0	--	8	6	.2	1.9	.69	.70	.25

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	NITROGEN, NITRATE DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	ALUMINUM, DIS-SOLVED (UG/L AS AL)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)
DELAWARE RIVER BASIN--Continued												
01422737 - EAST BROOK NEAR TREADWELL, NY (LAT 42 16 15 LONG 075 03 02)												
JUN , 1985 13...	15	5.9	1.3	.06	3.3	32	.71	.022	<.010	20	160	61
AUG 21...	23	3.9	1.4	.14	3.4	36	.07	.003	<.010	20	180	89
01423000 - WEST BRANCH DELAWARE RIVER AT WALTON, NY (LAT 42 09 58 LONG 075 08 26)												
JUN , 1985 13...	25	8.9	7.1	.09	2.0	55	.81	.031	<.010	<10	34	6
AUG 21...	30	10	8.6	<.10	3.0	61	--	.050	.060	20	60	20
0143400350 - E BR NEVERSINK R AB DEER SHANTY BR NR DENNING, NY (LAT 41 58 35 LONG 074 25 39)												
SEP , 1985 04...	-.40	5.8	.68	.11	2.2	13	.16	<.001	<.010	190	6	49
0143400505 - DEER SHANTY BROOK AT MOUTH, NEAR DENNING, NY (LAT 41 58 35 LONG 074 25 39)												
SEP , 1985 04...	.20	7.4	.72	.04	2.2	16	.18	<.001	<.010	120	33	47
0143400620 - E BR NEVERSINK R BL DEER SHANTY BR NR DENNING, NY (LAT 41 58 18 LONG 074 26 20)												
SEP , 1985 04...	-.40	5.5	.58	.02	2.1	12	.13	<.001	<.010	160	12	49
0143400650 - E BR NEVERSINK R TRIBUTARY NEAR DENNING, NY (LAT 41 58 16 LONG 074 26 38)												
SEP , 1985 04...	-.20	7.6	.65	.04	2.4	--	.03	<.001	.010	320	13	66
01434008 - E BR NEVERSINK R BL TRAY MILL BR NR DENNING, NY (LAT 41 57 48 LONG 074 27 19)												
SEP , 1985 04...	-.40	7.6	.53	.04	2.2	14	.11	<.001	<.010	190	9	46
01434009 - FLAT BROOK AT MOUTH, NEAR DENNING, NY (LAT 41 57 50 LONG 074 27 35)												
SEP , 1985 04...	1.8	6.0	.77	.04	2.8	16	.19	.023	<.010	40	10	5
0143401110 - E BR NEVERSINK R TRIBUTARY NO 2 AT DENNING, NY (LAT 41 57 32 LONG 074 28 26)												
SEP , 1985 04...	-.40	8.7	.84	.09	2.6	16	.03	<.001	<.010	100	6	57
014340145 - E BR NEVERSINK R TRIB NO 3 AT LADLETON, NY (LAT 41 56 28 LONG 074 31 12)												
SEP , 1985 04...	-.40	8.6	.80	.05	2.7	16	.04	.017	<.010	120	14	24
014340150 - EAST BRANCH NEVERSINK RIVER AT LADLETON, NY (LAT 41 56 06 LONG 074 31 48)												
SEP , 1985 04...	6.0	7.5	.88	.04	2.4	16	.12	.020	<.010	70	4	14

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUC-TANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
DELAWARE RIVER BASIN--Continued												
01434020 - EAST BRANCH NEVERSINK AT CLARYVILLE, NY (LAT 41 55 06 LONG 074 34 23)												
SEP , 1985 04...	1400	--	30	6.3	--	8	5	.2	2.1	.76	1.5	.31
01434021 - W BR NEVERSINK R AT WINNISOOK L AT FROST VALLEY, NY (LAT 42 00 40 LONG 074 24 50)												
SEP , 1985 03...	1315	--	26	4.7	--	6	5	.3	1.3	.59	.30	.13
0143402130 - W BR NEVERSINK R NR WINNISOOK L NR FROST VALLEY, NY (LAT 42 00 06 LONG 074 26 18)												
SEP , 1985 03...	1345	--	29	6.3	--	9	6	.1	2.4	.62	1.3	.17
0143402190 - W BR NEVERSINK R TRIBUTARY NEAR FROST VALLEY, NY (LAT 41 59 58 LONG 074 27 28)												
SEP , 1985 03...	1400	--	24	6.0	--	8	6	.2	2.2	.72	.40	.14
0143402270 - WEST BRANCH NEVERSINK RIVER NR FROST VALLEY, NY (LAT 41 58 45 LONG 074 29 10)												
SEP , 1985 03...	1415	--	28	6.6	--	9	6	.2	2.2	.73	1.2	.22
01434106 - W BR NEVERSINK R BL HIGH FALLS BR NR FROST VALLEY, NY (LAT 41 58 27 LONG 074 31 32)												
SEP , 1985 03...	1515	--	34	6.8	--	12	6	.2	3.6	.68	1.0	.27
01434200 - FALL BROOK NEAR CLARYVILLE, NY (LAT 41 56 21 LONG 074 34 06)												
SEP , 1985 03...	1530	--	37	7.2	--	15	7	.2	4.9	.70	.40	.26
01434220 - W BR NEVERSINK R TRIBUTARY NO 2 NEAR CLARYVILLE, NY (LAT 41 56 10 LONG 074 34 22)												
SEP , 1985 03...	1545	--	51	7.4	--	20	5	.3	6.2	1.2	1.2	.43
01434498 - WEST BRANCH NEVERSINK R AT CLARYVILLE, NY (LAT 41 55 14 LONG 074 33 51)												
SEP , 1985 04...	1600	--	35	7.2	--	13	7	.2	3.7	.80	1.1	.32
01435000 - NEVERSINK RIVER NEAR CLARYVILLE, NY (LAT 41 53 24 LONG 074 35 25)												
SEP , 1985 03...	1615	72	33	6.9	--	11	7	.1	3.0	.74	1.3	.33

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
DELAWARE RIVER BASIN--Continued												
01434020 - EAST BRANCH NEVERSINK AT CLARYVILLE, NY (LAT 41 55 06 LONG 074 34 23)												
SEP , 1985 04...	1.0	5.8	2.1	.12	2.5	18	.14	<.001	<.010	20	6	5
01434021 - W BR NEVERSINK R AT WINNISOOK L AT FROST VALLEY, NY (LAT 42 00 40 LONG 074 24 50)												
SEP , 1985 03...	-.10	5.7	.54	.06	2.2	13	.19	<.001	<.010	250	9	49
0143402130 - W BR NEVERSINK R NR WINNISOOK L NR FROST VALLEY, NY (LAT 42 00 06 LONG 074 26 18)												
SEP , 1985 03...	1.6	7.0	1.8	.04	2.1	18	.14	.009	<.010	40	3	4
0143402190 - W BR NEVERSINK R TRIBUTARY NEAR FROST VALLEY, NY (LAT 41 59 58 LONG 074 27 28)												
SEP , 1985 03...	3.0	6.7	.65	.06	2.1	15	.20	<.001	<.010	50	4	2
0143402270 - WEST BRANCH NEVERSINK RIVER NR FROST VALLEY, NY (LAT 41 58 45 LONG 074 29 10)												
SEP , 1985 03...	1.2	7.2	1.9	.05	2.1	18	.12	.015	<.010	30	<3	3
01434106 - W BR NEVERSINK R BL HIGH FALLS BR NR FROST VALLEY, NY (LAT 41 58 27 LONG 074 31 32)												
SEP , 1985 03...	4.0	5.9	1.1	.05	2.2	19	.19	<.001	<.010	30	13	6
01434200 - FALL BROOK NEAR CLARYVILLE, NY (LAT 41 56 21 LONG 074 34 06)												
SEP , 1985 03...	6.2	7.3	.64	.04	2.5	23	.28	.034	<.010	20	<3	<1
01434220 - W BR NEVERSINK R TRIBUTARY NO 2 NEAR CLARYVILLE, NY (LAT 41 56 10 LONG 074 34 22)												
SEP , 1985 03...	13	7.3	1.0	.07	3.4	31	.33	.007	<.010	20	6	1
01434498 - WEST BRANCH NEVERSINK R AT CLARYVILLE, NY (LAT 41 55 14 LONG 074 33 51)												
SEP , 1985 04...	4.9	6.7	1.4	.05	2.2	21	.17	.008	<.010	30	10	2
01435000 - NEVERSINK RIVER NEAR CLARYVILLE, NY (LAT 41 53 24 LONG 074 35 25)												
SEP , 1985 03...	2.8	6.8	2.0	.04	2.3	20	.16	.016	<.010	20	4	3

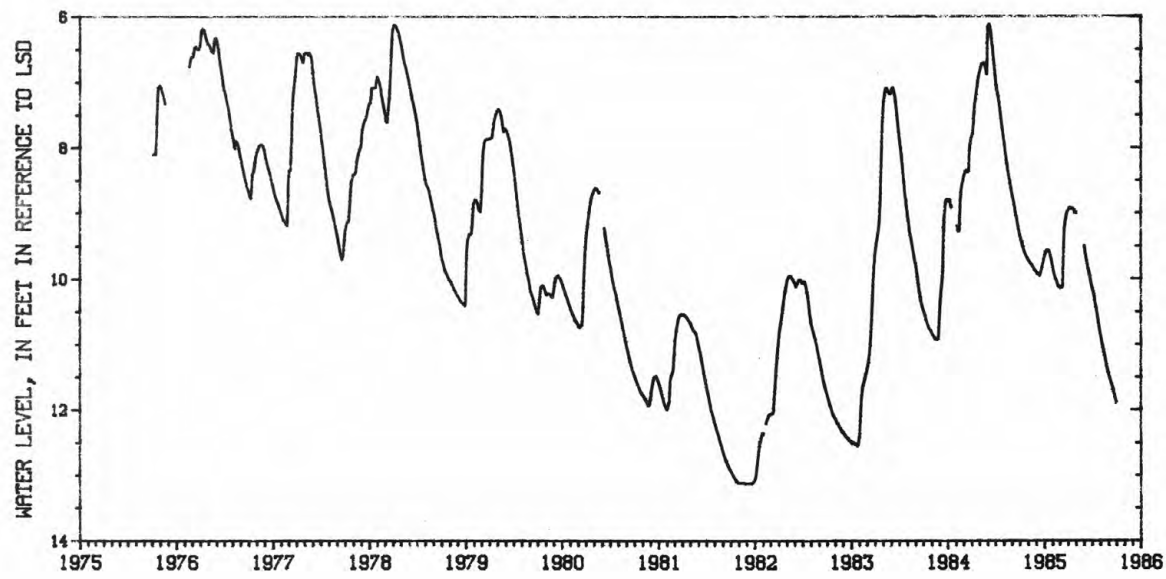
ALBANY COUNTY

424114073495402. Local number, A 636.
LOCATION.--Lat 42°41'14", long 73°49'54", Hydrologic Unit 02020006, Fuller Road, Albany.
Owner: State University of New York at Albany.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 24 ft, cased to 22 ft, 2-in. jet point (60-gauze screen 22 ft to 24 ft). Well gravel packed from original depth of 26 ft.
INSTRUMENTATION.--Water-stage recorder--30-minute punch.
DATUM.--Elevation of land-surface datum is 260 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.40 ft above land-surface datum.
REMARKS.--Well was drilled May 1974 as a replacement for 424114073495401 (local number A 635), located 35 ft north, which has a period of record from November 1965 to May 1974 (unpublished).
PERIOD OF RECORD.--May 1974 to current year. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.12 ft below land-surface datum, Apr. 12, 13, 1978, June 5, 6-7, 8, 1984; lowest, 13.13 ft below land-surface datum, Oct. 29, Nov. 25, 26-Dec. 17, 18, 20, 21-22, 23, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.36	9.72	9.89	9.67	9.82	10.13	8.96	9.01	9.52	10.15	10.86	11.47
2	9.37	9.72	9.90	9.65	9.84	10.13	8.95	---	9.54	10.17	10.88	11.48
3	9.38	9.73	9.91	9.64	9.86	10.13	8.94	---	9.57	10.19	10.90	11.50
4	9.39	9.74	9.92	9.63	9.88	10.14	8.93	---	9.59	10.20	10.92	11.51
5	9.41	9.74	9.93	9.60	9.90	10.13	8.93	---	9.62	10.22	10.95	11.53
6	9.43	9.74	9.92	9.60	9.91	10.13	8.92	---	9.65	10.24	10.97	11.54
7	9.45	9.75	9.91	9.59	9.93	10.14	8.92	---	9.67	10.26	10.99	11.55
8	9.46	9.77	9.92	9.57	9.94	10.13	8.92	---	9.69	10.28	11.01	11.57
9	9.48	9.77	9.93	9.58	9.96	10.12	8.92	---	9.71	10.30	11.03	11.58
10	9.49	9.77	9.94	9.58	9.98	10.12	8.92	---	9.73	10.33	11.05	11.59
11	9.51	9.77	9.94	9.58	10.00	10.11	8.92	---	9.76	10.35	11.07	11.60
12	9.52	9.78	9.95	9.57	10.01	10.03	8.93	---	9.78	10.37	11.09	11.61
13	9.53	9.78	9.95	9.57	10.01	9.86	8.93	---	9.80	10.40	11.11	11.63
14	9.54	9.79	9.96	9.56	10.01	9.68	8.94	---	9.82	10.42	11.13	11.64
15	9.55	9.80	9.96	9.56	10.03	9.53	8.93	---	9.84	10.44	11.15	11.66
16	9.56	9.80	9.95	9.57	10.04	9.43	8.93	---	9.86	10.46	11.17	11.67
17	9.58	9.81	9.93	9.58	10.05	9.31	8.93	---	9.88	10.49	11.19	11.69
18	9.59	9.82	9.91	9.58	10.07	9.24	8.94	---	9.90	10.51	11.21	11.70
19	9.60	9.82	9.90	9.58	10.08	9.20	8.94	---	9.92	10.54	11.23	11.72
20	9.61	9.83	9.88	9.59	10.09	9.16	8.94	---	9.94	10.56	11.25	11.73
21	9.62	9.84	9.87	9.60	10.10	9.13	8.95	---	9.96	10.59	11.27	11.75
22	9.63	9.85	9.84	9.61	10.11	9.11	8.95	---	9.98	10.62	11.29	11.77
23	9.64	9.86	9.83	9.63	10.12	9.08	8.96	---	10.00	10.65	11.31	11.78
24	9.65	9.86	9.81	9.65	10.12	9.05	8.97	---	10.02	10.68	11.34	11.80
25	9.67	9.86	9.79	9.66	10.12	9.03	8.97	---	10.05	10.71	11.36	11.82
26	9.67	9.87	9.78	9.68	10.13	9.02	8.97	---	10.07	10.73	11.37	11.84
27	9.68	9.88	9.77	9.70	10.13	9.00	8.98	---	10.09	10.76	11.38	11.85
28	9.68	9.89	9.74	9.72	10.13	8.99	8.99	---	10.11	10.78	11.40	11.86
29	9.69	9.88	9.71	9.75	---	8.97	9.00	---	10.12	10.80	11.42	11.88
30	9.70	9.89	9.69	9.77	---	8.97	9.01	---	10.14	10.83	11.44	11.89
31	9.71	---	9.68	9.80	---	8.97	---	9.50	---	10.85	11.45	---

WTR YEAR 1985 HIGHEST 8.92 Apr. 5, 6-11, 12, 1985 LOWEST 11.90 Sept. 30, 1985



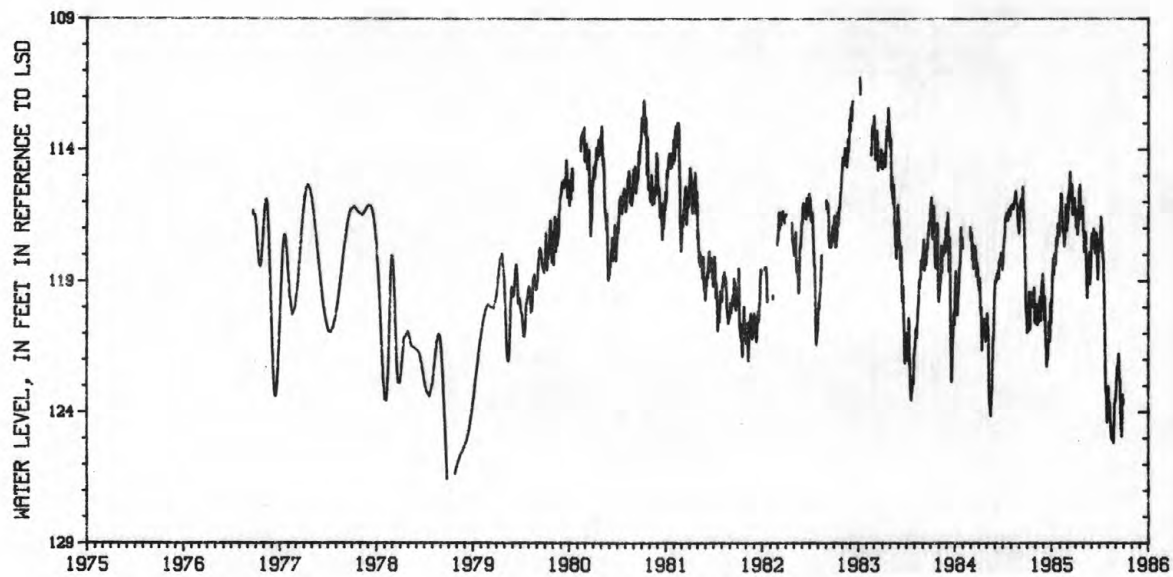
ALBANY COUNTY

424044073535101. Local number, A 637.
LOCATION.--Lat 42°40'44", long 73°53'51", Hydrologic Unit 02020006, Dr. Shaw Road, Guilderland.
Owner: Mill Hill Missionaries.
AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 198 ft, cased to 193 ft, 30-slot plastic screen 193 ft to 198 ft.
INSTRUMENTATION.--Water-stage recorder--30-minute punch.
DATUM.--Elevation of land-surface datum is 220 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.50 ft above land-surface datum.
REMARKS.--Water level affected by pumping from distant municipal well field.
PERIOD OF RECORD.--September 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 111.11 ft below land-surface datum, Jan. 7, 1983; lowest measured, 126.55 ft below land-surface datum, Sept. 27, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120.96	120.57	119.12	119.90	116.65	116.60	116.41	117.10	117.42	117.86	123.96	123.55
2	120.66	120.13	119.93	119.66	116.40	116.61	116.51	117.07	117.30	117.41	123.88	123.13
3	119.97	120.60	120.13	119.78	116.44	116.79	116.92	117.47	117.19	117.57	123.49	123.17
4	119.89	120.11	120.09	119.03	116.36	116.50	116.96	117.88	117.56	117.43	123.03	122.68
5	120.60	119.92	120.47	118.67	116.24	115.74	116.66	117.65	117.41	117.40	123.34	122.66
6	120.89	119.88	119.57	118.75	115.68	116.31	116.31	117.81	117.40	117.07	123.84	122.36
7	120.41	120.55	119.91	118.27	115.72	116.19	116.83	117.51	117.26	116.77	123.87	122.26
8	119.74	120.58	120.20	118.14	115.69	115.65	116.65	117.58	117.34	116.56	123.80	122.47
9	119.41	120.66	120.89	118.47	116.17	115.58	117.22	117.56	117.06	116.90	123.61	122.54
10	119.90	120.16	121.10	118.73	116.34	115.45	117.15	117.15	117.00	116.88	123.80	122.14
11	120.45	120.22	121.41	118.23	116.91	115.19	116.89	117.73	117.77	117.46	124.11	121.96
12	120.83	120.37	121.53	117.99	117.03	114.86	116.88	118.20	117.70	117.61	124.42	121.78
13	120.47	120.23	121.56	118.08	117.15	115.26	116.86	118.55	117.69	117.95	124.49	122.07
14	119.87	120.55	122.24	118.07	117.16	115.80	116.38	118.79	117.81	118.13	124.70	122.38
15	119.52	120.31	121.82	117.93	116.95	115.94	115.84	119.49	117.78	117.90	124.78	122.62
16	119.43	119.86	122.08	118.35	117.03	115.89	115.48	119.62	117.94	118.22	125.00	122.83
17	119.87	120.08	121.65	117.93	117.31	115.34	115.76	118.94	117.86	118.28	124.94	122.78
18	119.80	119.81	121.97	117.89	117.67	115.32	115.64	118.55	117.40	118.95	125.05	123.18
19	119.87	119.59	121.60	117.46	117.60	115.31	115.35	118.49	117.14	119.13	124.62	123.83
20	119.95	120.00	121.36	117.35	117.41	115.62	115.66	118.42	117.20	119.78	124.70	124.41
21	119.67	120.11	121.25	117.62	117.30	116.44	116.11	118.21	117.20	120.47	124.62	124.70
22	119.66	120.48	120.55	117.66	116.76	116.47	116.62	118.42	117.59	120.97	124.86	124.68
23	119.53	119.87	120.96	117.42	116.59	116.00	116.61	118.11	118.08	121.82	125.16	124.95
24	119.98	119.44	121.06	117.14	116.10	116.30	116.59	117.88	118.60	122.49	125.16	124.49
25	119.89	119.28	121.29	116.82	116.67	116.34	116.39	118.42	118.93	123.03	124.78	124.23
26	119.93	119.10	121.27	117.01	116.57	116.42	116.25	119.11	118.71	123.25	124.36	124.11
27	119.68	119.00	121.04	116.92	116.58	115.91	116.41	118.91	118.44	123.29	124.03	123.33
28	119.25	119.08	120.17	117.10	117.07	115.84	116.19	118.65	117.89	123.26	123.67	123.55
29	119.88	118.73	119.81	117.11	---	115.86	116.15	118.43	117.63	123.60	123.64	123.71
30	120.51	119.16	120.34	117.27	---	116.16	116.83	118.22	117.86	124.10	123.65	123.52
31	120.49	---	120.57	117.04	---	116.18	---	117.75	---	124.39	123.48	---

WTR YEAR 1985 HIGHEST 114.73 Mar. 12, 1985 LOWEST 125.25 Aug. 24, 1985



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.--Confined aquifer in shale of Ordovician age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in., depth 128 ft, cased to unknown depth, open hole.
INSTRUMENTATION.--Water-stage recorder--30-minute punch.
DATUM.--Elevation of land-surface datum is 170 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of extended casing, 3.10 ft above land-surface datum.
REMARKS.--Water level responds to semidiurnal earth tides (approximately 0.05 ft).
PERIOD OF RECORD.--September 1948 to April 1950, April 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.62 ft below land-surface datum, June 22, 1953; lowest, 73.85 ft below land-surface datum, Sept. 13, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68.73	69.11	69.14	69.39	69.76	69.79	69.83	70.11	70.22	70.63	70.66	70.74
2	68.69	69.07	69.23	69.37	69.73	69.75	69.79	70.14	70.23	70.63	70.66	70.78
3	68.66	69.09	69.29	69.41	69.75	69.79	69.78	70.11	70.27	70.60	70.71	70.79
4	68.66	69.09	69.27	69.38	69.81	69.86	69.80	70.08	70.33	70.58	70.75	70.77
5	68.73	68.99	69.33	69.27	69.83	69.78	69.84	70.07	70.37	70.60	70.78	70.76
6	68.84	68.92	69.24	69.29	69.75	69.80	69.82	70.05	70.35	70.62	70.79	70.76
7	68.91	68.97	69.18	69.31	69.69	69.89	69.87	70.02	70.38	70.62	70.79	70.79
8	68.91	69.07	69.20	69.28	69.67	69.84	69.88	70.07	70.36	70.63	70.68	70.82
9	68.89	69.12	69.28	69.37	69.69	69.78	69.91	70.17	70.31	70.64	70.61	70.77
10	68.89	69.09	69.32	69.48	69.76	69.78	69.97	70.19	70.29	70.64	70.62	70.69
11	68.90	69.03	69.31	69.50	69.81	69.79	69.99	70.19	70.33	70.66	70.64	70.69
12	68.90	68.97	69.30	69.46	69.79	69.66	70.03	70.19	70.32	70.72	70.66	70.74
13	68.89	68.97	69.29	69.41	69.64	69.55	70.08	70.19	70.31	70.72	70.70	70.80
14	68.85	69.02	69.37	69.36	69.60	69.57	70.09	70.20	70.36	70.72	70.71	70.85
15	68.83	69.10	69.43	69.33	69.64	69.63	70.04	70.26	70.43	70.67	70.68	70.87
16	68.86	69.09	69.46	69.42	69.68	69.71	69.94	70.27	70.44	70.64	70.67	70.85
17	68.91	69.11	69.42	69.46	69.73	69.71	69.94	70.19	70.39	70.67	70.71	70.84
18	68.94	69.15	69.38	69.42	69.79	69.71	69.98	70.04	70.37	70.72	70.75	70.85
19	68.94	69.15	69.36	69.38	69.82	69.76	69.97	70.00	70.36	70.75	70.76	70.86
20	68.93	69.20	69.32	69.38	69.84	69.77	69.98	70.10	70.39	70.74	70.76	70.86
21	68.95	69.28	69.36	69.41	69.88	69.82	70.00	70.17	70.46	70.74	70.77	70.84
22	68.97	69.35	69.27	69.44	69.88	69.88	70.01	70.20	70.53	70.62	70.79	70.85
23	68.96	69.34	69.26	69.48	69.84	69.86	70.02	70.24	70.56	70.60	70.81	70.88
24	68.99	69.29	69.29	69.51	69.76	69.82	70.05	70.25	70.56	70.68	70.83	70.85
25	69.02	69.27	69.30	69.51	69.72	69.82	70.03	70.24	70.55	70.75	70.84	70.85
26	69.01	69.28	69.40	69.54	69.77	69.86	70.00	70.23	70.56	70.73	70.81	70.87
27	69.00	69.32	69.47	69.61	69.75	69.87	70.00	70.24	70.58	70.69	70.80	70.74
28	68.99	69.31	69.44	69.64	69.78	69.81	70.04	70.22	70.57	70.72	70.82	70.57
29	68.97	69.19	69.34	69.68	---	69.77	70.07	70.23	70.54	70.76	70.83	70.66
30	69.01	69.14	69.32	69.74	---	69.80	70.11	70.27	70.57	70.77	70.81	70.72
31	69.06	---	69.39	69.77	---	69.88	---	70.28	---	70.77	70.72	---

WTR YEAR 1985 HIGHEST 68.62 Oct. 4, 1984 LOWEST 70.93 Sept. 23, 1985

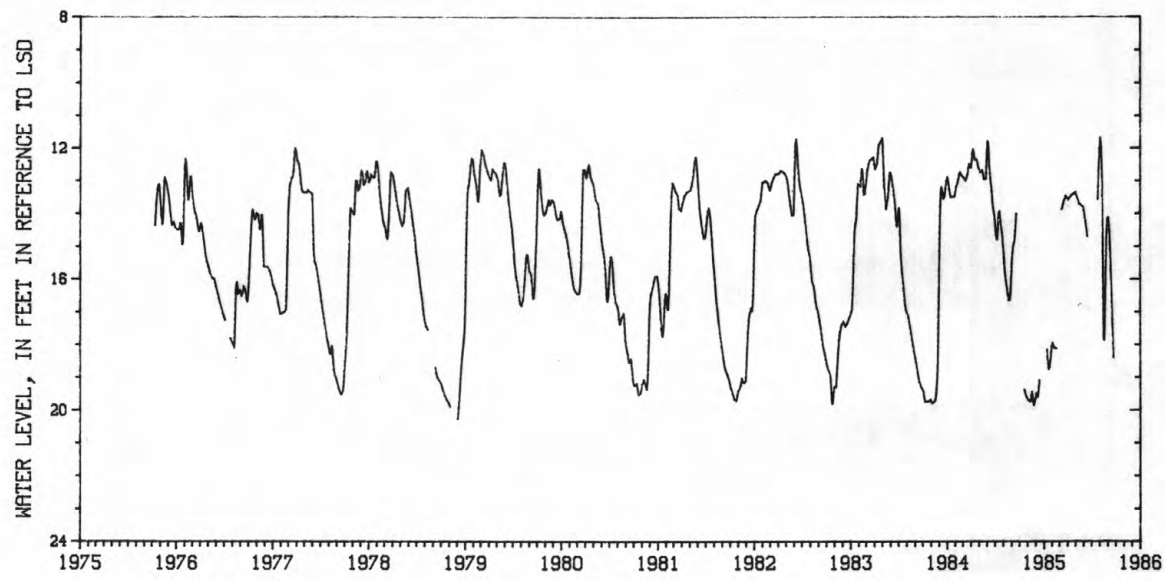
DUTCHESS COUNTY

414128073475201. Local number, Du 1009.
LOCATION.--Lat 41°41'28", long 73°47'52", Hydrologic Unit 02020008, James Baird State Park, near Pleasant Valley.
Owner: New York State Department of Environmental Conservation.
AQUIFER.--Water-table aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored observation well, diameter 2.5 in., depth 28 ft, cased to 25 ft, 1.25-in. well point (60-gauze screen 25 ft to 27 ft, damaged during well installation).
INSTRUMENTATION.--Weekly tape measurement by observer.
DATUM.--Elevation of land-surface datum is 330 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 2.10 ft above land-surface datum.
PERIOD OF RECORD.--October 1965 to April 1969, June 1971 to current year. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.70 ft below land-surface datum, May 2, 1983; lowest measured, 20.60 ft below land-surface datum, Nov. 24, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 22, 1984	19.40	DEC 13, 1984	19.44	Z	MAR 19, 1985	13.64	JUL 26, 1985	13.57	
29	19.60	17	19.10		27	13.47	AUG 14	14.70	
NOV 05	19.70	JAN 14, 1985	18.15		APR 04	13.58	19	17.85	Z
13	19.75	22	18.75		17	13.45	23	16.60	
19	19.45	FEB 05	17.96		MAY 02	13.35	SEP 23	18.40	
26	19.85	10	18.08		16	13.70			
DEC 05	19.50	19	18.12		30	13.80			
10	19.60	MAR 12	13.86		JUN 17	14.70			

Z Measured by USGS personnel.

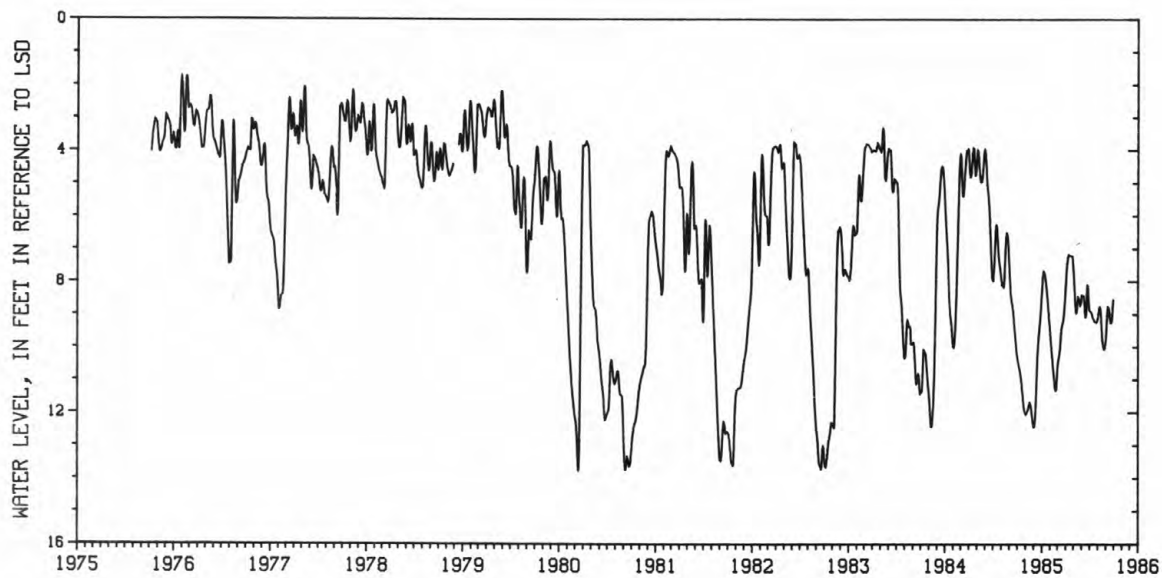


GREENE COUNTY

422319073482001. Local number, G 1.
LOCATION.--Lat 42°23'19", long 73°48'20", Hydrologic Unit 02020006, near West Coxsackie.
Owner: Harry Andrews.
AQUIFER.--Water-table aquifer in till of Pleistocene age.
WELL CHARACTERISTICS.--Dug domestic well, diameter 36 in., depth 17.6, filled in from original depth of 19 ft, tile-lined to 2 ft, stone-lined to 19 ft.
INSTRUMENTATION.--Weekly tape measurement by observer.
DATUM.--Elevation of land-surface datum is 130 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Chiseled square on top of inner step on curb, 0.18 ft below land-surface datum.
PERIOD OF RECORD.--December 1945 to current year.
EXTREMES FOR PERIOD OR RECORD.--Highest water level measured, 1.07 ft below land-surface datum, Mar. 15, 1962; lowest measured, 15.56 ft below land-surface datum, Feb. 27, 1963.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1984	10.22	DEC 31, 1984	8.76	APR 01, 1985	8.46	JUL 08, 1985	8.92
08	10.56	JAN 10, 1985	7.66	08	7.46	15	9.10
15	10.86	14	7.77	15	7.17	22	9.21
22	11.41	22	8.29	29	7.22	29	9.24
29	11.95	28	8.90	MAY 07	8.27	AUG 05	9.00
NOV 04	12.06	FEB 04	9.61	13	8.96	12	8.76
12	11.91	11	10.30	20	8.45	21	9.82
19	11.69	18	10.96	28	8.73	26	10.06
26	12.00	25	11.33	JUN 03	8.41	SEP 02	9.84
DEC 03	12.44	MAR 04	10.56	11	8.43	10	8.76
10	12.00	12	10.13	18	9.07	17	9.06
17	10.52	18	9.45	24	8.10	23	9.25
24	9.55	25	9.19	JUL 01	8.87	30	8.54



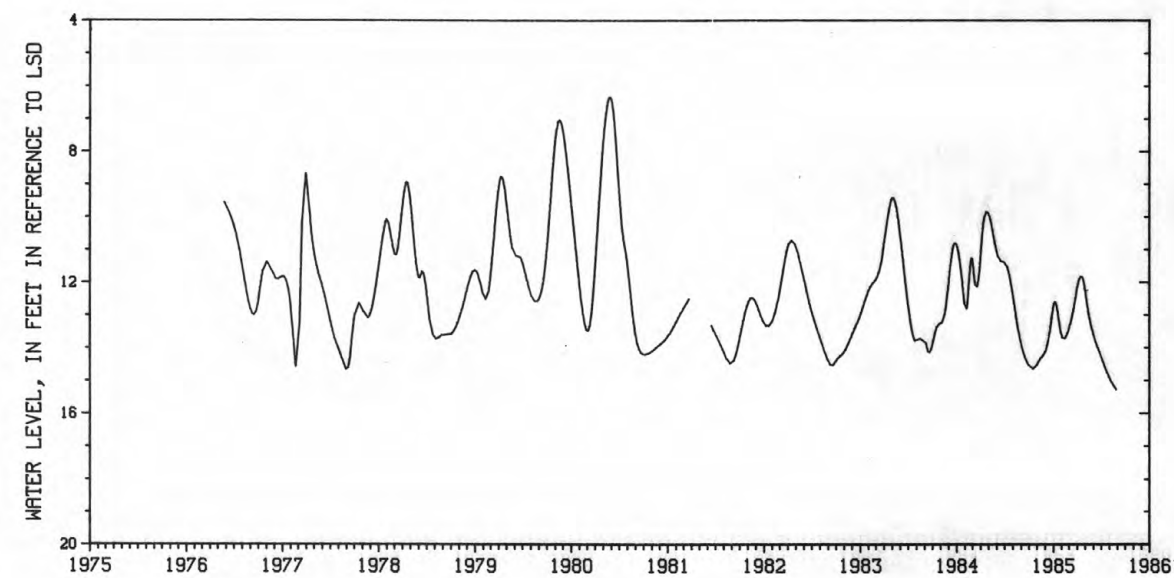
HAMILTON COUNTY

432832074122201. Local number, H 3.
LOCATION.--Lat 43°28'32", long 74°12'22", Hydrologic Unit 02020002, near Griffin.
Owner: F. B. Girard.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Bored observation well, diameter 2.5 in., depth 16.4 ft in July 1983, filled in from original depth of 19 ft, cased to 16 ft, 1.25-in. well point (60-gauze screen 16 ft to 19 ft, damaged during well installation).
INSTRUMENTATION.--Tape measurement by USGS personnel.
DATUM.--Elevation of land-surface datum is 1,290 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 1.55 ft above land-surface datum as of October 1984.
REMARKS.--Well casing believed to have settled about 0.75 ft shortly after installation. All published records prior to 1985 water year should be adjusted accordingly.
PERIOD OF RECORD.--November 1965 to current year. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.38 ft (corrected) below land-surface datum, June 6, 1980; lowest measured, 16.19 ft (corrected) below land-surface datum, Oct. 21, 1969.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 02, 1984	14.54		JAN 30, 1985	13.52		APR 02, 1985	12.15	S	JUN 10, 1985	13.80
NOV 01	14.52	S	FEB 05	13.68	S	15	11.83	S	JUL 08	14.40
06	14.43		MAR 06	13.30	S	29	12.08	S	AUG 01	14.90
DEC 19	13.55		19	12.85		MAY 01	12.20		28	15.27
JAN 08, 1985	12.60	S								

S Measured by Board of Hudson River-Black River Regulating District personnel.



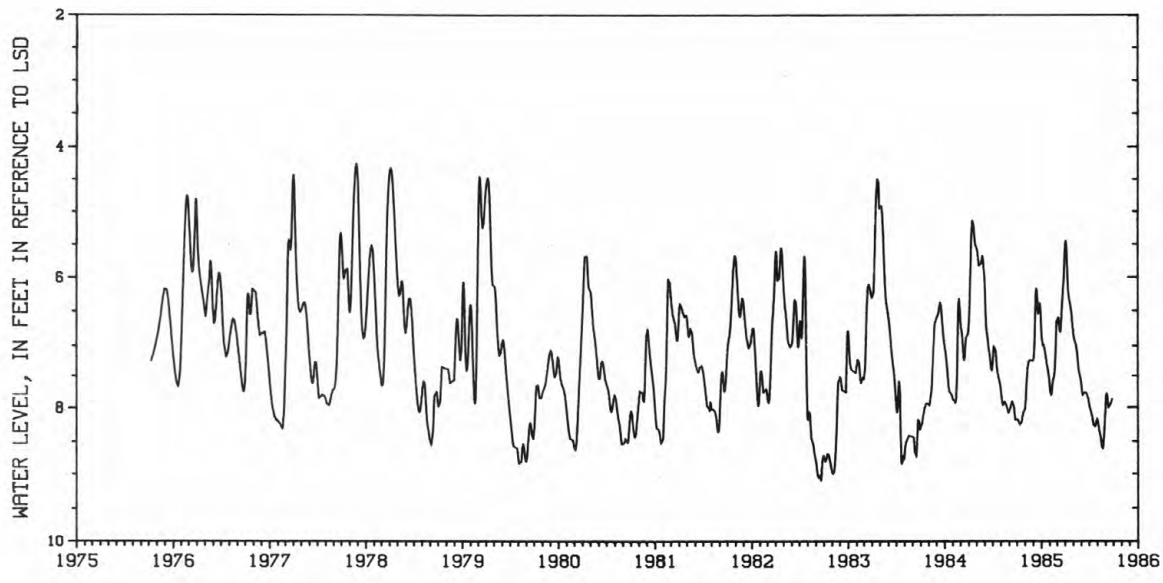
MONTGOMERY COUNTY

430141074423501. Local number, Mt 1.
LOCATION.--Lat 43°01'41", long 74°42'35", Hydrologic Unit 02020004, near St. Johnsville.
Owner: Keith Handy.
AQUIFER.--Water-table aquifer in till of Pleistocene age.
WELL CHARACTERISTICS.--Dug unused well, diameter 24 in., depth 12 ft, stone-lined.
INSTRUMENTATION.--Tape gage read weekly by observer.
DATUM.--Elevation of land-surface datum is 710 ft above National Geodetic Vertical Datum of 1929, from topographic map. 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 measured, 3.74 ft below land-surface datum, Apr. 10, 1971; lowest measured, 9.99 ft below land-surface datum, Aug. 28, 1949.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 06, 1984	8.18	JAN 12, 1985	6.99	APR 20, 1985	6.38	JUL 27, 1985	8.28	
13	8.25	19	7.14	27	6.55	AUG 03	8.17	
20	8.22	26	7.36	MAY 04	6.83	10	8.34	
27	8.08	FEB 02	7.57	11	6.95	17	8.47	
NOV 03	8.02	09	7.82	18	7.10	24	8.62	
10	7.50	16	7.58	25	7.42	29	8.35	Z
17	7.25	23	7.38	JUN 01	7.57	31	8.22	
24	7.23	MAR 02	6.65	08	7.82	SEP 07	7.79	
DEC 01	7.24	09	6.60	15	7.78	14	8.00	
08	7.00	16	6.80	22	7.78	21	7.96	
15	6.18	23	6.40	29	7.86	28	7.88	
22	6.54	30	5.94	JUL 06	8.01			
29	6.40	APR 06	5.45	13	8.11			
JAN 05, 1985	6.89	13	6.08	20	8.26			

Z Measured by USGS personnel.

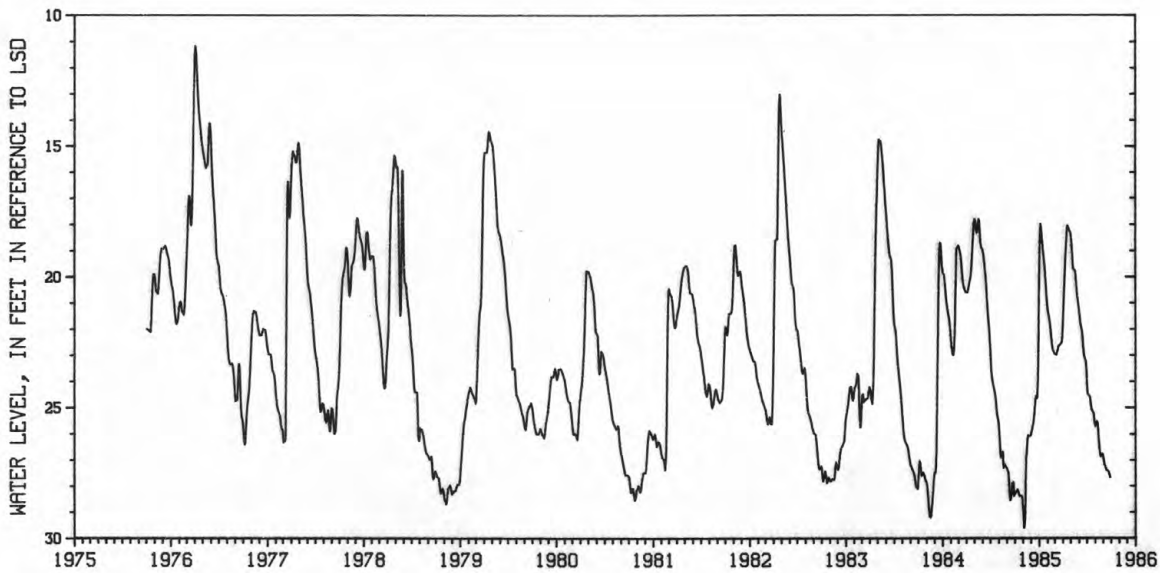


ONEIDA COUNTY

433112075091501. Local number, Oe 151.
LOCATION.--Lat 43°31'12", long 75°09'15", Hydrologic Unit 04150101, at Woodgate.
Owner: Henry Rubyor.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Dug domestic well, diameter 36 in., depth 31.1 ft in July 1984, stone-lined.
INSTRUMENTATION.--Tape gage read weekly by observer.
DATUM.--Elevation of land-surface datum is 1,484.94 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of 2-ft square concrete well cover at midpoint of south side of rectangular opening, 1.00 ft 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 measured, 11.43 ft below land-surface datum, Apr. 3, 1976; lowest measured, 30.31 ft below land-surface datum, Feb. 25, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1984	28.25	DEC 29, 1984	23.88	APR 06, 1985	20.88	JUL 13, 1985	24.57
13	28.15	JAN 05, 1985	18.75	13	19.12	20	25.07
20	28.38	12	18.32	20	18.04	27	25.20
27	28.38	19	19.13	27	18.23	AUG 03	25.72
NOV 03	28.85	26	20.00	MAY 04	18.53	10	25.53
10	29.31	FEB 02	21.08	11	19.68	17	26.28
15	26.80	09	21.57	18	19.76	24	26.87
16	26.80	16	22.11	25	20.56	31	26.78
17	26.58	23	22.79	JUN 01	21.16	SEP 07	27.18
24	26.08	MAR 02	22.94	08	21.80	14	27.38
DEC 01	26.06	09	22.99	15	22.24	21	27.43
08	25.73	16	22.67	22	23.02	28	27.66
15	25.28	23	22.59	29	23.24		
22	24.57	30	22.48	JUL 05	24.48		



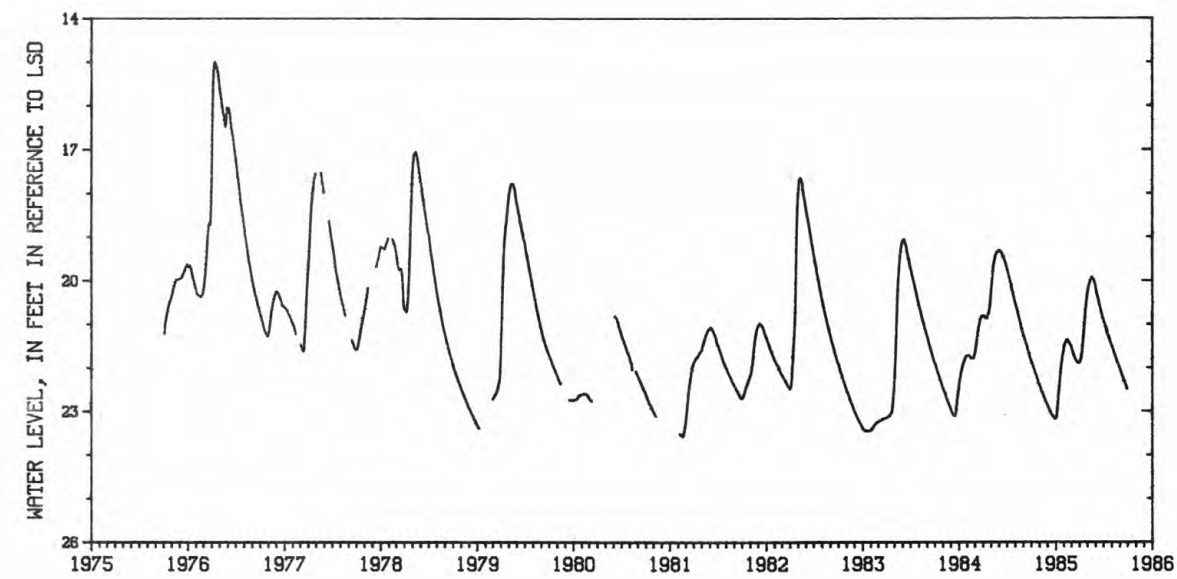
ONEIDA COUNTY

433012075134202. Local number, Oe 766.
LOCATION.--Lat 43°30'12", long 75°13'42", Hydrologic Unit 04150101, near Hawkinsville.
Owner: New York State Department of Environmental Conservation.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Driven-washed observation well, diameter 6 in., depth 30.7 ft in December 1983, filled in from original depth of 33 ft, cased to 33 ft, open end.
INSTRUMENTATION.--Water-stage recorder--hourly punch.
DATUM.--Elevation of land-surface datum is 1,190.22 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of extended casing, 2.63 ft above land-surface datum.
REMARKS.--Well was driven-washed November 1968 as a replacement for 433012075134201 (local number Oe 765), located 15 ft east, which has a period of record from November 1965 to November 1968 (unpublished).
PERIOD OF RECORD.--November 1968 to current year. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.87 ft below land-surface datum, May 21, 1972; lowest recorded, 23.58 ft below land-surface datum, Feb. 20, 21, 22, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.83	22.38	22.85	23.18	21.61	21.49	21.88	20.33	20.10	20.88	21.47	22.01
2	21.85	22.40	22.86	23.18	21.54	21.51	21.88	20.28	20.16	20.90	21.49	22.02
3	21.87	22.42	22.87	23.18	21.51	21.54	21.87	20.24	20.19	20.91	21.51	22.04
4	21.89	22.43	22.89	23.15	21.49	21.56	21.87	20.21	20.23	20.94	21.52	22.06
5	21.90	22.44	22.91	23.13	21.47	21.56	21.85	20.17	20.26	20.97	21.54	22.08
6	21.91	22.46	22.91	23.10	21.45	21.61	21.81	20.14	20.28	20.98	21.56	22.09
7	21.93	22.49	22.94	23.04	21.44	21.63	21.81	20.11	20.32	21.00	21.57	22.11
8	21.95	22.51	22.95	23.00	21.42	21.63	21.77	20.09	20.32	21.02	21.59	22.13
9	21.97	22.52	22.96	22.93	21.41	21.66	21.74	20.06	20.35	21.04	21.61	22.14
10	21.99	22.54	22.97	22.85	21.40	21.68	21.70	20.04	20.38	21.06	21.63	22.16
11	22.00	22.55	22.99	22.78	21.39	21.69	21.66	20.02	20.42	21.08	21.65	22.18
12	22.02	22.55	23.00	22.70	21.37	21.69	21.62	20.01	20.43	21.10	21.67	22.19
13	22.04	22.56	23.02	22.62	21.36	21.72	21.56	19.99	20.45	21.12	21.68	22.22
14	22.06	22.59	23.03	22.54	21.36	21.74	21.49	19.98	20.49	21.14	21.70	22.23
15	22.08	22.60	23.04	22.49	21.36	21.76	21.42	19.97	20.53	21.16	21.72	22.25
16	22.10	22.61	23.05	22.42	21.36	21.79	21.35	19.95	20.54	21.18	21.74	22.26
17	22.12	22.63	23.06	22.34	21.36	21.79	21.29	19.93	20.57	21.21	21.76	22.28
18	22.14	22.65	23.07	22.27	21.38	21.80	21.22	19.92	20.58	21.23	21.77	22.30
19	22.15	22.67	23.08	22.20	21.38	21.82	21.15	19.93	20.61	21.24	21.79	22.32
20	22.17	22.69	23.09	22.14	21.40	21.82	21.06	19.94	20.64	21.25	21.81	22.33
21	22.18	22.71	23.10	22.08	21.42	21.85	20.98	19.95	20.67	21.27	21.83	22.35
22	22.20	22.72	23.11	22.02	21.42	21.85	20.89	19.96	20.69	21.28	21.84	22.36
23	22.23	22.73	23.12	21.96	21.43	21.85	20.81	19.96	20.71	21.31	21.87	22.38
24	22.24	22.75	23.13	21.91	21.43	21.86	20.73	19.97	20.73	21.33	21.88	22.39
25	22.26	22.77	23.14	21.87	21.45	21.88	20.65	19.97	20.75	21.35	21.89	22.41
26	22.27	22.78	23.15	21.83	21.47	21.88	20.59	19.98	20.78	21.36	21.90	22.43
27	22.29	22.80	23.15	21.77	21.47	21.88	20.53	20.00	20.80	21.38	21.92	22.44
28	22.31	22.81	23.16	21.73	21.49	21.88	20.47	20.02	20.82	21.41	21.94	22.47
29	22.33	22.82	23.16	21.69	---	21.89	20.43	20.06	20.84	21.42	21.96	22.48
30	22.35	22.84	23.18	21.65	---	21.89	20.37	20.08	20.86	21.44	21.97	22.49
31	22.37	---	23.18	21.64	---	21.90	---	20.08	---	21.45	21.99	---

WTR YEAR 1985 HIGHEST 19.92 May 17, 18, 19, 1985 LOWEST 23.18 Dec. 30, 31, 1984, Jan. 1-2, 3, 1985

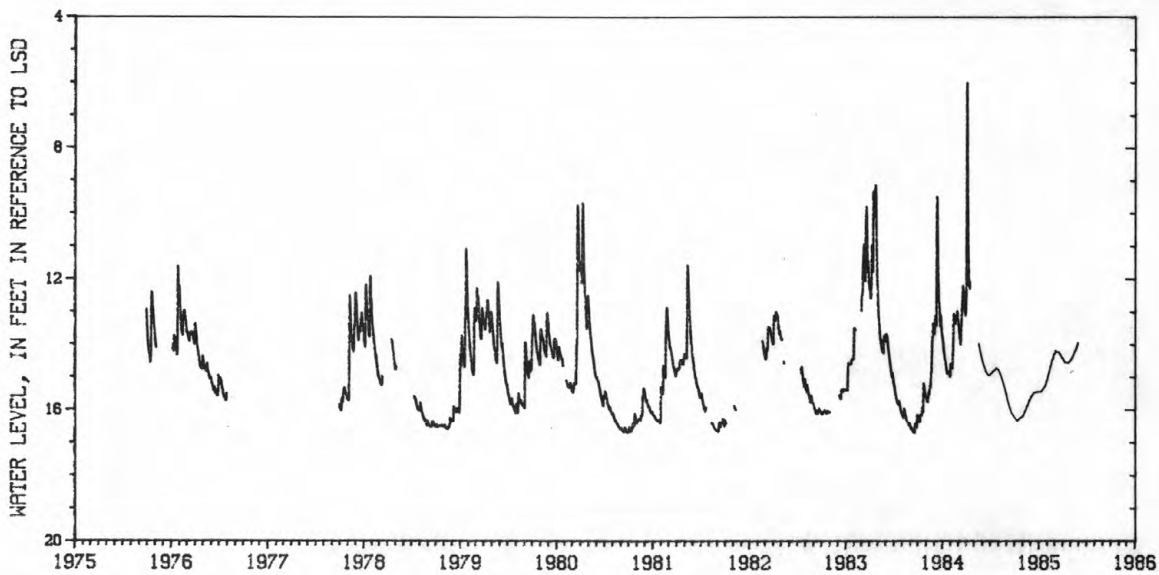


ORANGE COUNTY

411933074150801. Local number, O 104.
LOCATION.--Lat 41°19'33", long 74°15'08", Hydrologic Unit 02020008, near Chester.
Owner: Palisades Interstate Park Commission.
AQUIFER.--Water-table aquifer in limestone of Devonian age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in., depth 70 ft, filled in from original depth of 98 ft, cased to 73 ft, open end.
INSTRUMENTATION.--Tape measurement by USGS personnel.
DATUM.--Elevation of land-surface datum is 445 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 4.19 ft above land-surface datum.
REMARKS.--Water-level fluctuations show hydraulic response to high flow in Seeley Brook, 500 ft west.
PERIOD OF RECORD.--September 1964 to June 1974, February 1975 to August 1976, October 1978 to May 1985 (discontinued). Records for the 1977 water year, published in WDR NY-77-1, are unreliable and should not be used. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.89 ft below land-surface datum, Apr. 6, 1984; lowest, 16.70 ft below land-surface datum, Sept. 19, 20, 21, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01, 1984	16.19	JAN 24, 1985	15.29	APR 11, 1985	14.54	MAY 30, 1985	13.95
DEC 13	15.48	MAR 07	14.20				

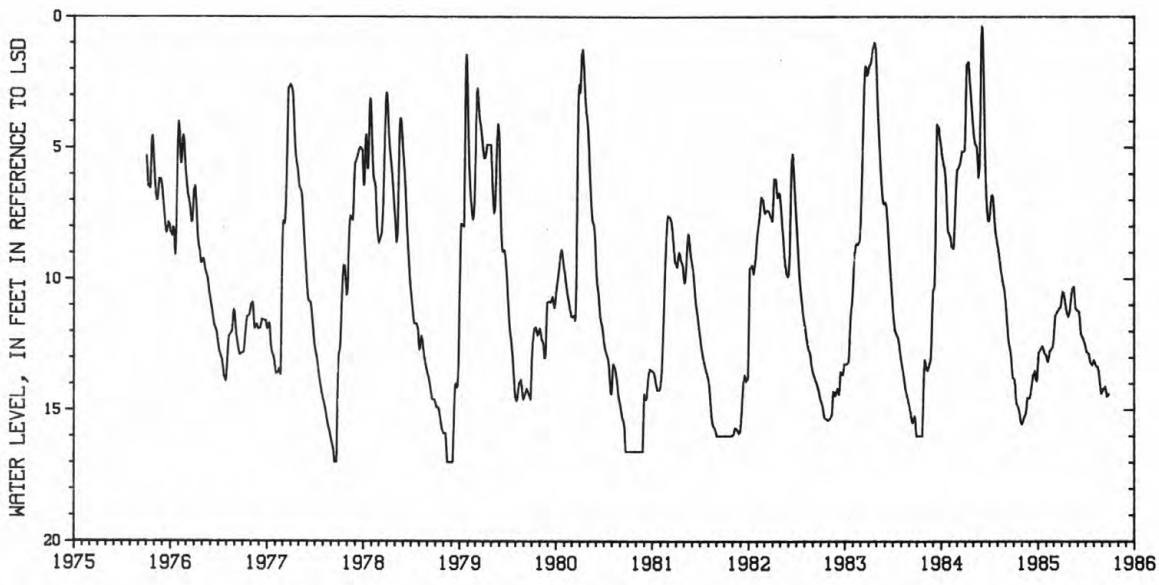


PUTNAM COUNTY

412450073413101. Local number, P 609.
LOCATION.--Lat 41°24'50", long 73°41'31", Hydrologic Unit 02030101, near Carmel.
Owner: New York City Board of Water Supply.
AQUIFER.--Water-table aquifer in till of Pleistocene age.
WELL CHARACTERISTICS.--Dug unused well, diameter 36 in., depth 16 ft in June 1984, stone-lined.
INSTRUMENTATION.--Weekly tape measurement by observer.
DATUM.--Elevation of land-surface datum is 540 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top (north side) of 3-in. coupling set in concrete well cover, at land-surface datum.
REMARKS.--Original depth measured at 17 ft. Depth measured at 16.6 ft October 1979, filled in to 16 ft September 1981.
PERIOD OF RECORD.--January 1935 to September 1945, September 1950 to current year. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.84 ft below land-surface datum, June 2, 1984; lowest measured, dry, Nov. 1, 30, 1935, Jan. 7, 1936, Sept. 1, 1939, several days in 1953, 1957, 1964, 1966, 1978, Sept. 25, 1980, several days in 1981, 1982, 1984.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1984	13.85	JAN 05, 1985	12.80	APR 06, 1985	10.50	JUL 06, 1985	12.76
13	14.76	11	12.70	13	10.74	13	12.85
20	14.89	19	12.57	22	11.30	19	13.15
27	15.30	26	12.80	27	11.42	27	13.28
NOV 03	15.55	FEB 02	12.90	MAY 04	11.12	AUG 03	13.10
10	15.30	09	13.15	12	10.40	10	13.30
17	15.15	16	12.76	18	10.30	17	13.36
24	14.55	23	12.65	25	11.12	31	14.36
DEC 01	14.55	MAR 02	12.38	JUN 01	11.20	SEP 07	14.20
08	14.20	09	11.40	08	11.25	14	14.12
15	13.68	16	11.25	15	12.11	21	14.48
22	13.50	23	11.15	22	12.25	28	14.40
29	13.90	30	11.05	29	12.44		

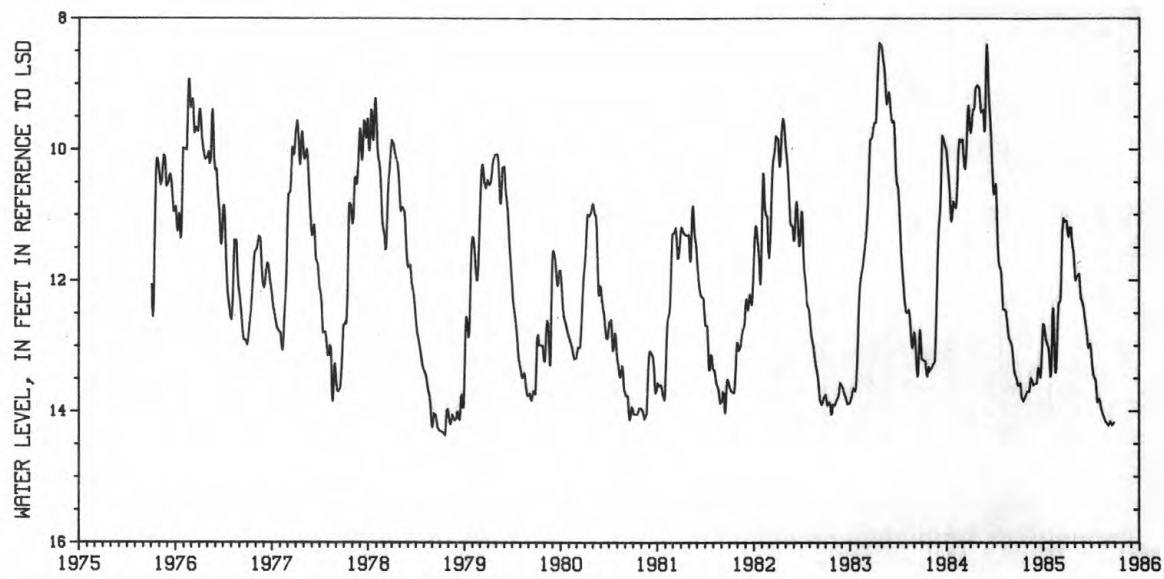


RENSSELAER COUNTY

423834073391001. Local number, Re 700.
LOCATION.--Lat 42°38'34", long 73°39'10", Hydrologic Unit 02020006, near Defreestville.
Owner: William P. Hofmann.
AQUIFER.--Water-table aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Dug domestic well, diameter 4 ft, depth 15.8 ft in October 1983, stone-lined.
INSTRUMENTATION.--Weekly tape measurement by observer.
DATUM.--Elevation of land-surface datum is 405 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top edge of concrete curbing at midpoint of north side of rectangular opening, 2.00 ft above land-surface datum.
PERIOD OF RECORD.--September 1954 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.38 ft below land-surface datum, Apr. 23, 1983; lowest measured, 15.49 ft below land-surface datum, Oct. 3, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 08, 1984	13.58	JAN 06, 1985	12.68	APR 09, 1985	11.33	JUL 06, 1985	13.26
13	13.79	12	12.90	18	11.19	13	13.47
20	13.85	19	12.99	21	11.40	20	13.53
27	13.78	26	13.19	27	11.54	27	13.86
NOV 03	13.70	FEB 02	13.39	MAY 05	12.00	AUG 03	13.82
10	13.71	09	12.42	11	11.94	09	13.95
17	13.50	16	13.30	18	11.90	17	14.06
25	13.60	24	12.96	25	12.27	25	14.15
DEC 05	13.58	MAR 02	12.35	JUN 01	12.35	31	14.18
09	13.58	09	12.30	09	12.59	SEP 07	14.22
15	13.34	16	11.25	16	12.80	14	14.16
23	13.48	24	11.10	22	13.03	21	14.21
JAN 03, 1985	12.67	31	11.09	29	12.97	28	14.18



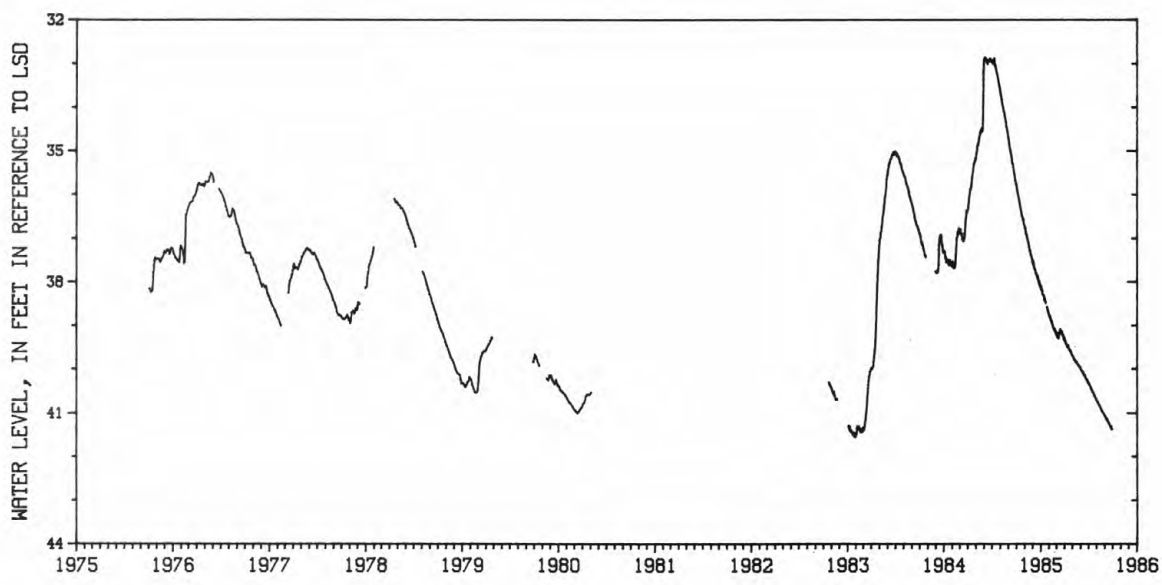
RENSSELAER COUNTY

423534073423401. Local number, Re 703.
LOCATION.--Lat 42°35'34", long 73°42'34", Hydrologic Unit 02020006, in East Greenbush.
Owner: Town of East Greenbush.
AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 80 ft, cased to 78 ft, 50-slot plastic screen 78 ft to 80 ft.
INSTRUMENTATION.--Water-stage recorder--15-minute punch.
DATUM.--Elevation of land-surface datum is 275 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of flange, 2.9 ft above land-surface datum.
REMARKS.--The wrong measuring point value was used from November 1982 through the 1985 water year. A -.20 correction should be applied to all published record prior to the 1985 water year. Well was drilled October 1982 as a replacement for 423532073423701 (local number Re 701), located about 300 ft southwest and 15.8 ft lower in land-surface datum, which has a period of record from March 1961 to May 1980. Hydrograph shows water levels plotted for Re 701 (through 1980) adjusted to elevation of water levels plotted for Re 703. Water level may be affected by nearby pumping.
PERIOD OF RECORD.--October 1982 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 32.86 ft (corrected) below land-surface datum, June 4, 5, 6, 7, 8, 9, July 11, 1984; lowest recorded, 41.57 ft (corrected) below land-surface datum, Feb. 1, 1983.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.76	36.70	37.49	38.09	38.72	39.16	39.28	39.68	39.97	40.31	40.68	41.06
2	35.78	36.71	37.54	38.13	38.74	39.18	39.32	39.70	40.00	40.31	40.70	41.06
3	35.78	36.77	37.54	38.16	38.78	39.23	39.33	39.71	40.01	40.31	40.71	41.07
4	35.83	36.78	37.58	38.11	38.80	39.23	39.37	39.72	40.03	40.33	40.72	41.07
5	35.89	36.76	37.61	38.12	38.79	39.18	39.36	39.72	40.04	40.35	40.74	41.10
6	35.94	36.81	37.53	38.19	38.78	39.28	39.36	39.73	40.05	40.36	40.75	41.11
7	35.96	36.87	37.61	38.18	38.82	39.28	39.41	39.74	40.06	40.37	40.75	41.13
8	35.98	36.91	37.64	38.21	38.83	39.22	39.41	39.78	40.05	40.38	40.76	41.14
9	36.01	36.92	37.69	38.28	38.87	39.28	39.43	39.79	40.06	40.39	40.78	41.14
10	36.05	36.92	37.70	38.30	38.90	39.30	39.45	39.78	40.09	40.40	40.79	41.14
11	36.09	36.94	37.72	38.29	38.92	39.29	39.45	39.80	40.10	40.42	40.80	41.16
12	36.11	36.97	37.72	38.30	38.89	39.21	39.48	39.81	40.09	40.44	40.82	41.18
13	36.14	37.00	37.75	38.31	38.90	39.22	39.50	39.82	40.11	40.46	40.83	41.19
14	36.16	37.04	37.80	38.32	38.95	39.18	39.49	39.84	40.13	40.46	40.84	41.20
15	36.19	37.05	37.81	38.35	38.97	39.15	39.47	39.86	40.15	40.47	40.84	41.21
16	36.24	37.06	37.82	38.41	38.99	39.14	39.46	39.84	40.14	40.48	40.86	41.22
17	36.28	37.11	37.81	38.37	39.01	39.09	39.52	39.83	40.16	40.51	40.88	41.23
18	36.31	37.14	37.85	38.40	39.04	39.10	39.52	39.84	40.15	40.52	40.89	41.25
19	36.33	37.17	37.85	38.42	39.04	39.14	39.53	39.87	40.17	40.52	40.90	41.26
20	36.37	37.21	37.88	38.45	39.07	39.12	39.56	39.88	40.19	40.53	40.92	41.27
21	36.40	37.26	37.92	38.47	39.09	39.18	39.56	39.89	40.21	40.54	40.93	41.28
22	36.44	37.29	37.87	38.49	39.08	39.18	39.57	39.90	40.22	40.55	40.95	41.30
23	36.47	37.28	37.94	---	39.10	39.15	39.59	39.91	40.23	40.58	40.96	41.31
24	36.50	37.31	37.93	---	39.08	39.16	39.60	39.91	40.23	40.60	40.98	41.31
25	36.53	37.35	37.97	---	39.13	39.21	39.58	39.92	40.25	40.61	40.99	41.34
26	36.53	37.38	38.02	38.59	39.14	39.24	39.61	39.93	40.26	40.60	40.99	41.35
27	36.56	37.41	38.03	38.62	39.13	39.22	39.63	39.94	40.27	40.62	41.00	41.32
28	36.57	37.41	37.99	38.63	39.18	39.22	39.64	39.95	40.27	40.64	41.01	41.37
29	36.60	37.41	37.99	38.67	---	39.27	39.66	39.97	40.29	40.65	41.02	41.38
30	36.65	37.46	38.08	38.70	---	39.31	39.67	39.97	40.31	40.66	41.02	41.37
31	36.69	---	38.11	38.71	---	39.33	---	39.96	---	40.67	41.04	---

WTR YEAR 1985 HIGHEST 35.75 Oct. 1, 1984 LOWEST 41.58 Sept. 28, 29, 30, 1985



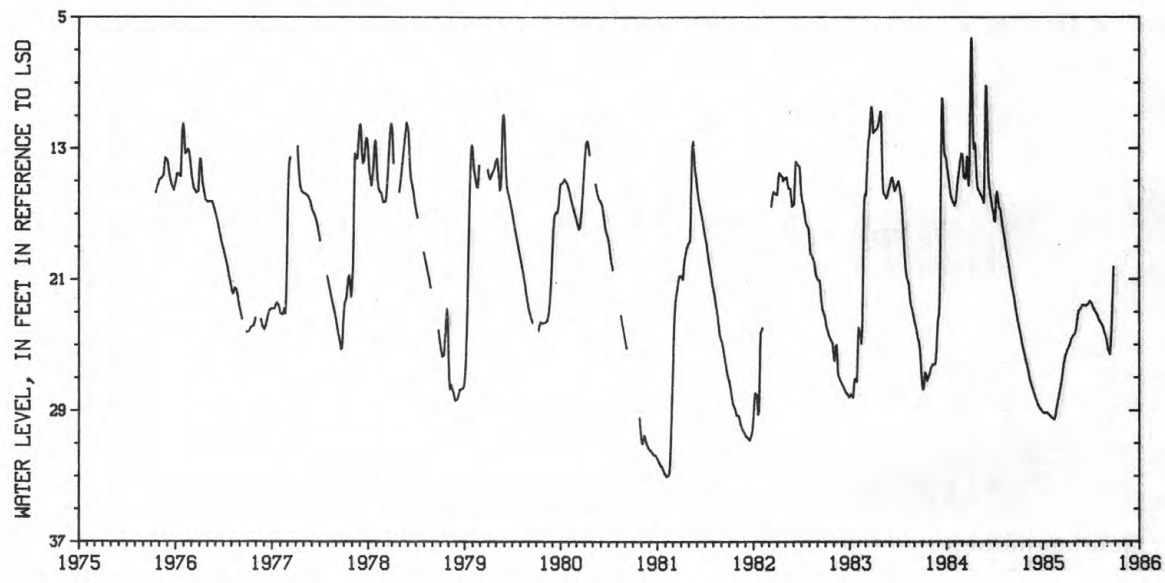
ROCKLAND COUNTY

411802073593001. Local number, Ro 18.
LOCATION.--Lat 41°18'02", long 73°59'30", Hydrologic Unit 02030101, in Bear Mountain State Park near Lemon Road and Seven Lakes Drive.
Owner: Palisades Interstate Park Commission.
AQUIFER.--Confined aquifer in Storm King Granite of Precambrian age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in., depth 60 ft, cased to 53 ft, open hole.
INSTRUMENTATION.--Tape gage read weekly by observer.
DATUM.--Elevation of land-surface datum is 390 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of extended casing, 3.65 ft above land-surface datum.
PERIOD OF RECORD.--July 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.32 ft below land-surface datum, Apr. 6, 1984; lowest measured, 33.02 ft below land-surface datum, Feb. 6, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1984	24.58		JAN 11, 1985	29.14		APR 11, 1985	25.08	Z	JUL 05, 1985	22.47	
19	25.18		18	29.13		12	25.07		12	22.77	
26	25.63		25	29.22		19	24.65		19	22.98	
NOV 01	26.11	Z	FEB 01	29.37		26	24.47		26	23.18	
02	26.14		08	29.47		MAY 03	24.33		AUG 02	23.49	
09	26.69		15	29.55		10	23.74		16	23.87	
16	27.25		22	28.93		17	22.95		21	24.18	Z
23	27.61		MAR 01	28.32		24	22.81		23	24.30	
30	27.97		08	27.71		31	22.59		30	24.62	
DEC 07	28.31		15	27.12		JUN 07	22.59		SEP 06	25.30	
14	28.64		23	26.09		14	22.61		13	25.59	
21	28.85		29	25.62		21	22.53		27	20.26	
JAN 04, 1985	29.12		APR 05	25.31		28	22.35				

Z Measured by USGS personnel.



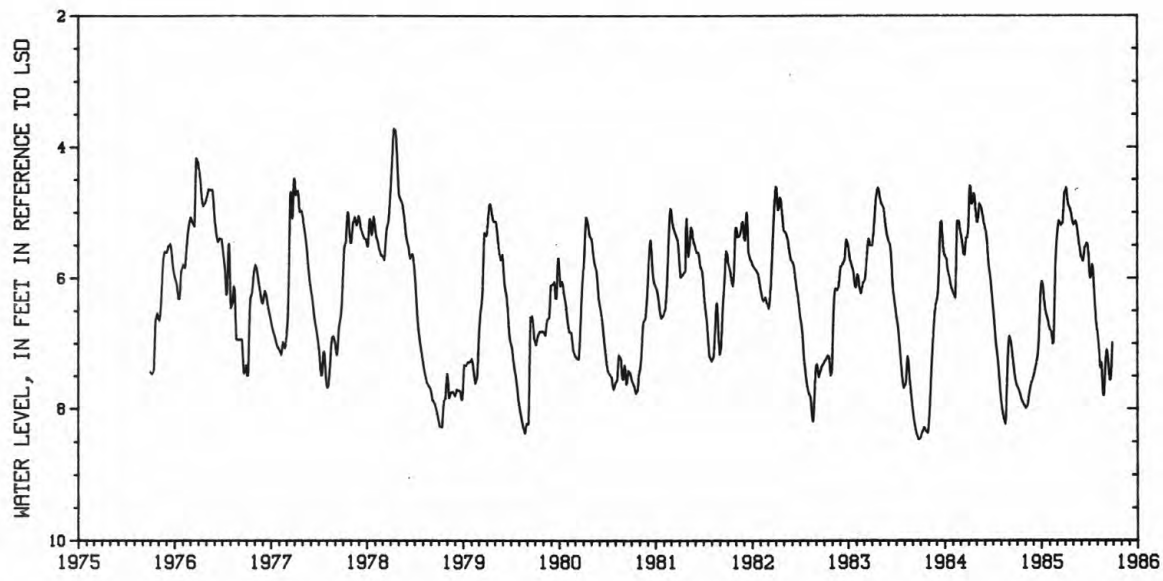
ST. LAWRENCE COUNTY

444904074455201. Local number, St 40.
LOCATION.--Lat 44°49'04", long 74°45'52", Hydrologic Unit 04150306, near Brasher Falls.
Owner: New York State Department of Environmental Conservation.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Dug unused well, diameter 36 in., depth 11.3 ft in June 1984, filled in from original depth of 12 ft, concrete cased to 12 ft, open end.
INSTRUMENTATION.--Tape gage read weekly by observer.
DATUM.--Elevation of land-surface datum is 300 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Chisled mark on top edge of 6-in. by 8-in. opening of concrete well cover, 0.65 ft above land-surface datum.
PERIOD OF RECORD.--May 1953 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.24 ft below land-surface datum, Apr. 21, 1971; lowest measured, 9.38 ft below land-surface datum, Oct. 24, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 07, 1984	7.69	JAN 13, 1985	6.33	APR 21, 1985	4.94	JUL 28, 1985	6.62	
14	7.78	20	6.54	28	5.08	AUG 04	6.87	
21	7.88	27	6.65	MAY 05	5.19	11	7.18	
28	7.94	FEB 03	6.78	12	5.14	15	7.37	Z
NOV 04	7.99	10	6.83	19	5.27	18	7.30	
10	7.96	17	6.99	26	5.49	25	7.79	
18	7.74	24	5.94	JUN 02	5.67	SEP 01	7.46	
25	7.60	MAR 03	5.36	09	5.74	08	7.10	
DEC 02	7.52	10	5.13	16	5.54	15	7.36	
09	7.40	17	5.19	23	5.47	22	7.55	
16	7.26	24	5.16	30	5.60	29	6.99	
23	6.97	31	4.70	JUL 07	6.00			
30	6.27	APR 07	4.63	14	5.80			
JAN 06, 1985	6.06	14	4.88	21	6.14			

Z Measured by USGS personnel.

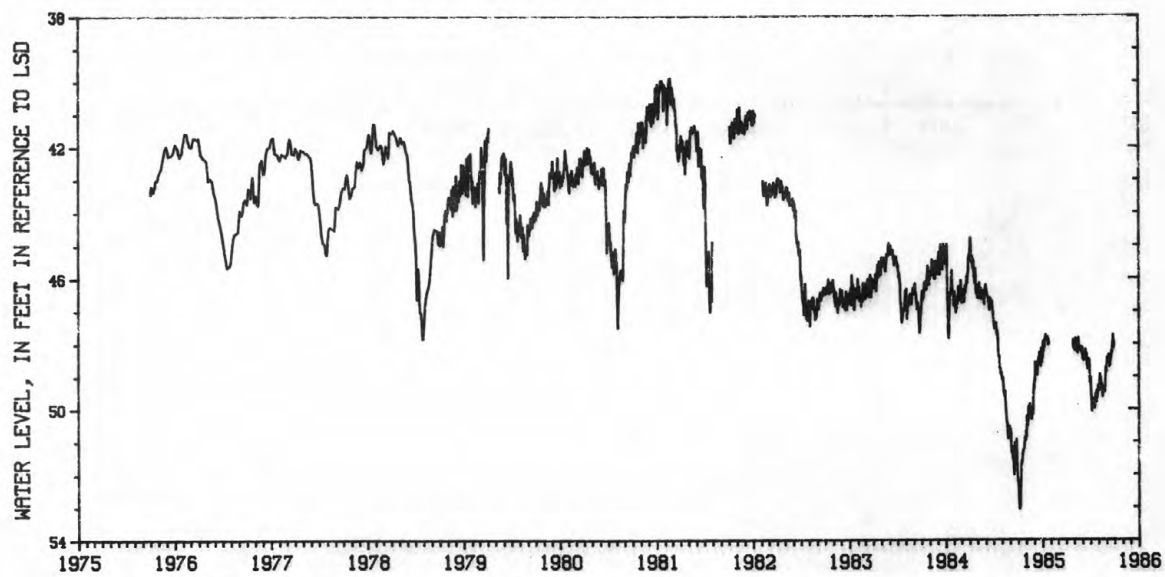


430327073475401. Local number, Sa 529.
LOCATION.--Lat 43°03'27", long 73°47'54", Hydrologic Unit 02020003, at Saratoga Springs.
Owner: Saratoga Springs Authority, New York State.
AQUIFER.--Confined aquifer in dolomite of Ordovician age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in., depth 304 ft, cased to 189 ft, open hole.
INSTRUMENTATION.--Water-stage recorder--15-minute punch.
DATUM.--Elevation of land-surface datum is 305 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.38 ft above land-surface datum.
REMARKS.--Water level affected by earthquakes and distant pumping.
PERIOD OF RECORD.--May 1949 to November 1961, August 1964 to current year. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 39.70 ft below land-surface datum, Jan. 7, 1981; lowest, 56.20 ft below land-surface datum, July 29, 1949.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.23	50.89	49.29	48.31			---	48.07	48.13	49.18	49.29	48.86
2	52.26	50.67	49.40	48.30			---	48.21	48.34	49.09	49.35	48.74
3	52.22	50.85	49.15	48.41			---	48.14	48.38	49.04	49.37	48.62
4	52.48	50.64	49.08	48.06			---	48.09	48.48	49.24	49.39	48.42
5	52.77	50.22	49.14	47.94			---	47.98	48.44	49.52	49.44	48.48
6	53.02	50.22	48.57	48.20			---	47.89	48.40	49.60	49.26	48.47
7	53.06	50.42	48.65	48.03			---	47.84	48.51	49.85	49.04	48.58
8	53.02	50.50	48.63	47.92			---	48.07	48.40	50.07	48.94	48.53
9	52.95	50.34	48.82	47.99			---	48.17	48.38	49.92	49.05	48.45
10	52.66	50.10	48.66	48.11			---	48.05	48.41	49.85	49.01	48.34
11	52.40	49.94	48.65	47.94			---	48.15	48.40	49.94	49.08	48.46
12	52.15	49.91	48.59	47.82			---	48.24	48.18	49.98	49.30	48.59
13	51.92	49.93	48.64	47.79			---	48.19	48.19	49.91	49.28	48.70
14	51.70	50.06	48.96	47.73			---	48.24	48.37	49.77	49.23	48.69
15	51.58	50.06	48.82	47.85			---	48.29	48.46	49.69	49.27	48.64
16	51.61	49.85	48.72	---			---	48.08	48.34	49.75	49.40	48.52
17	51.63	50.00	48.51	---			---	47.86	48.30	49.94	49.54	48.43
18	51.53	50.03	48.53	---			---	47.82	48.46	49.98	49.62	48.46
19	51.38	50.03	48.44	47.80			---	48.10	48.56	49.90	49.45	48.44
20	51.31	50.15	48.43	47.82			---	48.21	48.63	49.73	49.36	48.30
21	51.28	50.28	48.61	47.80			---	48.20	48.76	49.70	49.33	48.23
22	51.24	50.31	48.27	47.84			---	48.21	48.77	49.55	49.41	48.29
23	51.23	50.01	48.52	48.01			---	48.20	48.67	49.65	49.46	48.22
24	51.21	49.95	48.37	48.04			---	48.17	48.53	49.80	49.48	47.99
25	51.19	50.06	48.44	47.88			---	48.10	48.48	49.76	49.45	48.01
26	51.03	50.11	48.65	47.98			47.89	48.16	48.51	49.45	49.47	48.05
27	51.02	50.15	48.69	47.99			47.99	48.10	48.58	49.49	49.36	47.73
28	50.87	49.99	48.34	---			48.04	48.11	48.51	49.67	49.13	47.99
29	50.89	49.51	48.15	---			48.13	48.24	48.66	49.61	48.98	48.12
30	50.94	49.44	48.45	---			48.04	48.28	49.02	49.50	48.73	47.94
31	50.95	---	48.58	---			---	48.17	---	49.42	48.74	---

WTR YEAR 1985 HIGHEST RECORDED 47.40 Sept. 27, 1985 LOWEST 53.12 Oct. 7, 1984



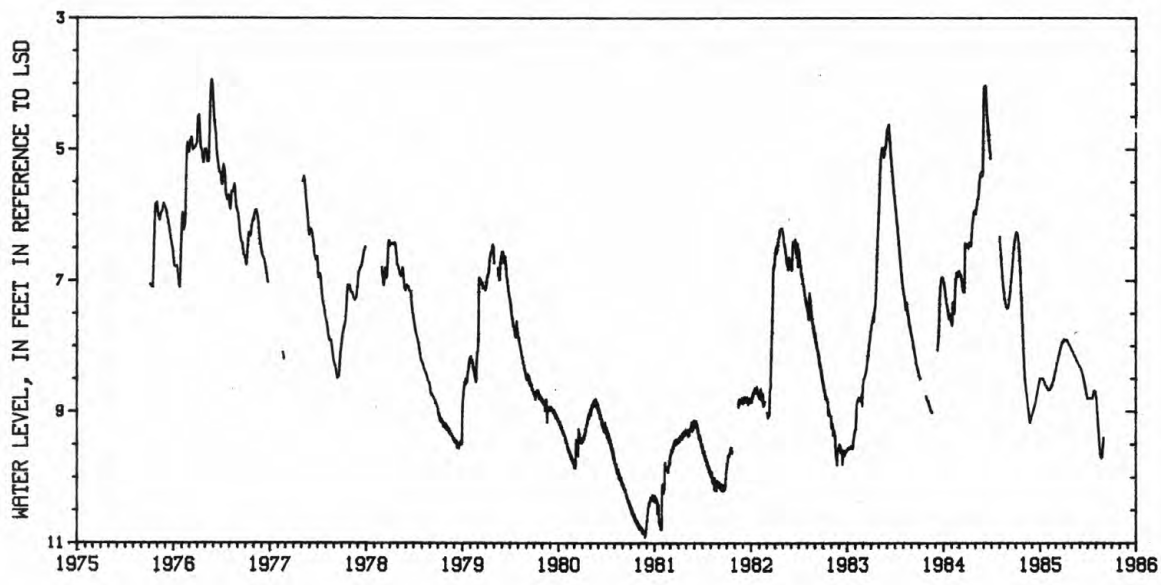
SARATOGA COUNTY

430013073370401. Local number, Sa 1072.
LOCATION.--Lat 43°00'13", long 73°37'04", Hydrologic Unit 02020003, Saratoga National Historical Park near Stillwater.
Owner: U.S. National Park Service.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 24 ft, cased to 21 ft, 2-in. well point (30-gauze screen 21 ft to 24 ft).
INSTRUMENTATION.--Monthly tape measurement by observer.
DATUM.--Elevation of land-surface datum is 223.8 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.31 ft above land-surface datum.
REMARKS.--Water level affected by adjacent wells pumping.
PERIOD OF RECORD.--July 1959 to current year. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.94 ft below land-surface datum, May 25, 1976; lowest, 11.91 ft below land-surface datum, Oct. 8, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 11, 1984	6.37		APR 03, 1985	7.90		JUN 14, 1985	8.45	Z	AUG 01, 1985	8.70	
NOV 06	8.52	Z	23	7.98	Z	JUL 01	8.80		27	9.66	Z
JAN 02, 1985	8.50		MAY 31	8.30		19	8.80	Z	SEP 01	9.40	
FEB 03	8.67										

Z Measured by USGS personnel.



SARATOGA COUNTY

425242073473201. Local number, Sa 1100.
LOCATION.--Lat 42°52'42", long 73°47'32", Hydrologic Unit 02020004, near Clifton Park.
Owner: Country Knolls Water Works.
AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in., depth 179 ft, cased to 179 ft, open end.
INSTRUMENTATION.--Tape measurement by USGS personnel. Converted to water-stage type F recorder August 29, 1984, and water-stage digital recorder January 24, 1985.
DATUM.--Elevation of land-surface datum is 248 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 3.00 ft above land-surface datum.
REMARKS.--Water level affected by pumping from nearby public-supply well.
PERIOD OF RECORD.--April 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 45.62 ft below land-surface datum, Sept. 5, 1984; lowest recorded, 80.19 ft below land-surface datum, Aug. 21, 1985.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, APRIL 1983 TO SEPTEMBER 1983

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR 27, 1983	48.26	MAY 25, 1983	48.65	JUL 27, 1983	58.10	AUG 29, 1983	56.25
MAY 11	48.28	JUN 29	51.52	AUG 10	59.63	SEP 28	56.63

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26, 1983	54.38 S	FEB 28, 1984	67.08 S	JUN 27, 1984	69.52 S	SEP 10, 1984	57.67
NOV 28	62.08 S	MAR 27	70.00 S	AUG 29	55.79 S	20	58.42 S
JAN 04, 1984	67.28 S	APR 26	47.87 S	31	47.52	25	67.92
30	68.63 S	JUN 08	71.43 S	SEP 05	45.62		

S Steel tape measurement.

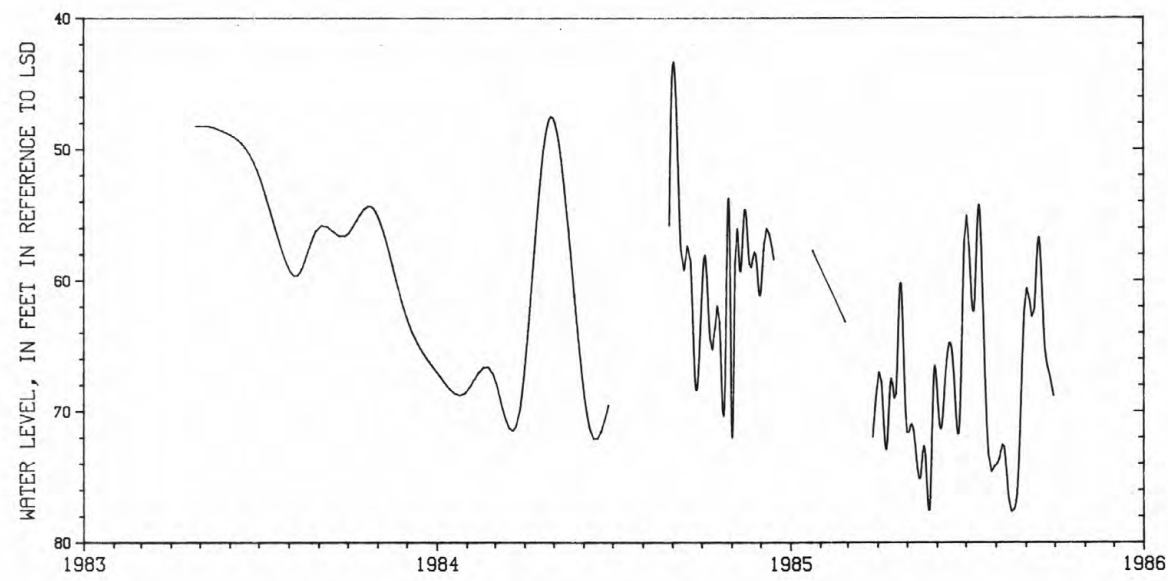
SARATOGA COUNTY

425242073473201. Local number, Sa 1100, continued.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		68.87 S				---	67.73	68.64	68.21	61.72	66.64	60.47
2						---	67.61	68.12	68.92	60.77	67.97	58.90
3						---	66.79	70.18	71.07	57.16	71.93	61.31
4	58.32 S					---	66.98	69.06	72.64	57.07	70.31	63.81
5	58.07	58.67	57.17			---	67.70	71.09	71.32	57.49	73.62	61.44
6						---	67.09	68.58	64.91	55.49	73.67	60.73
7						---	67.66	70.44	63.93	50.10	74.14	60.22
8						---	69.28	71.70	65.68	49.28	69.27	60.10
9						---	68.25	70.29	65.83	59.36	70.24	64.77
10	64.44	59.20	56.37			---	72.95	72.51	67.52	62.09	72.71	62.28
11						---	67.78	74.74	71.32	60.75	74.36	59.57
12						---	66.04	75.20	69.14	59.56	74.16	57.13
13						---	65.25	74.60	62.18	54.98	74.72	57.56
14						---	65.28	76.33	62.58	52.92	75.57	54.86
15	63.75	54.64	58.37 E			---	67.52	75.09	64.75	54.26	76.80	56.72
16						---	68.23	74.50	65.95	55.12	76.11	63.76
17						---	68.05	72.93	63.57	53.91	75.85	61.56
18						---	70.51	73.32	65.80	55.80	77.16	61.64
19						---	69.80	72.12	67.00	60.61	77.50	64.24
20	63.21	58.73				---	68.66	72.90	68.24	63.93	77.47	63.75
21						---	69.80	77.30	68.83	67.50	79.16	67.34
22						---	70.85	76.78	67.55	68.29	78.98	67.82
23						---	69.27	76.26	68.31	70.22	78.16	69.86
24				57.69 S		---	63.87	76.70	71.55	73.12	77.51	70.34
25	69.18	57.85				---	60.18	77.22	70.84	73.37	74.21	66.99
26						---	62.59	---	67.35	70.72	69.97	66.68
27					63.16 S	72.00 S	63.14	---	61.07	68.46	69.33	65.71
28		59.25 S				68.63	65.39	---	58.16	68.43	65.84	65.41
29						67.22	65.74	---	56.28	71.94	62.53	68.90
30		61.07				67.34	69.99	66.53 S	56.97	74.35	63.40	68.81
31	59.95 S					68.46	---	66.87	---	74.20	62.10	---

S Steel tape measurement.
E Estimate.

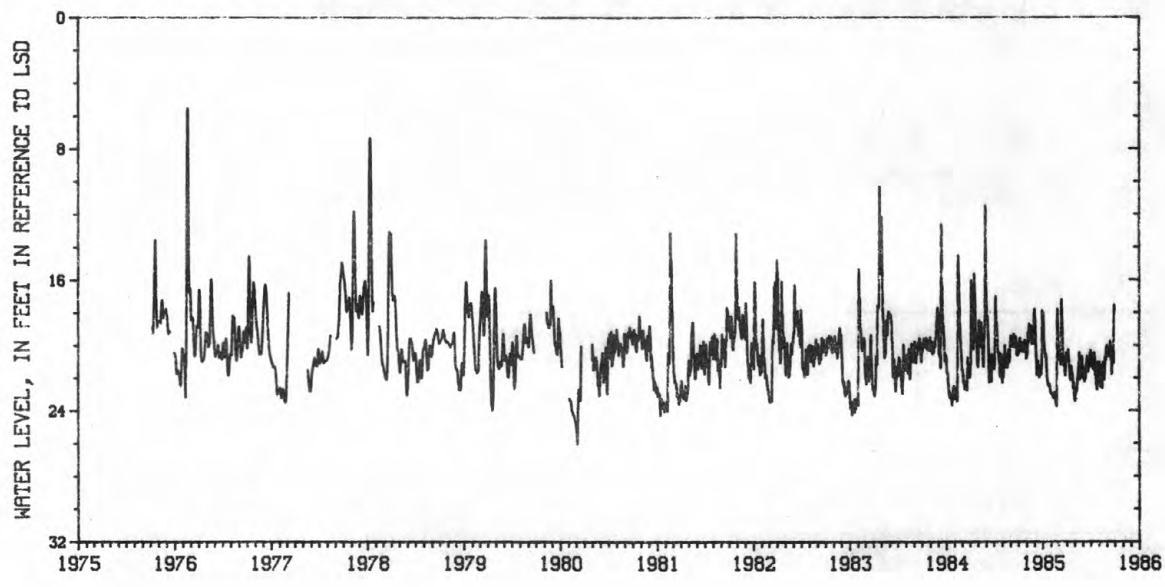


424910073591401. Local number, Sn 363.
LOCATION.--Lat 42°49'10", long 73°59'14", Hydrologic Unit 02020004, in Schenectady.
Owner: City of Schenectady.
AQUIFER.--Water-table aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 54.5 ft in April 1980, filled in from original depth of 57 ft, cased to 57 ft, open end.
INSTRUMENTATION.--Water-stage recorder--15-minute punch.
DATUM.--Elevation of land-surface datum is 228.50 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top of casing, 2.47 ft above land-surface datum.
REMARKS.--Water level affected by stage of Mohawk River, and by pumping (average 15.4 Mgal/d in 1985) from adjacent municipal well field. Well was drilled June 1960 as a replacement for 424926073592201 (local number Sn 128), located 1,540 ft northwest, which has a period of record from April 1946 to March 1961.
PERIOD OF RECORD.--June 1960 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 3.62 ft below land-surface datum, Dec. 27, 1973; lowest, 31.27 ft below land-surface datum, Feb. 10, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.13	20.79	17.86	18.08	22.88	19.31	20.62	22.99	21.55	20.32	21.35	20.23
2	20.35	20.62	17.79	18.08	22.95	20.00	20.77	23.26	21.26	20.93	21.09	20.00
3	20.28	20.67	18.17	18.04	22.89	20.40	20.80	23.36	21.71	21.11	21.05	20.10
4	20.48	20.30	18.43	18.41	22.92	20.64	20.56	23.41	21.90	20.85	21.12	20.27
5	19.94	20.45	18.51	18.81	22.99	20.87	20.93	23.08	22.04	21.11	21.20	20.66
6	19.77	19.79	19.29	19.56	23.00	20.90	20.84	22.90	21.98	21.30	22.12	20.42
7	19.63	19.22	20.06	19.84	23.00	20.81	20.36	22.75	21.88	20.52	22.57	20.27
8	19.56	19.59	20.36	20.25	23.08	20.70	20.28	22.78	22.22	20.53	21.75	20.32
9	20.22	19.81	20.65	20.24	23.14	20.70	20.59	22.76	22.12	21.02	21.25	20.24
10	20.04	19.61	21.04	20.47	23.10	20.90	20.87	22.82	21.54	21.13	21.73	20.33
11	19.97	18.90	21.59	20.71	23.22	21.17	20.91	22.64	21.90	21.24	21.80	20.26
12	20.29	18.71	21.83	20.52	23.25	20.75	21.40	22.38	22.01	21.48	21.95	20.68
13	20.07	18.87	21.81	20.73	23.15	17.74	21.47	22.02	21.65	21.10	21.97	20.11
14	20.30	19.08	21.55	20.56	23.05	17.21	21.69	21.92	21.23	20.74	22.32	20.03
15	20.14	19.35	20.98	20.78	22.96	17.71	21.94	21.82	21.10	20.46	22.64	19.75
16	20.39	19.60	21.19	21.14	22.90	18.43	22.08	21.61	20.88	20.76	21.94	20.34
17	20.19	19.23	21.26	21.63	22.93	19.14	22.15	21.41	20.91	20.86	21.17	20.12
18	19.82	18.80	21.57	21.89	23.06	19.71	21.91	21.09	20.69	21.55	21.06	20.92
19	19.85	18.93	21.79	22.05	23.26	20.21	21.28	20.45	20.88	21.80	21.21	20.93
20	19.92	19.12	21.97	22.13	23.50	20.62	21.33	21.21	20.86	21.87	21.20	21.76
21	20.32	19.41	21.91	22.28	23.53	20.92	21.60	21.87	21.03	21.74	21.82	21.23
22	20.36	19.92	21.86	22.43	23.62	21.16	21.80	22.13	21.62	22.06	21.78	20.89
23	20.41	19.41	21.65	22.48	23.73	21.30	21.74	21.97	21.43	22.38	22.11	20.52
24	20.28	19.68	21.69	22.44	23.20	21.21	21.86	21.78	21.41	22.33	21.69	20.43
25	20.03	19.50	21.32	22.44	20.25	21.21	22.06	21.91	21.34	22.69	21.19	20.36
26	19.91	19.81	21.71	22.52	17.80	21.44	22.39	21.97	21.33	22.71	20.72	20.58
27	19.70	19.89	21.78	22.39	17.91	21.71	22.68	21.63	21.04	21.45	20.73	21.07
28	19.98	19.32	21.50	22.47	18.70	21.86	22.59	21.00	20.88	21.21	20.80	18.59
29	20.12	18.93	21.21	22.56	---	21.67	22.31	20.67	20.47	21.06	20.91	17.56
30	20.15	18.49	19.15	22.66	---	21.15	22.67	20.80	20.37	21.93	20.69	17.86
31	20.21	---	17.89	22.81	---	20.46	---	21.38	---	22.27	20.14	---

WTR YEAR 1985 HIGHEST 16.99 Mar. 14, 1985 LOWEST 23.77 Feb. 23, 1985

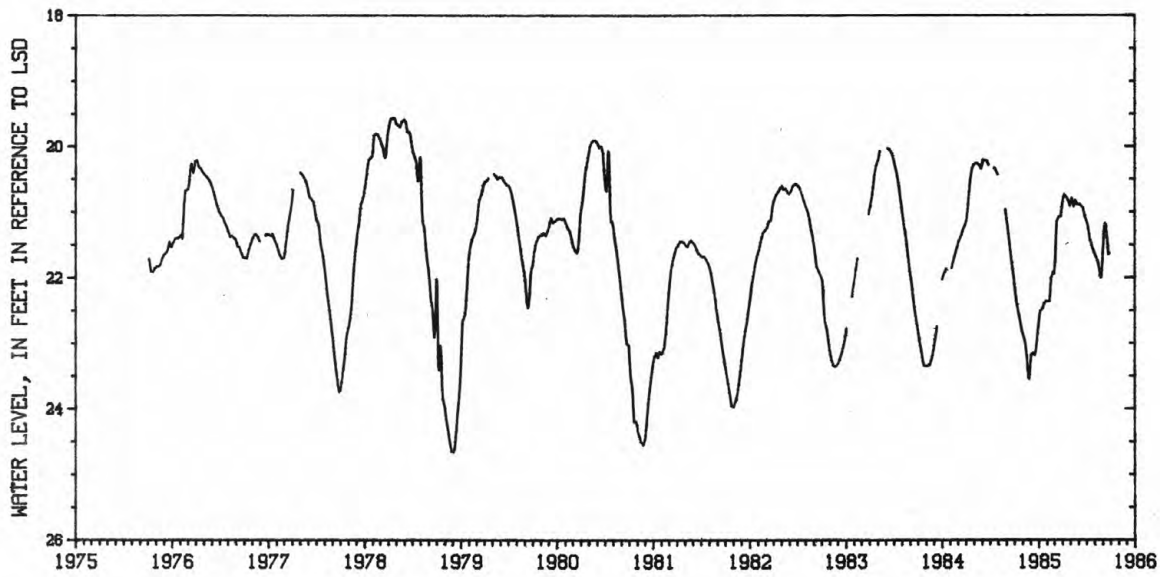


ULSTER COUNTY

414425074213601. Local number, U 204.
LOCATION.--Lat 41°44'25", long 74°21'36", Hydrologic Unit 02020007, near Napanoch.
Owner: New York State Department of Correction.
AQUIFER.--Water-table aquifer in deposits of Pleistocene age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 8 in., depth 46 ft, cased to unknown depth, filled in from original depth of 67 ft.
INSTRUMENTATION.--Tape gage read weekly by observer.
DATUM.--Elevation of land-surface datum is 300 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 1.00 ft above land-surface datum.
PERIOD OF RECORD.--October 1954 to current year. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.84 ft below land-surface datum, Mar. 24, 1955; lowest measured, 26.90 ft below land-surface datum, Dec. 29, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 1984	22.09	JAN 22, 1985	22.40	APR 16, 1985	20.78	JUL 09, 1985	21.25
09	22.34	29	22.36	23	20.82	16	21.43
23	22.65	FEB 05	22.36	30	20.91	23	21.51
30	22.81	12	22.36	MAY 07	20.80	30	21.61
NOV 06	22.90	19	22.00	14	20.92	AUG 06	21.67
20	23.31	26	21.92	21	20.83	13	21.74
27	23.55	MAR 05	21.82	28	20.89	20	21.87
DEC 04	23.18	12	21.14	JUN 05	20.89	27	22.00
12	23.15	19	21.08	12	20.91	SEP 03	21.60
18	23.18	26	21.07	18	20.94	10	21.18
JAN 01, 1985	22.74	APR 02	20.86	25	21.07	17	21.31
08	22.51	09	20.74	JUL 02	21.14	24	21.64
15	22.48						



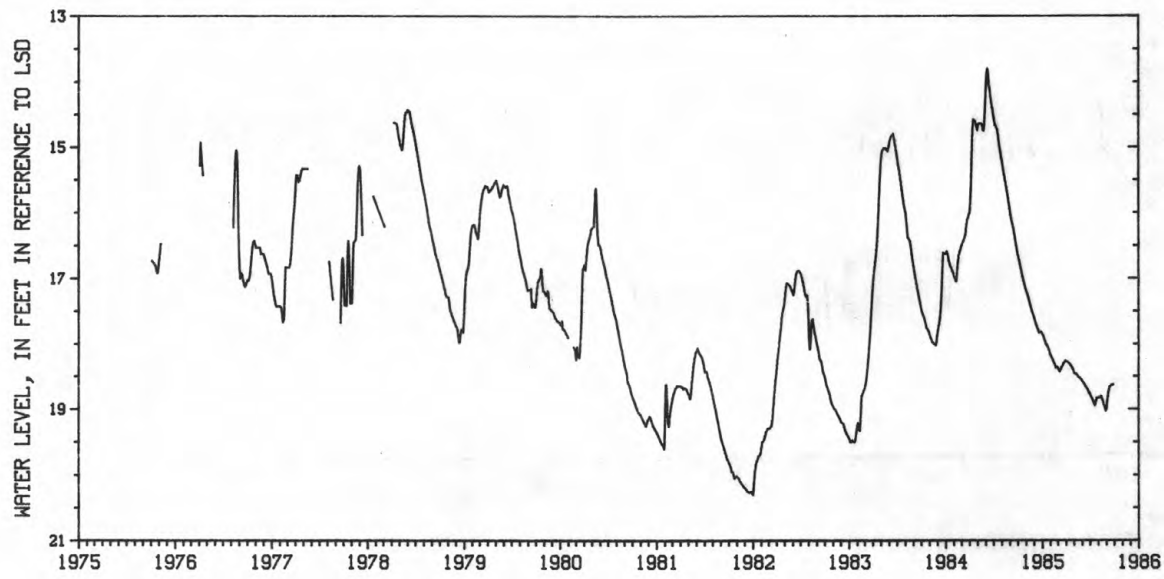
ULSTER COUNTY

414948074035101. Local number, U 405.
LOCATION.--Lat 41°49'48", long 74°03'51", Hydrologic Unit 02020007, Grist Mill Road, Tillson.
Owner: City School District of Kingston.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Bored observation well, diameter 2.5 in., depth 36 ft, cased to 34 ft, 2-in. well point (60-gauze screen 34 ft to 36 ft).
INSTRUMENTATION.--Weekly tape measurement by observer.
DATUM.--Elevation of land-surface datum is 240 ft above National Geodetic Vertical Datum of 1929, from topographic map. Measuring point: Top of casing, 0.47 ft above land-surface datum.
REMARKS.--Originally a dug well, diameter 36 in., depth 21 ft, stone-lined. Well deepened by power auger, October 1965.
PERIOD OF RECORD.--October 1964 to July 1965, March 1966 to December 1974, April 1976 to current year. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.80 ft below land-surface datum, June 9, 1984; lowest measured, 20.71 ft below land-surface datum, Jan. 24, 1967.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 06, 1984	16.72		JAN 18, 1985	18.02	Z	APR 13, 1985	18.30		JUL 13, 1985	18.88	
13	16.85		19	18.01		20	18.34		20	18.95	
20	16.98		26	18.08		27	18.39		24	18.88	Z
27	17.09		FEB 02	18.17		MAY 04	18.46		27	18.84	
NOV 03	17.20		09	18.23		11	18.47		AUG 03	18.83	
10	17.29		16	18.30		18	18.51		10	18.83	
17	17.40		23	18.37		23	18.53	Z	14	18.81	Z
24	17.50		27	18.36	Z	25	18.53		17	18.85	
DEC 01	17.58		MAR 02	18.38		JUN 01	18.57		24	18.94	
08	17.68		09	18.43		08	18.61		31	19.03	
15	17.76		16	18.37		15	18.66		SEP 07	18.82	
22	17.83		23	18.31		22	18.70		14	18.67	
29	17.82		30	18.27		28	18.76	Z	21	18.64	
JAN 05, 1985	17.87		APR 06	18.28		29	18.75		28	18.63	
12	17.95		11	18.29	Z	JUL 06	18.82				

Z Measured by USGS personnel.



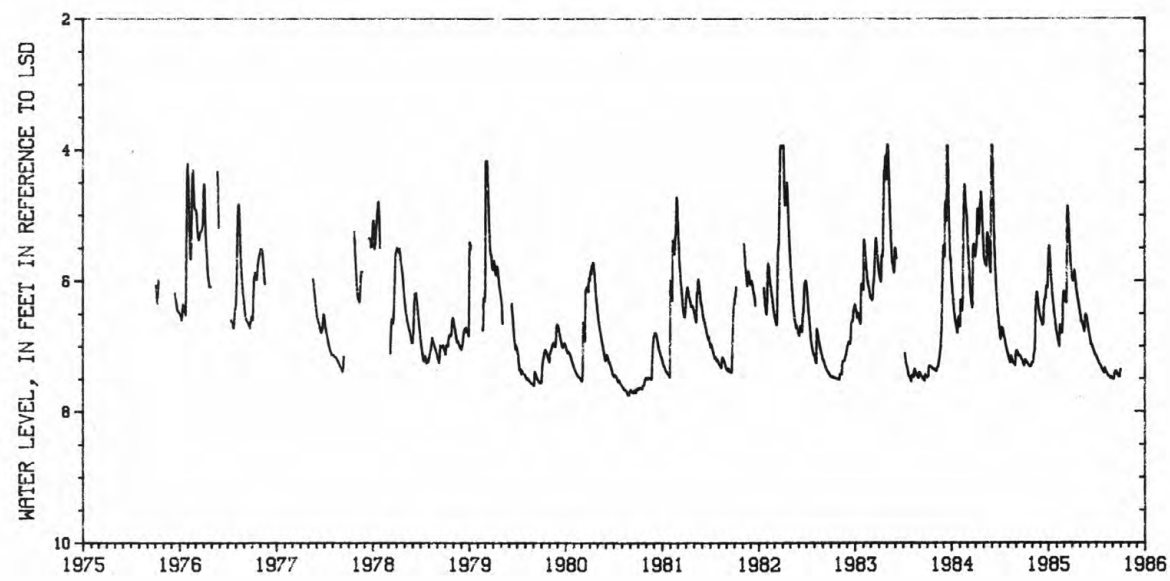
WASHINGTON COUNTY

431030073192101. Local number, W 533.
LOCATION.--Lat 43°10'30", long 73°19'21", Hydrologic Unit 02020003, in Salem.
Owner: Salem Central High School.
AQUIFER.--Water-table aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 15 ft, cased to 16 ft, open end. Well backfilled 1.6 ft with coarse gravel.
INSTRUMENTATION.--Water-stage recorder--hourly punch.
DATUM.--Elevation of land-surface datum is 489.5 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.10 ft above land-surface datum.
REMARKS.--Well was drilled March 1974 as a replacement for 431032073192401 (local number W 532), located 350 ft northwest, which has a period of record from October 1965 to June 1973 (unpublished).
PERIOD OF RECORD.--March 1974 to current year. Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 3.92 ft below land-surface datum, May 3, 4-5, 6, 1983; lowest recorded, 7.75 ft below land-surface datum, Aug. 26, 27-29, 30, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.30	7.25	6.54	5.72	6.78	6.16	5.96	6.50	6.73	7.16	7.34	7.50
2	7.28	7.25	6.55	5.59	6.80	6.17	5.98	6.53	6.76	7.17	7.33	7.50
3	7.24	7.25	6.57	5.49	6.82	6.19	5.99	6.55	6.79	7.18	7.34	7.51
4	7.22	7.25	6.59	5.46	6.85	6.23	6.00	6.59	6.81	7.19	7.36	7.51
5	7.21	7.23	6.60	5.48	6.87	6.26	5.98	6.61	6.84	7.20	7.37	7.51
6	7.21	7.17	6.61	5.55	6.89	6.29	5.95	6.63	6.86	7.21	7.39	7.49
7	7.21	7.13	6.62	5.60	6.91	6.31	5.89	6.61	6.88	7.22	7.40	7.43
8	7.22	7.10	6.64	5.67	6.93	6.32	5.85	6.62	6.90	7.23	7.40	7.42
9	7.23	7.08	6.66	5.75	6.95	6.33	5.84	6.63	6.92	7.24	7.41	7.41
10	7.23	7.06	6.67	5.83	6.97	6.33	5.87	6.65	6.94	7.25	7.42	7.39
11	7.24	7.03	6.68	5.91	6.98	6.30	5.91	6.67	6.97	7.26	7.43	7.38
12	7.25	6.90	6.66	5.96	7.00	5.71	5.95	6.68	6.98	7.27	7.43	7.38
13	7.25	6.63	6.64	6.01	6.80	5.05	5.99	6.70	6.97	7.27	7.44	7.38
14	7.26	6.41	6.52	6.06	6.67	4.90	6.03	6.72	6.98	7.28	7.45	7.38
15	7.26	6.31	6.42	6.12	6.68	4.86	6.07	6.74	6.99	7.29	7.46	7.39
16	7.27	6.24	6.36	6.18	6.70	4.89	6.11	6.76	7.01	7.29	7.45	7.40
17	7.28	6.19	6.31	6.24	6.71	4.94	6.15	6.77	7.02	7.29	7.46	7.41
18	7.28	6.17	6.28	6.28	6.73	5.03	6.18	6.71	7.03	7.30	7.46	7.42
19	7.29	6.18	6.26	6.32	6.75	5.13	6.19	6.58	7.04	7.31	7.47	7.43
20	7.30	6.20	6.25	6.37	6.77	5.21	6.22	6.52	7.06	7.32	7.47	7.44
21	7.30	6.24	6.26	6.42	6.79	5.30	6.25	6.51	7.07	7.33	7.48	7.44
22	7.30	6.28	6.23	6.46	6.78	5.39	6.28	6.51	7.08	7.34	7.48	7.45
23	7.31	6.31	6.14	6.50	6.68	5.46	6.30	6.52	7.09	7.35	7.49	7.46
24	7.31	6.35	6.09	6.53	6.52	5.54	6.32	6.54	7.11	7.36	7.49	7.46
25	7.31	6.39	6.07	6.56	6.35	5.62	6.34	6.56	7.12	7.36	7.49	7.47
26	7.31	6.42	6.07	6.60	6.22	5.70	6.37	6.59	7.13	7.37	7.47	7.47
27	7.30	6.46	6.09	6.64	6.17	5.76	6.39	6.62	7.14	7.38	7.47	7.47
28	7.30	6.48	6.10	6.67	6.16	5.82	6.42	6.64	7.15	7.39	7.48	7.41
29	7.28	6.50	6.07	6.70	---	5.87	6.45	6.66	7.14	7.39	7.49	7.37
30	7.26	6.52	5.91	6.73	---	5.90	6.47	6.68	7.14	7.40	7.50	7.36
31	7.25	---	5.79	6.76	---	5.94	---	6.71	---	7.41	7.50	---

WTR YEAR 1985 HIGHEST 4.86 Mar. 15, 1985 LOWEST 7.51 Sept. 3, 4-5, 6, 1985

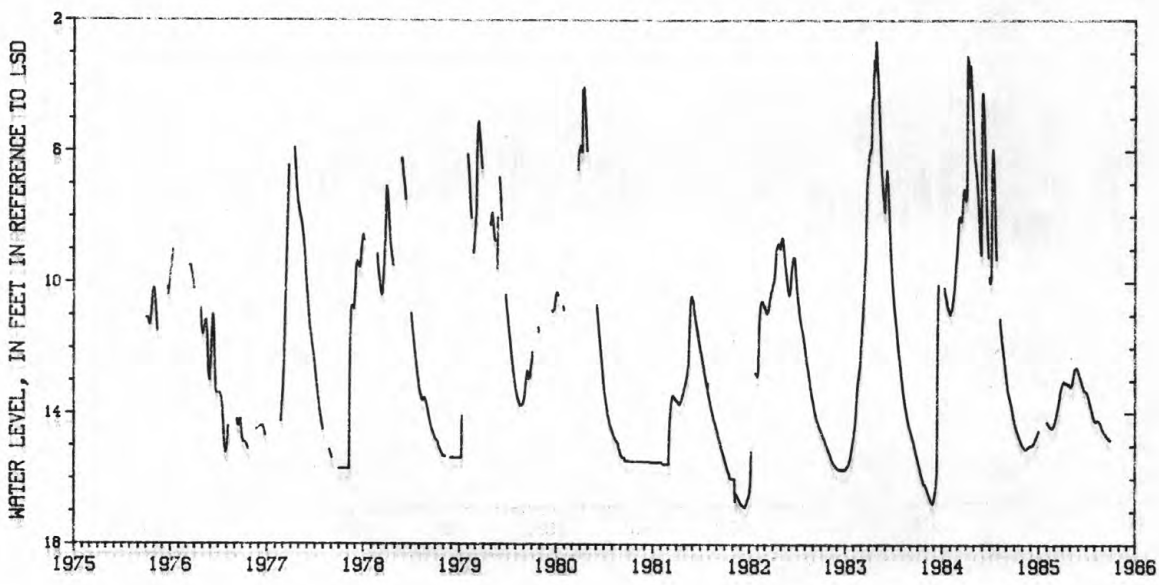


411421073481201. Local number, We 3.
LOCATION.--Lat 41°14'21", long 73°48'12", Hydrologic Unit 02030101, near Yorktown Heights.
Owner: New York City Board of Water Supply.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Dug unused well, diameter 36 in., depth cleaned out to 17.6 ft November 9, 1981, original depth reported to be 18.2 ft, filled in to 17.1 ft as of November 1956, to 16.3 ft as of June 1971, to 15.5 ft as of October 1977, to 15.3 ft as of November 1978, cleaned out to 16.1 ft September 23, 1981, stone lined.
INSTRUMENTATION.--Water-stage recorder--30-minute punch.
DATUM.--Elevation of land-surface datum is 252.5 ft above National Geodetic Vertical Datum of 1929.
Measuring point: Top edge of hole in wooden well cover, 1.13 ft above land-surface datum.
PERIOD OF RECORD.--April 1934 to September 1937, April 1938 to September 1945, March 1951 to current year.
Records prior to October 1976 are unpublished and available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.58 ft below land-surface datum, Apr. 26, 1983; lowest measured, dry Nov. 30, 1935, Jan. 7, 1936, Feb. 1, 1936, Jan. 6 to Feb. 4, 1965, Nov. 12, 1970, Sept. 10 to Nov. 9, 1977, Oct. 30 to Nov. 7, 1978, Nov. 28, 1978 to Jan. 8, 1979, Sept. 6 to 30, 1980, Oct. 1, 1980 to Mar. 3, 1981, Oct. 25 to Nov. 8, 1981.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.26	15.00	14.98	14.55	14.26	14.34	13.10	13.16	12.72	13.35	14.23	14.53
2	14.29	15.01	14.99	---	14.27	14.30	13.08	13.18	12.76	13.36	14.24	14.54
3	14.32	15.03	14.99	---	14.30	14.29	13.06	13.17	12.78	13.36	14.26	14.56
4	14.35	15.04	14.99	---	14.32	14.26	13.05	13.17	12.82	13.39	14.26	14.57
5	14.38	15.05	15.00	---	14.33	14.21	13.04	13.15	12.85	13.42	14.26	14.58
6	14.42	15.06	14.97	---	14.32	14.19	13.02	13.13	12.87	13.44	14.26	14.59
7	14.45	15.07	14.98	---	14.34	14.16	13.03	13.11	12.90	13.47	14.25	14.60
8	14.48	15.08	14.98	---	14.35	14.12	13.02	13.10	12.91	13.50	14.23	14.61
9	14.51	15.09	14.98	---	14.37	14.07	13.04	13.07	12.93	13.52	14.23	14.63
10	14.54	15.09	14.97	---	14.39	14.04	13.05	13.01	12.96	13.55	14.23	14.64
11	14.56	15.09	14.95	---	14.41	14.00	13.05	12.96	12.99	13.59	14.23	14.65
12	14.58	15.10	14.94	---	14.41	13.95	13.06	12.91	13.00	13.64	14.22	14.66
13	14.61	15.10	14.92	---	14.41	13.91	13.07	12.86	13.04	13.67	14.23	14.68
14	14.62	15.10	14.91	---	14.42	13.87	13.07	12.81	13.09	13.70	14.23	14.70
15	14.64	15.10	14.90	---	14.43	13.83	13.05	12.78	13.13	13.73	14.23	14.71
16	14.67	15.08	14.88	---	14.44	13.80	13.04	12.72	13.15	13.76	14.24	14.71
17	14.69	15.08	14.85	---	14.45	13.74	13.08	12.67	13.17	13.80	14.26	14.72
18	14.72	15.07	14.83	---	14.47	13.68	13.08	12.64	13.18	13.84	14.27	14.73
19	14.75	15.06	14.81	---	14.46	13.64	13.07	12.63	13.20	13.87	14.28	14.74
20	14.77	15.06	14.79	---	14.47	13.59	13.09	12.62	13.23	13.90	14.29	14.75
21	14.78	15.06	14.77	---	14.47	13.55	13.09	12.61	13.26	13.93	14.30	14.76
22	14.80	15.05	14.75	---	14.46	13.50	13.09	12.60	13.29	13.96	14.32	14.77
23	14.82	15.03	14.74	---	14.44	13.45	13.11	12.60	13.30	13.99	14.34	14.78
24	14.85	15.02	14.72	---	14.41	13.39	13.12	12.59	13.29	14.04	14.36	14.79
25	14.86	15.02	14.70	---	14.41	13.34	13.09	12.59	13.30	14.06	14.38	14.80
26	14.88	15.02	14.69	---	14.41	13.30	13.11	12.60	13.29	14.09	14.40	14.81
27	14.90	15.02	14.67	---	14.38	13.25	13.12	12.62	13.30	14.11	14.42	14.82
28	14.92	15.00	14.64	---	14.37	13.21	13.13	12.64	13.31	14.14	14.45	14.83
29	14.94	14.99	14.61	---	---	13.17	13.15	12.68	13.32	14.16	14.47	14.83
30	14.97	14.99	14.60	---	---	13.15	13.16	12.71	13.34	14.19	14.49	14.82
31	14.99	---	14.58	14.25	---	13.14	---	12.71	---	14.21	14.51	---

WTR YEAR 1985 HIGHEST 12.59 May 23, 24, 25, 1985 LOWEST 15.10 Nov. 11, 12-14, 15, 1984



October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey
343 U.S. Post Office & Courthouse - P.O. Box 1669
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