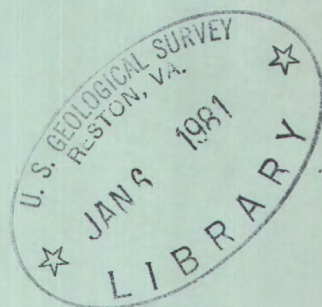


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Water Resources Data for New York

Part 1. Surface Water Records



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

CALENDAR FOR WATER YEAR 1972

OCTOBER 1971

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1972

**Water Resources Data
for
New York**

Part 1. Surface Water Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

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

State Department of Environmental Conservation
State Department of Transportation
State Power Authority
Board of Hudson River-Black River Regulating District
Oswegatchie River-Cranberry Reservoir Commission
Central New York State Parks Commission
County of Chautauqua, Planning Department
County of Cortland, Planning Department
County of Dutchess
County of Nassau, Department of Public Works
County of Onondaga, Department of Public Works
County of Onondaga, Water Authority
County of Orange, Department of Public Works
County of Suffolk, Department of Environmental Control
County of Suffolk, Water Authority
County of Ulster, County Legislature
County of Westchester, Department of Public Works
City of Albany, Department of Water and Water Supply
City of Auburn
City of New York, Board of Water Supply
City of New York, Department of Water Resources
Town of Brighton
Town of Clarkstown
Town of Warwick
Village of Nyack, Board of Water Commissioners
Corps of Engineers, U.S. Army

Water resources records, 1972, for New York are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for New York
Part 1: Surface Water Records
2. Water Resources Data for New York
Part 2: Water Quality Records

Copies of this report may be obtained from:

District Chief, Water Resources Division
U.S. Geological Survey
U.S. Post Office and Court House
P.O. Box 948
Albany, N.Y. 12201

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WATER RESOURCES DATA FOR NEW YORK, 1972

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water records for the 1972 water year for New York, including records of streamflow, reservoir storage or lake elevations at gaging stations, partial record stations, and miscellaneous sites, are given in this report and their locations shown in figures 6-12. Records for a few pertinent gaging stations in bordering states are also included. The records for New York were collected and computed by the Water Resources Division of the U.S. Geological Survey, under the direction of R. J. Dingman, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating state and Federal agencies in New York.

Through September 30, 1960, records of discharge and stage of streams and contents and stage of lakes or reservoirs were published in the series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States."

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited. They are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. The discharge and reservoir storage records for 1961-65 have been published and the 1966-70 will be published in U.S. Geological Survey water-supply paper series entitled "Surface Water Supply of United States 1966-70."

Daily discharge records for 206 gaging stations are given in this report. In addition, daily or monthly data on stage or contents are given for 44 lakes and reservoirs. Results of discharge measurements are listed for 434 sites, 188 of which are low-flow partial-record stations and the remainder, miscellaneous sites. Annual maximum stages and discharges are given for 123 crest-stage partial-record stations.

COOPERATION

The U.S. Geological Survey and organizations of the State of New York have had cooperative agreements for the systematic collection of streamflow records since 1900. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

State Department of Environmental Conservation, H.L. Diamond,
commissioner
State Department of Transportation, R.T. Schuler, commissioner
State Power Authority, J.A. Fitzpatrick, chairman;
Asa George, chief engineer
Board of Hudson River-Black River Regulating District,
Robert Forrest, chief engineer
Oswegatchie River-Cranberry Reservoir Commission, M.R. Miller,
chairman
County of Chautauqua, Planning Department, J.R. Luensman, director
County of Cortland, Planning Department, E.T. Jones, director
County of Dutchess, W.H. Bartles, county executive
County of Nassau, Department of Public Works, J.H. Peters,
commissioner
County of Onondaga, Department of Public Works, U.T. Mann,
commissioner
County of Onondaga, Water Authority Commission, S.E. Pomeroy,
chairman
County of Orange, Department of Public Works, A.H. Peterson,
commissioner
County of Suffolk, Department of Environmental Control, J.M.
Flynn, commissioner
County of Suffolk, Water Authority, W.C. Hazlett, chairman
County of Ulster, County Legislature, P. Savage, chairman
County of Westchester, Department of Public Works, R.A. Dennison
commissioner
City of Albany, Department of Water and Water Supply, W.F.
Devane, commissioner
City of Auburn, B.L. Clifford, city manager
City of New York, Board of Water Supply, V.G. Terenzio,
chief engineer
City of New York, Department of Water Resources, Martin Lang,
commissioner, Abraham Groopman, chief engineer
Town of Brighton, R.D. Wiles, supervisor
Town of Clarkstown, W.E. Vines, supervisor
Town of Warwick, C.B. Rowe, supervisor
Village of Nyack, Board of Water Commissioners, Leonard Cooke,
chairman

Assistance in the form of funds was given by the Corps of Engineers, U.S. Army, in collecting records for 51 gaging stations published in this report.

The following organizations aided in collecting records:

Municipalities of Batavia, Canandaigua, Harrison, Jamestown, Lancaster, Mamaroneck, Oneida, Plattsburgh, Rochester, Rome, Rye, Syracuse, Tarrytown, and Yonkers; Cornell University; Central Hudson Gas & Electric Corporation; Indian River Company; New York State Electric & Gas Corporation; Niagara Mohawk Power Corporation; Rochester Gas & Electric Corporation; Orange and Rockland Utilities Incorporated.

DEFINITION OF TERMS AND ABBREVIATIONS

Definition of terms related to streamflow and other hydrologic data, as used in this report, are defined as follows:

Acre-foot (AC-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 325,851 gallons.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

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.

Cubic foot per second (CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

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.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Drainage area of a stream at a specified 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 stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

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 gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is obtained.

Partial-record station is a particular site where limited stream-flow data are collected systematically over a period of years for use in hydrologic analyses.

Runoff in inches (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.

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

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

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 man-made 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.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report, the rank of tributaries is indicated by indentation. Each indentation represents one rank.

As an added means of identification, each gaging station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Gaps are left in the 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 01357500, includes the part number "01" and a 6-digit station number. In this report the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE-WATER DATA

Collection and computation of data

Base data collected at gaging stations consists 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 a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a tape punched at 15-, 30-, or 60-minute intervals) or from direct readings on a nonrecording gage. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks on the measurement of stream discharge. (See also SELECTED REFERENCES.) Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, 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), velocity-area studies, and logarithmic plotting. The application of the daily mean gage heights to the rating table gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. 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 determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by 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 determining discharge. Information required for determining 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 determining discharge.

At some stream-gaging stations, the stage-discharge relation is affected by ice in the winter and the discharge cannot be computed in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter-discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements. Application of the stage to the capacity table gives the contents from which 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 erroneous owing to the gradual accumulation of sediment.

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; for example, the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well. For such periods, the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1972 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, and general remarks. Location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of types, locations, and datums of previous gages used during the period of record are given under "GAGE." In reference to datum of gage, the phrase "mean sea level" denotes "Sea level datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or the minimum contents), and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "current year:" the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a

water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge or contents, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS;" for reservoir stations information concerning the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. To make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. The paragraph lists all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years, only one number is given; for instance, 1933 stands for the water year October 1, 1932 to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. A revision of drainage area also requires a revision of all figures based on drainage areas, including figures for cubic feet per second per square mile and runoff in inches. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in this annual series of reports.

Skeleton rating tables are published for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage, the discharge is determined from a gage-height graph based on gage readings.

The daily tables for reservoir stations give the contents corresponding to the water-surface elevation at a given time, usually at 2400 each day. For some reservoirs, the elevation at a given time is given in the daily table.

The monthly summary is given below the daily table. For stream-gaging stations 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 of 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 rainfall on the drainage basin is usually less than 20 inches.

For reservoir stations the monthly summary gives the elevation (or gage height) at the end of the month and the change in contents during the month. If elevation or gage height is given in the daily table, the monthly summary gives the contents at the end of the month, rather than the elevation or gage height. For some reservoirs a tabulation of monthly evaporation from the water surface also is included.

In the yearly summary below the monthly summary, the figures following MAX are the maximum daily discharges for the calendar and water years; likewise, those following are the minimum daily discharges.

For reservoir stations the yearly summary gives the change in contents for the calendar year and for the water year. For some reservoirs the yearly evaporation also is included.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330.

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

Accuracy of Data

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

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. 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 effects of diversion, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. 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 unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparison with the observed discharge.

Publications

Each volume of the 1960 series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States" contains a listing of the numbers of all water-supply papers in which records of surface-water data were published for the area covered by the individual volumes. Each volume also contains a list of water-supply papers that give detailed information on major floods for the area. A new series of water-supply papers containing surface-water records for the 5-year period October 1, 1960 to September 30, 1965, includes lists of annual and special reports published as water-supply papers.

Records through September 1950 for the area covered by this report have been compiled and published in Water-Supply Papers 1301(1A), 1302(1B), 1305(3A), and 1307(4); records for October 1950 to September 1960 have been compiled and published in Water-Supply Papers 1721(1A), 1722(1B), 1725(3A), and 1727(4). These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were re-examined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station.

Special reports on major floods or droughts or other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Data collected at partial-record stations and at miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations; the second is a table of annual maximum stage and discharge at crest-stage stations; and the third is a table of discharge 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 given in special tables after the list of measurements at miscellaneous sites.

More detailed information than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Many gaging-station records in New York through 1967 have been analyzed to give several statistical summaries: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on water temperature, and sediment concentration. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

Hydrologic Conditions During 1972

The yearly runoff was much above average over the entire State with the exception of that from Long Island, which was near normal. However, prior to the June flood, runoff was near normal in the western and northern part of the State. The temperature fluctuations during the spring snowmelt period resulted in the above-average snow cover dissipating without causing excessive flooding. June floods began in New York on June 19-20th with a storm in Westchester County preceding tropical storm "Agnes" causing major flooding and flood damage in that area. "Agnes" arrived in south central New York on June 22 and caused an unprecedented flood which exceeded that expected once in a hundred years. The Chemung and Genesee River basins were particularly hard hit with many towns and cities partially inundated. Runoff from the storm kept the storage in the Finger Lakes above normal from mid-June through the end of July. During June, twenty-four stations with 20 years or more of record had peaks which exceeded any previously known.

The figures which follow on the next four pages are daily discharge hydrographs for four gaging stations illustrating the variation in response to the climatic events of the 1972 water year in different regions of the State. The plotted hydrographs (dashed lines) provide a comparison between the streamflow this year and that which has been experienced during a 29-year reference period (1942-70). On each figure, three experience graphs (duration hydrographs) are plotted. They are labeled 80%, 50%, and 20%, and represent the lower limit of mean daily discharge that has been experienced on each date for 80%, 50%, or 20% of the days during the 29 years of the reference period.

To interpret the significance of these graphs consider the day June 30 in figure 1 for Susquehanna River at Conklin. A mean daily discharge of 1,020 cfs or more has been experienced on 50% of the calendar days June 30 during the reference period. Similarly, a discharge of 2,170 cfs or more was experienced on 20% of the June 30ths. The discharge for June 30, 1972, was 6,120 cfs, about three times the discharge which could be expected to be exceeded 80% of the time on this date.

Mean values of streamflow for the 1972 water year can be compared with the average for the period of record by referring to the individual gaging-station records which comprise the principal part of this report. Susquehanna River at Conklin (station 01503000), for example, discharged at an average rate of 4,558 cfs, 29% higher than the 59-year average. For other gaging stations illustrated in the graphs the comparisons are as follows:

Genesee River, 592 cfs, 55% higher than the 56-year average.

West Branch Oswegatchie River, 547 cfs, 10% higher than the 56-year average.

Wappinger Creek, 413 cfs, 72% higher than the 44-year average.

SELECTED REFERENCES

- Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.
- Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

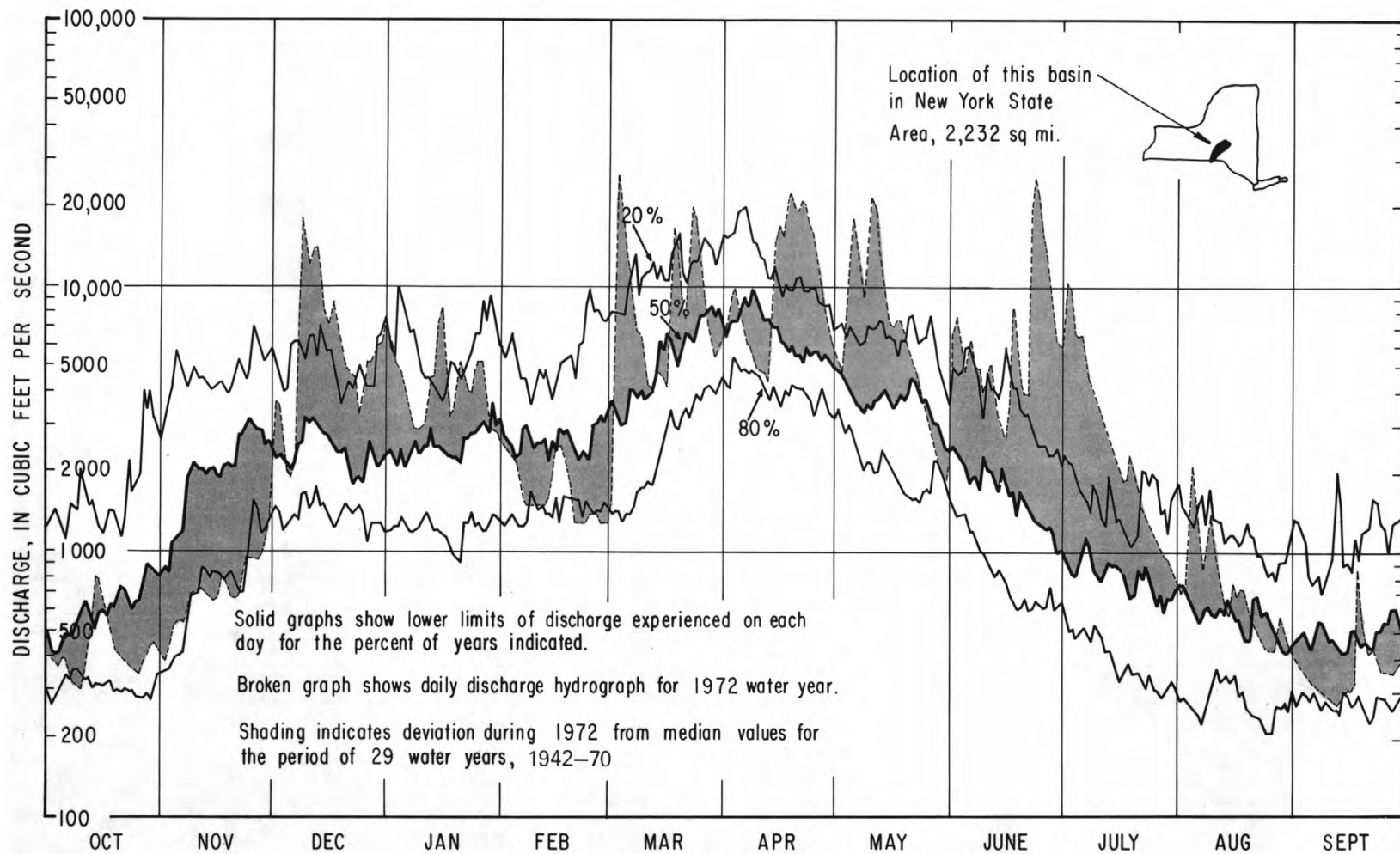


Figure 1 Hydrographic comparisons, Susquehanna River at Conklin, N.Y.

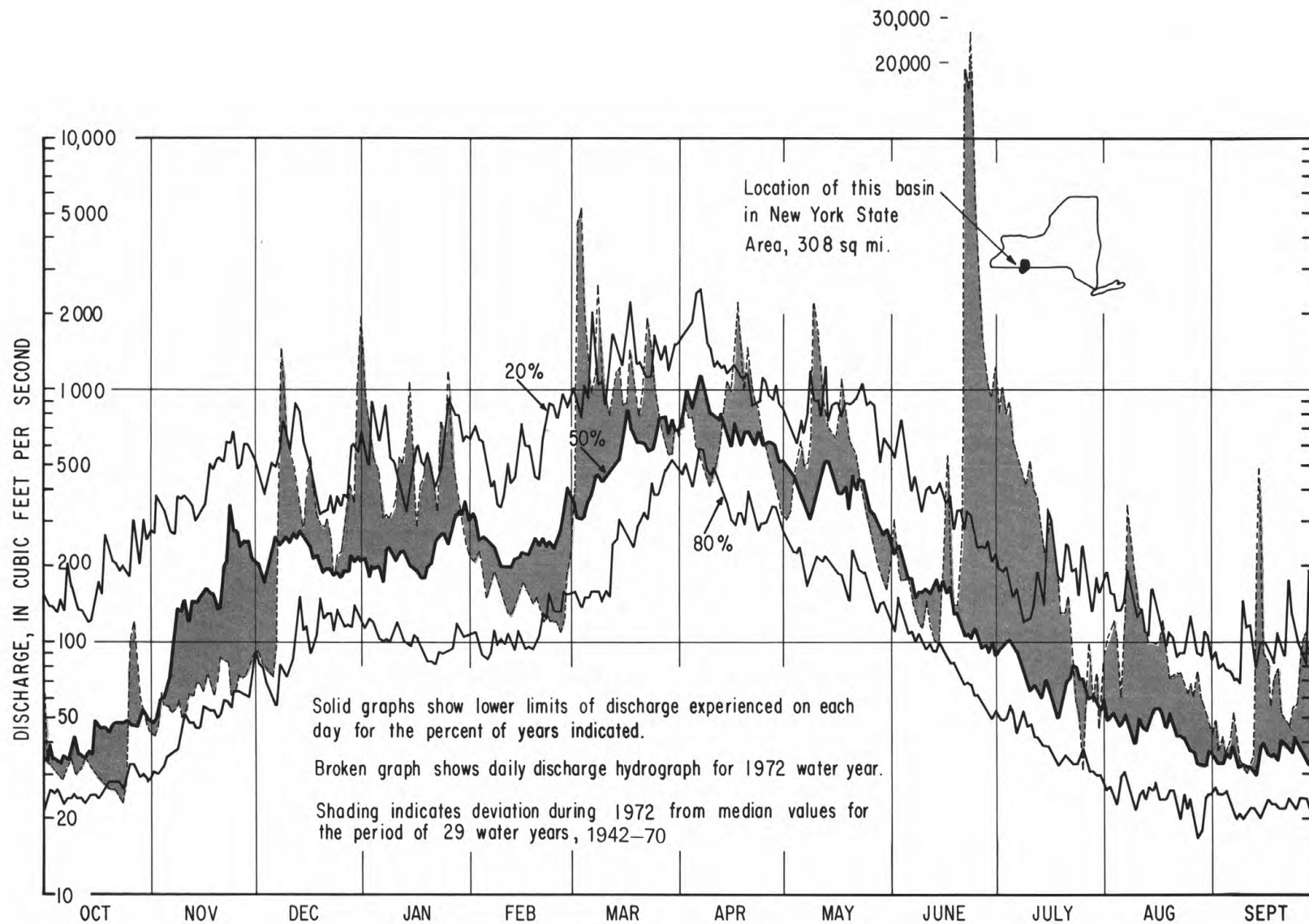


Figure 2 Hydrographic comparisons, Genesee River at Scio, N.Y.

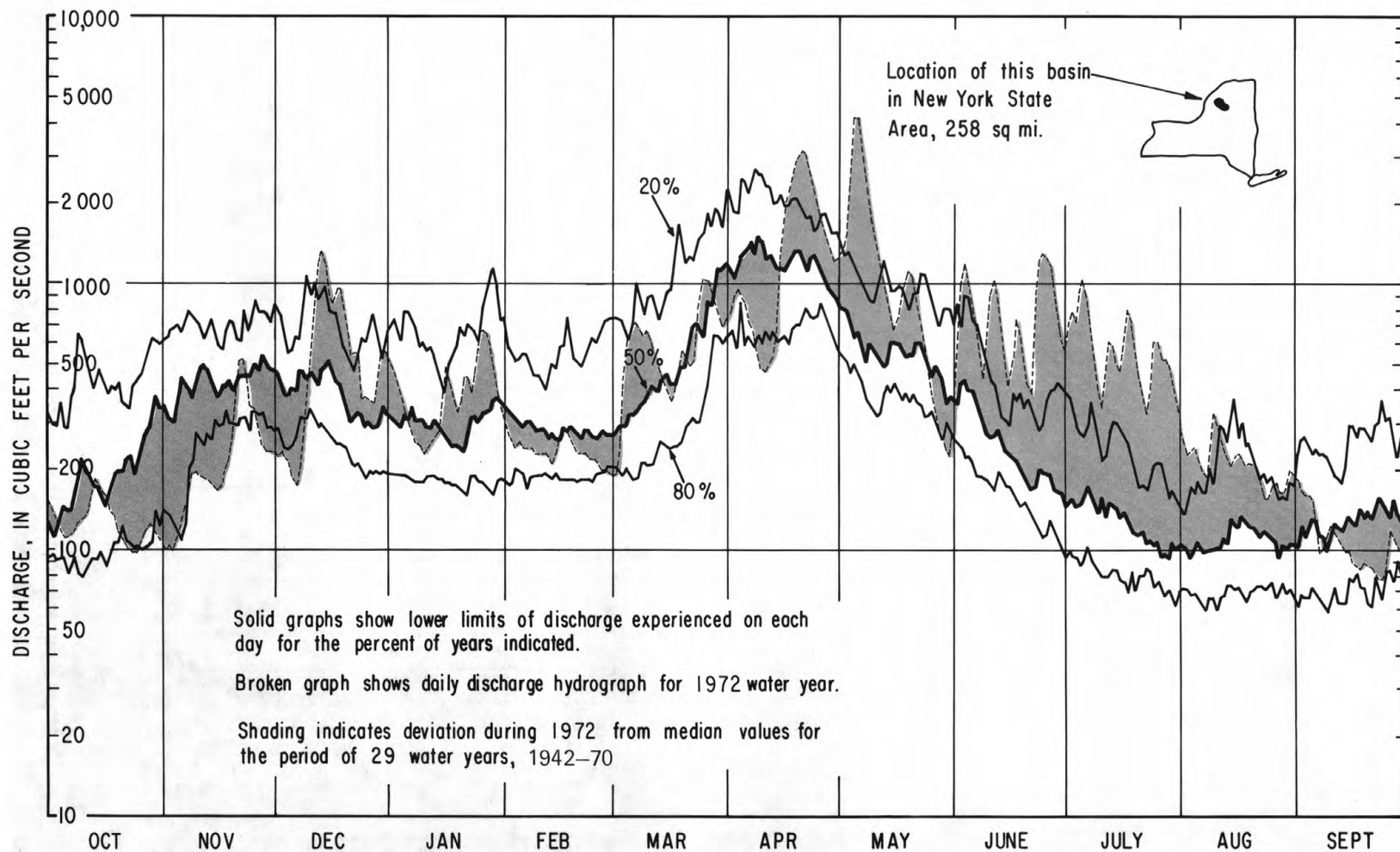


Figure 3 Hydrographic comparisons, West Branch Oswegatchie River near Harrisville, N. Y.

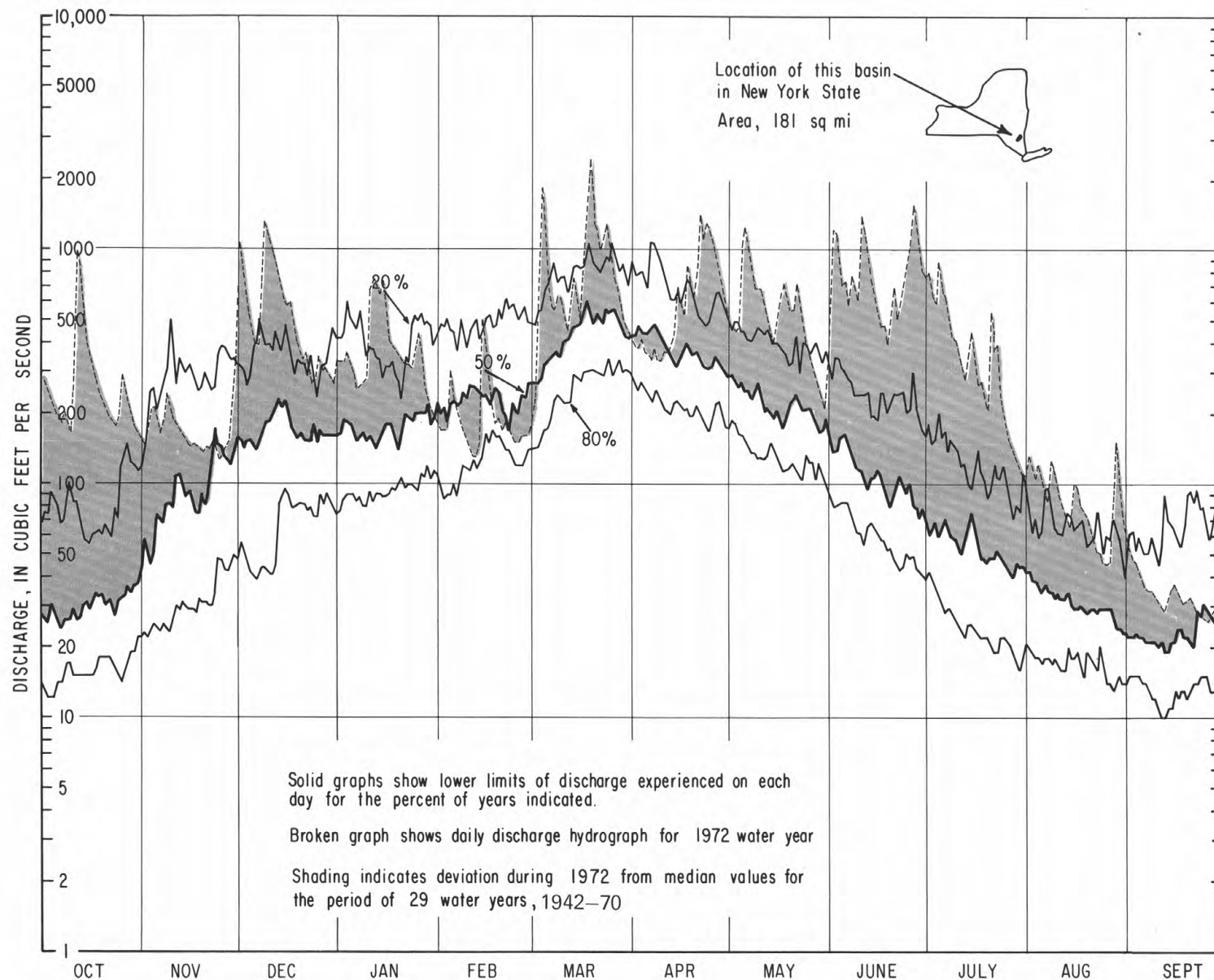


Figure 4 Hydrographic comparisons, Wappinger Creek near Wappingers Falls, N.Y.

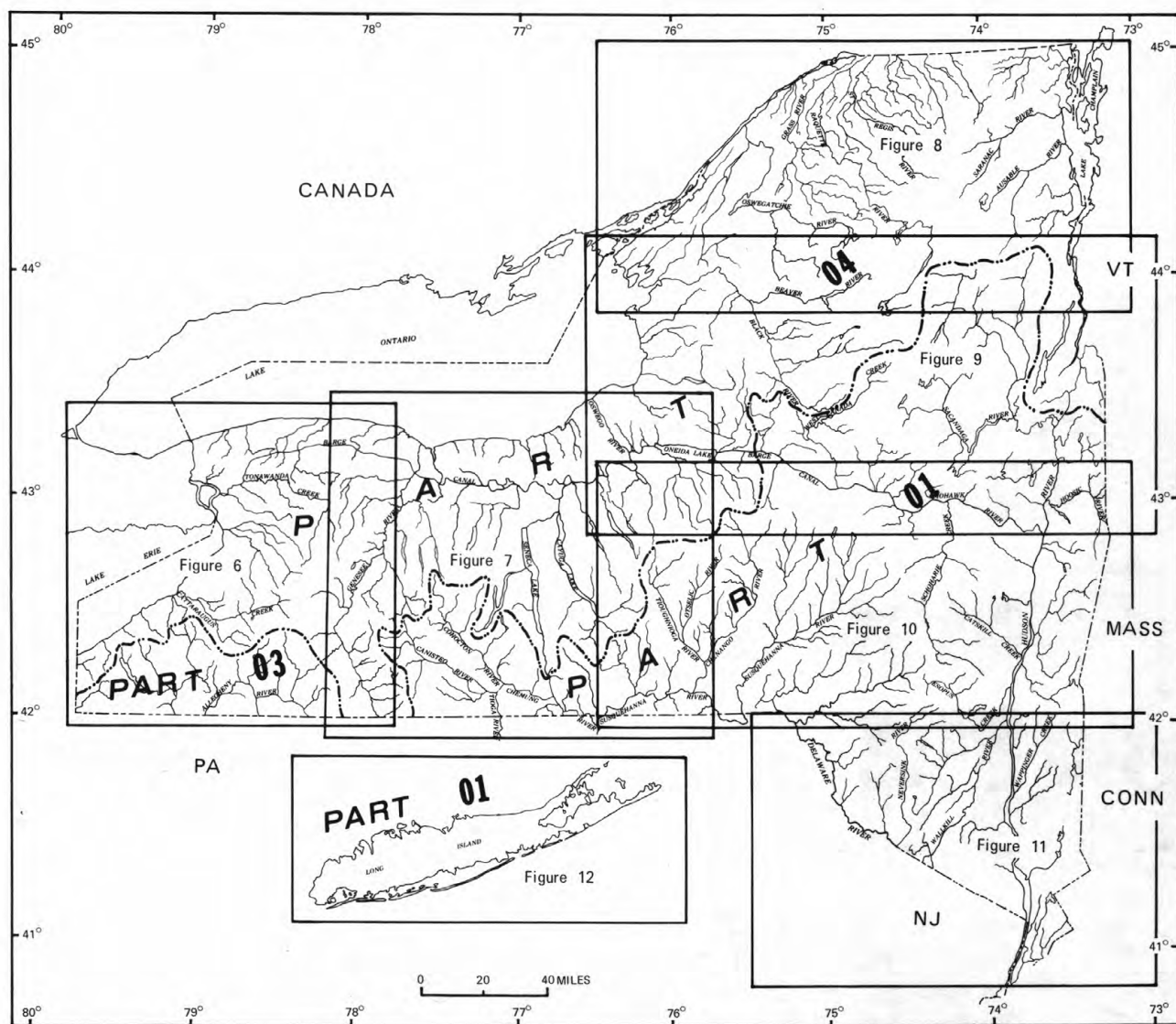


Figure 5.--Index for gaging-station maps.

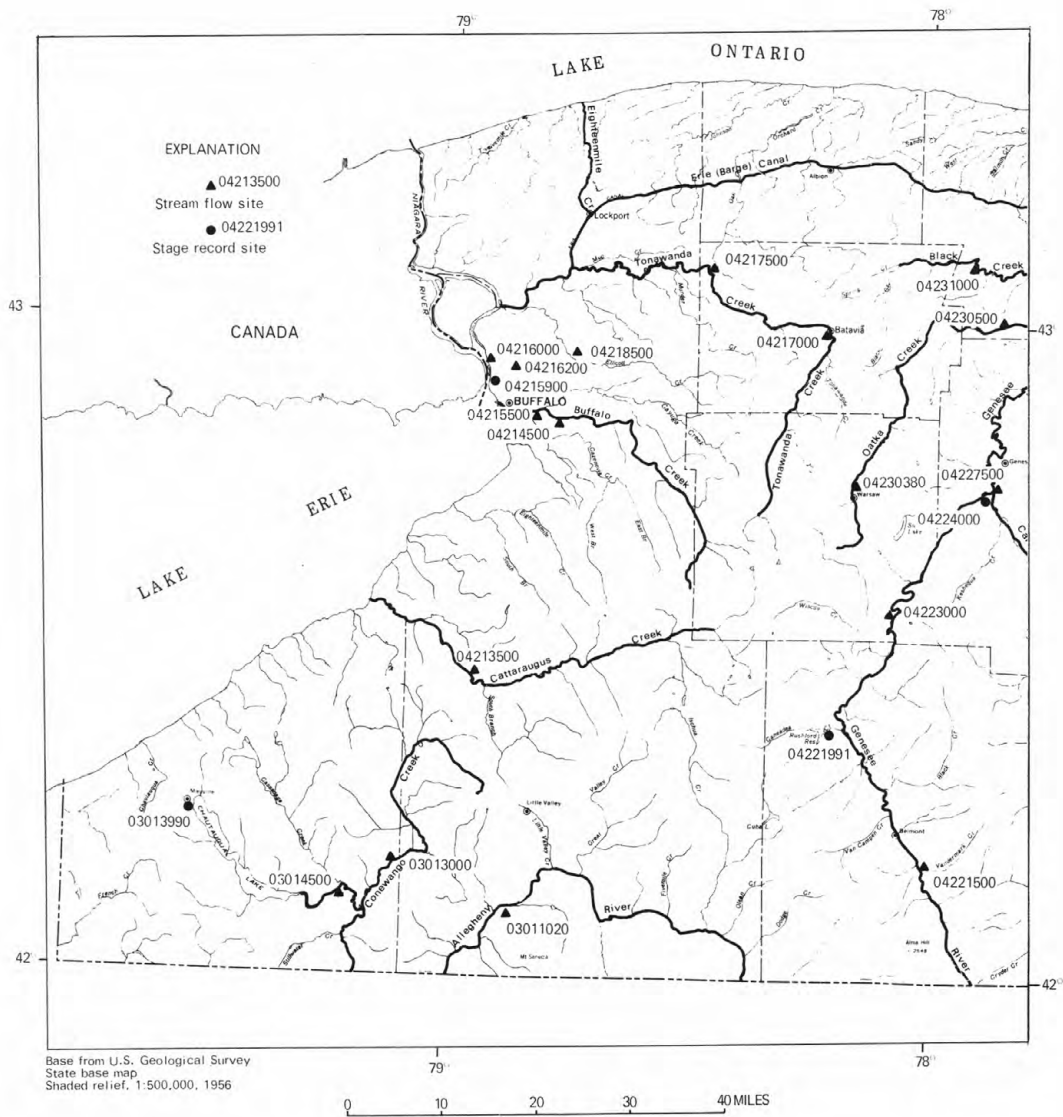
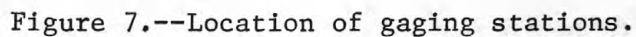
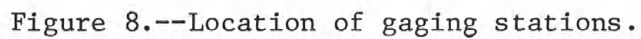


Figure 6.--Location of gaging stations.





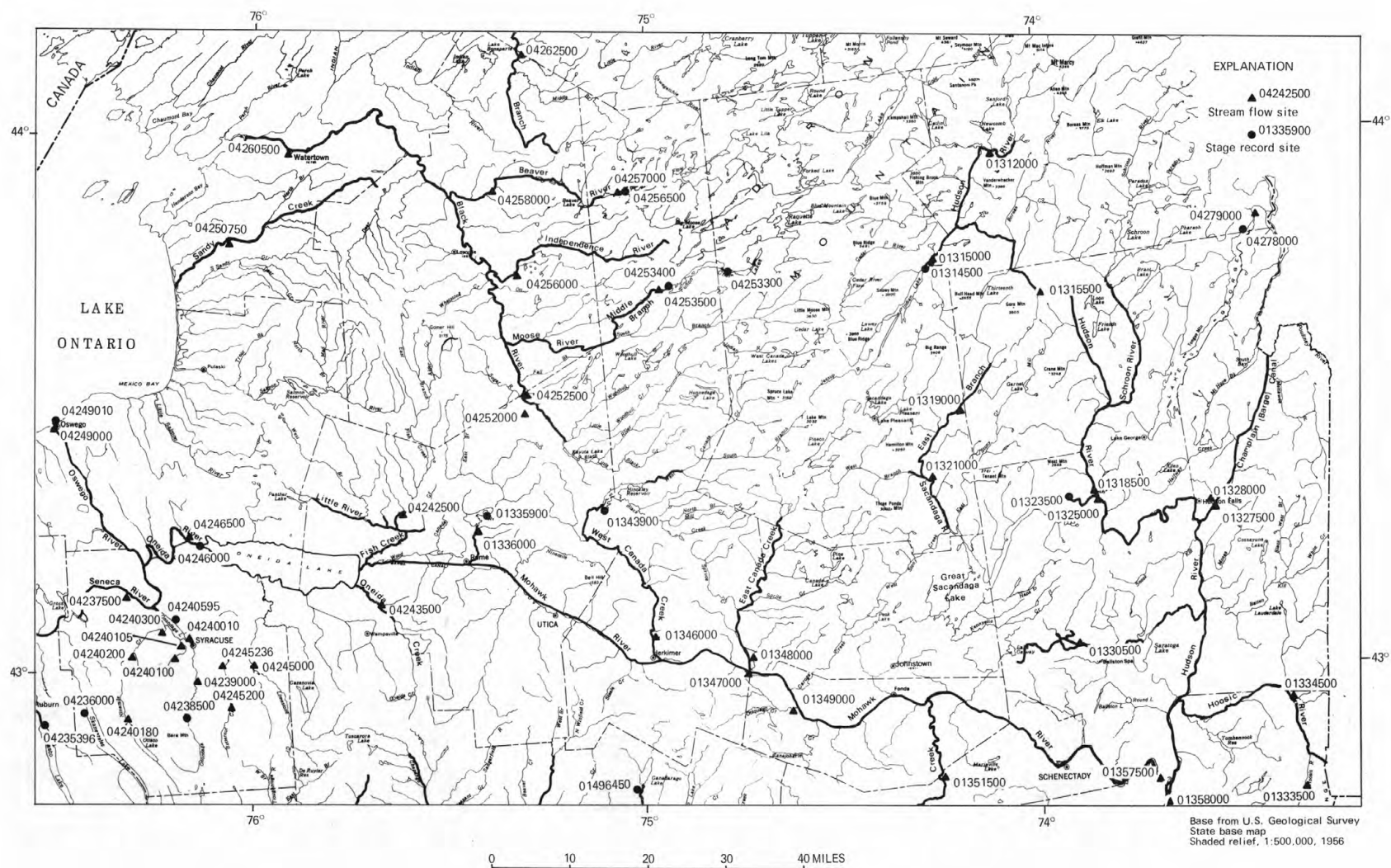


Figure 9.--Location of gaging stations.

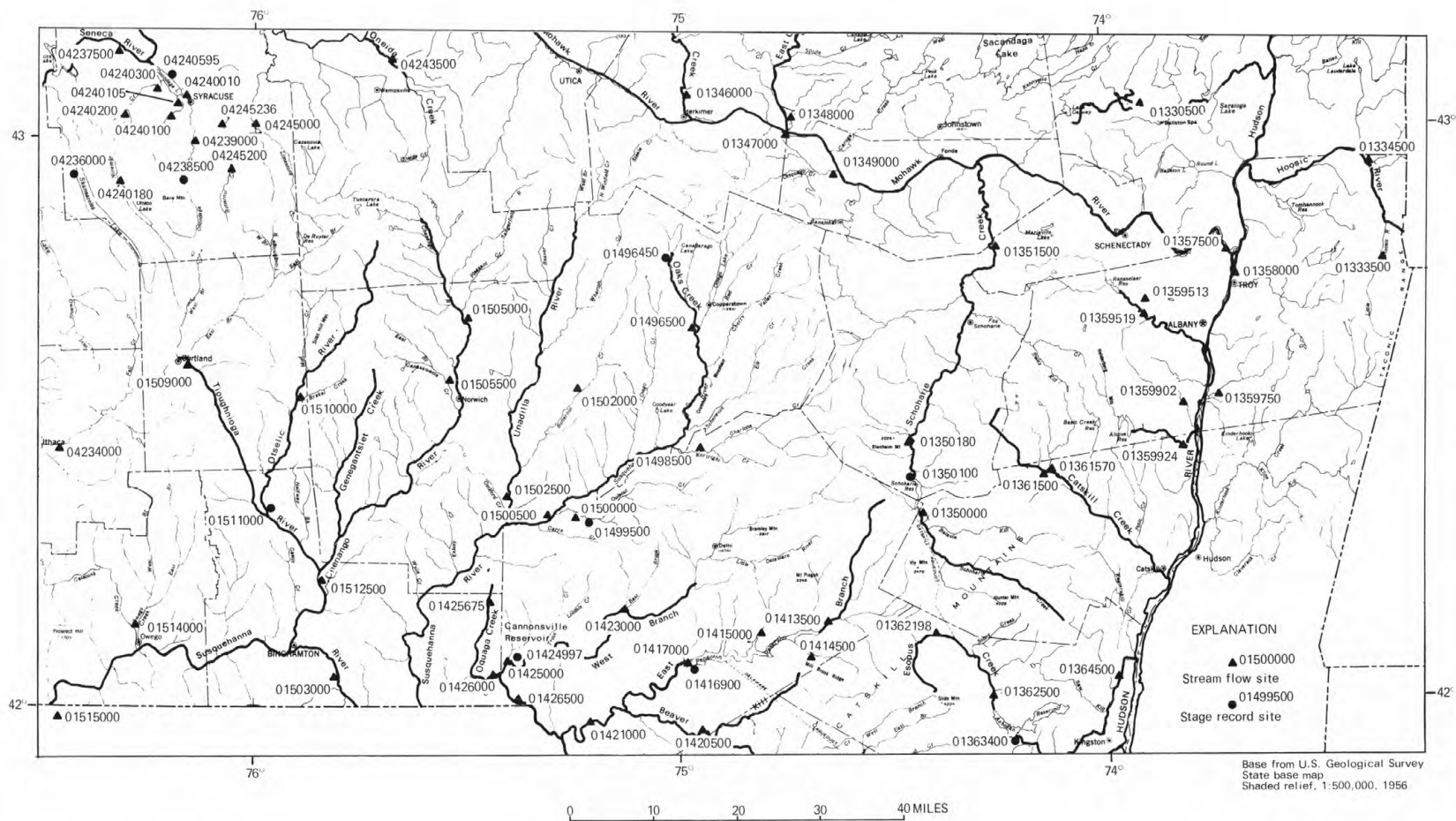


Figure 10.--Location of gaging stations.

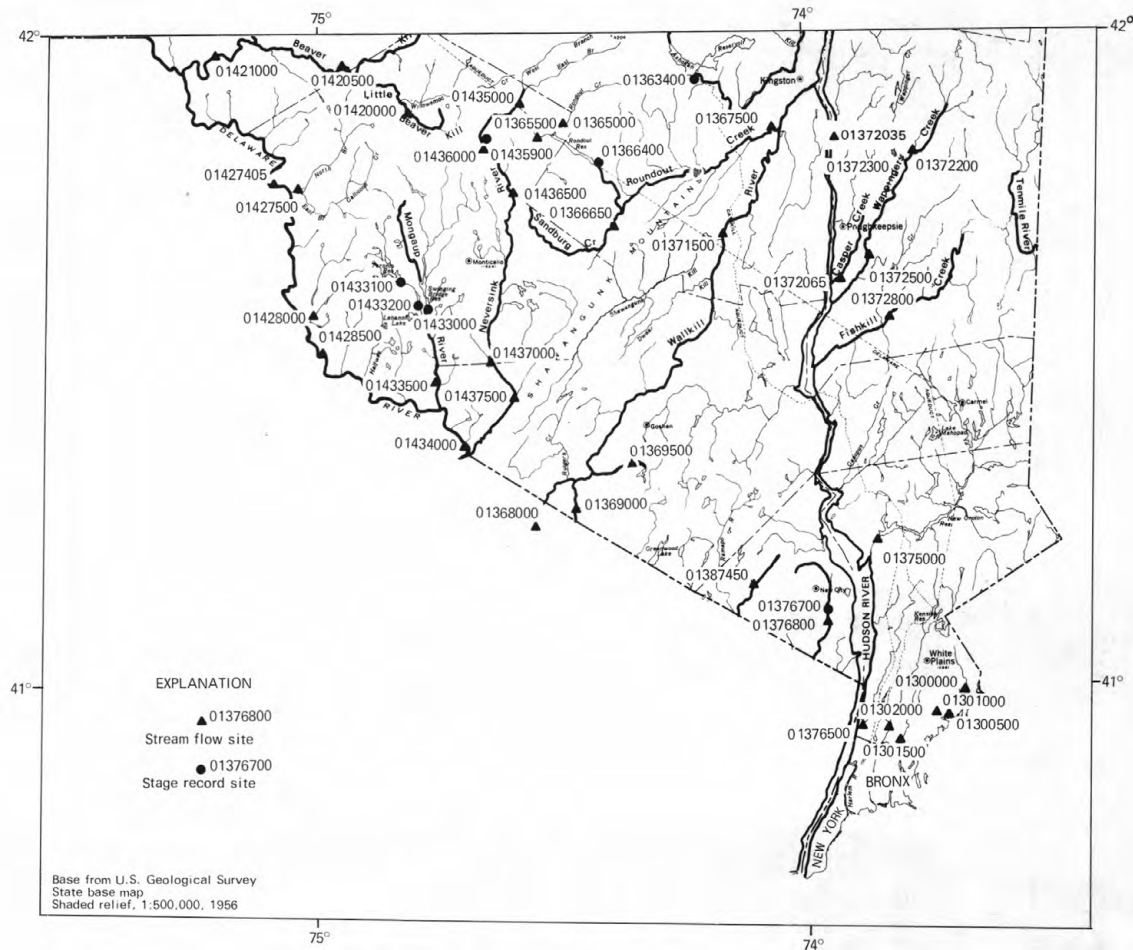


Figure 11.--Location of gaging stations.

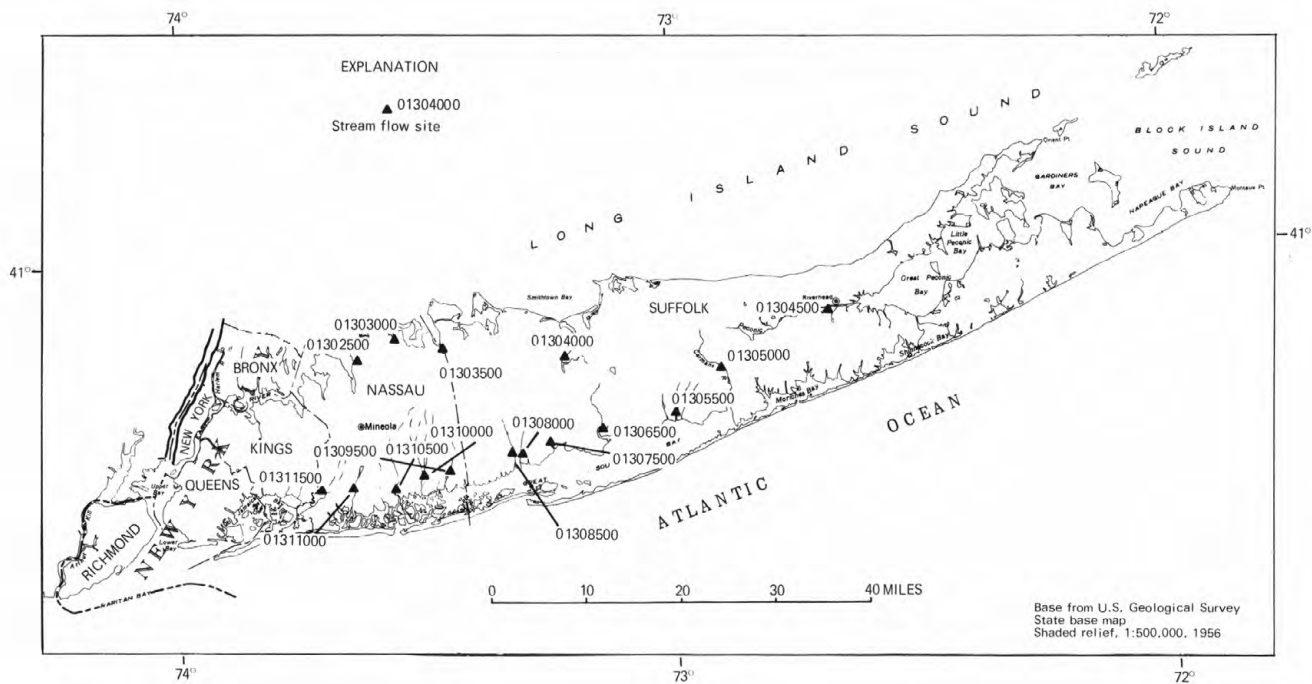


Figure 12.--Location of gaging stations.

HOUSATONIC RIVER BASIN

01200000 Tenmile River near Gaylordsville, Conn.

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

DRAINAGE AREA.--203 sq mi.

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

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

AVERAGE DISCHARGE.--43 years, 290 cfs (19.40 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,160 cfs Mar. 18 (gage height, 6.38 ft); minimum 48 cfs Sept. 12, 13. Period of record: Maximum discharge, 17,400 cfs Aug. 19, 1955 (gage height, 14.9 ft from high-water mark), from rating curve extended above 9,800 cfs; minimum 5 cfs Sept. 8, 1957; minimum gage height, 0.52 ft. Sept. 24, 26, 1939; minimum daily discharge, 7 cfs Oct. 7, 1957.

PEAK DISCHARGE.--(Base, 1,400 cfs):

DATE	TIME	G.HT	DISCHARGE
2-13	2200	4.83	1,680
3-03	1200	5.56	2,310
3-18	0700	6.38	3,160
3-23	1000	4.94	1,770
6-26	1200	5.72	2,470
7-04	1700	5.67	2,420

REMARKS.--Records good. Infrequent regulation at low flow.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	171	760	351	230	348	486	501	887	1,310	223	72
2	181	200	581	399	210	949	481	498	659	949	193	70
3	173	232	482	540	200	1,970	495	546	541	1,040	176	71
4	165	235	449	479	528	1,150	455	979	474	2,180	235	66
5	155	215	389	479	372	834	441	953	506	1,680	169	62
6	149	197	379	390	321	625	437	765	473	1,210	146	58
7	151	216	856	406	291	574	451	657	612	961	139	55
8	145	258	1,240	371	237	764	421	589	527	848	207	55
9	134	220	994	348	230	593	405	611	473	788	172	54
10	299	208	860	785	220	487	421	623	1,160	651	141	53
11	731	202	808	746	210	433	410	565	972	572	124	52
12	486	193	711	686	200	588	429	507	690	504	114	50
13	397	187	648	634	534	733	482	463	598	589	107	51
14	349	180	581	752	1,350	660	666	430	532	712	103	57
15	313	175	567	664	709	515	579	618	481	530	156	59
16	280	183	604	460	527	496	561	763	443	467	147	56
17	255	180	542	406	395	1,410	803	726	446	478	116	54
18	231	172	495	380	346	2,880	693	678	398	418	108	53
19	218	170	430	360	309	1,930	613	595	578	419	109	71
20	205	177	411	340	262	1,180	823	614	670	956	97	77
21	196	178	416	320	262	909	1,250	685	566	532	87	65
22	191	180	403	310	300	1,120	978	594	735	434	80	63
23	185	176	329	372	261	1,660	1,200	515	851	369	75	59
24	188	163	365	434	269	1,240	1,210	461	1,330	346	71	56
25	237	168	440	501	255	924	1,030	414	1,800	300	68	55
26	220	179	387	463	247	771	848	372	2,370	271	90	53
27	202	185	394	366	238	669	734	343	1,840	242	87	57
28	189	245	382	340	244	598	652	317	1,360	222	188	56
29	178	340	367	298	255	554	596	291	1,050	203	121	54
30	171	835	364	270	-----	536	541	270	1,120	186	91	59
31	166	-----	442	250	-----	512	-----	369	-----	183	79	-----
TOTAL	7,335	6,620	17,076	13,900	10,012	28,612	19,591	17,312	25,142	20,550	4,019	1,773
MEAN	237	221	551	448	345	923	653	558	838	663	130	59.1
MAX	731	835	1,240	785	1,350	2,880	1,250	979	2,370	2,180	235	77
MIN	134	163	329	250	200	348	405	270	398	183	68	50
CFSM	1.17	1.09	2.71	2.21	1.70	4.55	3.22	2.75	4.13	3.27	.64	.29
IN.	1.34	1.21	3.13	2.55	1.83	5.24	3.59	3.17	4.61	3.77	.74	.32

CAL YR 1971 TOTAL 117,801 MEAN 323 MAX 1,400 MIN 27 CFSM 1.59 IN 21.59
 WTR YR 1972 TOTAL 171,942 MEAN 470 MAX 2,880 MIN 50 CFSM 2.32 IN 31.51

BLIND BROOK BASIN

29

01300000 BLIND BROOK AT RYE, N.Y.

LOCATION.--Lat 40°59'00", long 73°41'14", Westchester County, on left bank at Rye, just upstream from bridge on Theodore Fremd Avenue, 0.25 mile southwest from Penn Central Transportation Company railroad station and 0.85 mile upstream from mean high tide in Milton Harbor.

DRAINAGE AREA.--9.20 sq mi.

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

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

AVERAGE DISCHARGE.--28 years (1944-72), 14.7 cfs (21.70 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,320 cfs June 19 (gage height, 12.44 ft, from floodmark in gage house), from rating curve extended above 800 cfs on basis of indirect measurement of peak flow; minimum, 1.2 cfs Sept. 27 (gage height 0.95 ft).

Period of record: Maximum discharge, 2,320 cfs June 19, 1972 (gage height, 12.44 ft from floodmark in gage house), from rating curve extended above 800 cfs on basis of indirect measurement of peak flow; minimum, 0.12 cfs July 5, 1953 (gage height, 0.80 ft), result of temporary regulation.

REMARKS.--Records good except those for winter periods, which are fair. Medium and high flows affected by detention reservoir 2 miles above station (capacity, about 26 acre-ft at spillway level or 50 acre-ft at crest of concrete dam).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	64	29	12	6.0	65	12	14	86	51	6.0	2.0
2	6.0	92	21	37	6.0	55	16	26	26	26	4.9	2.8
3	6.0	47	18	29	18	113	12	37	21	27	4.1	7.1
4	5.5	33	17	23	73	49	16	77	48	29	5.7	3.9
5	5.2	21	15	34	15	47	15	31	61	20	4.4	2.4
6	4.9	18	24	19	11	33	12	21	23	20	3.6	2.0
7	4.9	33	69	15	10	26	9.2	18	22	16	18	1.7
8	4.9	22	43	13	8.6	41	8.2	21	15	14	9.2	1.7
9	4.9	18	25	15	7.6	26	7.4	46	13	14	4.4	1.7
10	164	16	21	29	7.2	19	7.1	37	17	11	3.4	1.5
11	49	15	20	19	6.8	18	7.4	21	11	10	3.0	1.5
12	19	12	16	18	8.9	57	8.5	17	8.9	8.5	2.8	1.5
13	14	12	16	16	81	56	41	14	8.2	153	2.8	2.3
14	12	11	15	22	40	34	29	13	8.2	40	2.8	2.4
15	11	14	18	11	19	38	21	116	7.8	22	43	2.1
16	9.6	18	18	9.0	16	52	24	31	51	18	7.4	1.8
17	10	13	14	8.4	14	203	45	22	157	48	4.9	1.5
18	10	11	13	8.9	14	100	19	19	39	18	4.9	1.5
19	10	11	11	9.2	53	35	16	16	1,070	15	4.7	6.0
20	9.2	14	12	9.6	30	23	49	80	121	12	3.9	3.0
21	9.2	18	11	9.6	16	19	36	49	75	12	3.9	2.0
22	9.2	19	10	9.2	14	37	41	26	251	12	3.6	2.4
23	9.2	18	8.9	10	12	35	64	19	138	8.5	3.4	2.0
24	29	18	12	10	13	19	31	16	110	8.2	3.2	1.4
25	38	70	13	10	14	15	23	14	105	6.4	3.0	1.4
26	18	33	12	8.5	19	13	19	11	78	5.7	3.0	1.3
27	13	32	12	7.1	17	11	16	9.6	57	4.9	3.4	1.3
28	11	53	10	7.4	20	10	15	8.9	37	4.7	6.7	1.4
29	9.2	81	9.2	7.1	52	9.2	14	8.9	29	4.1	3.6	1.8
30	8.5	100	22	7.1	-----	8.9	13	8.2	67	4.1	2.4	3.0
31	8.2	-----	22	6.7	-----	9.2	-----	78	-----	4.1	2.3	-----
TOTAL	529.0	937	577.1	449.8	622.1	1,276.3	646.8	925.6	2,761.1	647.2	182.4	68.4
MEAN	17.1	31.2	18.6	14.5	21.5	41.2	21.6	29.9	92.0	20.9	5.88	2.28
MAX	164	100	69	37	81	203	64	116	1,070	153	43	7.1
MIN	4.9	11	8.9	6.7	6.0	8.9	7.1	8.2	7.8	4.1	2.3	1.3
CFSM	1.86	3.39	2.02	1.58	2.34	4.48	2.35	3.25	10.0	2.27	.64	.25
IN.	2.14	3.79	2.33	1.82	2.52	5.16	2.62	3.74	11.16	2.62	.74	.28

CAL YR 1971 TOTAL 7,191.7 MEAN 19.7 MAX 307 MIN 1.1 CFSM 2.14 IN 29.08
WTR YR 1972 TOTAL 9,622.8 MEAN 26.3 MAX 1,070 MIN 1.3 CFSM 2.86 IN 38.91

PEAK DISCHARGE (BASE, 405 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	1530	4.25	440	6-22	2045	4.40	468
6-19	a1300	12.44	2,320				

a About

BEAVER SWAMP BROOK BASIN

01300500 BEAVER SWAMP BROOK AT MAMARONECK, N.Y.

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

DRAINAGE AREA.--4.71 sq mi.

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 mean sea level. Prior to June 8, 1946, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years (1944-72), 6.01 cfs (17.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 197 cfs June 19 (gage height, 3.06 ft); minimum, 0.50 cfs Sept. 17, 18, 29.

Period of record: Maximum discharge, 197 cfs June 19, 1972 (gage height, 3.06 ft); no flow at times during 1944, 1953, 1959, 1964, 1965, 1966.

REMARKS.--Records good except those for winter periods, which are fair. Flow affected by regulation and by natural storage in swampy areas above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	32	18	6.0	1.9	20	6.4	6.4	37	15	2.1	1.0
2	2.9	48	12	13	1.9	16	7.2	9.2	16	11	2.1	1.1
3	2.9	26	10	12	11	37	6.0	11	11	13	1.8	2.9
4	2.7	17	8.8	11	29	26	7.6	21	15	12	1.6	1.3
5	2.3	12	7.6	13	11	23	6.8	9.2	34	9.2	1.4	1.0
6	2.3	8.8	13	8.8	5.0	17	5.7	5.7	13	8.0	1.4	.92
7	2.3	12	26	7.2	4.1	13	5.7	4.7	9.2	6.8	4.7	.81
8	2.3	9.7	19	6.0	3.7	15	5.0	5.0	6.8	6.4	6.8	.72
9	2.1	8.0	13	8.0	3.4	12	4.5	14	5.7	6.0	3.1	.72
10	54	7.6	11	11	3.1	9.7	4.2	16	7.6	5.0	2.1	.64
11	40	7.2	9.2	8.4	2.9	8.4	4.2	9.7	4.7	4.7	1.4	.57
12	11	6.4	8.0	7.6	2.7	24	4.2	7.6	4.2	4.2	1.3	.57
13	6.8	5.7	7.6	7.6	26	22	19	7.2	4.0	41	1.1	1.3
14	5.7	4.5	7.2	8.0	20	15	15	6.4	3.7	26	1.1	.81
15	5.0	7.6	8.0	5.6	8.8	21	10	35	3.5	9.7	21	.64
16	4.5	7.6	7.6	4.5	7.2	21	12	16	18	8.4	5.0	.64
17	4.0	5.7	6.4	3.8	6.0	57	17	10	70	11	2.7	.57
18	3.7	5.0	5.7	4.2	6.0	43	9.7	8.8	31	6.8	2.1	.57
19	3.5	4.5	5.0	4.2	24	22	8.0	7.2	146	5.3	1.8	5.7
20	3.3	4.2	5.3	4.2	16	16	15	28	141	4.7	1.3	1.4
21	3.3	4.0	5.3	4.2	10	14	13	22	56	4.7	1.1	.92
22	3.3	3.5	4.7	4.0	7.6	19	17	12	54	4.0	1.0	.81
23	3.3	5.0	4.2	4.0	6.4	18	22	8.8	70	3.5	1.0	.64
24	18	4.2	5.7	4.0	6.0	13	15	6.8	45	2.9	1.0	.64
25	19	28	4.7	3.7	6.4	11	11	5.7	38	2.5	1.0	.64
26	9.2	15	5.0	2.7	9.7	9.2	8.4	4.2	35	2.3	7.2	.64
27	6.0	16	4.7	2.5	8.0	8.4	8.0	3.5	26	2.1	5.7	.57
28	5.0	25	4.5	2.7	9.7	8.0	7.2	3.7	18	2.1	7.2	.57
29	4.5	26	4.2	2.5	17	7.2	5.3	2.9	14	1.9	2.3	.72
30	4.0	43	9.7	2.3	-----	6.8	4.7	3.3	21	1.9	1.6	1.6
31	3.3	-----	9.2	2.1	-----	6.8	-----	18	-----	2.3	1.3	-----
TOTAL	243.3	409.2	270.3	188.8	274.5	559.5	284.8	329.0	958.4	244.4	96.3	31.63
MEAN	7.85	13.6	8.72	6.09	9.47	18.0	9.49	10.6	31.9	7.88	3.11	1.05
MAX	54	48	26	13	29	57	22	35	146	41	21	5.7
MIN	2.1	3.5	4.2	2.1	1.9	6.8	4.2	2.9	3.5	1.9	1.0	.57
CF5M	1.67	2.89	1.85	1.29	2.01	3.82	2.01	2.25	6.77	1.67	.66	.22
IN.	1.92	3.23	2.13	1.49	2.17	4.42	2.25	2.60	7.57	1.93	.76	.25
CL YR 1971	TOTAL 3,508.40			MEAN 9.61	MAX 129	MIN .17	CF5M 2.04	IN 27.71				
WTR YR 1972	TOTAL 3,890.13			MEAN 10.6	MAX 146	MIN .57	CF5M 2.25	IN 30.72				

PEAK DISCHARGE (BASE, 86 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	1230	1.99	105	6-19	2015	3.06	197

MAMARONECK RIVER BASIN

31

01301000 MAMARONECK RIVER AT MAMARONECK, N.Y.

LOCATION.--Lat 40°57'14", long 73°44'06", Westchester County, on left bank in Mamaroneck, 113 ft downstream from bridge on Halstead Avenue, 700 ft downstream from Sheldrake River, and 0.3 mile upstream from mean high tide in Mamaroneck Harbor.

DRAINAGE AREA.--23.4 sq mi.

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

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

AVERAGE DISCHARGE.--26 years (1944-52, 1954-72), 30.8 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 4,740 cfs June 19 (gage height 9.71 ft) from rating curve extended above 2,000 cfs on basis of indirect measurement of peak flow; minimum, 0.34 cfs Sep. 10, 11 (gage height, 0.17 ft).

Period of record: Maximum discharge, 4,740 cfs June 19, 1972 (gage height 9.71 ft) from rating curve extended above 2,000 cfs on basis of indirect measurement of peak flow; minimum discharge, 0.06 cfs Sept. 30, 1965; minimum daily, 0.10 cfs Sept. 29, 30, 1965; minimum gage height since Sept. 9, 1954, 0.10 ft July 21, 22, Aug. 18, 19, 1957, Aug. 14, 1966.

Maximum stage known, about 11.9 ft (present datum) Sept. 21, 1938 (hurricane wave), from information by officials of village of Mamaroneck.

REMARKS.--Records fair. Flow affected by storage in and diversion from water-supply reservoirs on Mamaroneck and Sheldrake Rivers. Diurnal fluctuation caused by water-supply systems.

COOPERATION.--Records of diversion from Mamaroneck and Sheldrake Rivers furnished by village of Larchmont and Westchester Joint Water Works.

REVISIONS (WATER YEARS).--WSP 1502: 1944(M), 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	228	76	19	11	114	28	32	149	110	11	1.3
2	5.3	247	59	74	9.6	103	10	55	52	60	5.3	1.1
3	5.3	118	48	51	41	253	21	99	41	62	3.9	4.8
4	4.2	79	41	46	196	120	37	164	112	89	5.8	1.8
5	3.8	53	35	64	34	116	35	76	142	52	3.2	1.1
6	3.5	43	67	38	22	79	33	52	45	29	1.5	1.1
7	2.0	79	159	31	18	62	22	43	41	29	15	.78
8	1.5	48	99	26	16	77	6.9	49	29	21	9.3	.93
9	1.0	38	65	31	15	56	12	104	24	29	3.5	.93
10	389	33	48	56	14	45	18	76	34	37	2.6	.54
11	108	31	45	38	13	41	18	46	21	31	.93	.54
12	40	26	39	35	12	149	18	38	17	3.5	.93	.54
13	25	25	37	34	193	104	110	32	15	273	.78	1.8
14	22	22	32	41	87	73	59	30	15	82	.93	1.5
15	19	35	40	28	46	94	45	273	14	42	97	1.3
16	16	34	37	20	38	101	46	80	156	50	12	1.2
17	14	26	28	16	32	451	92	55	411	157	6.3	1.1
18	11	24	25	18	31	276	39	43	92	41	7.4	1.0
19	11	21	20	19	146	120	33	37	2,340	29	4.0	4.0
20	9.0	20	22	19	87	90	99	231	366	26	2.8	2.0
21	8.4	19	21	20	40	73	68	122	193	28	2.4	1.4
22	8.4	17	19	18	32	118	94	67	519	21	2.1	1.8
23	8.4	15	15	19	28	103	130	51	300	17	2.0	1.5
24	88	14	22	19	26	67	70	40	209	13	1.8	1.2
25	99	124	21	19	33	51	53	33	234	11	1.7	1.0
26	41	49	19	14	49	48	44	27	178	9.3	1.6	1.0
27	27	48	18	11	40	45	39	24	122	10	1.7	1.0
28	22	97	15	12	48	46	34	21	76	6.3	4.5	1.1
29	19	187	15	12	106	46	30	20	58	4.8	2.0	1.3
30	17	234	41	11	-----	46	27	19	149	4.3	1.3	1.4
31	16	-----	37	12	-----	43	-----	171	-----	6.8	1.1	-----
TOTAL	1,052.2	2,034	1,265	871	1,463.6	3,210	1,370.9	2,210	6,154	1,384.0	216.37	42.06
MEAN	33.9	67.8	40.8	28.1	50.5	104	45.7	71.3	205	44.6	6.98	1.40
MAX	389	247	159	74	196	451	130	273	2,340	273	97	4.8
MIN	1.0	14	15	11	9.6	41	6.9	19	14	3.5	.78	.54
†	8.22	7.36	7.54	7.45	8.06	7.21	7.75	8.41	5.81	6.96	8.02	6.87
CAL YR 1971	TOTAL	16,943.68	MEAN	46.4	MAX	958	MIN	.42	†	7.31		
WTR YR 1972	TOTAL	21,273.13	MEAN	58.1	MAX	2,340	MIN	.54	†	7.47		

† Indicated net diversion, in cubic feet per second, from Mamaroneck and Sheldrake Rivers for water-supply purposes.

HUTCHINSON RIVER BASIN

01301500 HUTCHINSON RIVER AT PELHAM, N.Y.

LOCATION.--Lat 40°54'41", long 73°48'55", Westchester County, on right bank in Pelham, just upstream from Penn Central Transportation Company bridge, 100 ft downstream from Pelham Lake and 1.5 miles west of New Rochelle.

DRAINAGE AREA.--5.76 sq mi.

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

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

AVERAGE DISCHARGE.--28 years (1944-72), 6.43 cfs.

EXTREMES.--Current year: Maximum discharge, 257 cfs June 19 (gage height, 4.53 ft); minimum, 0.32 cfs Sept. 17, 18 (gage height, 2.17 ft).

Period of record: Maximum discharge, 526 cfs Aug. 28, 1971 (gage height, 5.18 ft) from rating curve extended above 200 cfs; minimum, 0.01 cfs July 27, 1957; minimum daily, 0.02 cfs Aug. 2-6, 1955, July 26, 27, 1957, Oct. 26-30, 1964; minimum gage height, 1.86 ft Aug. 2, 5, 1955.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	34	16	6.5	2.6	18	6.5	6.8	23	20	1.8	2.2
2	2.6	45	9.2	13	2.8	16	7.4	8.1	14	14	1.6	1.8
3	2.6	25	5.9	11	15	31	6.8	17	9.6	12	2.0	3.1
4	2.2	15	4.3	11	30	23	8.8	26	19	12	1.8	.99
5	2.2	9.6	3.3	11	13	20	7.8	15	23	11	1.5	.86
6	2.0	7.8	9.2	8.8	7.4	14	7.1	9.9	15	9.7	1.3	1.6
7	1.8	11	20	7.1	6.2	11	6.8	7.4	9.9	9.1	6.5	1.6
8	1.5	9.9	16	5.9	4.6	13	5.9	9.6	7.8	8.8	3.1	.74
9	1.5	7.4	10	7.1	3.8	12	5.2	19	5.9	8.2	2.4	.64
10	52	5.9	7.8	8.1	3.6	11	5.2	15	7.1	7.6	2.0	.54
11	39	4.6	6.5	7.4	3.3	9.2	4.9	10	5.5	6.7	1.8	.46
12	14	4.6	6.2	7.1	3.1	23	4.9	8.1	5.2	5.9	1.6	.39
13	7.1	4.1	5.5	7.4	28	21	21	7.4	4.9	49	1.6	1.5
14	8.1	4.1	5.5	7.8	23	16	18	6.5	4.3	33	1.5	.74
15	5.2	6.5	5.2	6.5	12	21	14	35	4.3	13	7.3	.64
16	4.9	5.9	4.6	4.9	7.8	18	15	18	26	13	6.2	.39
17	4.3	5.5	6.5	4.6	6.2	41	18	11	90	20	6.2	.39
18	3.1	4.6	6.5	3.6	6.2	38	12	7.4	30	12	5.1	.32
19	2.8	4.1	5.9	3.6	23	21	9.6	5.9	174	7.9	4.1	13
20	2.6	4.3	5.2	3.6	20	14	18	34	72	6.7	3.1	4.8
21	2.6	4.1	4.6	3.8	11	11	15	28	26	11	2.6	3.6
22	2.4	3.8	4.3	3.8	8.8	16	21	15	51	8.2	2.2	2.2
23	2.8	5.2	4.3	3.8	6.8	16	23	9.9	57	6.7	1.8	1.1
24	16	4.6	5.2	3.8	7.4	12	16	7.1	33	5.9	1.5	.74
25	22	21	5.2	3.8	7.1	9.9	11	5.9	33	5.1	1.3	.64
26	14	12	5.9	4.1	10	8.8	8.5	5.2	33	3.8	9.1	.64
27	7.4	9.6	5.2	3.8	9.6	8.1	7.1	4.6	23	2.6	4.1	.74
28	5.5	11	5.2	3.3	11	7.4	6.5	4.3	16	1.8	7.6	.54
29	4.9	25	5.2	2.8	16	7.1	5.9	4.1	13	1.6	6.5	.74
30	4.1	34	9.9	2.6	-----	6.8	5.5	3.6	24	1.5	4.1	1.8
31	3.8	-----	7.1	2.6	-----	6.5	-----	22	-----	2.2	3.1	-----
TOTAL	248.8	349.2	221.4	184.2	309.3	500.8	322.4	386.8	859.5	330.0	106.4	49.44
MEAN	8.03	11.6	7.14	5.94	10.7	16.2	10.7	12.5	28.7	10.6	3.43	1.65
MAX	52	45	20	13	30	41	23	35	174	49	9.1	13
MIN	1.5	3.8	3.3	2.6	2.6	6.5	4.9	3.6	4.3	1.5	1.3	.32
CAL YR 1971	TOTAL	3,241.45	MEAN	8.88	MAX	238	MIN	.39				
WTR YR 1972	TOTAL	3,868.24	MEAN	10.6	MAX	174	MIN	.32				

01302000 BRONX RIVER AT BRONXVILLE, N.Y.

LOCATION.--Lat 40°56'09", long 73°50'10", Westchester County, on right bank in Bronxville, just upstream from Penn Central Transportation Company bridge, 800 ft downstream from Grassy Sprain Brook.

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

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

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

AVERAGE DISCHARGE.--28 years (1944-72) 38.9 cfs (19.93 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,500 cfs June 19 (gage height, 9.63 ft) from rating curve extended as explained below; minimum, 8.0 cfs Sept. 4 (gage height, 0.39 ft).

Period of record: Maximum discharge, 2,500 cfs June 19, 1972 (gage height, 9.63 ft) from rating curve extended above 1,200 cfs on basis of contracted opening measurement of peak flow; minimum, 1.0 cfs Sept. 10, 1944 (gage height, 0.14 ft).

REVISIONS.--The figure of maximum discharge for water year 1969 has been revised to 1,580 cfs June 15, 1969 (gage height 7.31) superseding figure published in the WRD, New York, 1969, 1971.

REMARKS.--Records good. Entire flow diverted at Kensico Reservoir on Bronx River, at White Plains Reservoirs 1 and 2 on tributary and at Grassy Sprain Reservoir on Grassy Sprain Brook (combined drainage area, 18.0 sq mi) for water supplies for cities of New York, White Plains and Yonkers, respectively. Subsequent to Oct. 1, 1954, flow from 0.1 sq mi below Grassy Sprain Reservoir diverted for flood-control purposes.

REVISIONS (WATER YEARS).-- WSP 1382: Drainage area. WRD N.Y. 1971: 1961-67(P), 1968(M), 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	146	70	34	26	107	43	49	125	176	33	12
2	24	157	56	80	27	112	46	72	59	101	24	14
3	25	93	52	60	87	188	40	132	54	102	24	37
4	22	67	50	56	220	115	53	130	105	86	30	14
5	21	50	46	68	54	113	44	68	76	77	22	12
6	20	45	84	47	37	90	38	56	46	70	19	12
7	19	86	135	40	37	73	36	53	49	63	21	12
8	17	53	92	38	32	89	33	61	39	61	27	12
9	17	43	67	46	30	70	31	115	36	59	24	12
10	299	41	59	68	29	63	31	77	52	52	20	11
11	102	40	56	48	29	54	31	56	34	48	18	11
12	48	37	52	48	30	146	32	52	31	45	17	11
13	36	38	50	48	231	110	102	48	30	369	17	16
14	32	36	47	58	112	83	54	47	29	104	17	16
15	29	52	55	40	61	101	49	266	29	64	130	12
16	27	47	52	34	53	96	59	73	176	89	25	10
17	25	37	45	29	49	290	83	61	244	102	20	9.9
18	23	34	43	32	48	233	43	56	74	52	19	11
19	22	33	36	34	118	118	38	53	1,610	49	23	120
20	20	33	38	35	70	96	102	222	472	47	17	16
21	22	32	36	36	52	84	68	99	228	59	16	12
22	21	31	34	34	46	116	93	70	523	43	16	12
23	20	26	29	34	43	95	98	61	361	36	16	11
24	92	26	39	34	47	72	65	55	248	33	16	10
25	89	112	38	35	52	63	55	50	371	31	15	11
26	46	52	36	29	69	58	50	47	228	29	26	11
27	34	49	35	27	58	54	47	45	161	28	31	11
28	30	74	34	29	65	50	44	41	127	27	56	10
29	28	155	31	28	96	47	43	39	96	25	17	11
30	28	161	67	28	-----	47	39	38	239	24	14	29
31	24	-----	54	27	-----	44	-----	166	-----	36	13	-----
TOTAL	1,286	1,886	1,618	1,284	1,908	3,077	1,590	2,458	5,952	2,187	783	508.9
MEAN	41.5	62.9	52.2	41.4	65.8	99.3	53.0	79.3	198	70.5	25.3	17.0
MAX	299	161	135	80	231	290	102	266	1,610	369	130	120
MIN	17	26	29	27	26	44	31	38	29	24	13	9.9
CFSM	1.57	2.37	1.97	1.56	2.48	3.75	2.00	2.99	7.47	2.66	.95	.64
IN.	1.81	2.65	2.27	1.80	2.68	4.32	2.23	3.45	8.36	3.07	1.10	.71

CAL YR 1971 TOTAL 18,608.0 MEAN 51.0 MAX 814 MIN 7.6 CFSM 1.92 IN 26.12
WTR YR 1972 TOTAL 24,537.9 MEAN 67.0 MAX 1,610 MIN 9.9 CFSM 2.53 IN 34.45

PEAK DISCHARGE (BASE, 525 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	1300	4.78	910	6-19	1400	9.63	2,500
11-29	2045	3.51	592	6-22	2000	4.67	882
2 - 3	2345	3.66	630	6-25	1415	3.66	630
2-13	1515	3.66	630	6-30	2115	3.53	598
5-15	0430	3.92	695	7-13	1215	5.47	1,080
5-31	1900	3.62	620	9-19	0145	3.37	558
6-16	1800	4.33	798				

STREAMS ON LONG ISLAND

01302500 GLEN COVE CREEK AT GLEN COVE, N.Y.

LOCATION.--Lat 40°51'48", long 73°38'05", Nassau County, on right bank just downstream from Glen Cove Road culvert at 8- x 10-foot concrete culvert outlet in Pratt Park, 1 block west of post office, Glen Cove.

DRAINAGE AREA.--About 11 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 15.93 ft above mean sea level, adjustment of 1912. Prior to Sept. 10, 1957, at datum 0.6 ft lower.

AVERAGE DISCHARGE.--34 years, 6.76 cfs.

EXTREMES.--Current year: Maximum discharge, 481 cfs Sept. 19 (gage height, 4.11 ft); minimum, 2.4 cfs Oct. 8, 9, 17, 18, 21 (gage height, 0.55 ft).

Period of record: Maximum discharge, 1,860 cfs Sept. 12, 1960 (gage height, 7.12 ft), from rating curve extended above 220 cfs; minimum, 2.1 cfs Oct. 15, 1967; minimum gage height, 0.52 ft, Oct. 22, 1959, Oct. 15, 1967.

REMARKS.--Records good except those above 300 cfs, which are fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 971: 1939-42.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	22	5.6	3.1	2.8	6.4	3.0	3.3	10	8.1	3.2	3.3
2	3.0	7.2	3.9	8.3	2.8	4.9	4.3	3.4	4.1	4.7	3.1	3.9
3	2.8	8.0	3.5	3.7	26	19	3.0	11	3.5	7.9	5.9	6.3
4	2.8	4.2	3.4	8.1	13	6.9	5.4	8.0	4.2	4.0	3.3	3.5
5	2.7	3.5	3.3	8.3	4.2	10	3.3	4.1	3.6	5.4	3.1	3.4
6	2.8	3.1	9.0	3.8	3.5	4.6	3.0	3.4	3.3	3.9	3.1	3.3
7	2.8	9.8	13	3.3	3.3	3.8	2.9	6.5	3.7	3.9	3.4	3.3
8	2.8	3.3	6.2	3.0	3.0	7.7	2.9	5.5	3.2	3.7	3.0	3.2
9	2.6	3.2	4.1	9.5	2.9	4.1	3.0	16	3.2	3.7	3.0	3.6
10	58	3.1	3.6	6.0	2.8	3.6	2.8	6.0	4.8	3.6	2.9	3.2
11	12	3.0	3.2	4.1	2.8	3.3	2.8	4.0	3.2	3.3	2.9	3.8
12	4.4	2.9	3.0	3.9	2.8	14	2.8	3.4	3.3	3.2	3.0	3.8
13	3.4	2.9	3.0	4.6	26	5.5	18	3.2	3.2	17	2.9	3.6
14	3.9	3.0	3.3	4.4	6.8	9.3	5.7	8.4	3.1	6.6	3.2	3.5
15	3.3	5.6	3.6	3.2	4.4	15	5.1	23	3.2	4.5	13	3.1
16	2.8	3.0	3.1	2.9	3.7	6.9	14	5.4	19	3.7	3.2	3.1
17	2.8	2.9	2.9	2.9	3.3	37	7.3	4.3	11	3.5	3.4	3.1
18	2.8	2.8	2.8	2.9	3.5	13	4.1	3.5	15	4.3	3.0	3.2
19	2.8	3.2	2.8	2.9	24	5.8	3.5	4.3	40	3.3	3.0	27
20	2.8	3.1	3.2	3.1	8.3	4.2	12	28	8.2	3.5	2.9	3.6
21	2.8	3.0	2.8	2.9	4.5	3.8	4.8	8.1	7.3	4.0	2.9	3.6
22	2.9	2.7	2.7	2.9	4.4	11	17	4.8	24	3.8	2.9	3.5
23	2.6	2.8	2.7	2.9	3.4	5.4	9.6	3.8	14	3.4	2.9	3.4
24	14	4.5	3.1	3.0	3.6	4.1	8.3	3.5	9.8	3.3	3.1	3.9
25	5.0	20	2.8	2.9	4.2	3.6	4.9	3.3	8.0	3.3	3.2	3.5
26	3.4	4.9	3.4	2.7	10	3.4	3.9	3.2	6.1	3.2	4.7	3.5
27	3.0	14	2.8	2.8	4.9	3.3	3.5	3.2	4.4	3.2	3.3	3.5
28	2.9	12	3.0	3.0	7.2	3.3	3.3	3.3	3.9	3.2	3.7	3.4
29	2.8	34	2.8	2.8	10	3.2	3.1	3.3	7.3	3.1	3.4	3.7
30	2.7	18	8.9	2.8	-----	3.3	3.2	3.3	15	3.1	3.2	4.9
31	2.9	-----	3.6	2.8	-----	3.0	-----	5.5	-----	3.5	3.1	-----
TOTAL	169.1	215.7	125.1	123.5	202.1	232.4	170.5	200.0	252.6	138.9	110.9	131.7
MEAN	5.45	7.19	4.04	3.98	6.97	7.50	5.68	6.45	8.42	4.48	3.58	4.39
MAX	58	34	13	9.5	26	37	18	28	40	17	13	27
MIN	2.6	2.7	2.7	2.7	2.8	3.0	2.8	3.2	3.1	3.1	2.9	3.1

CAL YR 1971 TOTAL 2,333.38 MEAN 6.39 MAX 164 MIN 0
WTR YR 1972 TOTAL 2,072.50 MEAN 5.66 MAX 58 MIN 2.6

STREAMS ON LONG ISLAND

35

01303000 MILL NECK CREEK AT MILL NECK, N.Y.

LOCATION.--Lat 40°53'15", long 73°33'51", Nassau County, on right bank at Beaver Dam, 30 ft upstream from Feeks Lane (Cleft Road) bridge in Mill Neck, and 1.5 miles southwest of Bayville.

DRAINAGE AREA.--About 11.5 sq mi.

PERIOD OF RECORD.--January 1937 to current year.

GAGE.--Water-stage recorder and steel sheet-piling control. Datum of gage is 6.49 ft above mean sea level.

AVERAGE DISCHARGE.--35 years, 8.94 cfs.

EXTREMES.--Current year: Maximum discharge, 28 cfs June 19 (gage height, 0.67 ft); minimum, 5.0 cfs several days in October; (gage height, 0.22 ft).

Period of record: Maximum discharge, 137 cfs Sept. 12, 1960, from rating curve extended above 35 cfs; maximum gage height, 4.85 ft Sept. 21, 1938 (hurricane wave); minimum discharge, 0.09 cfs Dec. 11, 1941 (result of freezeup); minimum gage height, 0.14 ft Sept. 8, 1939 (result of wind action).

REMARKS.--Records good. Slight regulation by ponds above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	9.6	9.3	6.4	5.7	9.2	7.4	7.4	11	12	6.7	6.0
2	5.4	11	7.2	7.3	5.9	8.4	7.4	8.1	8.8	9.0	6.3	6.3
3	5.6	8.4	6.5	7.6	7.5	10	7.4	8.8	8.1	10	6.3	7.7
4	5.4	7.0	6.3	7.5	17	11	7.7	13	7.7	7.0	6.3	6.6
5	5.4	6.0	6.0	8.9	9.6	10	8.1	9.6	7.7	8.0	6.0	6.3
6	5.4	5.7	6.7	8.0	7.4	8.4	7.4	8.0	7.4	7.0	6.0	6.3
7	5.4	7.4	10	6.9	7.4	7.7	7.0	7.4	7.4	7.0	6.3	6.3
8	5.1	6.7	9.8	6.2	6.7	8.1	6.7	9.2	7.0	6.8	6.3	6.3
9	5.1	6.0	7.9	6.5	6.3	8.1	6.7	11	6.7	6.8	6.3	6.3
10	17	6.0	6.9	8.7	6.3	7.4	6.7	11	7.4	6.8	6.0	6.0
11	16	5.9	6.4	7.3	6.3	7.0	6.7	8.8	6.7	6.5	6.0	6.0
12	8.4	6.0	6.0	6.8	6.3	9.6	6.7	7.7	6.7	6.5	6.0	6.3
13	6.3	5.8	5.9	6.6	10	11	10	7.4	6.7	13	6.3	6.6
14	6.0	5.9	6.1	6.7	12	9.6	12	7.4	7.0	10	6.3	7.0
15	6.0	6.5	6.7	6.2	8.8	14	9.2	14	7.0	8.0	13	6.3
16	5.7	6.8	6.6	7.7	7.4	11	8.4	10	8.8	7.5	8.8	6.3
17	5.4	6.1	6.3	6.8	6.7	19	12	8.4	14	7.0	7.4	6.3
18	5.1	6.0	6.1	6.1	7.0	16	9.2	7.7	11	7.0	7.0	6.0
19	5.1	6.0	6.6	6.1	17	10	7.7	7.7	21	6.8	6.6	12
20	5.1	6.2	6.7	6.1	12	8.1	8.8	13	15	7.0	6.6	8.4
21	5.1	6.0	6.4	6.3	12	7.7	9.6	13	11	7.0	6.3	7.4
22	5.1	5.6	5.9	6.2	8.8	9.6	9.2	9.6	15	7.0	6.3	7.4
23	5.4	5.4	5.9	6.3	7.4	10	13	8.0	15	6.7	6.0	6.7
24	9.2	5.5	6.2	6.3	8.1	8.1	10	7.7	14	6.3	6.3	6.7
25	12	12	6.0	6.2	7.7	7.4	8.8	7.4	10	6.0	6.3	6.7
26	8.4	9.6	6.2	5.6	9.2	7.0	7.7	7.4	9.6	6.0	6.7	6.7
27	6.7	7.7	6.4	6.9	8.8	6.7	7.7	7.4	8.8	6.0	7.4	6.7
28	6.0	12	6.3	6.9	8.1	6.7	7.4	7.4	8.1	6.3	6.3	6.3
29	5.7	11	6.0	6.2	8.8	7.0	7.0	7.4	7.4	6.3	6.3	6.3
30	5.4	18	7.0	6.0	-----	7.0	7.0	7.7	13	6.3	6.0	7.0
31	5.4	-----	7.5	5.9	-----	7.4	-----	8.4	-----	6.3	6.0	-----
TOTAL	208.3	227.8	209.8	209.2	252.2	248.2	250.6	277.0	295.0	229.9	206.4	203.2
MEAN	6.72	7.59	6.77	6.75	8.70	9.30	8.35	8.94	9.83	7.42	6.66	6.77
MAX	17	18	10	8.9	17	19	13	14	21	13	13	12
MIN	5.0	5.4	5.9	5.6	5.7	6.7	6.7	7.4	6.7	6.0	6.0	6.0
CAL YR 1971	TOTAL 2,508.0	MEAN 6.87	MAX 32	MIN 4.0								
WTR YR 1972	TOTAL 2,857.6	MEAN 7.81	MAX 21	MIN 5.0								

PEAK DISCHARGE (BASE, 32 CFS).--No peak above base.

STREAMS ON LONG ISLAND

01303500 COLD SPRING BROOK AT COLD SPRING HARBOR, N.Y.

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

DRAINAGE AREA.--About 7.3 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5.38 ft above mean sea level.

AVERAGE DISCHARGE.--22 years, 2.26 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 8.8 cfs Sept. 19 (gage height, 0.45 ft); maximum gage height, 3.73 ft Feb. 19 (backwater from high tide); minimum discharge, 1.2 cfs Aug. 14 (gage height, 0.18 ft).

Period of record: Maximum discharge, 108 cfs Sept. 11, 1954 (gage height, 1.33 ft, backwater from aquatic vegetation), from rating curve extended above 28 cfs; maximum gage height, 5.34 ft Aug. 31, 1954 (backwater from high tide), from high-water mark; minimum discharge, 0.20 cfs Jan. 24-27, 1967 (gage height, 0.07 ft).

REMARKS.--Records good. Flow occasionally regulated at outlet of pond 40 ft above station. Diversion from this pond by New York State Fish Hatchery bypasses station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.1	4.7	2.3	2.1	3.2	2.5	2.1	3.4	3.0	1.9	2.5
2	1.9	2.1	3.4	2.5	2.1	2.7	2.5	2.3	3.4	3.0	1.9	2.5
3	2.1	2.1	3.0	2.5	2.5	3.2	2.5	2.5	3.2	2.7	1.9	2.7
4	1.9	1.9	2.7	2.5	5.0	3.7	2.7	3.2	3.2	2.5	1.9	2.7
5	1.9	1.9	2.5	2.7	3.9	3.4	2.7	3.0	3.2	2.3	1.9	2.7
6	1.9	3.7	2.7	2.7	3.2	2.7	2.5	2.5	3.0	2.3	1.9	2.7
7	1.9	3.2	3.2	2.5	3.0	3.0	2.3	2.3	2.5	2.3	1.6	2.5
8	1.7	2.3	3.2	2.3	2.7	3.0	2.3	2.3	2.3	2.3	1.6	2.3
9	1.7	1.9	3.0	2.3	2.5	2.7	2.3	3.0	2.1	2.3	1.6	2.3
10	2.5	2.1	2.7	2.5	2.3	2.5	2.1	3.2	2.3	2.1	1.6	2.3
11	3.4	2.1	2.5	2.5	2.3	2.5	1.9	2.7	2.1	2.1	1.6	2.3
12	2.7	1.9	2.3	2.3	2.3	2.7	1.9	2.5	2.1	2.3	1.4	2.3
13	2.3	1.9	2.3	2.5	3.2	3.2	2.1	2.3	1.9	2.7	1.4	2.5
14	1.9	1.9	2.3	2.5	4.2	3.2	2.7	2.1	2.1	2.7	1.4	2.3
15	1.9	2.1	2.3	2.3	3.4	3.4	2.7	4.2	2.1	2.5	2.3	2.3
16	1.7	2.1	2.5	2.1	3.0	3.2	2.7	3.9	2.3	2.5	2.5	2.3
17	1.7	2.1	2.5	2.1	2.7	4.4	3.2	3.4	3.2	2.5	2.5	2.3
18	1.7	2.1	2.5	2.1	2.5	4.7	3.0	3.0	3.4	2.5	2.5	2.3
19	1.7	2.1	2.5	2.1	3.9	3.7	2.5	2.7	4.7	2.5	2.5	7.7
20	1.7	2.1	2.5	2.1	4.2	3.0	2.7	3.7	4.4	2.5	2.5	5.3
21	1.7	2.1	2.5	2.1	3.2	2.7	2.7	3.9	3.7	2.5	2.5	3.9
22	1.7	2.1	2.3	2.1	2.7	3.4	2.7	3.4	3.4	2.5	2.3	3.4
23	1.6	2.1	2.3	2.1	2.5	3.4	3.2	3.2	3.4	2.5	2.3	3.0
24	1.9	2.1	2.3	2.1	2.7	3.0	3.0	3.0	3.7	2.3	2.5	2.7
25	2.1	3.0	2.3	2.1	2.7	2.7	2.7	2.7	3.2	2.3	2.5	2.5
26	2.1	3.0	2.3	2.1	3.0	2.5	2.5	2.3	3.0	2.3	2.7	2.5
27	2.3	2.7	2.3	2.1	2.7	2.3	2.3	2.3	2.7	2.3	2.7	2.5
28	2.3	4.2	2.3	2.1	2.7	2.3	2.1	2.3	2.5	2.1	2.5	2.5
29	2.1	4.5	2.3	2.1	2.7	2.3	2.1	2.3	2.3	2.1	2.5	2.5
30	1.9	5.9	2.5	2.1	-----	2.3	2.1	2.3	2.7	1.9	2.5	2.7
31	1.9	-----	2.5	2.1	-----	2.5	-----	2.3	-----	1.9	2.5	-----
TOTAL	61.5	75.4	81.2	70.5	85.9	93.5	75.2	86.9	87.5	74.3	65.9	85.0
MEAN	1.98	2.51	2.62	2.27	2.96	3.02	2.51	2.80	2.92	2.40	2.13	2.83
MAX	3.4	5.9	4.7	2.7	5.0	4.7	3.2	4.2	4.7	3.0	2.7	7.7
MIN	1.6	1.9	2.3	2.1	2.1	2.3	1.9	2.1	1.9	1.9	1.4	2.3
(f)	.56	.05	.20	.20	.20	.20	.28	.50	.50	.46	.20	.20

CAL YR 1971 TOTAL 1,008.5 MEAN 2.76 # .29 MAX 32 MIN 1.2
WTR YR 1972 TOTAL 942.8 MEAN 2.58 # .30 MAX 7.7 MIN 1.4

Indicated adjustment, in cubic feet per second, for diversion through fish hatchery.

LOCATION.--Lat 40°50'58", long 73°13'29", Suffolk County, on left bank 0.5 mile downstream from Blydenburgh Pond, 1.0 mile southwest of Smithtown, and 1.5 miles southwest of village of Smithtown Branch.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 9.59 ft above mean sea level.

AVERAGE DISCHARGE.--29 years, 40.0 cfs.

Period of record: Maximum discharge, 324 cfs Oct. 15, 1955 (gage height, 1.96 ft), from rating curve extended above 130 cfs; minimum, 16 cfs June 5, 6, 1967 (gage height, 0.48 ft); minimum daily, 19 cfs June 6, 1967.

REMARKS.--Records good. Occasional regulation caused by cleaning of fish screens and trash racks at outlets of Blydenburgh Pond on main stream and ponds on tributaries above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	34	51	36	32	39	39	36	47	48	31	32
2	30	34	42	35	32	39	39	37	41	42	31	31
3	30	34	39	37	35	42	39	41	39	39	32	34
4	30	32	37	40	50	44	40	48	37	39	31	34
5	30	31	37	37	40	42	40	44	37	39	31	32
6	30	30	41	36	38	40	40	41	36	39	31	32
7	29	30	40	35	36	39	39	39	36	37	31	32
8	28	30	39	36	35	40	37	40	35	36	31	31
9	29	29	36	37	34	40	37	44	35	36	31	31
10	39	30	36	37	34	39	37	45	34	36	29	31
11	41	30	36	36	34	39	39	42	34	36	29	31
12	36	30	35	36	34	44	37	40	35	36	30	31
13	34	29	35	35	39	45	41	38	35	40	31	31
14	31	29	35	34	42	42	44	38	35	41	35	31
15	31	30	35	35	39	45	41	46	35	37	44	31
16	30	30	35	34	36	44	40	43	36	37	37	31
17	30	30	34	34	35	47	44	41	44	36	35	32
18	29	30	34	33	35	47	41	39	51	35	34	32
19	29	30	35	32	47	44	40	39	58	34	34	45
20	29	30	35	32	49	41	41	44	54	35	32	44
21	29	30	34	32	41	40	41	45	47	47	32	39
22	29	30	34	34	41	41	42	43	45	44	31	36
23	29	29	34	32	39	42	48	40	47	40	31	34
24	32	29	34	32	39	41	45	38	51	40	31	34
25	36	41	34	32	36	40	42	36	47	32	34	32
26	34	39	34	31	40	39	40	36	42	22	34	32
27	32	37	34	31	41	39	39	36	40	25	34	32
28	31	42	34	32	40	39	39	35	39	27	34	32
29	30	45	36	32	39	39	37	35	37	29	32	32
30	30	60	36	32	-----	39	37	34	49	30	32	36
31	31	-----	35	32	-----	39	-----	35	-----	31	31	-----
TOTAL	967	994	1,126	1,059	1,112	1,280	1,205	1,238	1,238	1,125	1,006	998
MEAN	31.2	33.1	36.3	34.2	38.3	41.3	40.2	39.9	41.3	36.3	32.5	33.3
MAX	41	60	51	40	50	47	48	48	58	48	44	45
MIN	28	29	34	31	32	39	37	34	34	22	29	31
CAL YR 1971	TOTAL 13,173		MEAN 36.1	MAX 84	MIN 25							
WTR YR 1972	TOTAL 13,348		MEAN 36.5	MAX 60	MIN 22							

STREAMS ON LONG ISLAND

01304500 PECONIC RIVER AT RIVERHEAD, N.Y.

LOCATION.--Lat 40°54'49", long 72°41'14", Suffolk County, on right bank 200 ft downstream from Long Island Lighting Co. dam, 0.4 mile west of Riverhead, and 1.2 miles upstream from outlet of Sweezy Pond.

DRAINAGE AREA.--About 75 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.54 ft above mean sea level.

AVERAGE DISCHARGE.--30 years, 33.5 cfs.

EXTREMES.--Current year: Maximum discharge, 83 cfs July 24; maximum gage height, 0.77 ft May 10, July 24; minimum discharge, 1.4 cfs Jan. 27 (gage height, 0.10 ft, result of freezeup); minimum daily, 8.4 cfs Oct. 9, Nov. 14.

Period of record: Maximum discharge, 140 cfs Apr. 14, 1953 (gage height, 0.97 ft); minimum, 1.4 cfs Jan. 9, 1966, Jan. 31, 1967, Dec. 6, 1969, Jan. 27, 1972; minimum gage height, 0.10 ft Jan. 31, 1967, Jan. 27, 1972, result of freezeup, Dec. 6, 1969; minimum daily, 3.7 cfs Aug. 2, 1944.

REMARKS.--Records good. Flow regulated by ponds above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	17	35	22	21	36	42	40	52	74	31	14
2	15	18	42	22	21	35	42	40	50	74	28	16
3	15	18	43	23	22	38	42	42	47	72	31	25
4	15	19	43	23	28	39	40	50	47	70	30	27
5	15	18	37	26	26	40	42	50	47	68	30	27
6	13	18	28	26	27	39	40	42	45	68	31	27
7	9.9	18	26	26	25	37	39	40	45	64	32	27
8	9.1	18	32	25	26	38	39	45	45	62	32	26
9	8.4	17	42	25	26	39	37	45	45	58	32	26
10	9.1	17	37	27	25	38	37	62	45	56	32	25
11	9.9	17	27	27	24	37	35	64	43	49	32	25
12	12	19	28	27	23	37	35	47	42	49	31	25
13	21	15	34	27	24	39	37	47	40	50	31	25
14	26	8.4	30	27	32	39	40	49	39	50	31	26
15	20	12	27	26	32	42	40	54	40	50	32	26
16	18	14	31	21	29	49	40	56	39	49	35	26
17	16	18	26	19	27	66	42	56	40	49	30	26
18	16	21	22	28	27	66	42	54	43	47	31	26
19	16	18	23	26	33	58	42	54	49	47	31	30
20	15	12	25	25	34	54	42	58	60	43	30	28
21	15	12	25	24	28	50	43	60	66	26	30	28
22	14	13	25	23	39	50	43	58	70	19	28	28
23	14	14	23	23	36	52	45	56	74	28	28	28
24	15	15	18	22	36	50	56	54	79	49	28	27
25	18	18	12	23	35	49	60	52	81	52	28	26
26	19	20	14	22	35	47	43	52	79	37	28	26
27	18	21	35	19	35	47	40	50	77	35	28	26
28	18	31	45	22	37	45	42	50	74	32	28	26
29	17	31	21	22	37	43	42	49	70	34	27	26
30	17	37	20	21	-----	43	40	49	70	34	26	26
31	16	-----	22	21	-----	43	-----	49	-----	39	20	-----
TOTAL	475.4	544.4	898	740	850	1,385	1,249	1,574	1,643	1,534	922	770
MEAN	15.3	18.1	29.0	23.9	29.3	44.7	41.6	50.8	54.8	49.5	29.7	25.7
MAX	26	37	45	28	39	66	60	64	81	74	35	30
MIN	8.4	8.4	12	19	21	35	35	40	39	19	20	14

CAL YR 1971 TOTAL 10,158.8 MEAN 27.8 MAX 74 MIN 8.4
WTR YR 1972 TOTAL 12,584.8 MEAN 34.4 MAX 81 MIN 8.4

STREAMS ON LONG ISLAND

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01305000 CARMANS RIVER AT YAPHANK, N.Y.

LOCATION.--Lat 40°49'49", long 72°54'24", Suffolk County, on left bank 50 ft upstream from Long Island Railroad bridge, 0.2 mile northeast of Yaphank Station, 0.5 mile southeast of Yaphank.

DRAINAGE AREA.--About 71 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 17.95 ft above mean sea level. Prior to Feb. 2, 1967, at same site at datum 1.0 ft higher.

AVERAGE DISCHARGE.--30 years, 22.4 cfs.

EXTREMES.--Current year: Maximum discharge, 38 cfs Nov. 29 (gage height, 1.47 ft); maximum gage height, 1.54 ft, result of obstruction; minimum discharge, 6.0 cfs Jan. 16, 17 (gage height, 0.87), result of freezeup.

Period of record: Maximum discharge, 83 cfs Sept. 11, 1954 (gage height, 1.25 ft, datum then in use); minimum, 2.8 cfs Feb. 24, 1967 (gage height, 0.73 ft); minimum daily discharge, 6.2 cfs Feb. 28, Mar. 3, 1967, result of temporary construction upstream.

REMARKS.--Records good. Some regulation by two lakes above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	18	14	14	17	19	21	24	25	19	19
2	13	14	16	15	14	17	19	21	22	23	19	19
3	13	14	16	15	16	20	19	24	21	22	19	26
4	13	14	15	15	20	19	20	28	21	22	19	22
5	13	13	15	17	16	19	20	23	22	22	19	21
6	14	13	15	16	15	18	19	21	21	22	19	20
7	13	13	18	15	15	17	19	20	22	22	19	19
8	13	13	18	14	15	19	19	21	21	21	19	19
9	13	13	16	14	14	19	19	24	21	22	19	19
10	19	13	15	17	14	18	18	24	21	21	19	19
11	17	13	15	15	14	18	19	22	21	21	19	18
12	14	13	15	15	14	21	19	21	21	22	19	18
13	13	13	15	14	16	20	22	21	21	23	20	19
14	13	12	14	14	17	19	23	21	21	22	22	19
15	13	13	15	14	16	22	21	25	21	21	25	19
16	13	13	15	12	15	20	21	24	21	20	21	18
17	13	13	14	13	14	23	22	22	24	20	21	18
18	12	12	14	16	14	22	20	21	25	20	21	18
19	12	12	14	14	23	20	19	20	28	19	21	24
20	12	13	14	14	22	19	21	26	26	19	20	22
21	12	13	15	14	15	19	20	25	24	19	19	20
22	12	13	14	14	19	20	21	23	25	19	19	20
23	12	12	14	14	17	21	24	22	26	19	19	19
24	14	12	14	14	18	20	24	21	28	19	19	18
25	15	19	14	15	17	19	22	21	25	19	19	18
26	14	16	14	14	19	19	21	21	24	19	19	18
27	14	15	14	13	18	19	20	21	23	19	19	18
28	13	18	14	14	18	19	20	21	22	19	19	18
29	13	19	14	14	18	19	20	21	22	19	19	18
30	13	24	14	14	-----	19	20	21	26	19	19	18
31	13	-----	15	14	-----	19	-----	21	-----	19	19	-----
TOTAL	414	421	463	447	477	600	610	688	690	638	608	581
MEAN	13.4	14.0	14.9	14.4	16.4	19.4	20.3	22.2	23.0	20.6	19.6	19.4
MAX	19	24	18	17	23	23	24	28	28	25	25	26
MIN	12	12	14	12	14	17	18	20	21	19	19	18
CAL YR 1971	TOTAL 6,056	MEAN 16.6	MAX 32	MIN 11								
WTR YR 1972	TOTAL 6,637	MEAN 18.1	MAX 28	MIN 12								

STREAMS ON LONG ISLAND

01305500 SWAN RIVER AT EAST PATCHOGUE, N.Y.

LOCATION.--Lat 40°46'01", long 72°59'39", Suffolk County, on left bank 94 ft downstream from Montauk Highway in East Patchogue, 200 ft downstream from outlet of Swan Lake and 1.2 miles upstream from mouth.

DRAINAGE AREA.--About 8.8 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2.84 ft above mean sea level.

AVERAGE DISCHARGE.--26 years, 12.2 cfs.

EXTREMES.--Current year: Maximum discharge, 68 cfs Aug. 15 (gage height, 1.28 ft), from rating curve extended above 18 cfs; maximum gage height, 1.64 ft Feb. 4 (backwater from debris); minimum discharge, 0.43 cfs Jan. 16 (gage height, 0.11 ft, result of regulation); minimum daily discharge, 5.9 cfs Dec. 3.

Period of record: Maximum discharge, 99 cfs Nov. 30, 1963, from rating curve extended above 18 cfs; maximum gage height, 1.80 ft Sept. 11, 1954 (backwater from debris); minimum discharge, 0.06 cfs Sept. 2, 1964 (gage height, 0.02 ft); minimum daily, 4.3 cfs Oct. 13, 14, 1967.

REMARKS.--Records good. Flow regulated occasionally at outlet of Swan Lake. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1622: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	8.5	12	11	9.4	10	11	11	14	14	11	9.4
2	9.0	9.0	9.0	11	9.4	10	11	11	14	13	10	9.8
3	9.0	9.4	5.9	12	12	12	11	15	13	13	11	15
4	9.0	9.0	12	14	9.4	11	12	16	13	13	12	10
5	9.0	8.5	12	16	10	11	12	13	13	13	11	9.8
6	9.0	8.5	10	13	9.8	11	12	12	12	13	11	9.8
7	8.5	8.5	12	12	10	11	12	12	13	13	11	9.8
8	8.5	8.5	12	12	9.8	12	12	13	13	13	11	9.8
9	8.5	8.1	11	14	9.8	12	11	14	13	13	11	9.8
10	16	8.1	10	17	9.8	11	11	14	12	13	10	9.4
11	11	8.5	10	12	9.8	11	12	12	12	13	10	9.4
12	9.4	8.5	10	11	9.8	12	11	12	12	12	10	9.4
13	8.5	8.1	10	11	12	12	14	12	12	13	10	9.4
14	8.5	8.1	10	10	12	11	13	12	12	13	9.8	9.4
15	8.1	8.1	10	9.8	10	12	12	15	12	12	16	9.0
16	8.1	8.5	10	9.4	10	12	12	13	13	12	11	9.0
17	8.1	8.5	10	9.8	9.8	13	13	13	16	12	11	9.0
18	8.1	8.1	10	9.4	9.8	13	11	12	16	12	11	9.0
19	8.1	8.1	9.8	9.8	18	11	11	13	17	12	10	12
20	8.1	8.5	10	9.4	13	11	12	18	15	12	9.8	9.8
21	8.1	8.5	11	9.8	10	11	11	15	14	12	9.4	9.4
22	8.1	8.5	10	9.4	10	12	13	13	18	12	10	9.4
23	8.1	8.1	10	9.4	9.8	12	13	13	17	11	10	9.0
24	8.5	8.1	11	9.8	10	12	13	13	17	11	10	9.0
25	9.0	17	11	9.4	9.8	11	12	13	15	11	9.8	9.4
26	9.0	11	11	9.4	11	11	11	13	15	11	9.8	9.0
27	9.0	10	11	9.4	11	11	11	13	14	11	9.8	9.0
28	8.5	13	11	9.8	10	11	11	13	14	11	9.8	9.4
29	8.5	18	11	9.4	10	11	11	12	14	11	9.4	9.0
30	8.5	18	12	9.4	-----	11	11	12	18	11	9.4	9.4
31	8.5	-----	12	9.4	-----	11	-----	12	-----	11	9.4	-----
TOTAL	275.3	289.3	326.7	338.2	305.2	353	353	405	423	377	324.4	290.0
MEAN	8.88	9.64	10.5	10.9	10.5	11.4	11.8	13.1	14.1	12.2	10.5	9.67
MAX	16	18	12	17	18	13	14	18	18	14	16	15
MIN	8.1	8.1	5.9	9.4	9.4	10	11	11	12	11	9.4	9.0

CAL YR 1971 TOTAL 3,617.8 MEAN 9.91 MAX 27 MIN 5.9
WTR YR 1972 TOTAL 4,060.1 MEAN 11.1 MAX 18 MIN 5.9

LOCATION.--Lat 40°44'51", long 73°09'03", Suffolk County, on left bank just downstream from bridge on State Highway 27, 1.0 mile west of Oakdale.

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

AVERAGE DISCHARGE.--29 years, 37.3 cfs.

REMARKS.--Records fair. Flow at both gages occasionally regulated by cleaning operations at outlets of ponds above stations. Discharge figures given are those of combined flows in main and secondary channels. Water-quality records for flows in the main channel (101306499) and the secondary channel (101306495) for the current year 1971 are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	25	46	30	25	36	34	36	45	47	32	25
2	23	25	40	30	25	36	34	36	39	42	32	26
3	23	26	39	30	28	40	34	38	36	42	31	32
4	25	26	35	31	38	40	34	44	35	40	32	30
5	23	24	35	35	34	39	34	39	36	39	30	27
6	25	24	36	35	32	36	33	36	36	40	31	26
7	24	24	40	33	32	36	34	35	36	39	30	28
8	21	24	39	31	31	38	34	38	35	37	31	27
9	21	24	37	33	31	37	32	42	34	37	30	27
10	29	24	36	36	30	36	32	43	34	35	28	26
11	30	25	34	34	30	34	32	40	33	35	28	25
12	24	25	33	34	30	39	32	37	33	34	28	26
13	22	25	33	34	33	39	38	37	34	35	28	25
14	22	25	32	34	36	38	41	37	33	32	27	26
15	22	25	33	33	34	43	36	43	33	30	40	26
16	22	25	33	31	32	41	36	40	33	29	34	26
17	22	25	32	30	31	47	40	38	48	29	33	26
18	22	25	32	30	31	46	37	37	46	29	32	25
19	22	25	32	30	47	42	36	37	48	32	32	35
20	22	25	32	29	49	40	37	43	46	35	31	32
21	21	24	32	29	40	38	37	43	43	36	30	30
22	22	23	31	29	38	40	38	40	49	33	30	28
23	22	23	30	29	36	41	44	38	50	32	30	28
24	24	24	31	28	36	38	46	38	53	31	30	28
25	30	37	30	28	35	37	43	36	48	32	29	28
26	27	36	31	28	40	36	40	35	44	33	28	27
27	25	32	31	28	37	36	38	35	41	33	28	27
28	24	42	30	28	36	36	37	34	40	31	27	27
29	24	40	30	26	36	36	36	33	39	30	27	28
30	24	58	30	26	-----	36	-----	34	49	32	26	28
31	24	-----	31	26	-----	35	-----	35	-----	32	25	-----
TOTAL	734	835	1,046	948	993	1,192	1,094	1,177	1,209	1,073	930	825
MEAN	23.7	27.8	33.7	30.6	34.2	38.5	36.5	38.0	40.3	34.6	30.0	27.5
MAX	30	58	46	36	49	47	46	44	53	47	40	35
MIN	21	23	30	26	25	34	32	33	33	29	25	25
CAL YR 1971	TOTAL	11,267	MEAN	30.9	MAX	58	MIN	21				
WTR YR 1972	TOTAL	12,056	MEAN	32.9	MAX	58	MIN	21				

STREAMS ON LONG ISLAND

01307500 PENATAQUIT CREEK AT BAY SHORE, N.Y.

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

DRAINAGE AREA.--About 5 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.64 ft above mean sea level.

AVERAGE DISCHARGE.--27 years, 6.17 cfs.

EXTREMES.--Current year: Maximum discharge, 44 cfs Feb. 3 (gage height, 1.69 ft, backwater from debris); maximum gage height, 2.22 ft June 30 (backwater from debris); minimum discharge, 3.1 cfs Sept. 16 (gage height, 0.31 ft).

Period of record: Maximum discharge, 64 cfs Oct. 16, 1955; maximum gage height, 2.31 ft Oct. 16, 1955 (from floodmarks), Sept. 13, 1971 (backwater from debris); minimum, 1.5 cfs Nov. 10, 1949 (gage height, 0.22 ft), result of temporary construction at culvert upstream.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1141: Drainage area, WSP 1702: 1955(M), 1956, 1959(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	5.1	11	4.1	4.1	6.8	6.2	7.0	16	7.4	5.9	4.3
2	3.9	5.9	9.4	6.6	4.1	6.5	6.5	7.9	9.2	5.6	5.9	4.1
3	3.9	8.0	8.8	5.1	13	11	6.2	13	8.8	5.9	6.5	7.4
4	3.7	5.9	8.5	8.6	13	7.6	7.3	12	9.5	5.4	6.2	4.3
5	3.9	5.4	7.9	8.6	6.5	8.2	5.6	8.8	8.2	6.3	6.2	4.1
6	3.9	4.8	9.0	6.2	5.9	7.0	5.4	8.8	7.9	5.3	6.2	4.1
7	3.9	6.1	12	5.6	5.9	6.8	5.4	10	8.4	4.8	6.2	3.9
8	3.7	5.4	8.8	5.1	5.6	9.8	5.1	12	7.6	4.6	5.6	3.9
9	3.5	5.1	7.6	7.6	5.4	7.0	4.8	15	7.3	4.6	5.4	3.9
10	16	5.1	7.3	7.5	5.1	6.8	5.1	11	7.3	4.6	5.4	3.7
11	6.1	4.8	7.0	6.2	4.8	6.5	5.1	10	7.0	4.6	5.1	3.7
12	4.8	4.6	6.8	5.9	4.8	9.7	5.4	10	7.0	4.8	5.1	3.7
13	4.6	4.6	6.8	6.8	11	7.3	14	11	6.8	7.8	4.8	3.9
14	4.8	4.3	6.5	5.6	6.8	9.4	6.5	12	6.8	5.6	4.8	3.9
15	4.8	5.4	6.2	5.4	5.9	11	6.2	16	6.5	5.6	11	3.9
16	4.8	4.8	6.0	4.8	5.6	7.8	7.7	12	9.2	5.9	5.4	3.7
17	4.6	4.6	5.6	4.8	5.4	11	8.0	12	12	5.9	5.4	3.7
18	4.3	4.6	5.1	4.8	5.4	8.5	5.4	12	9.2	6.2	5.1	3.7
19	4.1	4.6	4.8	5.1	21	7.6	5.1	12	7.8	6.2	5.1	8.6
20	4.1	4.3	6.3	5.1	9.0	7.3	7.5	18	6.5	5.9	4.8	3.9
21	3.9	4.3	5.1	5.1	7.3	7.3	5.6	11	6.5	5.9	4.6	3.9
22	3.7	4.1	4.6	4.8	7.3	9.0	9.5	10	11	5.9	4.6	4.1
23	3.5	3.7	4.3	4.8	6.8	7.0	7.4	10	9.1	5.9	4.8	3.7
24	9.0	4.2	5.1	4.8	7.6	6.5	8.6	10	9.9	5.6	4.8	3.5
25	7.9	19	4.3	4.8	7.0	6.2	5.9	9.7	6.8	5.9	4.8	3.7
26	5.6	6.8	4.7	4.8	12	6.2	5.6	9.7	6.5	5.6	4.8	3.9
27	5.4	10	4.3	4.8	7.6	6.5	5.6	9.4	6.2	5.6	4.8	3.9
28	5.4	14	4.3	5.1	7.3	6.2	5.9	9.4	6.2	5.6	4.6	3.7
29	5.4	15	4.1	4.6	7.0	6.2	5.9	9.1	6.6	5.6	4.6	3.9
30	5.1	18	7.1	4.3	-----	6.2	6.5	8.8	13	5.6	4.3	4.1
31	4.8	-----	4.8	4.1	-----	6.2	-----	10	-----	6.2	4.3	-----
TOTAL	157.0	202.5	204.1	171.5	218.2	237.1	195.0	337.6	250.8	176.4	167.1	124.8
MEAN	5.06	6.75	6.58	5.53	7.52	7.65	6.50	10.9	8.36	5.69	5.39	4.16
MAX	16	19	12	8.6	21	11	14	18	16	7.8	11	8.6
MIN	3.5	3.7	4.1	4.1	4.1	6.2	4.8	7.0	6.2	4.6	4.3	3.5
CAL YR 1971	TOTAL 2,280.0 MEAN 6.25 MAX 27 MIN 3.5											
WTR YR 1972	TOTAL 2,442.1 MEAN 6.67 MAX 21 MIN 3.5											

PEAK DISCHARGE (BASE, 40 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	2130	1.69	44	2-19	1230	1.65	43

STREAMS ON LONG ISLAND

43

01308000 SAMPWAMS CREEK AT BABYLON, N.Y.

LOCATION.--Lat 40°42'15", long 73°18'52", Suffolk County, on left bank at upstream side of John Street Bridge in Babylon, 180 ft downstream from Long Island Railroad and 3,000 ft upstream from mouth.

DRAINAGE AREA.--About 23 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.36 ft above mean sea level. October 1944 to December 1966, water-stage recorder at site 100 ft east and 0.34 ft higher.

AVERAGE DISCHARGE.--28 years, 9.29 cfs.

EXTREMES.--Current year: Maximum discharge, 64 cfs Nov. 29 (gage height, 2.13 ft); minimum, 4.2 cfs Oct. 4-10, Nov. 22, 23; minimum gage height, 0.21 ft Sept. 1.
Period of record: Maximum discharge, 136 cfs Sept. 12, 1960 (gage height, 2.11 ft, datum then in use); maximum gage height, 3.28 ft Feb. 7, 1971; minimum discharge, 1.6 cfs June 28, 1963 (gage height, 0.13 ft, datum then in use).

REMARKS.--Records good. Flow regulated slightly by pumping operations at railroad and occasionally by ponds above station. Indeterminate effect caused by ground-water pumpage for water-supply purposes at Smith Street substation 0.2 mile northwest of gage. Prior to November 1950, slight diurnal fluctuation caused by power operations. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1141: Drainage area: WSP 1702: 1955(M), 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	4.9	9.5	7.0	7.0	9.8	10	11	18	13	7.4	4.9
2	4.9	5.3	9.1	8.4	7.0	9.8	10	11	13	12	7.0	4.9
3	4.9	7.0	8.8	7.4	14	13	10	15	12	12	7.7	9.5
4	4.2	5.6	8.8	10	12	11	11	15	13	12	7.7	6.0
5	4.2	5.3	8.4	9.8	8.1	11	10	13	12	13	7.0	6.0
6	4.2	5.3	9.1	8.1	8.1	10	9.8	12	12	12	7.0	6.0
7	4.2	6.0	12	7.7	8.1	10	10	12	12	11	7.0	5.6
8	4.2	5.3	9.5	7.4	8.1	12	9.8	14	11	11	7.7	6.0
9	4.2	4.9	8.8	9.5	7.7	11	9.5	17	11	11	7.7	6.0
10	14	4.9	8.4	9.1	7.7	11	9.5	13	11	11	7.4	6.0
11	6.3	4.9	8.4	8.1	7.4	11	9.5	12	11	11	7.4	6.0
12	5.6	4.9	8.1	8.1	7.7	12	9.1	12	11	11	7.4	6.0
13	5.3	4.9	7.7	8.4	12	11	17	12	11	13	7.7	6.0
14	5.3	4.9	7.7	8.1	8.4	12	12	12	11	11	7.7	6.0
15	5.3	5.3	8.1	7.7	8.1	14	11	16	11	9.8	12	6.0
16	5.3	4.9	7.7	7.7	8.1	12	13	13	12	9.5	7.0	6.0
17	4.9	4.9	7.7	7.7	8.1	14	13	13	16	9.5	6.6	5.6
18	4.9	4.9	7.7	7.7	8.1	12	11	13	16	9.5	6.3	5.6
19	4.9	4.9	7.4	7.4	19	12	11	12	15	9.5	6.3	9.5
20	4.6	4.9	8.4	7.4	11	12	12	18	12	9.5	6.0	5.3
21	4.9	4.6	7.7	7.4	9.8	12	11	14	12	9.5	5.6	5.3
22	4.9	4.6	7.4	7.4	9.5	13	14	14	16	9.5	5.6	5.3
23	4.9	4.6	7.4	7.4	9.5	12	13	12	14	9.1	5.6	5.3
24	8.1	4.9	7.4	7.4	9.8	12	15	12	16	9.1	5.6	5.3
25	7.7	14	7.0	7.4	9.5	11	12	12	12	8.8	5.3	5.6
26	5.6	6.3	7.4	7.4	13	11	12	12	11	8.8	5.3	5.6
27	5.3	11	7.0	7.4	10	11	12	11	11	8.4	5.3	5.6
28	5.3	12	7.4	7.7	10	11	11	11	11	8.1	5.3	5.3
29	5.3	19	7.0	7.4	10	11	12	11	12	8.1	5.3	5.3
30	5.3	14	10	7.0	-----	11	11	11	19	7.7	4.9	5.3
31	4.9	-----	7.7	7.0	-----	11	-----	12	-----	7.4	4.9	-----
TOTAL	168.2	198.9	254.7	243.6	276.8	356.6	341.2	398	385	315.8	206.7	176.8
MEAN	5.43	6.63	8.22	7.86	9.54	11.5	11.4	12.8	12.8	10.2	6.67	5.89
MAX	14	19	12	10	19	14	17	18	19	13	12	9.5
MIN	4.2	4.6	7.0	7.0	7.0	9.8	9.1	11	11	7.4	4.9	4.9
CAL YR 1971	TOTAL 2,708.2		MEAN 7.42	MAX 29	MIN 3.5							
WTR YR 1972	TOTAL 3,322.3		MEAN 9.08	MAX 19	MIN 4.2							

PEAK DISCHARGE (BASE, 55 CFS)

DATE	TIME	G. H.	DISCHARGE
11-29	2100	2.13	64

STREAMS ON LONG ISLAND

01308500 CARLLS RIVER AT BABYLON, N.Y.

LOCATION.--Lat 40°42'31", long 73°19'44", Suffolk County, on left bank in Babylon, 130 ft downstream from outlet of Southards Pond and 0.9 mile upstream from mouth.

DRAINAGE AREA.--About 35 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 10.63 ft above mean sea level.

AVERAGE DISCHARGE.--28 years, 25.7 cfs.

EXTREMES.--Current year: Maximum discharge, 155 cfs Nov. 30 (gage height 1.75 ft); minimum, 0.05 cfs Aug. 29 (gage height, 0.03 ft, result of regulation).

Period of record: Maximum discharge, 193 cfs June 23, 1967 (gage height 1.99 ft); minimum, 0.05 cfs Sept. 4, 1963, July 6, 1966, Aug. 29, 1972 (result of regulation); minimum gage height, 0.03 ft, July 6, 1966, Aug. 29, 1972 (result of regulation); minimum daily discharge, 4.5 cfs July 6, 1966.

REVISIONS.--The figures of minimum discharge for some water years have been revised as shown in the following table. They supersede figures published in the water-supply papers and WRD N.Y. report indicated.

WSP	WRD N.Y.	Water Year	Date	Discharge (cfs)	Gage height (feet)
1081		1947	Dec. 3, 1946	0.35	0.08
1232		1952	Feb. 14, 1952	0.96	0.12
1332		1954	Sept. 8, 1954	0.47	0.09
1552		1958	Feb. 9, 1958	0.96	0.12
1702		1960	Feb. 15, 1960	0.17	0.06
1902	1961	1961	Nov. 15, 1961	0.35	0.08
1902	1962	1962	Mar. 29, 1962	0.96	0.12
1902	1963	1963	Sept. 4, 1963	0.05	0.04

REMARKS.--Records good. Occasional regulation at outlet of Southards Pond. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	15	39	19	17	26	23	25	56	39	16	11
2	16	15	29	21	17	26	23	25	34	37	15	10
3	16	18	27	22	23	32	23	30	31	34	15	20
4	13	18	26	24	51	32	25	48	28	31	15	15
5	11	16	23	31	26	31	26	34	32	29	14	17
6	12	15	25	24	24	29	19	26	27	28	14	16
7	15	16	35	22	23	26	20	27	28	27	14	13
8	11	15	34	21	21	30	23	38	26	25	14	12
9	11	14	27	23	21	30	21	37	24	24	14	11
10	41	14	25	29	20	27	19	37	24	23	13	11
11	27	14	24	23	20	25	22	31	22	22	13	11
12	18	13	23	23	20	28	21	31	22	22	13	12
13	16	13	22	22	28	30	37	28	22	23	13	16
14	16	13	21	22	30	29	41	25	22	27	13	10
15	15	14	22	20	24	36	28	38	22	25	25	9.6
16	15	15	22	20	22	31	27	34	22	23	18	10
17	14	13	20	20	21	35	40	30	31	22	17	11
18	15	13	20	20	21	34	28	24	32	22	16	11
19	14	13	19	20	59	30	23	29	38	21	16	24
20	13	13	21	19	48	28	28	47	36	18	16	15
21	13	13	21	20	29	28	31	39	29	20	16	15
22	13	12	22	18	30	30	27	30	28	22	15	16
23	13	12	20	18	27	31	42	29	35	19	15	14
24	22	12	20	18	27	27	42	27	38	18	15	11
25	27	41	19	18	27	28	32	25	37	17	14	14
26	22	23	20	17	37	26	25	22	32	16	13	13
27	18	22	19	17	30	26	28	24	30	14	13	12
28	16	51	19	18	28	25	29	23	28	14	20	12
29	15	43	18	17	27	21	23	26	27	14	9.3	12
30	15	98	23	18	-----	22	26	24	30	14	12	13
31	15	-----	23	17	-----	24	-----	23	-----	16	12	-----
TOTAL	511	617	728	641	798	883	822	936	893	706	458.3	397.6
MEAN	16.5	20.6	23.5	20.7	27.5	28.5	27.4	30.2	29.8	22.8	14.8	13.3
MAX	41	98	39	31	59	36	42	48	56	39	25	24
MIN	11	12	18	17	17	21	19	22	22	14	9.3	9.6
CAL YR 1971	TOTAL 7,004.7	MEAN 19.2	MAX 102	MIN 8.2								
WTR YR 1972	TOTAL 8,390.9	MEAN 22.9	MAX 98	MIN 9.3								

01309500 MASSAPEQUA CREEK AT MASSAPEQUA, N.Y.

LOCATION.--Lat 40°41'20", long 73°27'19", Nassau County, on left bank 350 ft west of Garfield Street at Lake Shore Drive, Massapequa, 0.2 mile north of Massapequa Park, and 3,000 ft upstream from Clark Avenue Bridge and head of Massapequa Pond of Brooklyn water-supply system.

DRAINAGE AREA.--About 38 sq mi.

PERIOD OF RECORD.--June to October 1903 (in Professional Paper 44), December 1936 to current year (monthly means estimated December 1959 to February 1961). Published as Massatayun Creek at Massapequa December 1936 to September 1941.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 18.31 ft above mean sea level, adjustment of 1912. Prior to October 1903, staff gage at different datum. December 1936 to March 1961 at same site at datum 1.0 ft higher.

AVERAGE DISCHARGE.--35 years (1937-72), 11.1 cfs.

EXTREMES.--Current year: Maximum discharge, 263 cfs Nov. 29 (gage height, 1.94 ft); minimum discharge, 2.8 cfs Oct. 1, 2, 8, 9; minimum gage height, 0.65 ft Nov. 22-24.

Period of record: Maximum discharge, 387 cfs July 20, 1961 (gage height, 2.28 ft); minimum, 0.95 cfs Aug. 4, 1963, Nov. 2, 1965; minimum gage height, 0.32 ft, datum then in use, Aug. 1, 1954.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1141: Drainage area. WRD N.Y. 1970: 1966-69 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.4	8.6	5.8	5.4	8.1	8.1	8.6	57	20	7.2	4.3
2	8.7	3.7	7.2	8.6	5.4	7.7	7.7	8.6	14	13	6.7	4.3
3	4.0	5.8	7.2	6.7	26	20	8.1	13	12	13	6.7	9.8
4	3.4	4.3	6.7	12	22	10	9.0	19	16	12	6.7	4.9
5	3.1	3.7	6.7	11	8.1	12	8.1	11	14	13	6.7	4.6
6	3.1	3.7	7.9	7.7	7.7	8.6	8.1	9.5	10	12	6.7	4.6
7	3.1	4.3	15	6.7	7.2	8.1	8.1	9.5	11	11	6.3	4.3
8	3.1	3.7	9.0	6.3	6.7	11	8.1	12	9.0	11	6.3	4.3
9	2.8	3.7	7.7	8.2	6.7	8.6	7.7	13	8.0	11	5.8	4.3
10	30	3.7	7.2	9.2	6.3	7.7	8.1	14	8.5	9.5	5.8	4.3
11	7.2	3.4	6.7	6.7	6.3	7.7	8.6	11	7.5	9.5	5.4	4.3
12	4.6	3.4	6.7	5.4	6.3	10	8.6	10	7.0	9.0	5.4	4.3
13	4.3	3.4	6.7	6.7	16	11	24	9.5	7.0	18	5.4	4.6
14	4.0	3.4	6.7	6.7	8.1	11	12	9.5	7.0	11	5.4	4.6
15	4.0	3.7	6.7	5.8	7.2	13	10	16	7.5	9.5	12	4.3
16	3.7	3.7	6.7	7.7	6.7	10	10	12	10	9.0	5.8	4.3
17	3.7	3.4	6.7	6.3	6.7	18	17	11	15	8.6	5.8	4.3
18	3.7	3.4	6.7	4.9	6.3	12	10	10	35	8.6	5.8	4.3
19	3.4	3.7	6.3	6.6	44	9.5	9.5	9.5	25	8.1	5.4	14
20	3.4	3.7	7.7	6.3	13	8.6	12	16	12	8.1	4.9	4.9
21	3.4	3.7	7.2	5.4	10	8.6	9.5	16	11	8.6	4.9	4.9
22	3.4	3.4	6.3	6.3	9.0	11	13	12	20	8.6	4.9	4.9
23	3.4	3.4	5.8	6.3	8.6	10	16	11	15	7.7	4.9	4.6
24	6.8	3.4	6.7	6.7	8.6	9.0	15	11	25	6.7	4.9	4.3
25	6.3	20	6.7	5.8	8.6	8.6	11	10	11	6.7	4.9	4.3
26	4.3	5.8	6.7	5.4	17	8.6	10	9.5	12	7.2	4.9	4.3
27	4.0	12	5.8	5.4	9.5	8.6	9.5	9.0	12	7.2	4.9	4.3
28	4.0	17	5.8	5.4	9.0	8.6	9.0	9.0	11	6.7	4.9	6.3
29	3.7	55	5.4	5.4	8.6	8.6	9.0	8.6	12	7.2	4.9	4.9
30	3.7	22	8.4	5.4	-----	8.1	8.6	8.6	34	7.2	4.6	4.9
31	3.4	-----	5.8	5.4	-----	8.1	-----	16	-----	7.2	4.3	-----
TOTAL	152.5	220.9	221.4	208.2	311.0	310.4	313.4	353.4	455.5	305.9	179.2	151.3
MEAN	4.92	7.36	7.14	6.72	10.7	10.0	10.4	11.4	15.2	9.87	5.78	5.04
MAX	30	55	15	12	44	20	24	19	57	20	12	14
MIN	2.8	3.4	5.4	4.9	5.4	7.7	7.7	8.6	7.0	6.7	4.3	4.3

CAL YR 1971 TOTAL 2,406.6 MEAN 6.59 MAX 80 MIN 2.5
WTR YR 1972 TOTAL 3,183.1 MEAN 8.70 MAX 57 MIN 2.8

PEAK DISCHARGE (BASE, 110 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-10	1200	1.55	123	2-19	1200	1.65	153
11-29	2100	1.94	263	6-1	0100	1.78	198
2-3	2400	1.69	166				

01310500 EAST MEADOW BROOK AT FREEPORT, N.Y.

LOCATION.--Lat 40°39'56", long 73°34'13", Nassau County, on right bank in Freeport, 24 ft upstream from bridge on Hempstead-Babylon Turnpike and 400 ft west of Meadowbrook Parkway.

DRAINAGE AREA.--About 31 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 10.48 ft above mean sea level, adjustment of 1912. Prior to October 1885, determinations of flow by various methods at different site and datum. June to October 1903, weir in swamp at head of Brooklyn waterworks supply pond. January 1937 to November 1962, water-stage recorder and concrete control at site 81 ft east and at datum 0.44 ft higher.

AVERAGE DISCHARGE.--35 years (1937-72), 15.1 cfs.

EXTREMES.--Current year: Maximum discharge, 305 cfs Nov. 29 (gage height, 2.11 ft); minimum, 1.0 cfs Oct. 7-10 (gage height, 0.16 ft).

1903 and since 1937: Maximum discharge, 835 cfs Sept. 12, 1960 (gage height, 4.38 ft, datum then in use) from rating curve extended above 280 cfs on basis of flow-through-culvert and contracted-opening measurement of peak flow; no flow Aug. 26, 1971.

REVISIONS.--The figures of peak discharge for water years 1967 and 1970 have been revised to 323 cfs Mar. 7, 1967 (gage-height 2.18 ft) and 253 cfs Aug. 23, 1970 (gage-height 1.90 ft), superseding figures published in WRD N.Y. 1967 and 1970.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--The figures of peak discharge for water years 1967-71 have been revised as shown in the following table. They supersede figures published in WRD N.Y. 1967-71.

REVISED PEAK DISCHARGE.--1967: Mar. 7 (1000) 323 cfs (2.18 ft); June 23 (1000) 246 cfs (1.87 ft); Aug. 25 (1030) 270 cfs (1.97 ft).

1968: May 29 (0700) 307 cfs (2.13 ft).

1969: Dec. 4 (1400) 239 cfs (1.84 ft); July 28 (0900) 248 cfs (1.88 ft); Sept. 4 (1000) 265 cfs (1.95 ft).

1970: Feb. 3 (1530) 246 cfs (1.87 ft); Aug. 23 (1900) 253 cfs (1.90 ft).

1971: Sept. 12 (1400) 239 cfs (1.84 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.9	6.8	2.9	3.3	5.3	6.6	6.4	34	16	4.5	1.7
2	2.1	1.9	5.2	4.0	3.6	5.2	6.7	6.4	8.8	9.4	4.1	1.9
3	1.5	2.9	4.4	4.0	2.6	28	6.7	15	8.4	17	3.9	9.3
4	1.3	2.1	4.0	9.8	31	9.2	8.2	20	14	11	3.6	2.9
5	1.3	1.7	3.6	9.8	5.4	11	7.2	7.6	12	9.6	3.1	2.1
6	1.3	1.7	4.4	5.6	4.8	6.6	6.4	6.3	7.6	8.3	3.1	1.9
7	1.2	2.6	12	4.4	4.3	5.9	6.3	8.2	7.8	7.3	3.3	1.9
8	1.1	1.9	8.2	3.6	3.8	11	6.0	26	6.8	7.5	3.0	1.7
9	1.1	1.9	4.8	5.6	3.6	7.4	5.9	33	6.5	7.7	2.8	1.9
10	52	1.9	4.0	10	3.5	6.4	5.6	11	6.7	6.8	2.5	1.7
11	6.4	1.7	4.0	4.8	3.3	6.0	5.8	8.9	6.0	6.5	2.5	1.7
12	2.9	1.7	3.6	4.4	3.3	12	5.6	8.1	5.5	6.7	2.5	1.7
13	2.4	1.7	3.6	5.6	21	9.2	47	7.0	5.6	24	2.5	1.9
14	2.1	1.6	3.6	5.6	6.6	7.9	11	7.4	5.6	8.8	2.4	1.9
15	1.9	1.9	3.6	4.4	4.7	19	9.0	71	5.9	7.3	20	1.7
16	1.9	1.9	3.6	3.6	4.1	8.9	9.0	11	14	6.7	4.4	1.6
17	1.7	1.6	3.3	3.6	4.0	51	15	9.6	19	6.4	3.6	1.6
18	1.7	1.6	2.9	3.6	3.8	20	10	9.1	42	6.2	3.3	1.4
19	1.7	1.7	2.9	4.0	48	9.5	9.0	8.7	27	5.9	2.9	1.6
20	1.6	1.9	4.0	3.6	9.7	10	11	69	10	5.7	2.6	2.9
21	1.7	1.7	3.3	3.6	6.2	10	9.0	15	9.6	13	2.4	2.6
22	1.7	1.6	2.6	3.6	5.6	17	12	11	21	9.8	2.4	3.3
23	1.6	1.4	2.9	3.6	5.2	11	14	9.0	16	6.4	2.4	2.1
24	3.3	1.6	3.6	3.3	5.4	8.0	13	8.3	23	5.6	2.1	2.1
25	3.6	16	3.3	3.6	5.0	7.7	9.0	7.6	10	5.7	2.1	1.9
26	2.1	3.6	3.3	3.3	18	7.4	8.0	7.3	11	5.6	2.4	1.9
27	1.9	6.0	2.9	3.6	7.6	7.5	7.5	7.1	9.5	5.0	2.4	2.4
28	1.9	28	2.9	4.0	6.0	7.4	7.0	7.0	8.4	4.8	2.1	2.6
29	1.7	53	2.9	3.6	5.8	7.3	7.0	6.8	8.1	4.5	1.9	2.6
30	1.7	33	5.6	3.6	-----	7.3	6.4	6.8	30	4.2	1.9	2.6
31	1.7	-----	4.4	3.3	-----	7.1	-----	7.7	-----	4.6	1.7	-----
TOTAL	111.3	183.7	130.2	142.0	262.6	347.2	290.9	443.3	399.8	254.0	104.4	83.5
MEAN	3.59	6.12	4.20	4.58	9.06	11.2	9.70	14.3	13.3	8.19	3.37	2.78
MAX	52	53	12	10	48	51	47	71	42	24	20	16
MIN	1.1	1.4	2.6	2.9	3.3	5.2	5.6	6.3	5.5	4.2	1.7	1.4

CAL. YR 1971 TOTAL 2,248.68 MEAN 6.16 MAX 164 MIN 0
WTR YR 1972 TOTAL 2,752.90 MEAN 7.52 MAX 71 MIN 1.1

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-29	2230	2.11	305	5-15	0430	1.92	258

STREAMS ON LONG ISLAND

01311000 PINES BROOK AT MALVERNE, N.Y.

LOCATION.--Lat 40°39'59", long 73°39'35", Nassau County, on left bank 300 ft downstream from Lakeview Avenue and southern boundary of Malverne.

DRAINAGE AREA.--About 10 sq mi.

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

GAGE.--Water-stage recorder, with steel plate V-notch weir and concrete controls. Datum of gage is 7.11 ft above mean sea level, adjustment of 1912. Prior to 1894, determinations of flow by various methods, at different sites and datums. December 1936 to Oct. 1, 1970, at site 200 ft upstream and at datum 2.31 ft higher. Oct. 1, 1970 to May 31, 1972 supplementary gage on secondary channel 10 ft downstream at same datum.

AVERAGE DISCHARGE.--35 years (1937-72), 4.29 cfs.

EXTREMES.--Current year: Maximum discharge, 114 cfs Oct. 10 (gage height, 3.57 ft); no flow for all or part of many days during year. Since 1936: Maximum discharge, 346 cfs Sept. 12, 1960 (gage height, 4.51 ft) from rating extended above 95 cfs on basis of flow-through-culvert measurement of peak flow; no flow part of Sept. 12, 1963, and at times each year since 1964.

REMARKS.--Records poor prior to June and fair thereafter. Prior to Feb. 20, 1956, flow occasionally regulated by Pines Pond. Indeterminate diversion from Pines Pond for emergency municipal water supply for city of New York August 1953 to September 1954. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1432: 1937, 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.14	0	.16	.17	.24	.26	9.2	1.2	.04	0
2	.06	0	0	.68	.08	.17	.26	.26	.63	.38	.03	0
3	0	.10	0	.21	17	8.7	.26	3.6	.44	5.5	.03	.20
4	0	0	0	2.6	3.4	.22	.42	3.3	2.0	1.0	.02	0
5	0	0	0	1.2	.22	1.1	.29	.28	.72	.66	.01	0
6	0	0	.23	.21	.22	.18	.29	.24	.27	.39	0	0
7	0	.21	2.7	.18	.22	.18	.28	2.7	.31	.30	0	0
8	0	0	.40	.05	.22	.77	.28	8.0	.24	.43	0	0
9	0	0	.03	2.1	.18	.18	.26	11	.24	.33	0	0
10	27	0	0	.86	.16	.17	.84	.55	.24	.25	0	0
11	.22	0	0	.23	.18	.17	.30	.35	.21	.24	0	0
12	0	0	0	.20	.17	2.5	.24	.31	.21	.22	0	0
13	0	0	0	1.1	12	.22	14	.31	.19	8.5	0	.01
14	0	0	.03	.29	.23	3.0	.42	1.1	.19	.38	0	.01
15	0	.05	.12	.20	.20	2.7	.35	19	.19	.23	11	0
16	0	.01	.04	0	.19	.22	6.3	.52	3.3	.20	.01	0
17	0	0	0	0	.19	18	3.4	.42	6.0	.17	.01	0
18	0	0	.01	.07	.19	3.6	.29	.40	19	.17	0	0
19	0	0	0	.16	18	.23	.29	.40	5.3	.16	0	3.1
20	0	0	.14	.13	.24	.23	1.9	27	.49	.15	0	0
21	0	0	.09	.18	.22	.23	.29	.74	.39	2.4	0	.03
22	0	0	0	.06	.19	2.2	8.8	.55	6.2	.42	0	.01
23	0	0	0	.12	.20	.26	1.8	.48	3.6	.13	0	0
24	.19	.02	.08	.15	.19	.23	4.2	.42	3.7	.11	0	0
25	.09	16	.03	.12	.21	.23	.35	.38	.59	.16	0	0
26	0	.03	.10	0	7.5	.23	.29	.35	.59	.09	.01	0
27	0	6.2	0	0	.22	.23	.28	.31	.49	.08	0	.01
28	0	6.9	0	0	.18	.23	.28	.28	.44	.07	0	.03
29	0	18	0	.10	.18	.23	.29	.23	.88	.06	0	.04
30	0	2.0	3.3	.15	-----	.24	.28	.20	10	.04	0	.02
31	0	-----	.18	.02	-----	.24	-----	.90	-----	.04	0	-----
TOTAL	27.56	49.52	7.62	11.37	62.54	47.26	47.77	84.84	76.25	24.46	11.16	3.46
MEAN	.89	1.65	.25	.37	2.16	1.52	1.59	2.74	2.54	.79	.36	.12
MAX	27	18	3.3	2.6	18	18	14	27	19	8.5	11	3.1
MIN	0	0	0	0	.08	.17	.24	.20	.19	.04	0	0

CAL YR 1971 TOTAL 357.09 MEAN .98 MAX 45 MIN 0
WTR YR 1972 TOTAL 453.81 MEAN 1.24 MAX 27 MIN 0

PEAK DISCHARGE (BASE, 125 CFS).--No peak above base.

STREAMS ON LONG ISLAND

49

01311500 VALLEY STREAM AT VALLEY STREAM, N.Y.

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

DRAINAGE AREA.--About 4.5 sq mi.

PERIOD OF RECORD.--1851-52, 1854, 1856-57, 1885, 1894 (fragmentary in Professional Paper 44), July 1954 to current year. Prior to October 1956, published as Watts Creek at Valley Stream.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 7.49 ft above mean sea level. Prior to 1894, determinations of flow by various methods, at different sites and datums. July 1954 to July 16, 1964 at same site at datum 1.0 ft higher.

AVERAGE DISCHARGE.--18 years (1954-72), 3.23 cfs.

EXTREMES.--Current year: Maximum discharge, 88 cfs Oct. 10 (gage height, 2.62 ft); no flow for all or part of many days during year. Since 1954: Maximum discharge, 232 cfs Sept. 12, 1960 (gage height, 5.50 ft, from floodmarks); no flow at times each year since 1963.

REMARKS.--Records excellent except those above 50 cfs, which are fair. Flow regulated occasionally by cleaning operations at outlet of Valley Stream Pond above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1962-63(M), 1966-69(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.04		0	0	.13	.06	2.8	1.5	0	0
2	0	0	0		0	0	.35	.23	.42	.29	0	0
3	0	0	0		3.6	1.9	.13	.80	.23	1.7	0	0
4	0	0	0		6.9	.69	.06	1.4	.29	1.7	0	0
5	0	0	0		0	.13	0	.42	.35	.35	0	0
6	0	0	0		0	0	0	.23	.02	.23	0	0
7	0	0	0		0	0	0	.42	.02	.18	0	0
8	0	0	0		0	0	0	4.1	0	.23	0	0
9	0	0	0		0	0	0	5.4	0	.18	0	0
10	28	0	0		0	0	0	1.5	0	.13	0	0
11	1.2	0	0		0	0	0	.35	0	.06	0	.18
12	0	0	0		0	.18	0	.42	0	.09	0	0
13	0	0	0		3.3	.13	6.9	.29	0	3.6	0	0
14	0	0	0		.80	.69	1.4	.50	0	.92	0	0
15	0	0	0		0	3.3	0	14	0	.18	1.7	0
16	0	0	0		0	.23	2.1	.92	.80	.13	.02	0
17	0	0	0		0	9.9	5.1	.42	5.1	.09	0	0
18	0	0	0		0	5.4	.23	.35	13	.09	0	0
19	0	0	0		8.5	.42	.09	.35	2.8	.04	0	0
20	0	0	0		1.2	.23	.29	18	.42	.02	0	0
21	0	0	0		0	.13	.13	1.9	.29	.23	0	0
22	0	0	0		0	.50	1.9	.50	2.8	.18	0	0
23	0	0	0		0	.42	3.3	.13	1.7	0	0	0
24	0	0	0		0	.29	2.3	.13	2.3	0	0	0
25	0	.80	0		0	.04	.42	.09	.69	0	0	0
26	0	0	0		3.0	0	.18	0	.50	0	0	0
27	0	0	0		.18	0	.13	0	.35	0	0	0
28	0	3.0	0		0	0	.09	0	.35	0	0	0
29	0	18	0		0	0	.09	.04	.50	0	0	0
30	0	9.9	0		-----	0	.06	.06	5.4	0	0	0
31	0	-----	0		-----	0	-----	.18	-----	0	0	-----
TOTAL	29.2	31.70	.04	0	27.48	24.58	25.38	53.19	41.13	12.12	1.72	.18
MEAN	.94	1.06	.001	0	.95	.79	.85	1.72	1.37	.39	.056	.006
MAX	28	18	.04	0	8.5	9.9	6.9	18	13	3.6	1.7	.18
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CAL YR 1971	TOTAL 322.96		MEAN .88	MAX 68	MIN 0							
WTR YR 1972	TOTAL 246.72		MEAN .67	MAX 28	MIN 0							

HUDSON RIVER BASIN

01312000 HUDSON RIVER NEAR NEWCOMB, N.Y.

LOCATION.--Lat 43°58'00", long 74°07'55", Essex County, on right bank 30 ft downstream from bridge on State Highway 28N, 0.5 mile downstream from outlet of Harris Lake, 2 miles east of Newcomb, and 4 miles upstream from Wolf Creek.

DRAINAGE AREA.--192 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 1,550.38 ft above mean sea level. 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.

AVERAGE DISCHARGE.--47 years, 385 cfs (27.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,420 cfs May 4 (gage height, 9.63 ft); minimum, 56 cfs Sept. 29 (gage height, 1.30 ft).
Period of record: Maximum discharge, 7,440 cfs Jan. 1, 1949 (gage height, 11.40 ft); minimum, 11 cfs Sept. 3, 1934.

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

REVISIONS (WATER YEARS).--WSP 696: 1928(M). WSP 711: 1930(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	150	198	284	162	120	289	1,810	820	862	310	139
2	182	150	200	270	150	130	289	2,530	1,260	744	265	123
3	168	170	191	256	146	180	287	4,020	1,110	635	265	109
4	154	193	182	239	166	244	280	5,170	868	749	289	99
5	142	193	166	224	166	367	265	4,300	716	727	261	109
6	134	178	158	205	160	415	251	3,390	585	595	226	105
7	132	176	158	193	154	378	239	2,700	465	475	216	98
8	132	188	156	184	148	333	229	2,620	392	388	244	93
9	126	182	156	176	146	296	217	2,380	495	376	258	103
10	134	170	164	172	140	268	208	1,940	760	368	244	107
11	193	166	205	166	138	244	208	1,560	683	505	213	99
12	275	158	321	162	136	224	205	1,350	525	625	184	89
13	280	152	446	156	136	205	222	1,280	400	550	165	83
14	253	140	428	156	144	191	275	1,380	317	500	170	81
15	227	138	382	160	148	184	356	1,710	282	520	189	80
16	208	158	451	160	154	174	437	2,200	1,170	678	184	77
17	188	176	735	160	152	210	590	2,310	2,210	1,030	177	72
18	174	184	755	156	146	306	890	2,130	1,750	880	177	69
19	160	193	577	160	140	514	1,140	1,830	1,170	640	192	86
20	146	270	473	162	130	572	1,500	1,650	880	485	201	98
21	136	415	424	166	130	509	1,800	1,460	705	388	179	96
22	126	424	353	162	120	437	1,670	1,280	1,330	321	158	89
23	121	360	296	160	120	464	1,410	1,100	1,990	470	139	80
24	121	292	277	160	120	568	1,140	874	2,070	940	135	72
25	130	270	268	168	120	595	1,030	749	2,240	1,080	129	69
26	150	253	256	198	120	518	950	580	1,940	1,110	123	68
27	166	236	241	205	120	433	895	441	1,520	1,010	117	65
28	180	222	241	196	120	363	862	368	1,390	802	133	61
29	170	208	287	188	120	321	928	317	1,250	615	158	59
30	160	205	324	180	-----	304	1,220	275	982	475	172	68
31	150	-----	306	172	-----	294	-----	324	-----	376	158	-----
TOTAL	5,216	6,370	9,775	5,756	4,052	10,361	20,282	56,028	32,275	19,919	6,031	2,646
MEAN	168	212	315	186	140	334	676	1,807	1,076	643	195	88.2
MAX	280	424	755	284	166	595	1,800	5,170	2,240	1,110	310	139
MIN	121	138	156	156	120	120	205	275	282	321	117	59
CFSM	.88	1.10	1.64	.97	.73	1.74	3.52	9.41	5.60	3.35	1.02	.46
IN.	1.01	1.23	1.89	1.12	.79	2.01	3.93	10.86	6.25	3.86	1.17	.51

CAL YR 1971 TOTAL 151,315 MEAN 415 MAX 2,190 MIN 66 CFSM 2.16 IN 29.32
WTR YR 1972 TOTAL 178,711 MEAN 488 MAX 5,170 MIN 59 CFSM 2.54 IN 34.63

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE TIME G.H. DISCHARGE

5-04 0400 9.63 5,420

HUDSON RIVER BASIN

51

01314500 INDIAN LAKE NEAR INDIAN LAKE, N.Y.

LOCATION.--Lat 43°45'20", long 74°16'35", Hamilton County, at Indian Lake Dam on Indian River, and 2.0 miles south of village of Indian Lake.

DRAINAGE AREA.--131 sq mi.

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 1,617.95 ft above mean sea level, adjustment of 1912.

EXTREMES.--Current year: Maximum gage height observed, 35.5 ft June 25 (contents, 5,091,000,000 cu ft); minimum observed, 14.5 ft Apr. 13, 14 (contents, 1,580,000,000 cu ft).

Period of record: Maximum gage height observed, 38.8 ft Mar. 28, 1913 (contents, 5,781,000,000 cu ft); minimum, -1.10 ft, estimated, Feb. 13, 1948 (contents, 199,000,000 cu ft).

REMARKS.--Reservoir is formed by masonry dam, completed in 1898. Usable capacity, about 4,500,000,000 cu ft at gage height 33.38 ft (crest of spillway). Sills of double sluice gates at lowest outlet at gage height -2.41 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 furnished by Indian River Co.

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

14.5	1.580	30.0	4.853
20.0	2.403	35.5	5.091
25.0	3.206		

GAGE HEIGHT, IN FEET, AT 0630, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.20	18.40	16.90	21.50	22.80	18.90	16.00	25.00	34.00	34.10	33.30	31.60
2	24.90	18.20	16.90	21.60	22.80	18.60	15.90	26.10	34.30	34.00	33.40	31.40
3	24.60	18.10	16.90	21.60	22.80	18.50	15.80	27.90	34.40	33.70	33.50	31.10
4	24.50	18.00	17.00	21.70	22.80	18.80	15.70	29.90	34.40	33.60	33.60	31.00
5	24.30	17.90	17.00	21.80	22.70	19.00	15.60	31.00	34.30	33.50	33.50	30.90
6	24.00	17.70	17.10	21.90	22.50	19.20	15.50	31.80	34.20	33.40	33.50	30.80
7	23.80	17.40	17.10	21.90	22.20	18.90	15.40	32.40	34.10	33.30	33.40	30.70
8	23.50	17.40	17.30	22.00	22.10	18.80	15.20	33.00	34.00	33.20	33.50	30.60
9	23.20	17.20	17.30	22.10	21.80	18.80	15.00	33.50	34.00	33.10	33.40	30.50
10	23.00	17.10	17.40	22.20	21.50	18.60	14.90	33.80	34.00	33.10	33.40	30.40
11	22.80	17.00	17.50	22.40	21.20	18.30	14.70	34.00	34.00	33.30	33.30	30.40
12	22.60	16.80	17.60	22.60	20.90	18.10	14.60	34.20	34.00	33.40	33.30	30.30
13	22.50	16.60	18.10	22.80	20.50	17.90	14.50	34.20	34.00	33.40	33.20	30.10
14	22.30	16.40	18.40	23.00	20.20	17.60	14.30	34.30	34.00	33.40	33.20	30.10
15	22.10	16.30	18.50	23.10	20.00	17.40	14.70	34.40	34.00	33.40	33.10	30.00
16	21.90	16.20	18.80	23.10	19.80	17.10	15.00	34.60	34.00	33.40	33.00	29.90
17	21.60	16.00	18.90	23.10	19.70	16.90	15.50	34.90	34.00	33.40	33.00	29.80
18	21.50	16.00	19.20	23.10	19.60	16.90	16.10	34.90	34.00	33.40	32.90	29.70
19	21.20	16.00	19.50	23.10	19.60	16.80	17.00	34.80	34.00	33.40	32.70	29.70
20	21.00	16.10	19.90	23.20	19.60	16.70	18.20	34.60	34.00	33.30	32.50	29.60
21	20.90	16.20	20.20	23.20	19.60	16.60	19.40	34.40	34.00	33.20	32.50	29.50
22	20.50	16.30	20.40	23.20	19.50	16.50	19.90	34.30	34.40	33.20	32.40	29.40
23	20.40	16.40	20.40	23.20	19.50	16.50	21.00	34.20	35.10	33.20	32.30	29.30
24	20.00	16.50	20.40	23.00	19.50	16.60	21.40	34.10	35.30	33.20	32.30	29.20
25	19.80	16.60	20.50	23.00	19.40	16.60	21.80	34.00	35.50	33.10	32.20	29.10
26	19.70	16.50	20.50	22.90	19.40	16.60	22.30	34.00	35.40	33.20	32.00	29.10
27	19.50	16.60	20.60	22.90	19.30	16.60	22.70	34.00	35.10	33.20	31.90	29.00
28	19.30	16.70	21.10	22.80	19.20	16.50	23.10	33.90	34.80	33.20	31.80	28.90
29	19.10	16.80	21.10	22.80	19.00	16.40	23.70	33.90	34.50	33.20	31.80	28.80
30	18.90	16.90	21.20	22.80	-----	16.20	24.20	33.80	34.20	33.30	31.70	28.80
31	18.60	-----	21.40	22.80	-----	16.00	-----	33.80	-----	33.30	31.70	-----
MEAN	21.85	16.88	18.87	22.59	20.67	17.51	17.64	33.02	34.33	33.36	32.82	29.99
MAX	25.20	18.40	21.40	23.20	22.80	19.20	24.20	34.90	35.50	34.10	33.60	31.60
MIN	18.60	16.00	16.90	21.50	19.00	16.00	14.50	25.00	34.00	33.10	31.70	28.80
(#)	2.157	1.930	2.639	2.848	2.234	1.797	3.173	4.790	4.810	4.653	4.332	3.864
(#)	-410	-87.6	+265	+78.0	-245	-163	+531	+604	+7.70	-58.6	-120	-181

CAL YR 1971 MEAN 25.05 MAX 33.80 MIN 16.00 # -47.1
WTR YR 1972 MEAN 24.99 MAX 35.50 MIN 14.50 # +19.2

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

HUDSON RIVER BASIN

01315000 INDIAN RIVER NEAR INDIAN LAKE, N.Y.

LOCATION.--Lat 43°45'30", long 74°16'05', Hamilton County, on right bank 0.8 mile downstream from Indian Lake Dam, 1.0 mile upstream from Big Brook, and 2.0 miles south of village of Indian Lake.

DRAINAGE AREA.--132 sq mi.

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 mean sea level. Prior to Aug. 30, 1916, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--58 years (1912-13, 1915-72) 287 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 1,890 cfs June 24 (gage height, 5.60 ft); minimum observed, 7.7 cfs Jan. 18; minimum gage height, 0.44 ft Dec. 26.

Period of record: Maximum discharge, 3,460 cfs Mar. 28, 1913 (gage height, 7.8 ft); minimum, less than 1 cfs frequently, when entire flow of river is being stored in Indian Lake.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	580	540	40	9.5	334	600	508	15	291	1,200	11	418
2	580	520	40	9.5	334	420	508	18	439	1,160	11	592
3	600	500	40	9.5	334	50	504	23	640	1,090	14	486
4	600	497	40	9.5	457	50	500	453	623	985	80	235
5	635	489	40	9.5	746	50	497	592	619	693	249	235
6	705	486	41	9.8	738	500	497	394	611	519	246	235
7	701	482	27	9.8	734	740	493	397	511	515	246	235
8	697	474	9.5	9.6	730	740	489	439	275	344	246	235
9	693	471	9.5	9.6	726	760	486	627	272	257	246	232
10	689	467	9.9	9.4	717	780	482	656	272	260	243	232
11	685	460	12	9.4	713	780	482	668	272	260	240	232
12	681	457	11	9.4	705	760	478	672	272	257	240	232
13	676	450	9.9	9.2	701	740	482	681	269	257	240	232
14	672	446	9.5	9.2	697	720	196	697	269	257	240	232
15	660	439	9.9	9.0	572	705	12	759	269	257	240	232
16	660	436	14	9.0	263	697	13	1,060	269	257	240	229
17	640	322	11	8.4	263	697	18	1,300	269	257	240	229
18	620	263	9.9	8.0	263	693	18	1,460	269	255	390	229
19	620	131	9.5	9.0	263	689	20	1,360	269	255	568	229
20	600	40	9.5	9.5	260	685	19	1,160	266	257	401	229
21	580	40	9.5	9.5	263	676	15	1,050	272	255	237	229
22	580	40	9.5	129	260	676	13	884	713	255	237	229
23	580	40	9.2	341	260	685	13	611	1,580	263	237	229
24	580	40	9.5	338	260	685	13	500	1,810	257	237	229
25	580	40	9.5	341	257	685	13	306	1,730	193	436	227
26	580	40	9.2	341	257	681	13	297	1,600	12	631	227
27	580	40	9.2	341	257	676	12	291	1,460	12	418	227
28	560	40	11	338	255	619	12	285	1,350	11	240	227
29	560	40	9.9	338	348	515	14	281	1,260	11	237	227
30	560	40	9.5	338	-----	511	14	275	1,210	11	237	227
31	540	-----	9.5	338	-----	511	-----	281	-----	11	237	-----
TOTAL	19,274	8,770	508.6	3,378.3	12,967	18,776	6,834	18,492	20,231	10,883	8,015	7,718
MEAN	622	292	16.4	109	447	606	228	597	674	351	259	257
MAX	705	540	41	341	746	780	508	1,460	1,810	1,200	631	592
MIN	540	40	9.2	8.0	255	50	12	15	266	11	11	227

CAL YR 1971 TOTAL 143,051.6 MEAN 392 MAX 1,240 MIN 9.2
WTR YR 1972 TOTAL 135,846.9 MEAN 371 MAX 1,810 MIN 8.0

HUDSON RIVER BASIN

53

01315500 HUDSON RIVER AT NORTH CREEK, N.Y.

LOCATION.--Lat 43°42'03", long 73°59'02", Warren County, on left bank 125 ft upstream from bridge on State Highway 28N in village of North Creek, 500 ft upstream from North Creek, 26 miles downstream from Indian Lake.

DRAINAGE AREA.--792 sq mi.

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

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

AVERAGE DISCHARGE.--65 years, 1,520 cfs.

EXTREMES.--Current year: Maximum discharge, 20,200 cfs May 3 (gage height 10.63 ft); minimum, 424 cfs Sept. 18, 28, 29 (gage height, 2.75 ft); minimum daily, 424 cfs Sept. 29.

Period of record: Maximum discharge, 28,900 cfs Dec. 31, 1948 (gage height, 12.14 ft); minimum, 112 cfs July 26, 1934 (gage height, 1.96 ft); minimum daily, 114 cfs July 26, 1934.

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

REVISIONS (WATER YEARS).--WSP 621: Drainage area. WSP 1432: 1908-18, 1920, 1922.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,040	916	688	944	660	760	1,720	7,920	2,300	4,970	809	650
2	981	953	628	962	640	800	1,780	10,800	3,530	4,120	710	844
3	944	1,090	650	944	640	860	1,750	17,800	3,270	3,590	844	862
4	916	1,140	642	853	620	940	1,680	19,200	2,820	3,910	1,020	688
5	888	1,130	559	792	680	1,100	1,640	15,900	2,510	3,350	1,020	502
6	907	1,080	553	650	800	1,300	1,540	11,300	2,190	2,600	981	496
7	944	1,080	628	621	900	1,300	1,490	9,240	1,900	2,180	953	485
8	944	1,110	650	607	900	1,600	1,450	8,460	1,550	1,790	1,060	485
9	935	1,100	628	600	900	1,600	1,360	7,330	1,610	1,530	1,060	527
10	1,000	1,060	665	600	900	1,600	1,330	6,380	1,830	1,490	1,030	540
11	1,250	1,020	991	580	900	1,500	1,330	5,320	1,810	2,150	935	514
12	1,470	991	1,730	580	900	1,400	1,340	4,690	1,590	2,210	844	491
13	1,570	953	1,700	560	900	1,400	1,490	4,260	1,390	1,920	784	473
14	1,460	916	1,490	560	860	1,400	1,830	4,240	1,210	1,650	826	467
15	1,330	888	1,320	540	840	1,300	1,790	4,860	1,090	1,530	953	456
16	1,230	981	1,900	520	800	1,200	2,010	6,250	1,780	1,520	870	445
17	1,150	1,110	2,610	500	740	1,200	3,100	8,430	3,620	1,860	826	440
18	1,090	1,040	2,390	480	700	1,500	4,590	8,310	3,550	1,820	862	440
19	1,040	1,010	1,750	470	660	2,300	5,690	6,660	2,610	1,470	1,080	534
20	1,010	1,060	1,530	490	620	2,300	7,690	5,460	2,050	1,300	1,090	559
21	972	1,190	1,390	520	620	2,200	7,190	4,710	1,880	1,190	862	540
22	944	1,250	1,150	520	600	2,400	5,980	3,790	5,040	1,050	688	502
23	907	1,100	879	520	600	2,980	4,880	3,280	8,060	1,450	657	473
24	888	916	962	540	600	3,060	4,260	2,860	10,100	2,080	672	450
25	953	862	897	620	620	2,880	3,870	2,300	9,810	2,330	680	445
26	1,040	818	879	680	620	2,580	3,590	1,850	7,860	2,640	916	445
27	1,080	775	870	720	660	2,300	3,500	1,590	6,030	2,400	991	440
28	1,070	775	953	720	720	2,130	3,460	1,460	5,190	1,920	907	434
29	1,030	734	1,200	700	740	1,750	3,960	1,320	4,500	1,490	818	424
30	981	726	1,170	720	-----	1,740	5,420	1,200	4,300	1,170	759	479
31	944	-----	1,070	680	-----	1,700	-----	1,330	-----	953	695	-----
TOTAL	32,908	29,774	35,122	19,793	21,340	53,080	92,710	198,500	106,980	65,633	27,202	15,530
MEAN	1,062	992	1,133	638	736	1,712	3,090	6,403	3,566	2,117	877	518
MAX	1,570	1,250	2,610	962	900	3,060	7,690	19,200	10,100	4,970	1,090	862
MIN	888	726	553	470	600	760	1,330	1,200	1,090	953	657	424
CAL YR 1971	TOTAL 638,155		MEAN 1,748		MAX 10,600		MIN 381					
WTR YR 1972	TOTAL 698,572		MEAN 1,909		MAX 19,200		MIN 424					

HUDSON RIVER BASIN

01318500 HUDSON RIVER AT HADLEY, N.Y.

LOCATION.--Lat 43°19'08", long 73°50'41", Saratoga County, on right bank at Hadley, 400 ft downstream from outlet of Lake Luzerne and 0.3 mile upstream from Sacandaga River.

DRAINAGE AREA.--1,664 sq mi.

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

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

AVERAGE DISCHARGE.--51 years, 2,816 cfs.

EXTREMES.--Current year: Maximum discharge, 30,100 cfs May 5 (gage height, 16.14 ft); minimum, 789 cfs Sept. 29 (gage height, 2.12 ft); minimum daily, 810 cfs Sept. 29.

Period of record: Maximum discharge, 42,700 cfs Jan. 1, 1949 (gage height, 21.21 ft); minimum, 281 cfs Sept. 3, 1934 (gage height, 0.94 ft); minimum daily, 292 cfs July 24, 1934.

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

REVISIONS (WATER YEARS).--WSP 561: 1921-22. WSP 756: drainage area. WSP 1432: 1931 (m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,860	1,490	1,430	1,980	1,600	1,350	4,250	13,300	3,790	9,610	1,880	1,440
2	1,760	1,470	1,160	1,910	1,580	1,580	4,520	16,700	5,170	8,180	1,710	1,410
3	1,680	1,580	1,160	2,060	1,590	2,280	4,400	23,700	5,170	6,890	1,840	1,530
4	1,610	1,680	1,320	2,090	1,510	2,090	4,180	29,100	4,750	7,110	2,020	1,460
5	1,540	1,680	1,120	1,980	1,570	2,480	3,930	28,600	4,390	6,560	1,990	1,210
6	1,500	1,650	1,020	1,700	1,610	2,480	3,770	23,100	3,890	5,410	1,950	1,080
7	1,530	1,670	1,200	1,540	1,910	2,430	3,620	18,900	3,520	4,730	1,860	1,030
8	1,520	1,690	1,400	1,590	1,830	3,040	3,520	17,100	3,130	4,160	2,570	995
9	1,500	1,700	1,430	1,500	1,710	2,840	3,430	15,400	2,970	3,610	2,290	1,000
10	1,560	1,660	1,490	1,570	1,790	2,530	3,550	13,900	3,050	3,420	2,140	1,040
11	1,840	1,630	1,970	1,680	1,780	2,480	3,370	12,000	3,090	4,440	1,960	1,000
12	2,040	1,580	2,850	1,650	1,690	2,540	3,380	10,500	2,820	4,460	1,800	958
13	2,150	1,550	3,040	1,590	1,670	2,470	3,770	9,400	2,550	3,910	1,690	935
14	2,130	1,510	2,750	1,640	1,760	2,370	4,770	8,640	2,340	3,420	1,650	935
15	1,990	1,490	2,540	1,470	1,910	2,240	5,230	8,870	2,150	3,070	1,800	913
16	1,870	1,580	3,380	1,320	1,940	2,300	5,170	10,100	2,310	2,900	1,770	883
17	1,770	1,720	4,670	1,190	1,620	2,690	7,240	13,300	3,980	2,970	1,610	845
18	1,690	1,760	4,480	1,240	1,430	4,160	10,600	13,400	4,840	3,130	1,520	845
19	1,640	1,680	3,660	1,410	1,430	4,880	12,500	11,900	4,020	2,790	1,580	965
20	1,580	1,710	3,230	1,490	1,290	4,710	15,800	10,400	3,230	2,530	1,700	1,050
21	1,540	1,810	3,120	1,400	1,210	4,670	15,100	9,400	2,930	2,380	1,620	1,040
22	1,500	1,940	2,790	1,370	1,290	4,610	13,700	8,160	6,020	2,200	1,350	988
23	1,460	1,900	1,980	1,350	1,300	5,850	12,200	7,020	10,000	2,290	1,240	920
24	1,440	1,650	2,170	1,670	1,230	6,270	11,500	6,270	13,100	2,970	1,260	883
25	1,520	1,470	2,290	1,940	1,340	5,910	10,900	5,490	14,000	3,450	1,290	860
26	1,640	1,460	2,090	2,010	1,350	5,510	10,200	4,670	12,200	3,700	1,340	853
27	1,710	1,610	2,210	1,870	1,280	5,050	9,540	4,090	10,200	3,750	1,550	860
28	1,690	1,620	2,280	2,000	1,320	4,630	9,060	3,710	8,870	3,400	2,430	831
29	1,650	1,550	2,540	1,910	1,350	4,370	9,350	3,370	8,140	2,870	2,050	810
30	1,580	1,540	2,110	1,790	-----	4,200	10,700	3,050	7,970	2,430	1,730	845
31	1,530	-----	1,810	1,680	-----	4,130	-----	2,990	-----	2,100	1,560	-----
TOTAL	52,020	49,030	70,690	51,590	44,890	109,140	223,250	366,530	164,590	124,840	54,750	30,414
MEAN	1,678	1,634	2,280	1,664	1,548	3,521	7,442	11,820	5,486	4,027	1,766	1,014
MAX	2,150	1,940	4,670	2,090	1,940	6,270	15,800	29,100	14,000	9,610	2,570	1,530
MIN	1,440	1,460	1,020	1,190	1,210	1,350	3,370	2,990	2,150	2,100	1,240	810

CAL YR 1971 TOTAL 1,144,109 MEAN 3,135 MAX 18,400 MIN 595
WTR YR 1972 TOTAL 1,341,734 MEAN 3,666 MAX 29,100 MIN 810

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-20	1900	10.33	16,200	5-05	0100	16.14	30,100

HUDSON RIVER BASIN

55

01319000 EAST BRANCH SACANDAGA RIVER AT GRIFFIN, N.Y.

LOCATION.--Lat 43°28'25", long 74°13'25", Hamilton County, on left bank 300 ft upstream from highway bridge on Teachout Road at Griffin, 2.0 miles downstream from Georgia Creek, 3 miles upstream from mouth, and 7 miles upstream from Wells.

DRAINAGE AREA.--114 sq mi.

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

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

AVERAGE DISCHARGE.--39 years, 208 cfs (24.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,020 cfs May 3 (gage height, 9.30 ft); minimum, 20 cfs Sept. 18 (gage height, 1.18 ft).

Period of record: Maximum discharge, 10,700 cfs Dec. 31, 1948 (gage height, 14.35 ft, from floodmark), from rating curve extended above 4,400 cfs on basis of slope-area and contracted-opening measurements of peak flow; minimum observed, 2.4 cfs Sept. 20, 1939 (gage height, 0.30 ft).

REMARKS.--Records fair except those for winter periods, which are poor. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1111: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	75	95	170	100	74	230	2,110	192	1,060	41	75
2	56	85	104	160	98	100	260	2,580	171	582	40	59
3	50	123	110	150	96	200	240	3,850	136	427	99	49
4	46	111	110	150	94	350	230	2,900	161	458	123	44
5	44	101	92	150	94	280	220	2,240	176	324	78	39
6	42	92	90	140	92	230	200	1,370	133	252	57	33
7	44	103	86	130	90	200	190	1,490	123	200	63	28
8	42	115	103	120	86	180	180	1,200	107	176	372	26
9	41	94	103	100	86	170	170	1,110	173	188	202	31
10	66	90	127	96	84	150	170	916	147	218	151	30
11	153	92	334	92	82	140	180	695	113	702	107	25
12	144	88	471	90	82	130	200	569	93	416	86	22
13	133	84	349	86	82	130	250	522	80	276	75	22
14	113	66	257	84	88	120	300	492	74	210	74	28
15	99	70	222	84	94	110	410	537	72	163	90	27
16	88	120	817	76	96	110	500	878	212	139	67	23
17	79	143	722	72	96	250	1,220	1,780	160	131	65	21
18	73	136	450	72	90	500	1,610	1,420	111	107	73	21
19	67	139	236	72	82	440	2,070	1,020	92	89	77	60
20	62	196	242	72	76	380	2,610	669	89	78	59	51
21	58	184	230	74	72	350	1,540	522	200	83	47	37
22	56	158	180	76	68	300	1,080	403	1,410	72	40	30
23	53	122	210	80	68	500	796	315	1,670	117	36	24
24	52	98	220	100	68	450	808	259	2,800	158	56	23
25	88	97	220	120	68	350	896	210	1,610	111	67	24
26	128	114	200	170	70	310	921	173	1,150	104	53	26
27	120	108	156	150	70	280	811	145	714	90	103	32
28	106	103	189	140	70	260	778	124	504	72	460	32
29	95	93	233	130	70	240	1,060	107	403	60	246	28
30	87	100	178	120	-----	230	1,520	95	824	50	145	54
31	79	-----	180	110	-----	230	-----	123	-----	44	99	-----
TOTAL	2,427	3,300	7,316	3,436	2,412	7,744	21,650	30,824	13,900	7,157	3,351	1,024
MEAN	78.3	110	236	111	83.2	250	722	994	463	231	108	34.1
MAX	153	196	817	170	100	500	2,610	3,850	2,800	1,060	460	75
MIN	41	66	86	72	68	74	170	95	72	44	36	21
CFSM	.69	.96	2.07	.97	.73	2.19	6.33	8.72	4.06	2.03	.95	.30
IN.	.79	1.08	2.39	1.12	.79	2.53	7.06	10.06	4.54	2.34	1.09	.33

CAL YR 1971 TOTAL 81,964.9 MEAN 225 MAX 2,190 MIN 5.7 CFSM 1.97 IN 26.75
WTR YR 1972 TOTAL 104,541.0 MEAN 286 MAX 3,850 MIN 21 CFSM 2.51 IN 34.11

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-20	0100	8.36	3,070	6-24	1230	8.44	3,150
5-03	1330	9.30	4,020				

HUDSON RIVER BASIN

01321000 SACANDAGA RIVER NEAR HOPE, N.Y.

LOCATION.--Lat 43°21'10", long 74°16'15", Hamilton County, on left bank 1.5 miles downstream from West Branch Sacandaga River and 4.5 miles upstream from Hope.

DRAINAGE AREA.--491 sq mi.

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

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

AVERAGE DISCHARGE.--61 years, 1,080 cfs.

EXTREMES.--Current year: Maximum discharge, 13,100 cfs May 3 (gage height, 7.55 ft); minimum, 172 cfs Sept. 13, 24 (gage height, 1.73 ft); minimum daily, 176 cfs Sept. 24.
Period of record: Maximum discharge, 32,000 cfs Mar. 27, 1913 (gage height, 11.0 ft, from floodmarks at site then in use); minimum, about 16 cfs Sept. 30, 1913 (gage height, 1.17 ft); minimum daily, 18 cfs Sept. 20, 1913.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	494	390	465	980	520	520	1,340	7,540	1,240	4,090	340	412
2	435	416	383	900	500	560	1,430	9,350	1,260	2,720	340	358
3	390	532	431	880	480	900	1,390	12,400	1,090	2,370	538	322
4	383	512	418	840	460	1,400	1,300	10,700	1,390	2,340	602	310
5	372	481	364	780	460	1,400	1,220	9,000	1,620	1,850	495	292
6	353	450	422	700	460	1,300	1,170	6,870	1,380	1,540	428	255
7	350	483	456	640	460	1,200	1,110	6,670	1,310	1,270	467	229
8	302	521	556	620	460	1,100	819	6,000	1,110	1,140	1,570	220
9	309	471	563	580	460	1,000	812	6,030	1,480	1,030	950	227
10	425	459	697	560	470	940	819	5,330	1,410	1,020	876	216
11	880	447	1,440	540	470	900	905	4,560	1,190	2,420	736	195
12	769	428	1,950	520	500	880	954	3,520	1,020	1,720	635	182
13	727	417	1,510	500	520	860	1,290	3,140	844	1,430	557	189
14	618	399	1,240	490	540	840	2,220	3,010	719	1,220	516	235
15	552	386	1,160	490	560	820	2,350	3,080	685	1,120	505	224
16	536	442	2,770	480	540	800	2,250	4,540	1,300	1,050	433	203
17	493	498	2,820	480	520	1,300	4,230	6,290	1,180	979	411	191
18	452	496	1,930	480	500	2,800	5,810	5,040	953	795	414	189
19	446	521	1,300	480	490	2,400	7,000	3,970	869	681	418	278
20	417	727	1,350	490	470	2,000	9,190	2,960	873	733	365	264
21	371	747	1,280	500	460	1,770	6,910	2,700	2,130	420	319	226
22	382	696	1,040	500	450	1,840	5,470	2,180	7,110	561	287	205
23	364	611	771	500	450	3,000	4,690	1,640	7,430	999	266	186
24	356	493	917	540	450	2,710	4,180	1,530	10,200	852	292	176
25	442	515	1,110	640	450	2,160	4,430	1,310	6,400	899	355	177
26	544	510	1,080	660	460	1,840	4,520	1,140	5,300	733	370	183
27	542	513	1,030	660	460	1,630	4,150	980	3,620	639	377	216
28	502	496	1,180	620	480	1,460	4,010	845	3,050	531	1,100	204
29	465	488	1,300	580	500	1,390	4,520	771	2,500	460	654	190
30	435	501	1,120	560	-----	1,370	5,860	690	3,720	407	565	269
31	396	-----	1,020	540	-----	1,330	-----	815	-----	363	486	-----
TOTAL	14,502	15,046	34,073	18,730	14,000	44,420	96,349	134,601	74,383	38,382	16,667	7,023
MEAN	468	502	1,099	604	483	1,433	3,212	4,342	2,479	1,238	538	234
MAX	880	747	2,820	980	560	3,000	9,190	12,400	10,200	4,090	1,570	412
MIN	302	386	364	480	450	520	812	690	685	363	266	176

CAL YR 1971 TOTAL 398,678 MEAN 1,092 MAX 7,610 MIN 74
WTR YR 1972 TOTAL 508,176 MEAN 1,388 MAX 12,400 MIN 176

PEAK DISCHARGE (BASE, 9,100 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-20	0300	6.80	10,000	6-24	0300	7.22	11,600
5-03	1000	7.55	13,100				

01323500 GREAT SACANDAGA LAKE AT CONKLINGVILLE, N.Y.

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

DRAINAGE AREA.--1,044 sq mi.

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

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

EXTREMES.--Current year: Maximum elevation, 770.78 ft June 26 (contents, 37,470,000,000 cu ft); minimum, 745.15 ft Mar. 16 (contents, 11,760,000,000 cu ft).

Period of record: Maximum elevation, 770.78 ft June 26, 1972 (contents, 37,470,000,000 cu ft); minimum since first filling, 729.55 ft Mar. 30, 1940 (contents, 2,100,000,000 cu ft).

REMARKS.--Reservoir is formed by earth and concrete dam; storage began in March 1930; dam completed in 1930. Usable capacity for stream regulation, 29,670,000,000 cu ft between elevations 735.0 and 768.0 ft. Between elevations 768.0 and 771.0 ft (spillway crest) an additional 3,450,000,000 cu ft is available exclusively for flood storage. Elevation of inverts of three Dow valves is 699.0 ft. Capacity of 4,600,000 cu ft 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 sq mi.

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

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

745	11.64	765	30.94
750	15.94	770	35.56
755	20.61	775	42.46
760	25.61		

ELEVATION, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	761.12	757.74	754.58	755.37	753.32	747.92	746.41	763.35	767.58	769.60	764.64	761.43
2	760.99	757.59	754.42	755.39	753.17	747.62	746.45	764.47	767.64	769.36	764.47	761.22
3	760.90	757.44	754.32	755.52	753.07	747.50	746.52	765.67	767.64	768.94	764.44	761.12
4	760.87	757.29	754.09	755.42	753.01	747.43	746.53	767.05	767.82	768.55	764.36	761.16
5	760.71	757.14	753.97	755.35	752.95	747.59	746.50	768.26	768.10	768.10	764.24	761.07
6	760.56	756.98	753.97	755.25	752.80	747.59	746.42	768.83	768.16	767.72	764.21	760.84
7	760.40	756.89	753.87	755.14	752.68	747.42	746.35	769.08	768.20	767.36	764.22	760.62
8	760.20	756.91	753.75	755.02	752.57	747.27	746.25	769.23	768.22	767.10	764.17	760.38
9	760.02	756.77	753.65	754.94	752.42	747.05	746.13	769.44	768.28	766.86	764.13	760.14
10	759.97	756.62	753.57	754.99	752.27	746.82	746.00	769.68	768.30	766.61	764.05	760.02
11	760.05	756.47	753.59	754.90	752.12	746.57	745.90	769.74	768.30	766.60	763.93	759.94
12	759.95	756.31	753.82	754.81	751.97	746.30	745.85	769.64	768.26	766.67	763.81	759.71
13	759.83	756.13	754.15	754.71	751.80	746.03	746.08	769.46	768.16	766.66	763.76	759.49
14	759.71	756.03	754.12	754.62	751.75	745.78	746.76	769.23	768.08	766.62	763.74	759.36
15	759.58	756.02	754.12	754.52	751.65	745.57	747.48	769.03	768.00	766.54	763.61	759.16
16	759.42	755.90	754.45	754.42	751.53	745.29	748.12	768.90	767.99	766.45	763.48	758.93
17	759.36	755.76	754.75	754.36	751.38	745.19	748.97	769.03	767.97	766.34	763.35	758.82
18	759.35	755.62	754.97	754.23	751.25	745.42	750.34	769.15	767.92	766.22	763.22	758.75
19	759.18	755.48	755.01	754.13	751.13	745.70	751.76	769.09	767.88	766.10	763.06	758.56
20	759.03	755.38	755.17	754.02	751.06	745.82	753.58	768.92	767.82	766.00	762.98	758.38
21	758.86	755.34	755.21	753.92	750.72	745.81	755.20	768.71	767.78	765.90	762.96	758.16
22	758.70	755.38	755.17	753.79	750.38	745.78	756.30	768.42	768.46	765.74	762.80	757.96
23	758.53	755.26	755.05	753.71	750.07	745.99	757.20	768.12	769.09	765.68	762.63	757.71
24	758.44	755.12	755.00	753.64	749.76	746.28	757.99	767.87	770.12	765.60	762.50	757.57
25	758.47	755.00	755.03	753.65	749.44	746.40	758.77	767.63	770.70	765.50	762.36	757.51
26	758.36	754.92	755.23	753.65	749.17	746.47	759.55	767.50	770.76	765.45	762.18	757.28
27	758.23	754.78	755.36	753.65	748.88	746.49	760.25	767.39	770.62	765.42	762.12	757.06
28	758.10	754.72	755.39	753.63	748.57	746.48	760.90	767.34	770.26	765.34	762.16	756.82
29	757.97	754.74	755.43	753.60	748.25	746.43	761.57	767.45	769.84	765.18	762.00	756.60
30	757.83	754.68	755.43	753.52	-----	746.42	762.35	767.48	769.52	765.00	761.81	756.39
31	757.72	-----	755.43	753.43	-----	746.40	-----	767.47	-----	764.81	761.63	-----
MEAN	759.43	756.01	754.58	754.43	751.35	746.48	751.28	768.15	768.58	766.58	763.32	759.07
MAX	761.12	757.74	755.43	755.52	753.32	747.92	762.35	769.74	770.76	769.60	764.64	761.43
MIN	757.72	754.68	753.57	753.43	748.25	745.19	745.85	763.35	767.58	764.81	761.63	756.39
(*)	23.32	20.23	21.00	19.07	14.26	12.80	28.55	33.67	36.09	30.61	27.21	21.81
(#)	-1,314	-1,192	+287	-721	-1,920	-545	+6,076	+1,912	+934	-2,046	-1,269	-2,083

CAL YR 1971 MEAN 757.05 MAX 768.80 MIN 742.23 # +70.1

WTR YR 1972 MEAN 758.31 MAX 770.76 MIN 745.19 # -159

* Contents, in billions of cubic feet at 2400 on last day of month.

Change in contents, equivalent in cubic feet per second.

NOTE.--Eastern daylight time used Oct. 1-30, Apr. 30 to Sept. 30 to conform to requirements of regulation at points downstream.

01325000 SACANDAGA RIVER AT STEWARTS BRIDGE, NEAR HADLEY, N.Y.

LOCATION.--Lat 43°18'41", long 73°52'04", Saratoga County, on left bank 1.0 mile downstream from Stewarts Bridge, 1.1 miles west of Hadley, 1.4 miles upstream from mouth, and 1.5 miles downstream from Stewarts Bridge hydroelectric plant.

DRAINAGE AREA.--1,055 sq mi.

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.

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

AVERAGE DISCHARGE.--65 years, 2,094 cfs (adjusted for storage since 1930).

EXTREMES.--Current year: Maximum discharge, 11,100 cfs June 24 (gage height, 8.71 ft); minimum, 9.8 cfs Apr. 16; minimum daily, 10 cfs Apr. 16.

Period of record: Maximum discharge, about 35,500 cfs Mar. 28, 1913 (gage height, 12.36 ft, site and datum then in use); minimum, 5.3 cfs Mar. 17, 18, 1964, Apr. 29 to May 4, May 5, 6, 1965; minimum daily, 5.3 cfs Apr. 30 to May 3, 1965. Maximum discharge since construction of Conklingville Dam in 1930, 13,300 cfs July 1, 1968 (gage height, 9.54 ft).

REMARKS.--Records good. Flow regulated by Great Sacandaga Lake since Mar. 27, 1930 (see station 01323500); no discharge over spillway during year. Extensive diurnal fluctuation caused by release of water from Great Sacandaga Lake, through Elmer J. West hydroelectric station as directed by Board of Hudson River-Black River Regulating District, and through Stewarts Bridge hydroelectric station. Water-quality records published in Part 2 of this report for station 01325005 at Hadley, 1.3 miles downstream.

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

REVISIONS (WATER YEARS).--WSP 1302: 1908. WSP 1432: 1910-12, 1916-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,560	2,540	2,600	2,580	2,570	4,090	3,210	27	2,070	10,700	2,600	3,020
2	2,540	2,580	2,600	30	2,520	4,090	3,220	2,820	2,070	10,700	2,540	3,020
3	42	2,570	2,610	2,590	2,440	4,090	3,220	4,970	2,000	10,600	2,460	123
4	2,710	2,540	2,610	2,580	2,430	4,100	3,210	5,700	260	10,600	2,520	22
5	2,540	2,570	27	2,580	2,430	1,520	3,200	5,790	2,500	9,100	2,260	2,920
6	2,550	2,570	2,600	2,590	2,580	4,100	3,230	8,120	2,580	7,970	45	3,050
7	2,530	27	2,590	2,600	2,530	4,070	3,220	8,170	2,540	6,620	2,470	3,050
8	2,530	2,550	2,610	2,600	2,590	4,070	3,130	8,160	2,570	5,020	2,540	3,300
9	2,540	2,550	2,620	29	2,290	4,070	3,290	8,220	2,570	5,550	2,520	3,030
10	44	2,560	2,640	2,590	2,450	4,080	3,200	8,180	2,610	5,370	2,540	161
11	2,520	2,570	2,620	2,590	2,600	4,080	3,210	8,170	2,590	3,000	2,550	2,890
12	2,540	2,560	28	2,600	2,580	4,090	3,210	8,100	2,540	3,000	2,520	3,020
13	2,540	2,560	2,600	2,590	2,600	4,080	41	8,060	2,560	2,960	46	3,080
14	2,560	27	2,620	2,590	2,610	4,100	13	8,020	2,520	3,000	2,480	3,050
15	2,550	2,570	2,610	2,590	2,620	4,090	12	7,980	2,580	2,950	2,520	3,040
16	2,550	2,590	2,610	1,120	2,480	4,070	10	7,990	2,580	2,950	2,530	3,080
17	43	2,570	2,610	2,960	2,400	4,100	16	8,050	2,520	3,000	2,500	121
18	2,520	2,590	2,610	2,510	2,420	4,080	16	7,990	2,520	3,000	2,510	2,920
19	2,550	2,590	30	2,400	2,420	4,090	18	8,010	2,770	2,990	2,510	3,090
20	2,560	2,590	2,600	2,570	2,850	4,090	22	7,980	3,070	3,000	47	3,020
21	2,540	27	2,600	2,580	4,160	4,560	15	7,960	3,050	3,020	2,460	3,100
22	2,560	2,580	2,610	2,460	4,100	4,850	13	7,890	5,210	3,020	2,560	3,020
23	2,520	2,590	2,600	2,420	4,080	4,750	13	6,590	8,160	2,850	2,580	3,010
24	42	2,590	2,600	2,520	4,100	4,490	14	5,330	9,670	2,980	2,570	153
25	2,550	2,610	29	2,510	4,080	4,310	14	5,340	10,700	2,530	2,580	2,950
26	2,550	2,610	23	2,520	4,090	3,320	13	3,060	10,800	1,500	2,550	3,050
27	2,550	2,580	2,590	2,520	4,080	3,220	12	3,060	10,700	1,500	53	3,040
28	2,560	28	2,590	2,520	4,070	3,240	18	147	10,600	2,260	2,860	3,020
29	2,580	2,580	2,580	2,500	4,080	3,240	26	27	10,700	2,970	3,000	3,030
30	2,570	2,580	2,600	2,510	-----	3,220	26	2,040	10,800	2,890	3,030	3,060
31	29	-----	2,580	2,530	-----	3,210	-----	2,020	-----	2,970	3,020	-----
TOTAL	66,570	67,049	67,847	72,879	87,250	121,560	38,862	183,971	138,410	140,570	69,971	76,440
MEAN	2,147	2,235	2,189	2,351	3,009	3,921	1,295	5,935	4,614	4,535	2,257	2,548
MAX	2,710	2,610	2,640	2,960	4,160	4,850	3,290	8,220	10,800	10,700	3,030	3,300
MIN	29	27	23	29	2,290	1,520	10	27	260	1,500	45	22

Adjusted for change in contents in Sacandaga Reservoir and Stewarts Bridge pool

	MEAN	CFSM	IN	829	0.79	0.91	1.017	0.96	1.08	2.477	2.35	2.71	1.631	1.55	1.78	1.114	1.06	1.14	3.306	3.13	3.61	7.420	7.03	7.85	7.871	7.46	8.60	5.546	4.614	4.535	2.487	2.36	2.72	988	0.94	1.08	466	0.44	0.49
--	------	------	----	-----	------	------	-------	------	------	-------	------	------	-------	------	------	-------	------	------	-------	------	------	-------	------	------	-------	------	------	-------	-------	-------	-------	------	------	-----	------	------	-----	------	------

Observed

Adjusted

CAL YR 1971	TOTAL	812,497.2	MEAN	2,226	MAX	8,090	MIN	8.2	MEAN	2,294	CFSM	2.17	IN	29.52
WTR YR 1972	TOTAL	1,131,379.0	MEAN	3,091	MAX	10,800	MIN	10	MEAN	2,932	CFSM	2.78	IN	37.83

HUDSON RIVER BASIN

59

01327500 GLENS FALLS FEEDER AT DUNHAM BASIN, N.Y.

LOCATION.--Lat 43°18'15", long 73°32'49", Washington County, on left bank at Dunham Basin, 100 ft upstream from Bond Creek, 2.0 miles east of courthouse at Hudson Falls and 8.0 miles downstream from Hudson River feeder dam at Glens Falls.

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

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	122	83				-	113	172	186	106	130
2	101	120	79				-	34	163	111	130	117
3	108	129	81				-	73	172	133	206	126
4	101	118	110				-	367	172	117	179	133
5	103	120	118				4.5	184	174	100	177	111
6	97	114	79				2.6	36	172	86	209	126
7	93	120	3.4				3.1	24	159	82	191	113
8	92	124	2.1				2.0	28	148	73	184	106
9	90	120	2.4				7.0	113	146	89	159	108
10	97	112	4.0				14	57	137	201	137	130
11	95	83	112				16	46	137	271	137	135
12	101	83	51				16	39	137	168	119	95
13	114	81	1.8				141	34	130	150	128	113
14	105	84	1.5				144	36	126	144	124	119
15	105	81	1.8				57	37	126	128	117	117
16	103	84	-				46	122	128	126	137	106
17	105	83	-				117	381	126	130	139	119
18	110	81	-				51	201	150	159	124	111
19	120	83	-				32	141	161	259	115	104
20	114	81	-				102	133	157	211	141	122
21	105	83	-				49	130	146	155	128	122
22	97	81	-				4.8	126	159	141	119	117
23	99	81	-				4.5	115	234	102	115	100
24	110	79	-				3.7	106	360	128	122	117
25	110	81	-				3.1	100	251	201	130	108
26	114	81	-				2.8	91	219	216	119	100
27	120	79	-				3.1	80	97	214	150	104
28	120	79	-				24	75	115	186	177	104
29	131	77	-				126	82	113	122	157	104
30	122	84	-		-----		133	93	277	122	148	100
31	126	-----	-		-----		-----	161	-----	119	146	-----
TOTAL	3,316	2,828	-				-	3,358	4,964	4,630	4,470	3,417
MEAN	107	94.3	-				-	108	165	149	144	114
MAX	131	129	-				-	381	360	271	209	135
MIN	90	77	-				-	24	97	73	106	95

HUDSON RIVER BASIN

01328000 BOND CREEK AT DUNHAM BASIN, N.Y.

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

DRAINAGE AREA.--14.7 sq mi.

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

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

AVERAGE DISCHARGE.--25 years, 15.9 cfs (14.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 762 cfs Mar. 18 (gage height, 6.45 ft); minimum, 0.10 cfs Sept. 12, 13; (gage height, 1.56 ft).

Period of record: Maximum discharge, 1,370 cfs Dec. 31, 1948 (gage height, 8.52 ft); maximum gage height, 8.66 ft Mar. 5, 1964 (backwater from ice); minimum discharge, 0.10 cfs Aug. 1, 2, 1965, Aug. 25, Sept. 19, 20, 1968, Sept. 12, 13, 1972.

REMARKS.--Records fair except those for winter periods, which are poor. During canal navigation season, an indeterminate portion of flow is diverted at point 0.5 mile below gage into Lake Champlain basin through summit level of Champlain (Barge) Canal at Dunham Basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.7	16.	9.0	14	15	160	8.8	36	94	1.3	3.7
2	1.3	2.0	16	11	12	50	118	11	21	41	.64	3.7
3	1.3	2.5	6.8	11	11	80	96	45	14	47	8.4	3.1
4	1.5	2.5	5.6	11	10	200	85	208	18	34	5.5	2.8
5	1.3	2.0	4.6	10	14	150	55	127	40	16	2.3	2.3
6	1.1	1.5	4.9	10	11	100	47	56	23	13	3.7	1.5
7	1.1	2.0	6.2	9.6	10	80	43	34	15	12	3.4	.84
8	.77	2.0	7.9	9.4	9.0	70	31	27	14	12	1.5	.64
9	.92	1.7	9.8	9.2	8.0	60	43	73	31	13	.84	1.1
10	1.7	1.7	28	9.0	7.4	45	66	47	14	18	.84	.84
11	4.0	1.7	117	9.0	10	50	72	34	11	25	.64	.29
12	3.2	2.0	86	9.2	15	60	72	24	11	15	.84	.15
13	1.7	1.7	31	10	20	90	133	17	7.0	14	1.7	.29
14	1.3	1.7	24	20	25	120	130	12	6.2	12	2.3	1.3
15	.92	2.2	31	35	30	150	78	13	7.7	15	1.3	2.5
16	.92	3.7	91	24	40	200	73	37	20	13	1.3	2.8
17	1.3	4.0	58	17	30	270	113	113	14	12	1.5	2.5
18	1.1	3.0	28	12	20	670	73	34	11	7.3	2.5	2.0
19	.92	2.7	20	11	15	369	52	21	5.9	15	3.7	4.0
20	.92	3.0	13	10	10	276	90	17	7.0	10	3.4	4.8
21	1.3	3.0	11	10	7.0	205	69	20	12	8.0	2.5	4.2
22	.92	3.2	8.7	11	6.0	276	38	16	19	5.5	1.7	3.4
23	1.1	3.0	6.6	12	5.0	441	44	16	16	10	1.1	2.3
24	1.3	2.2	13	20	4.5	232	30	18	103	7.0	1.7	2.0
25	1.7	2.0	19	30	4.2	137	21	16	60	5.5	3.1	2.0
26	2.5	2.5	11	35	4.0	115	16	7.0	66	6.2	2.5	2.3
27	3.0	2.7	7.5	30	3.5	70	13	5.9	26	4.8	10	2.3
28	3.0	3.7	13	25	4.5	60	11	7.3	18	3.1	18	1.5
29	2.2	5.3	14	20	6.0	45	10	12	16	1.7	7.7	1.3
30	2.0	14	8.2	18	-----	60	8.8	14	119	2.0	4.8	1.7
31	2.2	-----	9.8	16	-----	80	-----	17	-----	3.1	4.0	-----
TOTAL	50.49	86.9	726.6	483.4	366.1	4,826	1,890.8	1,108.0	781.8	495.2	104.70	64.15
MEAN	1.63	2.90	23.4	15.6	12.6	156	63.0	35.7	26.1	16.0	3.38	2.14
MAX	4.0	14	117	35	40	670	160	208	119	94	18	4.8
MIN	.77	1.5	4.6	9.0	3.5	15	8.8	5.9	5.9	1.7	.64	.15
CFSM	.11	.20	1.59	1.06	.86	10.6	4.29	2.43	1.78	1.09	.23	.15
IN.	.13	.22	1.84	1.22	.93	12.21	4.78	2.80	1.98	1.25	.26	.16

CAL YR 1971 TOTAL 6,568.45 MEAN 18.0 MAX 309 MIN .77 CFSM 1.22 IN 16.62
WTR YR 1972 TOTAL 10,984.14 MEAN 30.0 MAX 670 MIN .15 CFSM 2.04 IN 27.80

PEAK DISCHARGE (BASE, 400 CFS)

DATE TIME G.H. DISCHARGE DATE TIME G.H. DISCHARGE
3-18 1800 6.45 762 3-23 0100 5.91 618

HUDSON RIVER BASIN

61

01329000 Batten Kill at Arlington, Vt.

LOCATION.--Lat 43°04'38", long 73°09'26", Bennington County, on left bank 5 ft upstream from bridge on Highway 313 at Arlington and 0.9 mile downstream from Warm Brook.

DRAINAGE AREA.--152 sq mi.

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

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

AVERAGE DISCHARGE.--44 years, 327 cfs (29.21 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,410 cfs May 4 (gage height, 7.79 ft); minimum, 79 cfs Oct. 4, 5, 6, Sept. 13.
Period of record: Maximum discharge, 11,100 cfs Mar. 18, 1936 (gage height, 11.3 ft, from floodmarks, present site), from rating curve extended above 5,200 cfs on basis of slope-area measurement at gage height 10.8 ft and computation of peak flow over dam; minimum, 37 cfs Sept. 25, 1964.

REMARKS.--Records good. Prior to 1949, diurnal fluctuation at low flow caused by mill above station.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 851: 1936 (maximum gage height). WSP 1302: 1929-34(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	94	175	262	239	220	383	1,490	1,070	952	165	94
2	82	107	138	273	227	605	413	1,990	793	648	158	91
3	81	135	140	410	220	1,140	365	2,360	460	556	177	91
4	80	116	143	314	234	677	333	3,160	440	800	181	91
5	80	105	121	265	238	474	314	2,700	490	523	156	90
6	82	100	153	232	230	355	302	1,760	386	430	143	86
7	90	131	531	260	205	317	297	1,580	518	369	140	85
8	86	149	455	215	200	416	275	1,550	518	313	165	83
9	82	120	314	215	190	343	273	1,780	1,210	336	150	87
10	189	111	428	416	180	269	285	1,540	891	306	143	87
11	420	114	767	394	175	257	296	1,090	600	302	133	83
12	228	112	774	410	170	261	304	845	460	278	126	80
13	166	113	518	363	202	251	495	826	395	242	126	87
14	139	106	397	686	398	245	640	826	351	234	131	181
15	125	110	367	457	324	235	516	952	313	216	138	190
16	121	185	682	326	304	230	515	884	690	201	122	122
17	110	166	712	309	228	632	848	1,000	714	242	136	104
18	105	141	484	304	209	1,010	1,050	1,300	430	196	138	98
19	102	159	324	338	183	615	1,290	897	373	218	136	206
20	99	238	324	311	200	431	2,040	690	369	263	119	194
21	99	187	311	280	195	387	1,630	660	317	213	110	133
22	97	170	265	251	188	469	1,120	551	317	192	104	128
23	94	150	219	404	170	709	1,090	455	690	332	100	113
24	93	123	381	421	175	546	1,300	395	1,370	395	131	103
25	102	128	631	556	169	437	1,300	347	1,180	324	116	101
26	119	148	417	517	167	386	1,160	306	1,350	302	106	100
27	117	149	343	383	165	351	952	289	845	299	103	113
28	107	148	371	331	161	324	825	269	578	234	124	104
29	101	150	367	299	161	326	936	251	450	199	118	96
30	97	212	300	269	-----	364	1,180	237	654	181	104	104
31	94	-----	269	254	-----	350	-----	347	-----	167	98	-----
TOTAL	3,672	4,177	11,821	10,725	6,107	13,632	22,727	33,327	19,222	10,463	4,097	3,325
MEAN	118	139	381	346	211	440	758	1,075	641	338	132	111
MAX	420	238	774	686	398	1,140	2,040	3,160	1,370	952	181	206
MIN	80	94	121	215	161	220	273	237	313	167	98	80
CFSM	.78	.91	2.51	2.28	1.39	2.89	4.99	7.07	4.22	2.22	.87	.73
IN.	.90	1.02	2.89	2.62	1.49	3.34	5.56	8.16	4.70	2.56	1.00	.81
CAL YR 1971	TOTAL 110,000 MEAN 301 MAX 1,980 MIN 80 CFSM 1.98 IN 26.92											
WTR YR 1972	TOTAL 143,295 MEAN 392 MAX 3,160 MIN 80 CFSM 2.58 IN 35.07											

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-4	1830	7.79	3,410				

HUDSON RIVER BASIN

01330500 KAYADEROSSERAS CREEK NEAR WEST MILTON, N.Y.

LOCATION.--Lat 43°02'18", long 73°54'35", Saratoga County, on left bank 600 ft downstream from Glowegee Creek, 1.0 mile east of West Milton, and 3.5 miles northwest of Ballston Spa.

DRAINAGE AREA.--90 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--45 years, 131 cfs (19.77 inches per year).

EXTREMES.--Current: Maximum discharge, 1,680 cfs May 4 (gage height, 6.12 ft); minimum, 28 cfs Nov. 25 (gage height, 1.31 ft).
Period of record: Maximum discharge, 4,710 cfs Mar. 18, 1936 (gage height, 10.78 ft, from floodmarks); minimum, 6.1 cfs Aug. 23, 1927 (gage height, 0.86 ft); minimum daily, 12 cfs Aug. 5-9, Sept. 8, 1964.

REMARKS.--Records good except those for winter periods, which are poor. Slight occasional diurnal fluctuation at low flow caused by mills above station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 741: Drainage area. WSP 1202: 1935-40.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	43	105	100	90	88	342	362	317	795	62	44
2	36	49	107	100	88	130	375	375	217	388	64	42
3	35	61	131	98	86	220	324	575	155	400	100	42
4	33	53	83	96	86	180	300	1,040	270	484	180	41
5	33	49	125	96	88	160	233	1,070	263	273	108	38
6	36	48	143	94	92	140	208	550	241	220	85	37
7	39	54	119	94	92	130	190	405	254	181	78	36
8	35	57	121	92	90	120	170	374	173	188	84	37
9	36	50	107	92	90	110	183	628	343	165	75	41
10	75	49	135	92	90	100	238	482	214	149	69	39
11	108	50	276	100	88	94	285	354	154	173	63	35
12	79	50	270	110	88	90	363	285	126	134	59	35
13	57	49	188	120	90	88	551	245	116	116	58	47
14	51	45	145	150	110	88	784	222	107	110	64	103
15	48	45	170	120	130	88	705	312	101	100	70	87
16	45	62	366	110	150	92	569	351	150	95	57	59
17	42	60	342	100	140	180	928	408	140	162	63	51
18	42	82	220	100	120	438	1,100	292	107	110	65	49
19	40	60	141	94	110	360	990	239	135	93	63	141
20	39	70	149	92	100	261	1,160	228	136	87	54	87
21	40	65	129	90	90	213	848	254	204	110	50	62
22	40	69	117	90	80	230	632	203	642	91	48	55
23	44	61	127	96	74	417	688	171	636	118	48	49
24	40	51	168	100	74	324	604	153	1,050	135	68	47
25	56	43	215	130	74	250	549	135	645	123	60	49
26	69	67	163	150	74	213	456	121	465	111	52	49
27	60	66	119	130	76	190	400	121	317	95	52	48
28	53	69	153	120	80	175	361	112	249	85	80	48
29	49	80	160	110	82	198	356	105	198	75	62	43
30	47	108	108	100	-----	243	353	97	665	70	52	52
31	44	-----	121	96	-----	243	-----	224	-----	67	47	-----
TOTAL	1,489	1,765	5,023	3,262	2,722	5,853	15,245	10,493	8,790	5,503	2,140	1,593
MEAN	48.0	58.8	162	105	93.9	189	508	338	293	178	69.0	53.1
MAX	108	108	366	150	150	438	1,160	1,070	1,050	795	180	141
MIN	33	43	83	90	74	88	170	97	101	67	47	35
CFSM	.53	.65	1.80	1.17	1.04	2.10	5.64	3.76	3.26	1.98	.77	.59
IN.	.62	.73	2.08	1.35	1.13	2.42	6.30	4.34	3.63	2.27	.88	.66

CAL YR 1971 TOTAL 47,674 MEAN 131 MAX 916 MIN 26 CFSM 1.46 IN 19.71
WTR YR 1972 TOTAL 63,878 MEAN 175 MAX 1,160 MIN 33 CFSM 1.94 IN 26.40

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-17	2330	5.56	1,380	6-24	1130	5.27	1,240
4-20	1930	5.45	1,320	6-30	1830	5.29	1,250
5-04	2200	6.12	1,680				

HUDSON RIVER BASIN

63

01332500 Hoosic River near Williamstown, Mass.

LOCATION.--Lat 42°42'21", long 73°10'50", Berkshire County, on left bank 1.0 mile upstream from Green River and 1.2 miles east of Williamstown.

DRAINAGE AREA.--132 sq mi.

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

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

AVERAGE DISCHARGE.--32 years, 265 cfs (27.26 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,100 cfs May 3 (gage height, 7.17 ft), from rating curve extended above 1,600 cfs on basis of slope-area measurement of peak flow; minimum, 67 cfs Sept. 6, 10-13, 25-27, 29, 30; minimum daily, 67 cfs Sept. 10-12, 26.

Period of record: Maximum discharge, 13,000 cfs Dec. 31, 1948 (gage height, 14.85 ft), from rating curve extended above 4,300 cfs on basis of contracted-opening measurement of peak flow; minimum, 5.8 cfs Aug. 30, 31, Oct. 26, 1940; minimum daily, 25 cfs Sept. 2, 1968.

REMARKS.--Records good. Slight diurnal fluctuation at low flow prior to 1966 caused by mills above station. Some regulation by Cheshire Reservoir 17 miles upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	98	193	233	181	229	404	964	1,570	1,230	97	78
2	113	160	145	273	178	580	440	1,140	760	675	94	78
3	100	197	138	409	174	780	364	1,500	526	815	110	78
4	97	138	152	303	249	422	324	2,730	508	1,060	110	78
5	94	120	131	278	205	294	303	1,400	535	635	97	78
6	94	117	145	225	195	249	294	870	467	571	94	72
7	110	181	625	245	180	249	290	740	780	481	94	88
8	120	178	494	221	165	265	269	790	535	413	134	90
9	100	138	350	220	165	209	269	1,120	1,150	341	107	89
10	260	131	431	481	160	185	290	790	800	311	113	67
11	520	131	881	472	155	185	307	645	580	303	100	67
12	250	124	675	422	150	181	341	562	476	265	84	67
13	190	120	476	386	320	205	630	472	418	245	84	77
14	220	124	386	710	571	201	805	360	350	225	84	143
15	250	124	404	422	368	178	635	400	316	193	84	104
16	240	152	710	294	294	185	725	470	320	174	84	71
17	220	145	640	269	217	680	1,700	700	299	174	84	70
18	200	134	467	278	193	1,000	1,600	1,200	253	138	84	69
19	170	138	355	290	150	530	1,990	600	290	138	87	95
20	200	152	355	261	135	409	3,290	520	364	145	84	84
21	190	138	341	249	160	400	1,540	500	245	138	84	69
22	150	141	299	233	150	845	1,000	450	303	127	84	71
23	120	131	253	273	160	1,120	1,240	480	616	145	84	69
24	100	117	386	273	155	598	1,330	390	1,540	167	84	69
25	110	117	508	427	163	481	1,150	346	1,060	138	84	68
26	105	134	359	329	152	422	1,000	253	1,140	155	84	67
27	105	127	346	245	152	386	830	233	695	124	94	69
28	100	134	355	233	148	359	725	209	535	117	193	69
29	100	148	320	217	159	400	855	185	440	110	107	69
30	98	253	278	205	-----	418	914	170	1,220	103	84	69
31	96	-----	265	197	-----	341	-----	553	-----	97	78	-----
TOTAL	4,922	4,242	11,863	9,573	5,804	12,986	25,854	21,742	19,091	9,953	2,569	2,332
MEAN	159	141	383	309	200	419	862	701	636	321	95.8	77.7
MAX	520	253	881	710	571	1,120	3,290	2,730	1,570	1,230	193	143
MIN	94	98	131	197	135	178	269	170	245	97	78	67
CFSM	1.20	1.07	2.90	2.34	1.52	3.17	6.53	5.31	4.82	2.43	.73	.59
IN.	1.39	1.20	3.34	2.70	1.64	3.66	7.29	6.13	5.38	2.80	.84	.66

CAL YR 1971 TOTAL 93,666 MEAN 257 MAX 1,610 MIN 52 CFSM 1.95 IN 26.40
WTR YR 1972 TOTAL 131,331 MEAN 359 MAX 3,290 MIN 67 CFSM 2.72 IN 37.01

PEAK DISCHARGE (BASE, 2,400 CFS).

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	1615	7.09	4,000				
5-3	2400	7.17	4,100				

NOTE.--Discharge, in cubic feet per second per square mile, and runoff in inches may not represent natural flow because of regulation.

HUDSON RIVER BASIN

01333000 Green River at Williamstown, Mass.

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

DRAINAGE AREA.--42.6 sq mi.

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

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

AVERAGE DISCHARGE.--23 years, 77.5 cfs (24.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,470 cfs June 24 (gage height, 4.10 ft); minimum, 7.8 cfs Sept. 24, 29.

Period of record: Maximum discharge, 2,730 cfs June 15, 1969 (gage height, 4.94 ft), from rating curve extended above 750 cfs on basis of slope-area measurement at gage height 4.94 ft; maximum gage height, 5.94 ft Sept. 12, 1960; minimum discharge, 3.1 cfs Sept. 20, 22, 24, 25, 1964.

Flood of Dec. 31, 1948, reached a stage of about 7.5 ft, from floodmarks.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Slight diurnal fluctuation at times caused by mill above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	24	50	87	60	66	127	167	355	360	21	12
2	24	48	42	142	54	474	128	213	183	251	20	12
3	24	37	40	143	49	317	111	388	138	275	21	11
4	23	33	40	110	61	139	101	698	135	235	20	11
5	22	30	35	101	44	114	93	451	156	183	18	10
6	22	28	45	79	46	85	90	311	159	156	17	10
7	23	55	200	89	44	87	86	243	280	130	18	10
8	21	50	160	78	35	105	78	251	206	114	30	9.4
9	20	44	120	109	38	74	83	335	570	98	20	9.4
10	124	40	200	183	35	65	93	239	355	86	20	8.9
11	110	40	300	161	33	64	94	196	247	78	17	8.6
12	69	38	240	141	31	63	106	167	189	66	16	8.3
13	55	36	180	167	84	78	358	145	156	60	16	12
14	49	36	150	254	120	62	260	130	130	57	17	18
15	44	35	195	175	75	57	201	143	112	50	19	14
16	40	47	239	107	54	58	269	162	102	45	15	11
17	37	42	209	118	40	459	510	173	91	44	15	10
18	35	38	176	133	35	374	450	203	78	38	15	11
19	33	36	143	126	18	158	542	159	104	36	14	11
20	32	40	139	101	24	122	910	145	116	35	13	9.7
21	30	41	127	91	35	126	514	130	84	33	12	8.9
22	29	37	107	80	36	474	355	112	89	31	12	9.4
23	28	33	87	97	30	439	382	100	340	31	11	8.3
24	28	29	156	87	31	236	360	88	830	35	12	8.3
25	30	30	146	160	30	176	302	78	674	34	12	8.9
26	29	37	119	75	29	149	247	69	549	36	11	8.9
27	28	35	119	73	27	127	206	62	335	28	18	9.4
28	27	40	124	80	28	114	173	56	239	25	47	8.6
29	26	38	109	77	30	122	164	51	180	24	18	8.3
30	25	70	103	72	-----	117	162	48	500	22	15	11
31	24	-----	94	67	-----	112	-----	140	-----	21	13	-----
TOTAL	1,137	1,167	4,194	3,563	1,256	5,213	7,555	5,853	7,682	2,717	543	307.3
MEAN	36.7	38.9	135	115	43.3	168	252	189	256	87.6	17.5	10.2
MAX	124	70	300	254	120	474	910	698	830	360	47	18
MIN	20	24	35	67	18	57	78	48	78	21	11	8.3
CFSM	.86	.91	3.17	2.70	1.02	3.94	5.92	4.44	6.01	2.06	.41	.24
IN.	.99	1.02	3.66	3.11	1.10	4.55	6.60	5.11	6.71	2.37	.47	.27
CAL YR 1971	TOTAL 29,905.6	MEAN 81.9	MAX 521	MIN 8.5	CFSM 1.92	IN 26.11						
WTR YR 1972	TOTAL 41,187.3	MEAN 113	MAX 910	MIN 8.3	CFSM 2.65	IN 35.97						

PEAK DISCHARGE (BASE, 850 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	1330	4.08	1,450	6-9	0900	3.69	1,010
3-22	2300	3.71	1,040	6-24	0745	4.10	1,470
4-20	1345	4.04	1,400	6-30	1515	3.91	1,250
5-3	2245	3.95	1,300				

NOTE.--No gage-height record Nov. 3 to Dec. 14.

HUDSON RIVER BASIN

65

01333500 LITTLE HOOSIC RIVER AT PETERSBURG, N.Y.

LOCATION.--Lat 42°45'50", long 73°20'16", Rensselaer County, on left bank 100 ft downstream from highway bridge on dirt road, 1.0 mile downstream from Petersburg, and 4.9 miles upstream from mouth.

DRAINAGE AREA.--56.1 sq mi.

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

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

AVERAGE DISCHARGE.--21 years, 88.9 cfs (21.52 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,400 cfs Mar. 22 (gage height, 5.47 ft); minimum, 5.6 cfs Sept. 28, 29 (gage height, 1.82 ft).

Period of record: Maximum discharge, 4,760 cfs Sept. 12, 1960 (gage height, 8.28 ft); minimum, 1.9 cfs Sept. 11, 12, 1964.

Flood of Dec. 31, 1948, reached a stage of 9.4 ft, from floodmarks (discharge, 7,470 cfs, on basis of contracted-opening measurements of peak flow).

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

REVISIONS (WATER YEARS).--WSP 1702: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	26	120	130	72	350	148	160	232	382	18	8.2
2	23	41	110	160	66	720	150	184	161	286	17	7.9
3	22	40	94	190	60	467	130	233	119	299	17	7.6
4	21	34	82	160	52	240	116	601	126	283	16	7.2
5	20	31	93	130	47	180	108	655	190	221	15	7.2
6	20	30	157	110	44	130	103	455	181	192	14	6.9
7	21	53	476	120	43	110	99	334	267	163	16	6.6
8	19	47	312	110	43	190	92	291	217	142	39	6.6
9	18	40	275	132	43	120	99	419	515	120	20	6.6
10	138	40	370	158	43	94	111	316	401	100	18	6.3
11	128	40	600	155	45	88	115	250	298	90	15	6.3
12	82	38	500	149	45	77	126	211	230	74	14	6.0
13	66	39	370	168	54	82	340	175	187	67	14	7.6
14	58	36	330	211	110	72	306	154	156	59	16	13
15	52	39	310	179	200	68	280	141	132	51	15	9.8
16	47	59	420	145	130	71	347	159	138	50	14	7.9
17	43	49	470	169	100	582	620	154	116	51	13	7.6
18	40	47	350	218	80	446	526	151	89	41	12	6.9
19	37	47	260	142	70	237	511	126	111	38	11	7.2
20	35	49	230	110	60	183	801	110	126	37	10	6.9
21	34	47	200	99	58	186	577	106	93	34	9.8	6.3
22	32	47	170	100	56	531	409	94	88	30	9.0	7.2
23	31	42	140	122	54	524	472	80	345	33	9.0	6.3
24	31	42	180	101	54	316	413	65	748	36	8.6	6.3
25	36	41	250	170	54	238	342	55	695	30	11	6.3
26	36	56	220	120	52	196	289	46	575	30	9.8	6.3
27	32	48	180	100	52	162	251	40	382	25	8.6	6.3
28	30	56	190	90	52	141	222	35	286	22	17	6.0
29	29	76	180	88	90	137	192	32	229	21	11	5.6
30	27	140	160	82	-----	136	172	28	520	20	9.8	6.9
31	26	-----	140	76	-----	131	-----	52	-----	19	9.0	-----
TOTAL	1,259	1,420	7,939	4,194	1,929	7,205	8,467	5,912	7,953	3,046	436.6	213.8
MEAN	40.6	47.3	256	135	66.5	232	282	191	265	98.3	14.1	7.13
MAX	138	140	600	218	200	720	801	655	748	382	39	13
MIN	18	26	82	76	43	68	92	28	88	19	8.6	5.6
CFSM	.72	.84	4.56	2.41	1.19	4.14	5.03	3.40	4.72	1.75	.25	.13
IN.	.83	.94	5.26	2.78	1.28	4.78	5.61	3.92	5.27	2.02	.29	.14

CAL YR 1971 TOTAL 39,320.4 MEAN 108 MAX 600 MIN 6.1 CFSM 1.93 IN 26.07
WTR YR 1972 TOTAL 49,974.4 MEAN 137 MAX 801 MIN 5.6 CFSM 2.44 IN 33.14

PEAK DISCHARGE (BASE, 1,250 CFS)

DATE TIME G.H. DISCHARGE

3-22 2230 5.47 1,400

NOTE.--No gage-height record Jan. 25 to Mar. 2.

HUDSON RIVER BASIN

01334000 Walloomsac River near North Bennington, Vt.

LOCATION.--Lat 42°54'47", long 73°15'25", Bennington County, on left bank 0.6 mile downstream from Paran Creek and 1.4 miles south of North Bennington.

DRAINAGE AREA.--111 sq mi.

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

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

AVERAGE DISCHARGE.--41 years, 213 cfs (26.06 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,620 cfs May 4 (gage height, 6.42 ft); minimum, 41 cfs Sept. 8, 11, 12, 13; minimum daily, 42 cfs Sept. 8, 12.

Period of record: Maximum discharge, 8,450 cfs Sept. 21, 1938 (gage height, 12.04 ft), from rating curve extended above 2,800 cfs on basis of contracted-opening measurements at gage heights 10.13, 10.49, 11.50, and 12.04 ft and slope-area measurement and computation of flow over dam at gage height 12.04 ft; minimum, 4 cfs Sept. 27, 1932; minimum daily, 21 cfs Sept. 22, 23, 1964, July 12, 1965.

REMARKS.--Records good. Occasional diurnal fluctuation at low flow caused by mills above station; diurnal fluctuation greater prior to 1960. Diversion above station for municipal supply of Bennington and North Bennington since 1961. See table below for figures of diversion.

REVISIONS (WATER YEARS).--WSP 781: 1933(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	74	160	155	145	161	243	1,020	766	658	97	47
2	66	89	113	189	134	622	271	1,250	425	426	93	46
3	68	105	109	271	131	817	241	1,320	282	440	105	46
4	66	89	113	200	157	375	227	1,940	357	598	98	48
5	68	81	86	175	150	284	211	1,280	322	394	86	51
6	68	77	108	140	150	217	208	788	273	331	81	45
7	78	121	439	155	145	206	207	677	503	279	81	44
8	78	122	306	141	140	257	193	694	410	241	126	42
9	70	94	231	150	135	196	199	1,080	1,020	215	102	46
10	199	87	333	259	125	165	209	696	555	197	92	48
11	516	89	619	269	120	160	218	544	411	192	80	44
12	236	86	474	258	110	166	219	460	332	167	75	42
13	159	87	331	245	160	160	415	405	289	154	74	50
14	134	82	265	443	336	157	496	369	256	154	76	145
15	119	82	284	262	187	153	392	422	227	140	84	123
16	109	111	506	190	155	162	375	451	420	145	71	71
17	100	104	414	190	113	581	724	526	365	241	76	60
18	95	94	304	202	106	710	798	746	256	149	79	55
19	91	103	222	234	113	366	1,130	459	221	131	80	78
20	89	132	231	201	120	268	1,910	401	207	153	67	81
21	86	111	213	182	120	253	1,080	384	188	134	62	59
22	84	107	184	167	114	362	746	325	190	120	57	56
23	82	95	151	242	100	616	856	276	293	190	55	54
24	82	83	223	236	99	402	1,010	248	734	182	63	50
25	91	91	293	288	93	310	877	223	623	209	59	50
26	95	103	219	227	91	271	760	201	767	160	55	51
27	89	102	195	197	97	245	636	189	453	136	53	50
28	84	108	217	175	102	226	569	176	343	118	64	48
29	80	116	204	165	104	225	689	162	279	106	67	46
30	78	233	179	160	-----	241	840	151	666	99	56	52
31	74	-----	168	150	-----	227	-----	267	-----	94	50	-----
TOTAL	3,404	3,058	7,894	6,518	3,852	9,561	16,949	18,130	12,433	6,953	2,364	1,728
MEAN	110	102	255	210	133	308	565	585	414	224	76.3	57.6
MAX	516	233	619	443	336	817	1,910	1,940	1,020	658	126	145
MIN	66	74	86	140	91	153	193	151	188	94	50	42
CFSM	.99	.92	2.30	1.89	1.20	2.77	5.09	5.27	3.73	2.02	.69	.52
IN.	1.14	1.02	2.65	2.18	1.29	3.20	5.68	6.08	4.17	2.33	.79	.58
(†)	2.87	2.74	3.87	3.79	3.36	4.55	4.88	5.08	4.72	3.93	2.94	2.82

CAL YR 1971 TOTAL 77,585 MEAN 213 MAX 1,580 MIN 46 CFSM 1.92 IN 26.00 (†) 3.62
WTR YR 1972 TOTAL 92,844 MEAN 254 MAX 1,940 MIN 42 CFSM 2.29 IN 31.12 (†) 3.80

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-19	2400	5.89	2,220				
5-4	0045	6.42	2,620				

† Diversion, in cubic feet per second, for municipal supply of Bennington and North Bennington; records furnished by town of Bennington.

HUDSON RIVER BASIN

67

01334500 HOOSIC RIVER NEAR EAGLE BRIDGE, N.Y.

LOCATION.--Lat 42°56'19", long 73°22'39", Rensselaer County, on right bank 0.5 mile upstream from Case Brook, 1.2 miles downstream from Walloomsac River and 1.2 miles southeast of Eagle Bridge.

DRAINAGE AREA.--510 sq mi.

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

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

AVERAGE DISCHARGE.--60 years (1910-21, 1923-72), 905 cfs (24.10 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,500 cfs Apr. 20 (gage height, 9.85 ft); maximum gage height, 10.00 ft Feb. 14 (ice jam); minimum discharge, 125 cfs Sept. 12 (gage height, 1.93 ft); minimum daily, 144 cfs Sept. 12, 29.
Period of record: Maximum discharge, 55,400 cfs Dec. 31, 1948 (gage height, 21.15 ft, from high-water mark in gage house), from rating curve extended above 13,000 cfs on basis of peak flow over downstream dams and contracted-opening measurements at gage heights 17.8 and 21.15 ft; minimum, 24 cfs Sept. 14, 1913; minimum daily, 30 cfs Sept. 14, 1913.

REMARKS.--Records fair except those for winter periods, which are poor. Diurnal fluctuation at medium and low flow caused by powerplants above station.

REVISIONS (WATER YEARS).--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).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	360	274	922	770	880	706	1,440	3,090	3,970	4,230	309	182
2	320	271	594	994	820	3,350	1,700	3,610	2,540	2,610	303	174
3	280	448	544	1,590	780	4,150	1,490	3,850	1,710	2,500	313	169
4	260	379	550	1,200	786	2,050	1,340	7,780	1,790	3,540	316	161
5	240	336	422	1,060	650	1,600	1,220	5,900	1,870	2,330	286	164
6	230	300	510	778	640	1,190	1,190	3,700	1,670	1,990	268	159
7	260	360	2,210	866	600	1,040	1,160	3,000	2,850	1,710	268	164
8	256	500	2,100	834	600	1,460	1,060	3,000	2,230	1,470	382	188
9	238	394	1,640	762	580	1,040	1,110	4,590	4,690	1,250	339	196
10	580	356	2,080	1,560	580	802	1,210	3,320	3,430	1,100	316	182
11	2,020	353	3,260	1,650	580	762	1,310	2,730	2,560	1,020	286	147
12	1,030	342	3,140	1,800	600	802	1,300	2,350	2,060	890	259	144
13	658	326	2,210	3,000	800	754	2,550	2,060	1,790	794	250	152
14	515	329	1,760	2,000	3,500	842	3,160	1,800	1,560	754	247	339
15	475	329	1,830	1,780	2,500	698	2,670	1,910	1,370	636	271	339
16	452	402	2,410	1,270	1,300	730	2,470	2,180	1,740	594	247	211
17	414	414	2,380	2,170	900	3,500	4,910	2,170	1,600	890	247	190
18	390	379	1,860	5,280	700	4,500	4,910	3,630	1,260	574	247	171
19	371	375	1,400	3,100	520	2,370	5,100	2,310	1,170	515	253	193
20	356	414	1,400	1,210	430	1,690	8,730	2,000	1,400	580	232	241
21	346	398	1,310	1,050	420	1,570	6,350	1,970	1,120	495	214	190
22	336	402	1,160	922	410	2,470	4,000	1,710	986	461	199	171
23	319	371	818	1,180	420	4,700	4,380	1,520	1,710	544	193	169
24	296	329	1,130	1,230	420	2,690	4,470	1,350	4,690	601	196	156
25	323	326	1,780	1,580	420	2,000	3,970	1,200	4,020	568	193	152
26	329	386	1,270	1,230	430	1,730	3,470	1,010	4,770	532	190	154
27	313	379	1,210	922	440	1,500	2,960	890	2,910	452	180	152
28	296	406	1,240	914	450	1,400	2,500	818	2,200	390	293	152
29	283	452	1,190	890	480	1,400	2,620	722	1,790	360	293	144
30	259	1,270	1,060	1,000	-----	1,540	2,850	643	3,400	326	223	147
31	262	-----	970	920	-----	1,350	-----	1,060	-----	309	199	-----
TOTAL	13,067	12,000	46,360	45,512	22,636	56,386	87,600	77,873	70,856	35,015	8,012	5,453
MEAN	422	400	1,495	1,468	781	1,819	2,920	2,512	2,362	1,130	258	182
MAX	2,020	1,270	3,260	5,280	3,500	4,700	8,730	7,780	4,230	4,230	382	339
MIN	230	271	422	762	410	698	1,060	643	986	309	180	144
CFSM	.83	.78	2.93	2.88	1.53	3.57	5.73	4.93	4.63	2.22	.51	.36
IN.	.95	.88	3.38	3.32	1.65	4.11	6.39	5.68	5.17	2.55	.58	.40

CAL YR 1971 TOTAL 353,965 MEAN 970 MAX 5,540 MIN 135 CFSM 1.90 IN 25.82
WTR YR 1972 TOTAL 480,770 MEAN 1,314 MAX 8,730 MIN 144 CFSM 2.58 IN 35.07

PEAK DISCHARGE (BASE, 7,400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-20	2000	9.85	10,500	5-04	2145	9.00	8,640

HUDSON RIVER BASIN

01336000 MOHAWK RIVER BELOW DELTA DAM, NEAR ROME, N.Y.

LOCATION.--Lat 43°15'52", long 75°26'12", Oneida County, on right bank at Rome Fish Hatchery, 1.0 mile downstream from Delta Dam and 4.0 miles north of Rome.

DRAINAGE AREA.--150 sq mi.

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

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

AVERAGE DISCHARGE.--51 years, 373 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 6,360 cfs June 22 (gage height, 9.87 ft); minimum, 148 cfs Apr. 7, 8, 9 (gage height, 1.67 ft); minimum daily, 151 cfs Apr. 7-9.

Period of record: Maximum discharge, 8,560 cfs Oct. 2, 1945 (gage height, 11.18 ft); minimum, 30 cfs Sept. 27, 1945 (gage height, 0.65 ft); minimum daily, 45 cfs Jan. 17, 1931.

REMARKS.--Records good. During canal navigation season, water is diverted from Black River through Forestport feeder and Black River Canal (flowing south) into basin above Delta Reservoir (see station 04252000). Flow regulated by Delta Reservoir (usable capacity, 2,800,000,000 cu ft) except for Apr. 30 to July 29 when reservoir spilled. Small quantity of water diverted from Delta Reservoir for fish hatchery use and later returned to river, part above and part below station. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 851: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	289	230	237	1,010	704	233	258	898	467	846	218	229
2	287	240	231	544	869	178	237	1,510	536	627	220	232
3	288	235	231	281	869	190	192	3,530	433	579	226	234
4	288	230	231	281	866	190	184	2,860	465	720	257	233
5	288	229	229	258	866	188	165	2,150	422	513	311	232
6	286	228	229	245	860	206	153	1,350	323	378	240	231
7	285	231	249	245	855	284	151	1,580	255	297	254	232
8	284	230	252	245	851	337	151	1,250	238	248	310	231
9	284	229	263	245	846	385	151	1,420	922	256	264	231
10	287	237	277	245	848	475	155	1,240	786	295	264	230
11	289	245	275	364	842	507	162	879	490	374	249	229
12	289	241	255	424	836	505	177	666	343	309	242	229
13	295	244	250	422	830	745	221	547	275	263	242	230
14	299	241	248	431	827	900	298	533	276	293	247	234
15	298	240	267	420	824	885	489	696	311	313	246	236
16	298	240	442	414	810	880	496	965	941	568	242	237
17	298	232	522	413	563	884	533	1,160	746	490	242	237
18	298	229	518	411	420	891	1,310	952	484	363	246	237
19	298	237	514	424	367	884	2,310	725	398	299	248	237
20	292	239	514	486	337	873	2,690	557	360	260	246	237
21	287	236	513	520	335	862	2,780	505	471	268	245	237
22	280	237	520	520	335	856	2,780	424	4,560	235	245	232
23	275	232	526	541	314	881	2,670	337	2,820	316	245	229
24	277	230	537	533	299	800	1,430	285	1,720	486	245	231
25	279	231	536	543	298	733	315	240	1,040	382	233	230
26	281	231	531	482	298	726	303	255	747	355	229	229
27	249	231	533	475	298	720	485	245	554	296	228	229
28	231	235	565	478	298	460	811	212	428	247	226	229
29	231	237	534	475	296	229	815	264	336	224	226	231
30	231	250	841	475	-----	235	680	318	513	219	226	248
31	231	-----	1,020	475	-----	245	-----	260	-----	218	226	-----
TOTAL	8,672	7,057	12,890	13,325	17,861	17,367	23,552	28,813	22,660	11,537	7,588	6,983
MEAN	280	235	416	430	616	560	785	929	755	372	245	233
MAX	299	250	1,020	1,010	869	900	2,780	3,530	4,560	846	311	248
MIN	231	228	229	245	296	178	151	212	238	218	218	229

CAL YR 1971 TOTAL 137,689 MEAN 377 MAX 1,510 MIN 175 MEAN \neq 374 CFSM \neq 2.49 IN \neq 33.87
WTR YR 1972 TOTAL 178,305 MEAN 487 MAX 4,560 MIN 151 MEAN \neq 469 CFSM \neq 3.13 IN \neq 42.57

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

HUDSON RIVER BASIN

69

01346000 WEST CANADA CREEK AT KAST BRIDGE, N.Y.

LOCATION.--Lat 43°04'08", long 74°59'26", Herkimer County, on left bank 600 ft downstream from bridge on old State Highway 28 at Kast Bridge station on Penn Central Transportation Co., 1.2 miles downstream from North Creek, and 4.0 miles upstream from mouth near Herkimer.

DRAINAGE AREA.--556 sq mi.

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

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

AVERAGE DISCHARGE.--52 years (1920-72), 1,288 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 15,800 cfs May 4 (gage height, 6.78 ft); minimum, 227 cfs Oct. 23; minimum gage height, 1.50 ft Aug. 31, Sept. 11; minimum daily discharge, 483 cfs Sept. 28.

Period of record: Maximum discharge, 23,300 cfs 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 cfs Sept. 3, 1929 (gage height, 0.90 ft); minimum daily, 59 cfs Sept. 2, 1929.

REMARKS.--Records fair except those for period of doubtful gage-height record, which are poor. Since March 1914, flow regulated by Hinckley Reservoir, 31 miles above station (usable capacity, 3,320,000,000 cu ft) except for May 3 to July 22, July 24-28 when reservoir spilled. Diurnal fluctuation at low and medium flow caused by powerplants above station. Diversion at Trenton Falls, 26 miles above station, by Ninemile feeder since 1915 during canal navigation season. Diversion from Hinckley Reservoir for Utica water supply returned to Mohawk River.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,330	915	953	1,140	1,140	1,020	2,020	3,380	2,500	2,960	1,000	989
2	1,070	1,020	940	1,190	1,150	1,680	2,000	3,720	4,900	2,730	1,110	926
3	1,260	1,000	890	965	1,120	2,000	1,720	5,050	4,870	2,380	1,470	842
4	1,020	928	928	1,080	1,050	1,510	1,430	13,000	6,240	3,090	1,310	665
5	1,280	953	705	953	878	1,360	1,320	12,000	4,100	2,680	1,120	819
6	1,180	828	1,040	940	1,090	1,090	1,220	9,000	3,720	1,990	1,080	902
7	1,120	978	1,430	1,030	1,020	1,300	1,190	8,000	2,930	1,560	1,620	830
8	1,300	1,020	1,330	1,000	1,190	1,360	1,030	8,900	2,440	1,360	1,810	796
9	1,230	940	1,380	1,070	1,230	1,460	965	8,700	4,020	1,210	1,270	773
10	1,460	890	1,810	1,180	1,230	1,140	978	7,780	4,490	1,720	1,300	502
11	1,220	878	2,290	1,090	1,220	2,040	1,330	6,310	3,850	2,340	1,140	606
12	1,280	978	1,410	1,280	1,190	1,740	1,410	5,080	2,980	2,600	1,070	784
13	1,190	1,000	1,090	1,410	1,190	1,740	3,260	4,180	2,200	2,380	1,040	577
14	1,080	928	1,090	1,610	1,320	2,040	3,650	3,910	1,680	1,630	1,390	727
15	1,090	804	1,490	1,160	1,280	2,120	3,430	4,460	1,810	1,530	1,420	625
16	865	865	2,120	1,020	1,150	2,120	3,550	5,780	3,570	1,560	1,140	675
17	965	978	1,250	1,080	1,210	2,680	5,110	6,110	3,240	1,510	1,150	577
18	1,020	1,000	1,160	1,140	1,180	2,770	4,690	5,000	2,890	1,370	1,160	625
19	965	1,040	1,080	1,330	1,000	2,370	4,750	3,500	2,340	1,280	1,110	685
20	940	1,290	1,140	1,260	915	2,120	5,550	3,000	2,600	1,180	1,050	695
21	928	990	1,230	1,150	1,000	1,950	4,120	2,600	2,620	1,210	976	727
22	940	1,090	1,050	1,120	1,110	2,600	4,070	2,300	6,720	1,140	1,020	502
23	878	990	1,140	1,630	1,070	3,140	4,350	2,000	8,740	1,150	1,110	577
24	990	978	1,680	1,250	1,110	1,830	3,750	1,800	7,210	1,470	1,040	606
25	890	1,020	1,590	1,540	1,000	2,020	3,450	1,650	6,830	1,180	1,120	685
26	1,030	1,000	1,250	1,380	978	1,790	3,330	1,390	4,930	1,120	1,080	587
27	1,030	965	1,220	1,250	990	1,740	3,280	1,470	3,700	1,080	819	761
28	840	1,000	2,060	1,210	840	1,510	3,330	1,270	2,910	950	1,080	483
29	965	953	1,510	1,140	1,000	1,250	3,330	1,240	2,640	1,090	989	635
30	865	1,250	1,430	1,140	-----	1,580	3,360	938	2,580	1,090	963	963
31	828	-----	1,260	878	-----	1,700	-----	1,160	-----	914	950	-----
TOTAL	33,049	29,469	40,946	36,616	31,851	56,770	86,973	144,678	116,250	51,454	35,907	21,146
MEAN	1,066	982	1,321	1,181	1,098	1,831	2,899	4,667	3,875	1,660	1,158	705
MAX	1,460	1,290	2,290	1,630	1,320	3,140	5,550	13,000	8,740	3,090	1,810	989
MIN	828	804	705	878	840	1,020	965	938	1,680	914	819	483

CAL YR 1971 TOTAL 497,307 MEAN 1,362 MAX 7,250 MIN 484
WTR YR 1972 TOTAL 685,109 MEAN 1,872 MAX 13,000 MIN 483

NOTE.--Doubtful gage-height record May 4 to July 7.

HUDSON RIVER BASIN

01347000 MOHAWK RIVER NEAR LITTLE FALLS, N.Y.

LOCATION.--Lat 43°00'52", long 74°46'48", Herkimer County, on left bank 1,800 ft downstream from Rocky Rift Dam, 2.1 miles upstream from East Canada Creek, and 4.5 miles southeast of city of Little Falls.

DRAINAGE AREA.--1,348 sq mi.

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

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

AVERAGE DISCHARGE.--45 years, 2,708 cfs.

EXTREMES.--Current year: Maximum discharge (river channel only), 19,300 cfs June 23 (gage height, 15.37 ft); minimum (river channel only), 670 cfs Sept. 12 (gage height, 4.86 ft); minimum daily (canal included), 821 cfs Sept. 11.

Period of record: Maximum discharge (river channel only), 27,200 cfs Mar. 5, 1964 (gage height, 18.33 ft from high-water mark in gage house); minimum (river channel only), 214 cfs Aug. 18, 1949 (gage height, 3.75 ft); minimum daily (including canal), probably not less than 463 cfs Sept. 2, 1934.

REMARKS.--Records fair. Records of daily discharge include diversion at Rocky Rift Dam into Erie (Barge) Canal for power and lockage at Lock 16, near St. Johnsville. During canal navigation season, water is received from Black River basin through Black River Canal flowing south (see station 04252000), and from Chenango River basin through Oriskany Creek feeder. Water is diverted into (or may occasionally be received from Oswego River basin through summit level of Erie (Barge) Canal between New London and Utica. Diurnal fluctuation caused by powerplants and locks and dams on Erie (Barge) Canal. Regulation by Delta and Hinckley Reservoirs (combined usable capacity, 6,120,000,000 cu ft) (see Hudson River basin, Reservoirs in).

REVISIONS (WATER YEARS).--WSP 741: 1929(M), Drainage area. WSP 1302: 1901, 1932(M). WSP 1432: 1928-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,940	1,370	2,840	3,220	2,220	1,880	6,840	4,380	4,930	5,540	1,410	1,270
2	1,810	1,480	2,130	3,220	2,360	3,900	7,400	5,680	7,660	4,980	1,420	1,300
3	1,810	1,690	1,720	2,600	2,520	7,260	6,860	7,960	5,370	3,530	1,820	1,170
4	1,660	1,540	1,680	2,340	2,380	6,440	5,560	14,500	9,410	4,760	2,100	1,120
5	1,810	1,500	1,650	2,180	2,300	5,100	4,180	16,000	8,130	4,060	1,800	1,110
6	1,780	1,440	1,340	1,860	2,520	3,800	3,500	12,800	6,050	3,000	1,590	1,260
7	1,740	1,600	3,720	1,860	2,380	3,100	3,180	11,100	3,330	2,340	1,660	1,170
8	1,910	1,780	4,920	1,940	2,540	3,540	2,820	11,000	2,960	2,170	3,490	1,240
9	1,820	1,680	4,650	2,000	2,500	3,880	2,620	12,300	6,020	1,950	2,460	1,140
10	2,060	1,550	6,540	2,160	2,440	3,360	2,680	11,500	6,860	2,170	1,960	1,090
11	2,380	1,720	7,640	2,340	2,400	3,860	3,580	9,400	5,120	3,360	1,720	821
12	2,170	1,800	5,020	3,040	2,400	3,700	4,480	6,880	3,340	3,390	1,590	1,180
13	1,960	1,740	3,240	3,160	2,400	3,480	8,280	4,890	2,650	2,890	1,500	1,080
14	1,810	1,710	2,660	4,940	2,660	3,980	10,400	4,890	2,150	2,160	1,820	1,750
15	1,690	1,560	2,900	4,100	2,860	4,200	10,200	6,010	2,240	2,140	3,580	1,740
16	1,580	1,720	5,780	3,380	2,880	4,200	10,300	8,620	6,680	2,090	2,350	1,380
17	1,500	1,490	4,380	2,780	2,800	5,900	13,000	8,710	6,740	2,240	1,830	1,180
18	1,600	1,620	3,380	2,540	2,500	7,680	12,100	7,190	5,290	2,090	1,690	1,090
19	1,550	1,540	2,560	2,800	2,100	6,820	11,500	5,750	3,020	1,910	1,760	1,400
20	1,540	2,110	2,380	3,140	1,900	5,760	12,900	4,690	3,710	1,670	1,570	1,360
21	1,530	1,900	2,720	2,840	1,800	5,020	11,300	4,630	3,640	1,660	1,390	1,260
22	1,500	2,060	2,460	2,560	1,960	6,020	11,100	3,590	10,400	1,610	1,460	1,160
23	1,420	1,990	2,220	3,280	1,940	9,280	12,100	2,910	16,900	1,590	1,410	1,030
24	1,570	1,700	3,180	4,060	1,860	7,780	10,500	2,560	16,200	2,770	1,530	1,150
25	1,480	1,710	4,760	4,000	1,760	7,160	9,040	2,170	13,100	2,400	1,520	1,680
26	1,680	1,720	3,860	3,460	1,800	5,560	6,530	1,930	9,180	2,030	1,460	1,530
27	1,710	1,720	3,640	2,720	1,720	4,680	5,360	1,970	6,430	1,830	1,320	1,420
28	1,490	1,830	4,880	2,580	1,580	4,120	5,320	1,720	3,820	1,600	1,310	1,220
29	1,540	2,050	4,760	2,440	1,800	3,440	5,480	1,670	3,760	1,570	1,380	1,140
30	1,490	2,850	3,880	2,400	-----	4,320	5,420	1,290	4,080	1,510	1,310	1,490
31	1,380	-----	3,260	2,100	-----	5,360	-----	1,890	-----	1,320	1,310	-----
TOTAL	52,910	52,170	110,750	88,040	65,280	154,580	224,530	200,580	189,170	78,330	54,520	37,931
MEAN	1,707	1,739	3,573	2,840	2,251	4,986	7,484	6,470	6,306	2,527	1,759	1,264
MAX	2,380	2,850	7,640	4,940	2,880	9,280	13,000	16,000	16,900	5,540	3,580	1,750
MIN	1,380	1,370	1,340	1,860	1,580	1,880	2,620	1,290	2,150	1,320	1,310	821

CAL YR 1971 TOTAL 1,132,945 MEAN 3,104 MAX 14,300 MIN 896
WTR YR 1972 TOTAL 1,308,791 MEAN 3,576 MAX 16,900 MIN 821

PEAK DISCHARGE (BASE, 16,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-04	2200	14.42	17,100	6-23	1930	15.37	19,300
6-04	1430	14.65	17,700				

HUDSON RIVER BASIN

71

01348000 EAST CANADA CREEK AT EAST CREEK, N.Y.

LOCATION.--Lat 43°01'00", long 74°44'28", Herkimer County, on right bank at village of East Creek, 0.2 mile downstream from Niagara Mohawk Power Corp. Beardslee powerplant, 1.2 miles upstream from mouth, and 3.5 miles northwest of St. Johnsville.

DRAINAGE AREA.--291 sq mi.

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

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

AVERAGE DISCHARGE.--26 years (1946-72), 647 cfs.

EXTREMES.--Current year: Maximum discharge, 7,550 cfs May 3 (gage height, 6.10 ft); minimum, 1.1 cfs Oct. 29, (gage height, 0.57 ft); minimum daily, 2.6 cfs Sept. 24.

Period of record: Maximum discharge, 12,200 cfs Mar. 30, 1951 (gage height, 7.03 ft); minimum, 0.6 cfs Sept. 7, 1947; minimum gage height, 0.51 ft Oct. 13, 14, 1968; minimum daily discharge, 0.7 cfs Oct. 13-16, 1968.

Maximum stage known, 9.0 ft Oct. 2, 1945, from floodmarks (discharge, 24,000 cfs, from slope-area measurement of peak flow).

REMARKS.--Records good. Extensive diurnal fluctuation and slight regulation caused by powerplants above station. City of Little Falls diverts about 5 cfs for municipal supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	360	448	642	423	329	955	3,920	900	927	24	137
2	95	177	137	507	493	473	1,000	4,660	812	864	181	25
3	121	265	151	704	369	855	974	6,150	650	803	324	25
4	205	324	255	576	454	983	964	5,690	2,400	712	533	25
5	280	539	173	533	381	993	891	4,300	2,940	627	307	25
6	384	189	372	416	133	803	891	2,920	1,760	423	114	25
7	181	25	840	318	507	547	855	3,000	1,320	256	251	28
8	312	448	756	369	513	829	838	2,870	821	165	1,200	197
9	169	448	688	286	291	803	590	3,210	2,070	137	855	26
10	360	342	998	527	302	665	673	2,890	1,810	386	642	26
11	783	255	1,410	454	324	346	673	2,130	1,380	864	242	219
12	830	246	2,170	507	423	658	795	1,700	873	1,000	102	26
13	712	144	1,230	627	261	562	1,060	1,270	680	704	65	357
14	348	165	1,050	423	513	467	1,930	1,490	318	778	429	576
15	504	490	820	547	335	507	2,530	2,300	473	680	554	945
16	600	360	1,540	108	486	507	1,990	2,750	1,030	386	237	286
17	197	348	2,070	363	448	729	3,480	2,450	1,380	480	340	22
18	546	476	1,600	351	398	1,160	4,350	1,590	753	307	335	25
19	511	312	769	486	307	1,320	4,710	1,230	761	126	242	32
20	518	539	745	527	197	1,260	6,240	900	704	251	26	161
21	181	672	696	583	435	882	4,760	812	1,040	102	513	224
22	342	632	527	335	340	1,050	3,560	745	5,230	105	25	32
23	30	576	527	392	313	1,270	3,710	576	3,350	24	158	2.8
24	177	414	590	974	318	1,540	2,940	340	3,150	302	130	2.6
25	441	280	1,170	855	215	1,380	2,780	25	2,220	158	281	117
26	306	584	838	873	329	1,020	2,730	242	1,640	27	43	147
27	774	384	964	909	177	974	2,470	185	1,440	185	25	161
28	124	210	1,000	803	228	882	2,390	210	812	392	237	130
29	95	497	1,360	540	547	873	2,640	151	554	246	25	123
30	255	560	1,040	340	-----	918	3,170	307	454	25	25	16
31	2.8	-----	673	493	-----	918	-----	286	-----	276	26	-----
TOTAL	10,461.8	11,261	27,607	16,368	10,460	26,503	67,539	61,299	43,725	12,718	8,491	4,143.4
MEAN	337	375	891	528	361	855	2,251	1,977	1,458	410	274	138
MAX	830	672	2,170	974	547	1,540	6,240	6,150	5,230	1,000	1,200	945
MIN	2.8	25	137	108	133	329	590	25	318	24	24	2.6

CAL YR 1971 TOTAL 272,502.8 MEAN 747 MAX 5,080 MIN 2.8
WTR YR 1972 TOTAL 300,576.2 MEAN 821 MAX 6,240 MIN 2.6

PEAK DISCHARGE (BASE, 7,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-20	1230	6.02	7,270	5-03	1230	6.10	7,550

HUDSON RIVER BASIN

01349000 OTSQUAGO CREEK AT FORT PLAIN, N.Y.

LOCATION.--Lat 42°55'46", long 74°37'35", Montgomery County, on left bank 25 ft downstream from bridge on State Highway 163 in Fort Plain, and 0.5 mile upstream from mouth.

DRAINAGE AREA.--59.2 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 303.16 ft above mean sea level.

AVERAGE DISCHARGE.--23 years, 77.7 cfs (17.82 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,100 cfs June 23 (gage height, 7.95 ft); minimum, 4.0 cfs Oct. 8, 9; minimum gage height, 0.05 ft Sept. 5, 6-8.

Period of record: Maximum discharge, 9,030 cfs Aug. 31, 1950 (gage height, 8.24 ft), from rating curve extended above 6,000 cfs on basis of slope-area measurement of peak flow; maximum gage height, 8.62 ft Nov. 28, 1959; minimum discharge, 0.6 cfs Nov. 30, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	7.1	77	90	37	50	797	68	222	148	9.9	5.9
2	5.5	8.3	45	96	31	100	597	73	79	76	10	6.2
3	5.2	9.5	40	96	27	471	416	82	45	207	66	6.2
4	5.2	8.7	35	82	25	214	242	436	644	126	21	6.2
5	4.9	8.3	40	72	26	164	137	197	153	61	13	5.9
6	4.6	7.5	80	62	24	120	136	108	75	51	11	5.9
7	4.6	14	450	76	21	80	122	103	56	43	11	5.9
8	4.3	18	252	90	19	72	93	195	48	42	12	5.9
9	4.6	12	171	100	18	72	104	908	255	33	11	6.5
10	21	12	371	120	17	60	224	321	76	34	9.2	6.2
11	33	17	1,110	140	16	47	329	138	48	33	8.6	6.2
12	16	16	223	170	16	42	531	98	39	23	8.3	6.5
13	10	14	134	160	20	40	1,410	79	35	20	8.3	7.9
14	7.9	13	90	220	35	37	946	68	31	20	14	16
15	7.5	12	237	150	80	36	541	70	27	19	34	15
16	6.7	13	563	70	130	37	813	78	122	17	12	9.2
17	6.3	13	139	60	110	362	1,500	110	60	26	10	8.3
18	5.9	12	85	80	90	862	663	100	35	17	10	8.9
19	5.5	12	50	200	70	430	558	56	43	15	9.5	11
20	5.5	20	60	122	60	214	1,150	56	36	13	8.3	9.2
21	5.2	23	62	66	54	150	365	73	278	12	7.6	7.9
22	5.5	31	46	43	52	301	531	48	332	11	7.0	7.9
23	5.5	23	38	78	43	649	650	37	1,470	20	6.7	7.6
24	6.7	16	400	123	36	281	245	31	387	55	8.9	7.3
25	11	15	235	207	32	153	172	27	223	31	7.9	7.6
26	18	22	94	70	31	114	128	24	178	28	7.3	6.7
27	11	28	123	54	31	93	105	22	105	16	7.3	6.2
28	9.5	28	255	50	33	96	90	21	74	12	7.6	5.6
29	8.3	35	117	60	35	230	82	19	58	11	6.7	5.4
30	7.9	78	90	50	-----	392	73	18	235	9.9	6.5	6.2
31	7.5	-----	94	42	-----	419	-----	57	-----	9.5	6.2	-----
TOTAL	266.6	546.4	5,806	3,099	1,219	6,388	13,750	3,721	5,469	1,239.4	376.8	227.4
MEAN	8.60	18.2	187	100	42.0	206	458	120	182	40.0	12.2	7.58
MAX	33	78	1,110	220	130	862	1,500	908	1,470	207	66	16
MIN	4.3	7.1	35	42	16	36	73	18	27	9.5	6.2	5.4
CFSM	.15	.31	3.16	1.69	.71	3.48	7.74	2.03	3.07	.68	.21	.13
IN.	.17	.34	3.65	1.95	.77	4.01	8.64	2.34	3.44	.78	.24	.14

CAL YR 1971 TOTAL 36,495.1 MEAN 100 MAX 1,360 MIN 4.0 CFSM 1.69 IN 22.93
WTR YR 1972 TOTAL 42,108.6 MEAN 115 MAX 1,500 MIN 4.3 CFSM 1.94 IN 26.46

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-11	1115	4.49	2,290	4-20	1300	4.85	2,700
4-13	1530	5.21	3,140	4-22	2300	4.61	2,420
4-17	1645	4.59	2,400	6-23	1500	7.95	7,100

01350000 SCHOHARIE CREEK AT PRATTSVILLE, N.Y.

LOCATION.--Lat 42°19'15", long 74°26'10", Greene County, on left bank 100 ft upstream from bridge on State Highway 23 in Prattsville, 0.2 mile upstream from Schoharie Reservoir, 0.2 mile downstream from Huntersfield and 1.6 miles downstream from Batavia Kill.

DRAINAGE AREA.--236 sq mi.

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

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

AVERAGE DISCHARGE.--69 years (1903-72), 447 cfs (25.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 26,800 cfs June 22 (gage height, 13.95 ft), from rating curve extended as explained below; maximum gage height, 14.57 ft Mar. 2 (ice jam); minimum discharge, 16 cfs Sept. 29, 30 (gage height, 2.30 ft).

Period of record: Maximum discharge, 55,200 cfs Oct. 16, 1955 (gage height, 19.14 ft), from rating curve extended above 8,800 cfs on basis of contracted-opening measurement of peak flow; minimum daily, 4.8 cfs Sept. 22, 1964.

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

REVISIONS (WATER YEARS).--WSP 351: Drainage area. WSP 1432: 1937-38.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	179	489	470	350	500	572	816	1,280	2,060	46	34
2	111	295	350	450	360	700	718	965	776	1,210	44	32
3	102	434	300	420	370	1,200	584	1,180	560	907	68	33
4	94	360	270	390	390	1,000	495	2,260	467	771	76	46
5	89	305	260	360	420	900	440	2,100	739	595	56	37
6	83	268	290	350	410	800	418	1,300	518	513	46	34
7	81	340	2,060	340	390	760	418	1,030	648	446	43	33
8	78	370	2,680	330	390	700	370	1,190	473	440	76	31
9	71	300	1,600	320	390	620	365	2,140	423	520	64	31
10	217	277	1,840	390	390	560	380	2,020	434	350	49	28
11	500	263	3,270	500	450	540	418	1,480	355	310	43	27
12	300	237	2,210	480	580	520	512	1,130	295	246	40	31
13	225	225	1,500	560	700	500	1,070	920	268	216	41	27
14	194	205	1,100	1,120	1,200	470	1,220	792	241	224	40	28
15	175	194	1,110	768	1,100	450	1,010	768	209	203	93	26
16	161	190	1,570	700	940	390	1,380	792	221	174	68	24
17	148	179	1,380	500	860	2,450	2,520	840	213	164	40	23
18	141	168	1,040	440	820	1,630	2,400	872	179	140	44	22
19	131	165	792	490	800	938	2,710	690	165	121	43	21
20	122	165	704	410	760	704	5,200	704	151	121	38	20
21	120	158	648	370	720	697	3,070	947	213	115	34	19
22	134	158	500	340	680	2,540	2,030	690	5,760	101	32	23
23	111	140	440	320	660	2,880	2,210	560	8,500	86	29	21
24	114	140	490	380	620	1,360	1,830	489	4,160	76	34	19
25	412	170	580	450	600	965	1,460	418	2,510	70	64	19
26	390	270	540	440	580	760	1,170	355	1,750	70	46	18
27	305	230	596	410	560	641	974	310	1,270	62	51	18
28	259	210	566	380	540	566	832	272	943	58	115	18
29	229	210	536	360	520	572	768	237	795	54	64	16
30	209	602	506	350	-----	634	753	213	2,380	49	48	17
31	194	-----	560	350	-----	512	-----	768	-----	46	40	-----
TOTAL	5,622	7,407	30,777	13,938	17,550	28,459	38,297	29,248	36,896	10,518	1,623	776
MEAN	181	247	993	450	605	918	1,277	943	1,230	339	52.4	25.9
MAX	500	602	3,270	1,120	1,200	2,880	5,200	2,260	8,500	2,060	115	46
MIN	71	140	260	320	350	390	365	213	151	46	29	16
CFSM	.77	1.05	4.21	1.91	2.56	3.89	5.41	4.00	5.21	1.44	.22	.11
IN.	.89	1.17	4.85	2.20	2.77	4.49	6.04	4.61	5.82	1.66	.26	.12

CAL YR 1971 TOTAL 167,905 MEAN 460 MAX 3,900 MIN 13 CFSM 1.95 IN 26.47
WTR YR 1972 TOTAL 221,111 MEAN 604 MAX 8,500 MIN 16 CFSM 2.56 IN 34.85

PEAK DISCHARGE (BASE, 4,400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-22	2115	7.79	6,220	6-22	2345	13.95	26,800
4-20	1545	8.54	7,950				

HUDSON RIVER BASIN

01350180 SCHOHARIE CREEK AT NORTH BLENHEIM, N.Y.

LOCATION.--Lat 42°27'57", long 74°27'45", Schoharie County, on left bank, 2,300 ft upstream from West Kill, and 1.2 miles upstream from bridge on Route 30 in North Blenheim.

DRAINAGE AREA.--359 sq mi.

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

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

EXTREMES.--Current year: Maximum discharge, 41,400 cfs June 23 (gage height, 12.29 ft), from rating curve extended as explained below; minimum, 0.10 cfs July 25; minimum daily, 0.12 cfs July 27, 28.

Period of record: Maximum discharge, 41,400 cfs June 23, 1972 (gage height, 12.29 ft) from rating curve extended above 14,000 cfs; minimum 0.10 cfs July 25, 1972; minimum daily 0.12 cfs July 27, 28, 1972.

REMARKS.--Records poor. Occasional regulation of flow by Blenheim-Gilboa Pumped Storage Project. Entire flow at Gilboa (drainage from 314 sq mi) except for period of spill, Dec. 24 to Jan. 30, Feb. 4-8, 13-18, 23-27, Mar. 1 to June 17, June 21 to July 17, diverted from Schoharie Reservoir through Shandaken Tunnel and Esopus Creek into Ashokan Reservoir for water supply of city of New York. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	8.6	55	688	51	50	870	1,150	565	3,870	.34	.39
2	7.3	13	41	688	34	2,850	960	1,380	940	2,240	.29	.30
3	5.8	22	40	736	21	8,890	980	1,750	810	1,510	5.5	.26
4	6.1	16	35	760	30	3,240	890	2,950	672	1,300	7.5	.25
5	5.6	13	31	760	530	2,660	712	3,740	712	940	.35	3.0
6	5.6	12	45	744	648	2,370	579	2,390	720	180	.19	4.6
7	5.3	17	408	656	427	1,690	672	1,770	744	156	.33	.42
8	5.6	17	273	530	153	1,570	460	1,820	688	372	.47	.29
9	5.0	14	182	305	111	1,170	438	3,830	648	890	2.3	.26
10	26	14	252	345	100	770	460	3,560	632	244	4.9	.24
11	60	14	305	593	150	664	481	2,850	600	87	.31	.24
12	27	17	198	780	250	640	530	2,080	558	64	.22	.24
13	18	14	152	664	600	890	1,030	1,610	523	159	.17	.24
14	14	12	115	890	1,500	880	1,860	1,300	460	84	.47	.28
15	12	12	140	1,130	1,000	616	1,770	1,160	394	77	3.7	.25
16	12	12	157	980	600	640	1,700	1,180	282	69	11	.24
17	11	12	106	880	208	1,790	2,430	1,330	82	20	.38	.24
18	9.8	11	89	800	142	3,290	3,760	1,330	26	1.0	.34	.25
19	9.3	11	63	790	116	1,990	3,770	1,050	19	.5	.29	.28
20	8.6	12	67	800	50	1,820	7,300	900	15	.4	.26	.25
21	8.9	12	71	744	89	1,730	3,500	1,250	7.2	.3	.24	.26
22	8.0	13	59	640	139	1,720	2,800	1,030	145	.2	.39	.30
23	7.6	12	48	558	104	4,780	3,500	840	15,700	.2	.35	.24
24	8.0	8.3	73	616	70	2,870	2,800	700	6,500	.2	.28	.24
25	16	29	506	672	70	1,830	2,000	560	3,740	.1	.60	.24
26	16	12	884	648	69	1,550	1,800	470	3,150	.2	3.9	.24
27	16	16	640	411	63	1,440	1,600	390	2,250	.1	2.8	.24
28	11	19	467	310	26	1,330	1,420	330	1,600	.1	.79	.23
29	11	26	600	177	15	1,150	1,250	300	1,180	.8	.64	.23
30	9.3	56	656	147	-----	1,060	1,150	290	2,480	1.3	.53	.23
31	8.6	-----	640	133	-----	970	-----	500	-----	.9	.47	-----
TOTAL	381.7	476.9	7,398	19,575	7,366	58,910	53,472	45,790	46,842.2	12,268.3	50.30	14.97
MEAN	12.3	15.9	239	631	254	1,900	1,782	1,477	1,561	396	1.62	.50
MAX	60	56	884	1,130	1,500	8,890	7,300	3,830	15,700	3,870	11	4.6
MIN	5.0	8.3	31	133	15	50	438	290	7.2	.10	.17	.23
CAL YR 1971	TOTAL	96,417.50	MEAN	264	MAX	4,410	MIN	.80				
WTR YR 1972	TOTAL	252,545.37	MEAN	690	MAX	15,700	MIN	.12				

HUDSON RIVER BASIN

75

01351500 SCHOHARIE CREEK AT BURTONSVILLE, N.Y.

LOCATION.--Lat 42°48'00", long 74°15'48", Schenectady County, on right bank 0.4 mile south of Burtonsville, 2.7 miles north of Esperance, and 13.5 miles upstream from mouth.

DRAINAGE AREA.--883 sq mi.

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

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

AVERAGE DISCHARGE.--33 years, 910 cfs.

EXTREMES.--Current year: Maximum discharge, 28,500 cfs June 23 (gage height, 7.00 ft); minimum, 22 cfs Sept. 29, 30 (gage height, 0.62 ft).

Period of record: Maximum discharge, 76,500 cfs Oct. 16, 1955 (gage height, 12.39 ft); minimum, 2.4 cfs Sept. 24, 25, 1964.

Floods of March 1936 and September 1938 reached stages of 10.5 and 10.2 ft, respectively, from information furnished by local resident. However, flood of October 1903 is known to have reached a higher stage than the 1936 or 1938 flood.

REMARKS.--Records good except those for winter period, which are poor. Entire flow at Gilboa (drainage from 314 sq mi) except for period of spill, Dec. 24 to Jan. 30, Feb. 4-8, 13-18, 23-27, Mar. 1 to June 17, June 21 to July 17, diverted from Schoharie Reservoir through Shandaken Tunnel and Esopus Creek into Ashokan Reservoir for water supply of city of New York. Occasional regulation of flow by Blenheim-Gilboa Pumped Storage Project.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	73	425	920	450	400	3,370	1,930	2,490	7,390	129	39
2	72	73	463	940	430	5,000	3,960	2,060	2,220	4,270	125	35
3	67	83	575	1,000	410	16,600	3,150	2,720	1,950	3,280	125	33
4	64	100	375	980	400	7,270	2,670	6,120	2,720	3,100	181	32
5	62	107	438	940	400	4,420	2,180	7,960	2,650	2,300	211	28
6	59	93	346	900	400	3,450	1,950	4,730	2,000	1,870	138	27
7	54	93	1,920	860	450	2,760	1,790	3,560	2,350	1,090	107	27
8	49	100	2,660	820	700	2,780	1,680	3,640	1,940	1,130	96	53
9	49	116	1,920	800	600	2,380	1,550	11,100	2,930	1,400	100	41
10	62	107	2,630	780	520	1,570	1,760	9,100	2,560	1,420	100	32
11	151	100	5,150	860	500	1,300	2,090	6,160	1,880	857	134	27
12	242	100	3,720	1,000	480	1,280	2,530	4,350	1,590	575	100	28
13	168	100	2,220	1,200	480	1,320	4,960	3,380	1,410	718	83	37
14	134	100	1,580	1,500	500	1,630	6,980	2,780	1,270	575	77	38
15	114	93	1,600	1,800	1,000	1,290	5,890	2,520	1,100	515	87	38
16	100	93	3,040	1,200	1,700	1,180	6,240	2,480	1,810	475	187	38
17	92	90	2,120	900	1,100	3,680	10,400	4,480	1,730	931	211	36
18	85	90	1,480	800	1,000	7,440	10,100	3,490	864	515	116	33
19	73	90	987	900	700	4,800	8,540	2,700	714	317	93	32
20	70	93	950	1,000	600	3,290	12,700	2,300	703	475	80	29
21	68	93	894	900	560	3,130	13,600	2,580	883	356	70	28
22	65	103	877	800	520	4,770	7,000	2,330	3,070	288	63	28
23	63	107	615	840	560	10,300	8,210	1,840	19,100	241	54	27
24	65	103	788	900	600	5,910	6,110	1,550	13,200	241	56	26
25	69	121	900	1,200	520	3,740	4,840	1,410	7,590	297	52	27
26	88	96	1,100	1,000	460	2,890	3,840	1,300	6,370	307	47	29
27	112	112	1,200	900	430	2,530	3,180	1,200	4,400	219	45	28
28	103	164	1,100	800	410	2,370	2,670	1,120	3,280	170	59	25
29	100	187	1,000	740	400	2,620	2,320	1,020	2,600	147	68	23
30	87	288	980	640	-----	3,340	2,080	927	4,140	129	56	23
31	80	-----	960	540	-----	2,840	-----	1,300	-----	125	45	-----
TOTAL	2,743	3,268	45,013	29,360	17,280	118,280	148,340	104,137	101,514	35,723	3,095	947
MEAN	88.5	109	1,452	947	596	3,815	4,945	3,359	3,384	1,152	99.8	31.6
MAX	242	288	5,150	1,800	1,700	16,600	13,600	11,100	19,100	7,390	211	53
MIN	49	73	346	540	400	400	1,550	927	703	125	45	23
CAL YR 1971	TOTAL	338,244	MEAN	927	MAX	10,200	MIN	13				
WTR YR 1972	TOTAL	609,700	MEAN	1,666	MAX	19,100	MIN	23				

01357500 MOHAWK RIVER AT COHOES, N.Y.

LOCATION.--Lat 42°47'07", long 73°42'29", Albany County, on right bank at Niagara Mohawk Power Corp. School Street powerplant in Cohoes, and 2.0 miles upstream from mouth.

DRAINAGE AREA.--3,456 sq mi. At site used 1918-25, 3,453 sq mi.

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

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

AVERAGE DISCHARGE.--7 years (1918-25), 5,820 cfs (includes diversion at lock 6); 47 years (1925-72), 5,530 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 58,100 cfs June 24 (gage height, 18.37 ft); minimum, 165 cfs Sept. 4

(gage height, 4.91 ft); minimum daily, 310 cfs Sept. 10.

Period of record: Maximum discharge, 143,000 cfs Mar. 6, 1964 result of release from ice jam (gage height, 23.15 ft) from rating curve extended above 100,000 cfs; minimum, 6 cfs Sept. 28, 1941 (gage height, 3.40 ft); minimum daily, 23 cfs Aug. 24, 1941.

REMARKS.--Records fair. Total flow of Mohawk River equals flow published at Cohoes which includes small diversion for Cohoes water supply plus flow diverted at Crescent Dam to Barge Canal through lock 6. Prior to 1925 records published as total flow. See Diversions in Hudson River basin for regulation and diversions upstream from this station. Water-quality records for the current year are published in Part 2 of this report for station 01357000 at Crescent Dam, 1.6 miles upstream.

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

REVISIONS (WATER YEARS).--WSP 741: Drainage area. WSP 1032: 1919-23(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,680	2,680	6,500	6,240	4,400	3,110	17,000	10,400	8,810	19,100	2,170	800
2	2,590	2,740	4,920	6,740	4,190	3,820	20,600	12,900	14,300	13,600	1,250	690
3	2,440	2,860	3,900	6,970	4,040	16,900	18,800	17,800	10,300	9,920	2,130	600
4	2,500	3,090	3,410	6,940	4,450	23,900	16,800	31,900	15,000	10,800	3,520	1,200
5	2,560	2,840	3,650	6,330	4,120	16,800	13,000	41,800	23,100	9,930	3,360	790
6	3,260	2,640	3,380	5,290	3,750	12,200	9,510	27,900	14,700	7,890	2,460	940
7	2,790	2,840	10,100	4,250	3,690	10,500	7,670	20,700	8,510	6,100	1,530	820
8	2,900	2,730	16,400	3,950	3,830	9,570	8,510	19,800	7,230	4,890	3,280	830
9	3,340	2,920	14,100	4,390	4,170	9,660	7,770	33,200	13,400	3,960	5,480	580
10	4,900	2,880	14,700	4,340	4,330	9,010	7,680	32,600	16,100	4,370	4,130	310
11	4,050	2,890	22,200	5,690	4,160	7,600	8,820	23,000	11,500	5,300	2,440	880
12	3,830	3,080	22,600	6,940	4,080	7,160	11,600	17,700	7,470	6,560	1,700	600
13	3,610	3,100	13,600	8,290	3,970	7,450	18,100	13,300	7,240	6,400	2,040	1,300
14	3,650	3,060	9,730	10,200	4,440	7,380	31,100	10,900	5,580	4,720	2,380	2,500
15	2,880	2,920	8,900	11,000	5,890	7,210	28,600	13,900	4,770	4,440	3,270	3,600
16	2,850	2,980	15,400	6,080	7,070	8,110	25,300	16,700	9,720	3,640	4,580	2,700
17	2,760	3,040	16,000	5,130	7,190	9,730	34,600	21,400	12,600	5,410	3,000	1,200
18	2,440	2,730	11,700	5,080	6,290	21,100	40,500	17,200	8,700	4,340	2,390	920
19	3,050	2,920	8,780	5,780	5,610	23,000	32,300	13,100	7,170	4,030	2,370	960
20	2,800	3,360	6,750	7,620	4,230	17,600	36,800	11,000	5,730	3,420	2,190	1,400
21	2,760	2,960	6,310	7,670	3,730	14,500	47,000	10,600	7,450	2,200	2,400	1,700
22	2,720	3,710	6,350	6,520	3,130	14,400	30,000	9,490	21,900	2,020	2,300	1,700
23	2,510	3,760	5,080	5,870	3,220	25,600	32,500	7,380	35,900	2,910	2,210	1,590
24	2,560	3,630	4,570	7,680	3,140	24,000	28,000	6,140	50,900	2,590	1,600	860
25	2,660	3,210	7,900	9,660	2,980	18,500	23,200	4,670	31,100	4,290	1,100	1,560
26	2,700	3,580	9,400	10,000	3,020	15,300	19,000	3,900	22,000	3,910	1,200	1,860
27	2,800	3,040	9,420	7,480	2,870	12,500	15,100	3,410	15,800	2,640	1,200	2,080
28	3,460	3,250	9,330	6,500	2,850	11,300	11,000	3,660	11,400	2,640	870	1,850
29	3,020	3,280	11,500	5,870	3,090	11,100	12,700	3,730	6,970	2,510	870	1,700
30	2,380	3,910	10,400	5,240	-----	13,600	13,100	3,720	13,300	2,390	1,200	1,540
31	2,360	-----	8,640	4,470	-----	14,400	-----	3,540	-----	2,310	910	-----
TOTAL	91,810	92,630	305,620	204,210	121,930	407,010	626,660	467,440	428,650	169,230	71,530	40,060
MEAN	2,962	3,088	9,859	6,587	4,204	13,130	20,890	15,080	14,290	5,459	2,307	1,335
MAX	4,900	3,910	22,600	11,000	7,190	25,600	47,000	41,800	50,900	19,100	5,480	3,600
MIN	2,360	2,640	3,380	3,950	2,850	3,110	7,670	3,410	4,770	2,020	870	310
CAL YR 1971	TOTAL 2,428,201		MEAN 6,653		MAX 37,000		MIN 430					
WTR YR 1972	TOTAL 3,026,780		MEAN 8,270		MAX 50,900		MIN 310					

01357500 MOHAWK RIVER AT COHOES, N.Y.--CONTINUED

(01357499) Diversion, in cubic feet per second, from Mohawk River at Crescent Dam, N.Y., through Barge Canal at lock 6, water year October 1971 to September 1972

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	124	106	3.0	3.0	3.0	3.0	90	108	114	126	138
2	148	94	106	3.0	3.0	3.0	3.0	102	114	132	102	138
3	118	94	94	3.0	3.0	3.0	3.0	114	114	108	132	132
4	136	100	106	3.0	3.0	3.0	3.0	78	102	120	120	144
5	112	112	94	3.0	3.0	3.0	3.0	72	108	90	114	108
6	130	112	88	3.0	3.0	3.0	3.0	72	108	84	138	102
7	118	112	88	3.0	3.0	3.0	3.0	72	114	108	120	102
8	124	100	88	3.0	3.0	3.0	3.0	84	126	102	102	96
9	130	88	82	3.0	3.0	3.0	3.0	90	126	120	126	120
10	124	124	28	3.0	3.0	3.0	3.0	72	108	114	120	108
11	112	112	3.0	3.0	3.0	3.0	3.0	108	126	102	126	102
12	130	106	3.0	3.0	3.0	3.0	3.0	102	108	102	126	126
13	112	94	3.0	3.0	3.0	3.0	3.0	126	120	126	138	102
14	124	124	3.0	3.0	3.0	3.0	3.0	132	138	126	90	108
15	112	100	3.0	3.0	3.0	3.0	3.0	96	132	120	120	84
16	124	94	3.0	3.0	3.0	3.0	3.0	132	120	126	120	114
17	124	106	3.0	3.0	3.0	3.0	500	108	108	138	108	132
18	100	106	3.0	3.0	3.0	3.0	58	108	108	126	108	102
19	124	106	3.0	3.0	3.0	3.0	58	108	144	108	120	108
20	106	112	3.0	3.0	3.0	3.0	58	120	96	132	132	120
21	94	118	3.0	3.0	3.0	3.0	58	114	108	144	114	108
22	136	112	3.0	3.0	3.0	3.0	58	102	108	126	108	120
23	142	112	3.0	3.0	3.0	3.0	58	126	84	144	144	120
24	112	88	3.0	3.0	3.0	3.0	58	96	72	108	108	102
25	94	88	3.0	3.0	3.0	3.0	108	96	72	120	126	108
26	144	118	3.0	3.0	3.0	3.0	72	126	72	114	132	114
27	130	118	3.0	3.0	3.0	3.0	72	120	78	120	120	108
28	106	100	3.0	3.0	3.0	3.0	72	108	126	108	132	114
29	94	100	3.0	3.0	3.0	3.0	72	120	120	150	108	126
30	88	100	3.0	3.0	-----	3.0	72	96	114	126	108	108
31	136	-----	3.0	3.0	-----	3.0	-----	96	-----	108	84	-----
TOTAL	3,738	3,174	943.0	93.0	87.0	93.0	1,422.0	3,186	3,282	3,666	3,672	3,414
MEAN	121	106	30.4	3.00	3.00	3.00	47.4	103	109	118	118	114
MAX	154	124	106	3.0	3.0	3.0	500	132	144	150	144	144
MIN	88	88	3.0	3.0	3.0	3.0	3.0	72	72	84	84	84

CAL YR 1971 TOTAL 27,771.0 MEAN 76.1 MAX 338 MIN 3.0
WTR YR 1972 TOTAL 26,770.0 MEAN 73.1 MAX 500 MIN 3.0

01357500 Mohawk River at Cohoes, N. Y.

REGULATION

(see Reservoirs in Hudson River basin)

Delta Dam
Hinckley Reservoir
Schoharie Reservoir

DIVERSIONS

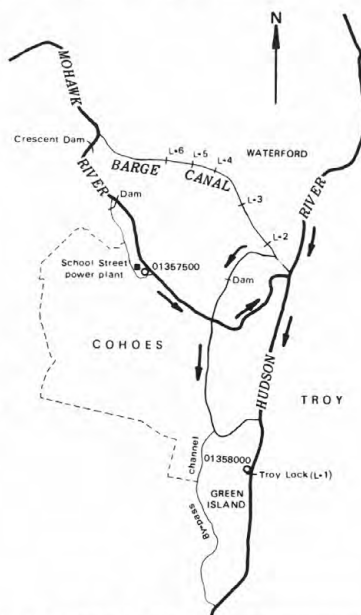
(see Reservoirs in Hudson River basin)

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, N. Y.

REGULATION

Great Sacandaga Lake at Conklingville, see
sta. no. 01323500.
Indian Lake near Indian Lake, see sta. no.
01314500.

Mohawk River regulation listed under Mohawk
River at Cohoes.

DIVERSIONS

Mohawk River diversions listed under Mohawk
River at Cohoes.

Into St. Lawrence River basin through:
Glens Falls feeder at Dunham Basin, see
sta. no. 01327500.
Bond Creek at Dunham Basin, see sta. no.
01328000.
Champlain (Barge) Canal, see sta. no.
01327500.

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

Bypass channel from Mohawk River estimated
average flow of 15 cfs not included in
record.

Figure 13.--Sketch showing gaging stations and inversions near mouth of Mohawk River.

HUDSON RIVER BASIN

01358000 HUDSON RIVER AT GREEN ISLAND, N.Y.

LOCATION.--Lat 42°45'08", long 73°41'22", Albany County, on right bank at Green Island, just upstream from Troy lock and dam, 0.5 mile downstream from 5th branch Mohawk River.

DRAINAGE AREA.--8,090 sq mi, approximately (including that above site of former auxiliary gage).

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

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

AVERAGE DISCHARGE.--26 years, 12,830 cfs.

EXTREMES.--Current year: Maximum discharge, 99,300 cfs May 5 (gage height, 22.48 ft); minimum daily, 3,740 cfs Oct. 3; minimum gage height, 14.54 ft Nov. 8.

Period of record: Maximum discharge, 181,000 cfs Dec. 31, 1948 (gage height, 27.05 ft, from high-water mark in gage well); maximum daily, 141,000 cfs Dec. 31, 1948, Jan. 1, 1949; minimum daily, 882 cfs Sept. 2, 1968; minimum gage height, 13.92 ft Sept. 2, 1946.

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 cfs). 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.

REMARKS.--Records fair. Records include flow over spillway, estimates of flow through lock, and flow through powerplant (leakage estimated prior to February 1971 and flow through generators thereafter). Powerplant which is located on right bank just downstream from gage was inoperative from Nov. 30, 1960 to Feb. 23, 1971. See Diversions in Hudson River basin for regulation and diversions upstream from this station. Water-Quality records for current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,800	6,820	12,800	12,600	11,100	11,300	29,600	28,600	16,900	53,000	8,180	4,960
2	6,980	7,540	9,820	12,600	11,100	14,100	34,700	35,400	25,800	42,800	7,170	5,390
3	3,740	8,060	8,390	11,500	10,700	36,000	32,400	49,100	21,500	35,200	8,600	4,900
4	6,740	9,020	7,310	14,300	11,600	39,100	30,700	78,600	24,900	38,200	9,530	4,110
5	7,800	9,020	7,170	12,200	10,700	28,300	24,700	94,500	33,900	35,300	8,720	6,070
6	7,520	6,270	8,430	12,400	10,300	23,100	21,200	76,000	25,200	27,800	7,880	6,910
7	8,180	6,440	14,800	10,100	10,000	20,100	18,700	61,600	19,900	25,000	6,250	6,910
8	8,070	4,070	25,100	9,640	10,600	20,900	19,700	56,800	18,100	20,600	8,080	6,300
9	6,450	8,800	20,600	10,100	10,400	20,700	18,400	69,900	26,000	18,000	11,200	5,510
10	6,410	8,920	21,500	8,980	10,500	18,800	18,600	67,700	29,800	17,400	11,200	4,820
11	9,330	8,860	31,700	13,300	9,690	17,300	20,000	54,400	23,100	17,300	8,230	5,720
12	11,900	8,900	35,000	15,100	9,730	16,800	22,400	45,600	17,400	17,500	7,720	5,640
13	10,900	8,600	23,800	16,800	9,540	16,700	30,700	38,300	16,500	17,200	7,140	5,640
14	10,600	6,460	19,100	19,300	10,900	17,200	47,800	33,500	14,600	14,500	5,680	7,280
15	10,300	7,110	19,000	19,300	14,300	17,100	43,100	36,200	13,300	13,300	9,270	9,320
16	7,710	6,230	26,300	13,900	14,800	17,700	39,400	39,400	18,000	12,100	9,820	9,070
17	6,790	6,790	29,100	9,560	14,400	23,400	50,500	50,200	23,000	14,200	8,900	6,110
18	6,630	5,270	24,100	11,900	12,100	48,700	59,600	48,100	19,200	12,600	7,710	5,100
19	8,340	5,530	18,300	12,800	11,700	46,500	56,600	41,700	18,000	12,400	7,480	6,800
20	9,050	5,180	15,100	14,100	9,960	34,700	65,800	36,200	16,400	13,200	7,170	7,240
21	8,720	4,720	15,100	13,500	9,400	28,400	79,900	34,300	17,400	10,100	6,170	7,230
22	7,870	6,530	15,100	12,500	10,000	30,000	58,600	31,700	33,500	9,090	7,220	7,880
23	6,360	7,740	9,800	11,900	10,400	49,300	57,300	27,500	54,100	9,830	6,900	6,260
24	5,490	8,990	7,810	14,800	10,200	46,000	53,300	23,200	78,900	10,200	5,790	4,810
25	4,930	7,650	11,300	15,900	10,200	35,700	46,500	20,000	68,000	12,500	6,980	5,420
26	8,140	7,640	12,200	20,100	10,600	30,500	39,500	16,900	59,000	12,000	4,860	6,970
27	8,930	7,330	12,500	15,900	10,600	26,200	32,900	14,400	46,700	10,000	4,660	6,130
28	9,180	7,370	15,000	14,000	10,600	23,100	28,900	13,500	39,000	10,000	5,620	8,730
29	9,200	7,090	18,300	13,300	10,800	23,000	27,900	11,200	30,600	9,680	7,540	6,140
30	6,020	9,780	17,500	12,500	-----	25,200	29,500	9,990	40,200	9,530	7,320	5,890
31	5,060	-----	14,900	10,900	-----	26,800	-----	11,700	-----	9,220	7,110	-----
TOTAL	242,140	218,730	526,930	415,780	316,920	832,700	1,138,9M	1,256.2M	888,900	569,750	236,100	189,260
MEAN	7,811	7,291	17,000	13,410	10,930	26,860	37,960	40,520	29,630	18,380	7,616	6,309
MAX	11,900	9,780	35,000	20,100	14,800	49,300	79,900	94,500	78,900	53,000	11,200	9,320
MIN	3,740	4,070	7,170	8,980	9,400	11,300	18,400	9,990	13,300	9,090	4,660	4,110

CAL YR 1971 TOTAL 5,412,780 MEAN 14,830 MAX 59,700 MIN 2,160
WTR YR 1972 TOTAL 6,832,300 MEAN 18,670 MAX 94,500 MIN 3,740

NOTE.--No gage-height record Dec. 19 to Jan. 28.

HUDSON RIVER BASIN

79

01359513 HUNGER KILL AT GUILDERLAND, N.Y.

LOCATION.--Lat 42°41'22", long 73°54'26", Albany County, on left bank, 100 ft downstream from bridge on Nott Road, and 1.0 mile south of Guilderland.

DRAINAGE AREA.--8.16 sq mi.

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

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

AVERAGE DISCHARGE.--5 years, 10.8 cfs (17.97 inches per year).

EXTREMES.--Current year: Maximum discharge, 87 cfs Mar. 17 (gage height, 5.43 ft); minimum daily, 7.1 cfs Oct. 16; minimum gage height, 2.08 ft Oct. 1.

Period of record: Maximum discharge, 132 cfs Aug. 28, 1971 (gage height, 6.31 ft); minimum, 4.8 cfs Sept. 6, 1967 (gage height, 1.42 ft).

REMARKS.--Records fair except those for winter periods and period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	11	10	12	9.6	13	17	12	19	19	12	8.9
2	8.9	12	9.0	11	9.8	24	17	13	15	15	12	8.9
3	8.9	11	8.2	11	10	31	16	15	14	15	11	8.8
4	9.3	10	8.0	11	10	18	15	28	17	14	11	8.8
5	9.8	10	9.0	11	10	12	14	18	15	13	14	8.6
6	9.9	10	10	12	11	14	14	15	16	13	12	8.3
7	9.8	12	14	11	11	18	14	14	16	12	11	8.5
8	10	10	11	11	12	15	14	20	15	12	15	8.8
9	11	9.9	12	11	14	13	14	29	20	12	13	8.7
10	17	10	14	11	15	16	15	19	15	13	11	8.3
11	9.3	10	20	12	17	19	16	17	14	13	11	8.4
12	7.4	9.7	14	13	20	11	16	16	14	12	11	8.2
13	7.4	9.5	12	14	25	12	22	15	13	12	11	9.1
14	7.4	9.3	12	15	29	12	17	15	13	12	13	10
15	7.4	9.3	17	16	25	16	16	17	13	12	11	8.9
16	7.1	9.5	16	10	31	11	17	21	18	14	10	8.5
17	7.3	8.9	13	10	15	47	21	26	14	25	11	8.5
18	7.7	8.8	13	12	12	52	15	17	13	15	11	8.4
19	7.9	8.8	15	10	10	18	14	16	16	13	10	8.4
20	8.4	8.8	12	10	10	14	25	18	14	12	9.8	8.3
21	8.6	9.3	12	10	10	14	17	17	16	12	9.6	8.6
22	8.9	11	12	12	10	14	16	16	18	12	9.3	11
23	9.0	9.0	12	11	10	14	19	15	19	12	9.3	8.6
24	10	8.8	13	10	10	14	15	15	23	12	11	8.7
25	12	8.8	12	11	9.8	15	14	14	18	12	10	9.2
26	11	16	12	13	9.6	15	13	14	17	15	9.7	8.5
27	11	12	12	10	9.6	17	13	14	15	12	9.7	8.1
28	10	10	12	9.4	10	19	12	14	14	12	9.8	8.3
29	10	11	12	9.4	10	18	12	13	13	12	9.3	8.4
30	10	14	12	9.4	-----	18	12	13	31	12	8.9	8.8
31	10	-----	12	9.6	-----	16	-----	21	-----	12	8.9	-----
TOTAL	291.1	308.4	382.2	348.8	395.4	560	472	527	488	413	336.3	261.5
MEAN	9.39	10.3	12.3	11.3	13.6	18.1	15.7	17.0	16.3	13.3	10.8	8.72
MAX	17	16	20	16	31	52	25	29	31	25	15	11
MIN	7.1	8.8	8.0	9.4	9.6	11	12	12	13	12	8.9	8.1
CFSM	1.15	1.26	1.51	1.38	1.67	2.22	1.92	2.08	2.00	1.63	1.32	1.07
IN.	1.33	1.41	1.74	1.59	1.80	2.55	2.15	2.40	2.22	1.88	1.53	1.19

CAL YR 1971 TOTAL 3,959.0 MEAN 10.8 MAX 55 MIN 5.2 CFSM 1.32 IN 18.05
WTR YR 1972 TOTAL 4,783.7 MEAN 13.1 MAX 52 MIN 7.1 CFSM 1.61 IN 21.81

PEAK DISCHARGE (BASE, 60 CFS)

NOTE.--No gage-height record July 16 to Aug. 14.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-03	0130	5.31	81	6-30	1430	4.66	61
3-17	1530	5.43	87				

HUDSON RIVER BASIN

01359519 NORMANS KILL NEAR WESTMERE, N.Y.

LOCATION.--Lat 42°40'43", long 73°54'25", Albany County, on right bank, 100 ft upstream from bridge on State Highway 155 (State Farm Road), 1.6 miles southwest of Westmere, and 1.8 miles southeast of Guilderland.

DRAINAGE AREA.--131 sq mi.

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

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

AVERAGE DISCHARGE.--5 years, 154 cfs.

EXTREMES.--Current year: Maximum discharge, 3,710 cfs May 5 (gage height, 9.57 ft); minimum, 16 cfs Sept. 12, 13 (gage height, 1.42 ft).

Period of record: Maximum discharge, 4,320 cfs (revised), Apr. 23, 1969 (gage height, 10.65 ft); minimum, 5.0 cfs July 29, 1968.

REVISIONS.--The figures of maximum discharge for some water years have been revised as shown in the following table. They supersede figures published in WRD NY indicated:

WRD NY	Water Year	Date	Discharge (cfs)	Gage height (feet)
1968	1968	May 29, 1968	3,430	9.63
1969	1969	Apr. 23, 1969	4,320	10.65
1970	1970	Apr. 3, 1970	3,500	9.72

REMARKS.--Records fair except those for winter periods, which are poor. Diversion above station for municipal supply by city of Watervliet.

REVISED PEAK DISCHARGE.--1968: Mar. 18 (2300) 2,900 cfs (8.94 ft); May 29 (2330) 3,430 cfs (9.63 ft).

1970: Nov. 8 (1645) 3,410 cfs (9.61 ft); Mar. 27 (0815) 3,020 cfs (9.09 ft); Apr. 3 (0130) 3,500 cfs (9.72 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	36	66	120	52	86	738	90	242	1,180	47	29
2	32	40	143	110	44	200	1,040	250	178	457	38	20
3	32	38	146	108	42	700	725	72	128	345	46	19
4	32	38	122	104	41	620	666	1,120	275	485	39	18
5	32	39	99	106	42	503	385	2,170	224	242	36	18
6	33	40	108	104	43	362	345	635	191	178	36	17
7	33	44	434	110	45	277	310	385	168	137	36	17
8	33	42	590	87	46	269	264	338	171	116	39	18
9	33	39	461	99	48	224	270	2,030	648	103	37	18
10	62	29	638	76	50	171	280	1,180	321	92	37	18
11	44	28	1,700	90	52	139	330	585	178	82	42	17
12	35	30	1,010	146	56	122	450	369	128	53	47	17
13	34	44	533	130	66	118	1,800	256	104	58	46	22
14	34	43	356	180	527	155	1,700	208	92	59	53	25
15	34	43	413	280	695	135	1,200	234	90	53	49	22
16	34	45	902	170	425	118	900	314	94	245	46	26
17	34	44	554	140	264	533	1,600	1,370	80	171	45	26
18	34	44	353	120	181	1,490	1,200	639	94	152	46	26
19	34	44	198	74	180	1,340	981	385	170	114	40	29
20	34	40	176	72	160	774	1,840	270	159	78	42	28
21	34	43	155	88	150	517	1,660	335	146	75	44	31
22	34	46	143	86	140	770	788	256	824	73	46	45
23	33	38	112	78	120	1,580	1,260	188	1,960	66	45	30
24	36	39	99	76	110	896	819	146	1,880	66	58	30
25	39	72	139	100	100	525	671	104	747	85	51	31
26	37	57	122	170	98	385	590	87	680	135	49	33
27	35	45	137	140	94	304	545	78	393	87	49	40
28	35	46	162	110	90	284	307	116	253	67	49	40
29	36	48	186	90	88	385	60	126	183	59	48	40
30	35	65	152	72	-----	693	58	57	1,760	53	47	42
31	36	-----	118	64	-----	537	-----	45	-----	51	42	-----
TOTAL	1,095	1,289	10,527	3,500	4,049	15,212	23,782	14,438	12,561	5,217	1,375	792
MEAN	35.3	43.0	340	113	140	491	793	466	419	168	44.4	26.4
MAX	62	72	1,700	280	695	1,580	1,840	2,170	1,960	1,180	58	45
MIN	32	28	66	64	41	86	58	45	80	51	36	17
(#)	5.34	5.85	5.83	6.28	6.31	6.49	6.57	6.61	6.64	6.42	6.35	6.44

CAL YR 1971 TOTAL 12,917 MEAN 35.4 MAX 1,700 MIN 28 # 5.43
WTR YR 1972 TOTAL 93,837 MEAN 256 MAX 2,170 MIN 17 # 6.26

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-11	2045	8.11	2,310	5-05	0130	9.57	3,710
3-18	2015	7.16	1,750	5-09	1215	8.14	2,700
3-23	0515	6.55	1,870	5-17	0815	6.80	1,980
4-14	0145	7.91	2,570	6-23	0615	8.24	2,760
4-17	Unknown	7.78	2,490	6-30	1945	9.40	3,570
4-20	2130	8.79	3,100				

Diversion equivalent in cubic feet per second, by city of Watervliet for water supply (figures furnished by Watervliet Water Department).

HUDSON RIVER BASIN

81

01359750 MOORDENER KILL AT CASTLETON-ON-HUDSON. N.Y.

LOCATION.--Lat 42°32'02", long 73°44'15", Rensselaer County, on left bank 800 ft downstream from bridge on State Highway 150, 0.2 mile east of village of Castleton-on-Hudson, 0.5 mile downstream from unnamed tributary, and 1.2 miles upstream from mouth.

DRAINAGE AREA.--32.6 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 98.72 ft above mean sea level. Prior to Nov. 25, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--15 years, 32.5 cfs (13.54 inches per year).

EXTREMES.--Current year: Maximum discharge, 755 cfs June 30 (gage height, 3.05 ft); minimum discharge, 5.5 cfs Sept. 10, 11, 12, 13 (gage height, 0.63 ft); minimum daily, 5.9 cfs Sept. 12.

Period of record: Maximum discharge, 1,350 cfs Jan. 22, 1959 (gage height, 3.63 ft); minimum, 0.30 cfs Aug. 9, 10, 1964 (gage height, 0.25 ft); minimum daily, 1.0 cfs Sept. 6, 1964.

REMARKS.--Records good except those for winter periods, which are poor. Slight diurnal fluctuation of low flow by mills upstream and occasional regulation at dam 800 ft upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	94	35	22	21	68	48	131	334	13	7.2
2	10	16	89	35	22	60	76	63	76	144	13	7.3
3	9.4	21	70	34	21	150	78	80	47	98	14	7.2
4	8.7	17	44	34	21	70	65	196	46	83	14	6.8
5	8.7	15	66	31	21	56	57	223	47	64	12	6.6
6	9.4	14	80	30	21	44	57	129	54	53	11	6.3
7	11	22	132	29	20	42	55	97	192	44	11	6.2
8	11	28	134	27	20	38	52	111	90	39	19	6.3
9	9.4	22	121	30	20	35	55	278	165	35	17	6.6
10	45	19	179	33	22	32	71	153	147	31	12	6.2
11	115	19	207	39	24	30	73	109	100	29	11	6.0
12	58	17	142	44	28	34	80	86	71	25	9.9	5.9
13	38	17	106	50	35	35	155	70	58	23	9.2	6.8
14	29	16	82	54	50	36	204	61	48	24	14	10
15	25	15	84	50	70	35	127	62	41	21	15	11
16	22	17	96	45	45	35	116	107	50	22	11	8.0
17	19	17	74	41	30	327	171	140	47	27	10	7.2
18	17	16	61	37	23	565	127	91	35	20	9.9	6.8
19	16	15	56	35	20	239	105	70	32	19	9.1	6.8
20	15	15	39	30	19	116	196	69	33	33	8.4	6.7
21	14	15	46	27	18	103	198	77	30	47	7.8	6.6
22	14	20	45	25	18	213	133	58	35	37	7.4	7.3
23	14	20	44	23	18	322	184	46	33	25	7.2	6.9
24	14	16	42	23	18	133	148	41	68	22	11	6.7
25	19	17	38	22	19	87	107	35	64	19	12	6.7
26	20	20	36	25	19	71	87	30	79	28	13	6.7
27	17	21	36	35	20	61	75	28	55	22	12	6.4
28	16	28	40	32	20	55	65	26	42	18	13	6.3
29	15	43	39	27	20	55	58	24	35	16	11	6.1
30	14	121	35	25	-----	65	52	22	343	14	9.4	7.6
31	14	-----	35	23	-----	66	-----	43	-----	14	8.2	-----
TOTAL	658.6	672	2,392	1,030	724	3,231	3,095	2,673	2,294	1,430	355.5	209.2
MEAN	21.2	22.4	77.2	33.2	25.0	104	103	86.2	76.5	46.1	11.5	6.97
MAX	115	121	207	54	70	565	204	278	343	334	19	11
MIN	8.7	13	35	22	18	21	52	22	30	14	7.2	5.9
CFSM	.65	.69	2.37	1.02	.77	3.19	3.16	2.64	2.35	1.41	.35	.21
IN.	.75	.77	2.73	1.18	.83	3.69	3.53	3.05	2.62	1.63	.41	.24

CAL YR 1971 TOTAL 14,850.3 MEAN 40.7 MAX 319 MIN 4.4 CFSM 1.25 IN 16.95
WTR YR 1972 TOTAL 18,764.3 MEAN 51.3 MAX 565 MIN 5.9 CFSM 1.57 IN 21.41

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-17	2330	2.91	721	6-30	2100	3.05	755
2-23	0430	2.42	465				

HUDSON RIVER BASIN

01359902 COEYMANS CREEK NEAR SELKIRK, N.Y.

LOCATION.--Lat 42°31'38", long 73°49'14", Albany County, on left bank, 40 ft downstream from bridge on Pictuay Road, and 1.2 miles southwest of Selkirk.

DRAINAGE AREA.--35.1 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 80 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 47.9 cfs.

EXTREMES.--Current year: Maximum discharge, about 1,300 cfs June 24; maximum gage height recorded, 6.52 ft Mar. 2; minimum daily discharge, 2.8 cfs Sept. 19; minimum gage height, 2.20 ft Sept. 29.

Period of record: Maximum discharge, 2,030 cfs Apr. 2, 1970 (gage height, 8.31 ft) from rating curve extended above 900 cfs on basis of contracted opening measurement of peak flow; minimum, 1.0 cfs Aug. 28, 1968 (gage height, 1.71 ft).

REMARKS.--Records fair except those for period at no gage-height record, which are poor. Diversion from Onesquethaw Creek, a tributary above station, for municipal supply of town of Bethlehem. Water discharged to Onesquethaw Creek from city of Albany filtration plant at point 4 miles upstream from station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	6.1	70	45	20	37	118	53	88	250	8.1	4.4
2	7.0	6.7	52	34	14	355	141	60	57	170	7.0	4.2
3	11	7.0	42	41	13	467	105	72	42	130	10	3.7
4	11	7.4	38	40	14	138	99	320	41	100	11	3.8
5	11	6.7	30	40	14	94	85	260	40	82	9.5	3.8
6	7.7	6.1	31	40	15	70	78	127	34	64	8.1	3.5
7	5.9	6.4	99	39	16	75	75	97	50	54	6.7	3.5
8	6.1	6.4	114	37	16	88	69	111	35	46	15	3.5
9	4.2	6.4	114	29	17	65	66	470	79	43	11	3.5
10	27	6.4	173	29	17	61	69	235	65	35	8.1	3.3
11	36	6.1	590	51	18	51	76	135	44	27	6.7	2.8
12	17	5.9	255	66	18	41	90	106	35	26	5.9	3.2
13	14	6.1	130	81	18	49	257	87	32	24	5.6	3.5
14	10	5.6	97	130	185	56	307	72	27	22	9.5	4.7
15	8.4	5.9	103	66	148	42	185	73	24	20	12	4.4
16	7.4	6.1	130	60	102	44	157	81	31	81	7.7	3.3
17	6.7	5.9	106	65	53	485	360	170	34	102	6.7	4.0
18	6.7	6.1	85	41	40	614	252	102	22	37	6.7	3.0
19	6.1	5.6	64	34	32	237	193	81	20	30	5.6	2.8
20	5.9	5.6	60	33	38	132	437	82	20	24	5.9	3.2
21	6.1	6.1	57	30	35	117	315	100	20	35	5.3	3.0
22	5.9	7.0	49	29	32	285	160	75	60	24	4.7	3.5
23	5.3	7.7	38	27	28	404	240	61	370	18	9.5	3.2
24	5.9	7.7	41	30	26	159	150	52	700	15	9.8	3.7
25	9.1	7.7	45	40	23	100	118	45	500	14	16	3.0
26	9.5	7.7	39	42	23	91	100	40	370	14	28	3.3
27	8.8	9.1	41	37	23	81	85	38	250	12	14	3.2
28	9.1	15	42	22	23	75	73	34	180	10	7.7	3.0
29	7.7	28	42	25	23	88	65	32	120	10	5.3	3.0
30	7.4	85	39	23	-----	105	58	30	370	8.8	5.6	3.3
31	6.7	-----	39	17	-----	96	-----	45	-----	8.4	4.4	-----
TOTAL	298.3	305.5	2,855	1,323	1,044	4,802	4,583	3,346	3,760	1,536.2	277.1	104.3
MEAN	9.62	10.2	92.1	42.7	36.0	155	153	108	125	49.6	8.94	3.48
MAX	36	85	590	130	185	614	437	470	700	250	28	4.7
MIN	4.2	5.6	30	17	13	37	58	30	20	8.4	4.4	2.8

CAL YR 1971 TOTAL 18,128.5 MEAN 49.7 MAX 590 MIN 1.7
WTR YR 1972 TOTAL 24,234.4 MEAN 66.2 MAX 700 MIN 2.8

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-02	2400	6.52	968	6-24			about 1,300
4-20	1600	6.16	824				

NOTE.--No gage-height record June 22 to July 7.

HUDSON RIVER BASIN

83

01359924 HANNACROIS CREEK NEAR NEW BALTIMORE, N.Y.

LOCATION.--Lat 42°26'22", long 73°48'41", Greene County, on left bank, 1,200 ft downstream from bridge on U.S. Route 9W, 1.2 miles southwest of New Baltimore, and 3.5 miles upstream from mouth.

DRAINAGE AREA.--61.6 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 49.2 cfs.

EXTREMES.--Current year: Maximum discharge, 932 cfs June 24 (gage height, 4.47 ft); minimum, 0.10 cfs Sept. 21-23, 29, 30; minimum gage height, 0.59 ft Sept. 21-23.

Period of record: Maximum discharge, 1,350 cfs Apr. 3, 1970 (gage height, 5.10 ft); minimum, 0.02 cfs Aug. 19-21, 1970 (gage height, 0.52 ft).

REMARKS.--Records fair. Diversion above station for Albany municipal water supply from Alcove Reservoir which includes diversion from Catskill Creek basin through Basic Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	8.0	113	27	16	24	175	58	60	374	2.2	.52
2	8.6	8.6	95	25	16	194	235	56	43	243	1.8	.34
3	7.6	14	83	24	15	365	220	67	30	164	1.6	.49
4	6.8	12	73	22	15	144	183	209	32	130	1.6	.45
5	5.5	11	56	21	15	95	148	362	53	82	1.5	.27
6	5.5	9.9	55	20	16	70	122	240	37	61	1.9	.19
7	6.0	9.9	125	19	16	62	120	187	53	46	1.5	.19
8	4.7	12	168	20	17	74	95	177	33	37	2.2	.18
9	4.3	8.6	166	20	18	54	89	479	41	34	1.9	.32
10	26	9.3	189	20	19	42	88	430	89	29	1.6	.42
11	52	9.3	368	23	21	34	96	305	64	24	1.1	.56
12	33	8.6	260	29	30	40	124	218	31	20	1.1	.45
13	26	8.6	177	40	45	55	228	142	25	16	1.1	.69
14	23	8.0	160	80	90	55	383	113	20	16	1.3	.94
15	19	6.8	140	60	72	39	371	112	18	14	1.2	.56
16	17	6.4	190	50	60	38	308	113	17	16	.94	.34
17	14	5.5	140	64	50	329	386	132	18	44	.88	.27
18	12	6.4	100	45	40	645	406	112	14	23	.88	.24
19	9.3	6.4	80	35	32	455	335	86	18	17	1.3	.16
20	8.6	6.0	64	27	30	278	441	89	20	15	.69	.13
21	8.0	6.4	54	23	29	202	560	113	19	14	.49	.11
22	7.6	6.0	46	21	27	323	368	93	52	16	.42	.10
23	6.8	5.1	40	20	25	595	413	62	374	9.3	.60	.25
24	6.4	5.1	35	23	23	402	335	51	825	9.9	.60	.24
25	16	7.6	37	26	22	258	248	44	508	7.2	.49	.27
26	16	6.4	34	28	22	194	189	25	374	5.1	.52	.45
27	14	7.2	32	22	21	149	142	20	253	6.0	.52	.27
28	12	9.3	30	19	19	119	115	18	172	3.6	1.1	.16
29	11	17	30	17	22	119	102	16	122	2.6	.75	.11
30	9.3	92	27	17	-----	160	68	14	268	2.1	.69	.24
31	8.6	-----	27	17	-----	158	-----	26	-----	1.9	.88	-----
TOTAL	414.5	337.4	3,194	904	843	5,771	7,093	4,169	3,683	1,482.7	35.35	9.91
MFAN	13.4	11.2	103	29.2	29.1	186	236	134	123	47.8	1.14	.33
MAX	52	92	368	80	90	645	560	479	825	374	2.2	.94
MIN	4.3	5.1	27	17	15	24	68	14	14	1.9	.42	.10

CAL YR 1971 TOTAL 19,345.27 MEAN 53.0 MAX 448 MIN .08
WTR YR 1972 TOTAL 27,936.86 MEAN 76.3 MAX 825 MIN .10

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-11	1030	3.32	402	4-20	2215	3.98	680
3-03	0045	3.77	575	5-04	2000	3.38	423
3-18	1700	4.09	735	5-09	0930	3.65	520
3-23	0100	3.97	675	6-24	0830	4.47	932
4-17	1915	3.47	454	6-30	2230	3.42	437

HUDSON RIVER BASIN

01361500 CATSKILL CREEK AT OAK HILL, N.Y.

LOCATION.--Lat 42°24'16", long 74°09'07", Greene County, on right bank 550 ft downstream from bridge on County Highway 22 in southernmost part of Oak Hill, 650 ft downstream from unnamed tributary, and 1.1 miles upstream from Tenmile Creek.

DRAINAGE AREA.--98 sq mi.

PERIOD OF RECORD.--May 1910 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 610.65 ft above mean sea level. Prior to Aug. 4, 1930, nonrecording gage and Aug. 4, 1930 to Sept. 30, 1968 water-stage recorder at site 530 ft upstream and datum 2.00 ft higher.

AVERAGE DISCHARGE.--62 years, 123 cfs (17.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,750 cfs June 22 (gage height, 9.40 ft), from rating curve extended above 1600 cfs; minimum, 0.40 cfs Sept. 17-22 (gage height, 1.60 ft).

Period of record: Maximum discharge, 12,500 cfs Nov. 25, 1950 (gage height, 14.08 at site and datum then in use, from floodmarks in gage house), from rating curve extended above 6,100 cfs on basis of slope-area measurement of peak flow; minimum, no flow part or all of each day Sept. 7-10, 25, 26, 1964, Aug. 29-Sept. 3, 1966; minimum gage height, 0.59 ft Sept. 26, 27, 1939 at site and datum then in use.

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

REVISIONS.--WSP 756: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	27	60	131	49	54	398	213	330	475	9.2	4.0
2	21	34	50	110	48	100	374	234	198	265	7.9	3.4
3	19	45	38	90	48	350	289	296	158	210	20	3.4
4	18	41	30	78	54	280	244	692	173	178	16	2.8
5	18	44	28	68	60	250	203	495	183	138	11	2.5
6	18	34	38	60	54	180	190	342	148	121	10	2.0
7	17	35	734	54	50	150	185	282	180	97	9.2	1.6
8	16	41	664	54	48	140	168	426	145	89	18	1.6
9	13	39	420	54	46	130	173	1,170	198	83	15	1.6
10	31	35	590	54	60	120	188	776	185	64	11	1.2
11	100	35	1,250	150	72	110	240	485	148	58	10	.70
12	63	36	596	170	90	110	307	362	129	50	7.9	.70
13	48	38	410	150	120	120	638	289	123	45	6.5	.70
14	41	31	300	200	350	120	769	251	115	44	7.9	.70
15	39	29	318	173	310	110	542	240	106	38	26	1.2
16	34	29	500	106	250	110	839	350	131	34	18	1.2
17	30	29	346	86	150	120	1,580	475	125	36	14	.70
18	35	27	279	76	90	600	1,150	330	106	31	12	.40
19	27	26	210	90	84	300	1,200	261	104	29	10	.40
20	24	26	203	78	78	260	1,820	279	111	28	11	.40
21	23	25	193	70	72	250	895	279	293	26	11	.40
22	23	25	168	60	68	818	664	219	1,830	22	15	2.0
23	21	24	127	66	64	923	846	183	1,660	19	10	1.6
24	24	19	160	80	62	410	578	158	797	18	17	1.2
25	44	35	190	100	60	275	435	135	657	15	21	1.2
26	47	50	168	68	58	225	354	121	470	14	15	1.2
27	41	35	195	60	56	198	296	110	318	12	13	1.2
28	36	30	188	56	52	190	258	101	228	10	10	1.2
29	34	38	170	54	54	289	237	92	178	9.2	7.9	1.2
30	31	51	155	52	-----	286	222	84	790	8.6	5.1	1.2
31	29	-----	163	50	-----	251	-----	237	-----	7.9	4.6	-----
TOTAL	991	1,013	8,941	2,748	2,657	7,829	16,282	9,967	10,317	2,274.7	380.2	43.60
MEAN	32.0	33.8	288	88.6	91.6	253	543	322	344	73.4	12.3	1.45
MAX	100	51	1,250	200	350	923	1,820	1,170	1,830	475	26	4.0
MIN	13	19	28	50	46	54	168	84	104	7.9	4.6	.40
CFSM	.33	.34	2.94	.90	.93	2.58	5.54	3.29	3.51	.75	.13	.01
IN.	.38	.38	3.39	1.04	1.01	2.97	6.18	3.78	3.92	.86	.14	.02

CAL YR 1971 TOTAL 49,320.10 MEAN 135 MAX 1,530 MIN 1.3 CFSM 1.38 IN 18.72
WTR YR 1972 TOTAL 63,443.50 MEAN 173 MAX 1,830 MIN .40 CFSM 1.77 IN 24.08

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-22	2030	6.24	2,630	6-22	2100	9.40	6,750
4-20	1400	6.82	3,270				

HUDSON RIVER BASIN

85

01361570 TENMILE CREEK AT OAK HILL, N.Y.

LOCATION.--Lat 42°24'26", long 74°08'06", Greene County, on left bank 425 ft upstream from bridge on State Highway 81, about 1,500 ft upstream from mouth, 0.9 mile east of Oak Hill, and 2.3 miles downstream from Eightmile Creek.

DRAINAGE AREA.--35.3 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 588.19 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,560 cfs June 22 (gage height, 5.71 ft), from rating curve extended as explained below; minimum, 3.1 cfs Sept. 7, 8, 12, 18 (gage height, 2.34 ft).

Period of record: Maximum discharge, 1,560 cfs June 22, 1972 (gage height, 5.71 ft), from rating curve extended above 700 cfs; minimum daily, 0.5 cfs Oct. 1-4, 1968, minimum gage height, 2.18 ft July 13, 1971.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	12	26	52	27	90	160	55	130	276	4.4	3.7
2	4.0	13	20	50	27	200	180	60	84	115	4.2	3.7
3	3.9	15	27	46	28	180	130	76	58	81	8.0	3.7
4	3.7	14	26	40	29	130	103	272	60	67	5.8	3.6
5	3.9	14	33	39	30	90	82	244	55	55	5.0	3.6
6	3.9	12	27	38	29	80	73	112	46	47	4.6	3.6
7	4.0	13	86	37	28	70	70	84	51	41	4.8	3.4
8	3.9	13	124	34	28	60	64	133	42	39	6.8	3.4
9	3.9	13	95	34	28	56	64	510	61	40	5.2	3.6
10	9.2	12	139	45	28	54	72	300	66	34	4.6	3.4
11	16	12	406	42	35	50	91	151	47	29	4.4	3.3
12	15	12	180	44	44	46	121	93	37	26	4.4	3.3
13	13	12	103	47	60	41	240	73	34	24	4.2	3.7
14	12	11	78	54	180	39	325	66	31	22	6.0	4.2
15	11	11	82	70	140	37	264	69	27	21	7.6	3.9
16	11	11	145	120	100	34	252	91	33	19	5.4	3.6
17	11	11	136	110	90	36	470	216	33	18	5.2	3.4
18	11	11	86	100	76	300	406	98	27	16	5.0	3.3
19	9.6	10	63	80	62	200	338	75	30	17	4.6	3.6
20	9.2	10	55	63	52	130	555	86	31	17	4.2	3.4
21	9.2	10	54	39	45	110	356	96	51	16	3.9	3.7
22	8.8	11	50	36	41	374	228	72	383	15	4.0	5.4
23	8.8	10	63	35	39	455	343	57	735	14	3.8	4.0
24	10	8.8	45	34	36	216	224	47	401	13	3.8	3.8
25	16	9.2	50	32	34	118	145	39	220	12	4.6	4.0
26	16	14	46	49	33	95	103	33	164	11	4.8	3.9
27	15	14	54	60	32	81	84	30	103	11	4.6	3.9
28	14	14	58	45	31	79	73	27	76	10	4.8	3.7
29	13	16	55	40	30	112	66	24	66	9.6	4.4	3.7
30	13	25	51	34	-----	124	60	22	379	9.2	4.0	4.0
31	12	-----	54	29	-----	106	-----	51	-----	5.0	3.8	-----
TOTAL	299.2	374.0	2,517	1,578	1,442	3,793	5,742	3,362	3,561	1,129.8	150.9	111.5
MEAN	9.65	12.5	81.2	50.9	49.7	122	191	108	119	36.4	4.87	3.72
MAX	16	25	406	120	180	455	555	510	735	276	8.0	5.4
MIN	3.7	8.8	20	29	27	34	60	22	27	5.0	3.8	3.3
CFSM	.27	.35	2.30	1.44	1.41	3.46	5.41	3.06	3.37	1.03	.14	.11
IN.	.32	.39	2.65	1.66	1.52	4.00	6.05	3.54	3.75	1.19	.16	.12

CAL YR 1971 TOTAL 17,311.3 MEAN 47.4 MAX 430 MIN 1.8 CFSM 1.34 IN 18.24
WTR YR 1972 TOTAL 24,060.4 MEAN 65.7 MAX 735 MIN 3.3 CFSM 1.86 IN 25.36

PEAK DISCHARGE (BASE, 650 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-22	2130	5.05	950	6-22	2330	5.71	1,560
4-20	1530	4.93	854	6-30	1330	4.89	822

HUDSON RIVER BASIN

01362198 ESOPUS CREEK AT SHANDAKEN, N.Y.
(HYDROLOGIC BENCH-MARK STATION)

LOCATION.--Lat 42°06'59", long 74°23'20", Ulster County, on left bank 2,400 ft downstream from bridge on State Highway 28, at Shandaken, 0.5 mile downstream from Bushnellville Creek, 0.5 mile upstream from Fox Hollow Creek, and 5.2 miles northwest of Phoenicia.

DRAINAGE AREA.--59.5 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,017.27 ft above mean sea level.

AVERAGE DISCHARGE.--9 years, 119 cfs (27.16 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,910 cfs June 22 (gage height, 9.57 ft); minimum, 9.4 cfs Sept. 17, 26-30 (gage height, 4.72 ft).

Period of record: Maximum discharge, 7,870 cfs July 28, 1969 (gage height, 10.88 ft from rating extended above 2,200 cfs on basis of slope-area measurement of peak flow); minimum, 2.8 cfs Nov. 22, 23, 1964, result of freezeup (gage height, 4.15 ft).

REMARKS.--Records fair. Occasional slight regulation when filling or draining swimming pools or small ponds above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	58	74	187	70	100	169	285	201	890	56	23
2	51	89	70	199	68	438	177	303	188	698	60	19
3	49	100	66	196	66	858	169	339	180	568	130	18
4	48	95	62	184	64	568	158	424	177	470	58	16
5	46	93	62	170	62	405	147	438	161	387	42	15
6	43	93	70	160	60	297	140	375	150	333	39	14
7	43	123	190	150	58	237	137	321	158	303	36	13
8	40	111	410	140	58	214	127	291	137	303	50	13
9	38	107	395	150	58	150	117	291	130	253	40	12
10	68	107	418	162	58	130	111	297	117	232	35	12
11	93	103	745	162	62	120	111	280	103	188	30	12
12	82	97	764	165	70	110	114	264	97	150	25	12
13	76	93	587	178	130	130	177	242	89	137	23	11
14	76	89	448	296	170	120	232	219	82	140	22	12
15	74	87	418	230	130	111	258	201	78	140	24	12
16	70	82	570	200	110	111	351	188	73	134	22	11
17	68	80	570	190	90	297	628	173	71	117	22	10
18	66	74	478	190	76	274	719	158	64	117	24	10
19	64	70	372	202	72	228	930	143	62	117	25	11
20	60	68	322	184	70	201	1,330	147	60	114	24	10
21	58	68	270	175	72	197	954	154	75	109	24	10
22	56	66	210	162	74	536	712	147	1,190	80	21	11
23	54	60	196	158	78	705	642	134	1,980	56	22	10
24	56	56	180	152	82	509	587	124	1,200	55	24	10
25	68	54	180	168	86	381	516	111	850	51	24	10
26	66	58	193	130	78	309	424	103	670	51	21	9.4
27	64	56	193	100	74	253	363	97	548	46	24	9.4
28	64	58	196	86	74	214	309	89	450	46	33	9.4
29	60	62	196	80	80	197	269	82	393	47	24	9.4
30	60	82	180	76	-----	188	269	78	776	56	22	11
31	58	-----	170	72	-----	169	-----	161	-----	56	22	-----
TOTAL	1,875	2,439	9,255	5,054	2,300	8,757	11,347	6,659	10,510	6,444	1,048	365.6
MEAN	60.5	81.3	299	163	79.3	282	378	215	350	208	33.8	12.2
MAX	93	123	764	296	170	858	1,330	438	1,980	890	130	23
MIN	38	54	62	72	58	100	111	78	60	46	21	9.4
CFSM	1.02	1.37	5.03	2.74	1.33	4.74	6.35	3.61	5.88	3.50	.57	.21
IN.	1.17	1.52	5.79	3.16	1.44	5.47	7.09	4.16	6.57	4.03	.66	.23

CAL YR 1971 TOTAL 53,132.6 MEAN 146 MAX 1,110 MIN 9.8 CFSM 2.45 IN 33.22
WTR YR 1972 TOTAL 66,053.6 MEAN 180 MAX 1,980 MIN 9.4 CFSM 3.03 IN 41.30

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-22	1900	6.87	1,110	6-22	2300	9.57	4,910
4-20	1600	7.57	1,800	6-30	1300	6.92	1,160

HUDSON RIVER BASIN

87

01362500 ESOPUS CREEK AT COLDBROOK, N.Y.

LOCATION.--Lat 42°00'51", long 74°16'16", Ulster County, on left bank at downstream side of bridge on Coldbrook Road, in Coldbrook, 1.5 miles upstream from Ashokan Reservoir and 2.5 miles south of Mount Tremper.

DRAINAGE AREA.--192 sq mi.

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 mean sea level. Prior to June 15, 1916, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 13,100 cfs June 22 (gage height, 12.10 ft); minimum, 101 cfs Oct. 9-10 (gage height, 4.14 ft).

Period of record: Maximum discharge, 59,600 cfs May 30, 1951 (gage height, 20.70 ft), from rating curve extended above 13,000 cfs on basis of slope-area measurements at gage heights 12.39, 15.15 and 20.70 ft; minimum daily, 8 cfs Oct. 14, 1914.

REMARKS.--Records fair except those for winter periods, which are poor. Since 1924, water diverted from Schoharie Reservoir through Shandaken Tunnel (see Reservoirs in Hudson River basin) enters Esopus Creek 10.5 miles above station and is included in records of daily discharge.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	605	702	400	420	617	548	774	1,130	2,450	510	214
2	151	734	665	455	410	1,740	581	809	858	1,580	510	210
3	145	760	600	475	410	3,200	537	886	715	1,320	940	210
4	137	816	560	420	380	1,560	505	1,300	611	1,040	599	207
5	134	972	520	360	230	1,140	470	1,340	548	823	475	204
6	123	940	570	310	220	858	450	1,060	475	695	450	204
7	118	980	1,170	330	260	734	445	916	515	605	400	204
8	110	420	2,020	400	310	708	400	844	435	611	339	204
9	103	380	1,850	440	310	548	375	948	400	559	297	200
10	261	366	1,910	510	320	475	361	932	375	495	281	197
11	305	352	2,980	520	320	430	415	858	330	435	269	194
12	228	330	2,920	510	330	435	548	788	301	370	265	194
13	204	480	2,370	430	537	435	893	721	277	357	257	197
14	235	445	1,970	734	972	410	1,060	671	257	370	261	197
15	475	265	1,650	629	702	380	1,060	708	273	440	293	194
16	564	242	1,410	450	659	361	1,160	728	415	420	261	191
17	553	235	1,380	430	540	1,170	1,910	721	485	460	253	191
18	542	430	1,100	420	480	1,190	1,930	659	465	564	249	194
19	531	537	865	490	440	872	2,210	611	470	559	242	197
20	520	754	734	415	400	741	3,950	741	455	647	238	191
21	510	683	635	390	400	689	3,020	823	916	767	235	191
22	500	605	542	348	400	1,960	1,960	715	4,790	715	228	194
23	490	531	450	343	410	2,420	1,870	635	6,420	677	228	188
24	553	465	420	348	420	1,490	1,630	559	4,200	659	224	188
25	767	400	410	440	435	1,130	1,410	495	2,570	647	238	188
26	721	380	460	300	425	916	1,190	435	1,760	641	224	184
27	689	395	465	230	405	774	1,000	385	1,280	611	228	184
28	671	445	465	250	420	647	865	343	1,110	599	257	184
29	653	475	455	350	520	617	774	305	872	587	231	184
30	635	689	400	340	-----	599	747	305	2,780	575	224	191
31	617	-----	380	390	-----	537	-----	872	-----	553	217	-----
TOTAL	12,405	16,111	33,028	12,857	12,485	29,783	34,274	22,887	36,488	21,831	9,923	5,870
MEAN	400	537	1,065	415	431	961	1,142	738	1,216	704	320	196
MAX	767	980	2,980	734	972	3,200	3,950	1,340	6,420	2,450	940	214
MIN	103	235	380	230	220	361	361	305	257	357	217	184
CAL YR 1971	TOTAL 308,917	MEAN 846	MAX 5,420	MIN 69								
WTR YR 1972	TOTAL 247,942	MEAN 677	MAX 6,420	MIN 103								

HUDSON RIVER BASIN

01364500 ESOPUS CREEK AT MOUNT MARION, N.Y.

LOCATION.--Lat 42°02'16", long 73°58'21", Ulster County, on left bank at downstream side of Glasco Turnpike bridge, 0.8 mile east of Mount Marion, 1.6 miles downstream from Plattekill Creek, and 4.5 miles upstream from mouth.

DRAINAGE AREA.--419 sq mi.

PERIOD OF RECORD.--May 1907 to March 1918 (monthly discharge only, published in WSP 1302) occasional miscellaneous measurements, 1951, 1956, 1966, 1967, 1969. March 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (from topographic map). Prior to Aug. 12, 1970, nonrecording gage at same site (at different datum May 1907 to March 1908, and at present datum June 9, 1966 to Aug. 12, 1970).

EXTREMES.--Current year: Maximum discharge, 7,700 cfs June 24 (gage height, 20.24 ft); minimum, 17 cfs Sept. 22-25 (gage height, 11.95 ft).

Period of record: Maximum discharge observed, 28,000 cfs Apr. 26, 1910 (gage height, 25.10 ft; datum then in use); minimum discharge, 10 cfs Aug. 20-22, 1970 (gage height, 11.77 ft).

REMARKS.--Records fair except those for winter period, which are poor. Flow from 256 sq mi of drainage area regulated by Ashokan Reservoir since Sept. 9, 1913. Water diverted from Schoharie Creek through Shandaken Tunnel (see Hudson River basin, Reservoirs in) since Feb. 3, 1924, enters Esopus Creek about 12.2 miles above Ashokan Reservoir. Large diversions from 33 sq mi of Saw Kill and 17 sq mi of Plattekill tributaries above station for water supply of Kingston and Saugerties. Diversions upstream during summer months for irrigation purposes. Diversions for water supply of city of New York made from Ashokan Reservoir (see Hudson River basin, Reservoirs in). Discharge records for this station now represent the natural flow from 112 sq mi, together with spillage during high stages from the upstream reservoirs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	194	1,190	395	160	250	520	958	4,460	3,500	72	33
2	137	280	664	388	160	593	525	888	3,170	3,390	70	31
3	128	410	540	475	184	1,920	511	979	2,100	2,840	235	31
4	119	321	439	451	381	2,210	455	1,810	1,460	2,820	174	30
5	103	282	342	399	354	2,520	407	2,590	1,420	1,860	116	27
6	93	258	318	300	282	1,890	370	2,310	951	1,360	96	26
7	96	272	603	250	252	1,400	384	1,860	1,070	888	86	26
8	97	290	1,450	220	220	1,000	345	1,530	895	608	106	26
9	96	265	1,250	210	200	740	327	1,710	674	530	93	25
10	220	250	1,080	250	190	580	318	1,920	592	395	76	24
11	598	235	1,260	336	180	480	321	1,810	511	336	67	23
12	384	210	1,250	407	180	420	336	1,410	348	280	62	22
13	290	196	944	443	196	440	522	1,150	270	248	59	23
14	248	184	708	916	730	459	1,040	979	245	258	56	25
15	212	172	620	620	636	388	834	1,070	220	220	55	25
16	184	166	718	500	560	370	696	1,190	200	188	55	23
17	166	154	658	400	427	1,320	965	1,370	196	182	55	22
18	148	148	545	370	360	2,360	1,250	1,100	180	168	55	21
19	136	142	535	390	300	1,790	2,080	828	190	166	55	25
20	126	138	498	411	250	1,490	3,170	686	200	182	53	20
21	119	136	520	360	240	1,210	4,870	808	225	186	50	18
22	113	134	520	321	230	1,420	4,340	777	1,460	172	46	18
23	109	126	447	288	220	2,810	3,800	696	5,410	140	42	17
24	124	120	321	288	210	3,310	3,290	620	7,400	124	41	17
25	340	115	419	348	200	2,590	2,800	511	5,740	110	44	18
26	399	125	392	348	190	1,860	2,340	399	4,150	103	50	18
27	336	142	306	275	190	1,340	1,900	318	3,060	89	46	20
28	295	186	324	210	190	972	1,560	260	2,290	83	47	20
29	250	298	339	180	190	765	1,310	210	1,900	78	47	20
30	220	1,380	330	170	-----	669	1,100	184	2,210	75	41	22
31	210	-----	415	160	-----	581	-----	1,320	-----	71	37	-----
TOTAL	6,236	7,329	19,945	11,079	8,062	40,147	42,686	34,251	53,197	21,650	2,187	696
MEAN	201	244	643	357	278	1,295	1,423	1,105	1,773	698	70.5	23.2
MAX	598	1,380	1,450	916	730	3,310	4,870	2,590	7,400	3,500	235	33
MIN	93	115	306	160	160	250	318	184	180	71	37	17
CAL YR 1971	TOTAL 156,265.00	MEAN 428	MAX 4,920	MIN 13	CFSM 1.02	IN 13.87						
WTR YR 1972	TOTAL 247,465.00	MEAN 676	MAX 7,400	MIN 17	CFSM 1.61	IN 21.97						

HUDSON RIVER BASIN

89

01365000 RONDOUT CREEK NEAR LOWES CORNERS, N.Y.

LOCATION.--Lat 41°52'00", long 74°29'12", Sullivan County, on left bank 100 ft downstream from small tributary, 350 ft upstream from county road bridge, 1.1 mile upstream from Sugarloaf Brook, 1.1 miles east of Lowes Corners, and 1.9 miles southwest of Sundown.

DRAINAGE AREA.--38.5 sq mi.

PERIOD OF RECORD.--February 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 874.44 ft above mean sea level. Prior to Oct. 4, 1938, nonrecording gage at highway bridge 350 ft downstream at different datum. Oct. 4, 1938 to July 5, 1951, water-stage recorder at site 1.2 miles downstream at datum 29.44 ft lower (datum 28.44 ft lower after July 3, 1949).

AVERAGE DISCHARGE.--35 years, 94.6 cfs (33.37 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,050 cfs June 22 (gage height, 8.55 ft); minimum discharge, 14 cfs Sept. 17 (gage height, 1.81 ft).

Period of record: Maximum discharge observed, 7,600 cfs July 22, 1938, from rating curve extended above 2,600 cfs; maximum gage height, 10.38 ft Oct. 15, 1955; minimum discharge, 4.2 cfs Nov. 13, 15, 21, 23, 1964.

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

REVISIONS (WATER YEAR).--WSP 1702: 1952.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	50	86	120	64	60	165	187	346	460	47	23
2	44	156	74	110	62	80	181	176	243	287	41	22
3	42	126	64	110	60	240	156	214	199	346	106	22
4	42	104	60	100	58	170	145	259	154	259	74	21
5	41	96	60	92	56	140	130	228	145	214	51	20
6	40	88	72	84	54	120	124	201	136	181	44	20
7	39	110	266	80	54	100	120	172	189	163	45	19
8	37	94	346	80	54	92	110	162	128	154	98	18
9	35	84	255	82	52	86	104	187	118	144	63	18
10	112	80	269	90	52	86	102	167	114	138	53	17
11	86	78	435	100	50	86	110	145	100	128	48	17
12	63	72	390	100	50	100	118	132	92	112	45	16
13	58	70	306	100	60	106	266	122	86	108	44	19
14	56	65	250	150	130	96	306	118	82	106	41	22
15	53	63	238	110	92	90	290	140	78	102	48	18
16	51	61	334	94	84	86	370	144	82	92	40	16
17	50	59	310	100	74	298	640	151	74	88	39	15
18	48	58	255	100	71	245	579	144	69	84	40	17
19	47	58	219	96	64	203	656	130	74	80	36	20
20	45	56	203	92	62	165	1,050	151	69	80	32	16
21	44	58	176	90	58	167	586	171	230	104	30	15
22	42	55	134	86	56	476	440	140	2,000	80	28	23
23	42	50	114	90	54	445	430	126	1,370	74	27	17
24	51	48	142	92	52	290	375	116	712	69	32	15
25	71	55	151	88	50	235	306	108	435	63	36	16
26	58	51	126	84	48	214	262	98	306	59	28	15
27	53	50	134	80	47	178	235	90	230	55	53	20
28	51	61	151	74	48	154	216	84	185	50	39	16
29	51	92	136	70	50	162	201	78	162	47	30	15
30	50	118	130	68	-----	163	187	74	768	44	26	20
31	50	-----	120	66	-----	147	-----	273	-----	45	25	-----
TOTAL	1,599	2,266	6,006	2,878	1,766	5,280	8,960	4,688	8,976	4,016	1,389	548
MEAN	51.6	75.5	194	92.8	60.9	170	299	151	299	130	44.8	18.3
MAX	112	156	435	150	130	476	1,050	273	2,000	460	106	23
MIN	35	48	60	66	47	60	102	74	69	44	25	15
CFSM	1.34	1.96	5.04	2.41	1.58	4.42	7.77	3.92	7.77	3.38	1.16	.48
IN.	1.55	2.19	5.80	2.78	1.71	5.10	8.66	4.53	8.67	3.88	1.34	.53

CAL YR 1971 TOTAL 34,586.4 MEAN 94.8 MAX 680 MIN 8.6 CFSM 2.46 IN 33.42
WTR YR 1972 TOTAL 48,372.0 MEAN 132 MAX 2,000 MIN 15 CFSM 3.43 IN 46.74

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	1430	5.14	1,670	6-30	1030	4.98	1,520
6-22	2100	8.55	5,050				

HUDSON RIVER BASIN

01365500 CHESTNUT CREEK AT GRAHAMSVILLE, N.Y.

LOCATION.--Lat 41°50'42", long 74°32'27", Sullivan County, on right bank just downstream from bridge in Gramhamsville, 600 ft downstream from Red Brook, and 0.6 mile upstream from highway bridge on State Highway 55.

DRAINAGE AREA.--20.9 sq mi.

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 mean sea level.

AVERAGE DISCHARGE.--34 years, 37.3 cfs (24.24 inches per year).

EXTREMES.--Current year: Maximum discharge, 709 cfs Mar. 22 (gage height, 2.71 ft); minimum, 5.4 cfs Sept. 23 (gage height, 0.64 ft).
Period of record: Maximum discharge, 4,640 cfs Oct. 15, 1955 (gage height, 5.02 ft), from rating curve extended above 1,300 cfs on basis of slope-area measurement at gage height 4.68 ft; minimum, 1.4 cfs Nov. 1, 1964.

REMARKS.--Records fair except those for winter periods, which are poor. Slight seasonal regulation caused by Beaverdam Pond on Red Brook.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	13	51	48	28	47	79	45	190	106	18	8.2
2	18	51	39	46	28	110	84	45	99	79	18	8.2
3	18	33	35	49	27	96	75	59	77	93	31	8.2
4	18	29	31	43	27	80	66	85	63	77	23	7.6
5	18	24	29	40	27	68	59	66	53	66	18	7.0
6	17	21	36	37	27	58	56	55	51	59	14	7.0
7	16	26	183	36	27	50	55	50	53	53	26	7.0
8	16	25	199	36	27	45	50	49	43	47	39	7.0
9	16	24	118	38	27	44	48	54	43	41	18	6.4
10	77	23	124	42	27	44	46	57	59	44	18	6.4
11	44	24	202	49	27	47	54	52	44	40	17	6.4
12	31	23	141	50	27	52	60	44	39	35	14	6.4
13	28	23	104	47	54	65	128	39	35	40	14	8.2
14	24	21	81	73	62	52	143	37	35	40	13	7.6
15	22	23	81	52	60	44	109	44	33	38	14	6.4
16	19	22	109	43	51	45	131	51	34	32	13	6.4
17	19	20	94	42	40	276	202	43	33	32	13	5.9
18	18	19	74	41	35	181	138	38	31	33	13	7.0
19	18	19	59	42	34	103	116	35	46	32	12	8.8
20	18	20	54	38	32	79	192	46	38	38	11	7.0
21	17	23	52	36	30	76	149	48	93	39	10	7.0
22	17	23	46	34	29	270	115	39	354	30	10	8.8
23	17	20	40	38	28	220	138	34	246	34	10	7.0
24	21	19	46	40	27	117	105	32	175	26	13	7.0
25	25	23	53	37	26	86	84	28	139	22	13	7.6
26	22	23	47	35	26	72	71	25	112	19	9.5	7.0
27	18	23	54	33	25	63	62	23	91	18	11	9.5
28	18	30	55	31	24	58	55	22	69	17	11	7.6
29	17	43	51	30	28	66	50	21	57	16	8.8	7.6
30	16	81	50	29	-----	68	46	23	181	17	8.2	8.2
31	15	-----	49	29	-----	68	-----	175	-----	17	8.2	-----
TOTAL	676	791	2,387	1,264	937	2,750	2,766	1,464	2,616	1,280	469.7	220.4
MEAN	21.8	26.4	77.0	40.8	32.3	88.7	92.2	47.2	87.2	41.3	15.2	7.35
MAX	77	81	202	73	62	276	202	175	354	106	39	9.5
MIN	15	13	29	29	24	44	46	21	31	16	8.2	5.9
CFSM	1.04	1.26	3.68	1.95	1.55	4.24	4.41	2.26	4.17	1.98	.73	.35
IN.	1.20	1.41	4.25	2.25	1.67	4.89	4.92	2.61	4.66	2.28	.84	.39
CAL YR 1971	TOTAL 14,060.3	MEAN 38.5	MAX 202	MIN 3.9	CFSM 1.84	IN 25.03						
WTR YR 1972	TOTAL 17,621.1	MEAN 48.1	MAX 354	MIN 5.9	CFSM 2.30	IN 31.36						

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-22	1700	2.71	709	6-22	0230	2.73	599
5-31	1130	2.45	520				

HUDSON RIVER BASIN

91

01366650 SANDBURG CREEK AT ELLENVILLE, N.Y.

LOCATION.--Lat 41°42'54", long 74°23'21", Ulster County, on right bank at upstream side of bridge on Canal Street, at Ellenville, 800 ft downstream from North Gully, 0.5 mile upstream from Beer Kill, and 1.7 miles upstream from mouth.

DRAINAGE AREA.--56.7 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1943, 1949-50, 1955-57. April 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 303.22 ft above mean sea level. Prior to Aug. 28, 1957, nonrecording gage.

AVERAGE DISCHARGE.--15 years, 89.7 cfs (21.48 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,810 cfs June 22 (gage height, 6.56 ft); minimum, 11 cfs Sept. 16.

Period of record: Maximum discharge, 4,660 cfs Aug. 19, 1960 (gage height, 7.01 ft); minimum, 3.2 cfs Oct. 14, 1964.

REMARKS.--Records poor. Occasional regulation when filling swimming pools or small ponds above station.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1969(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	58	256	130	50	61	185	130	1,640	486	43	19
2	33	102	188	130	50	375	203	128	580	330	36	19
3	32	106	140	130	49	795	183	163	369	276	35	18
4	30	88	120	120	49	400	160	340	288	239	33	18
5	30	76	100	110	48	200	140	289	306	192	31	18
6	28	70	120	100	48	180	136	218	213	165	29	18
7	28	100	365	100	48	180	175	185	187	154	28	18
8	27	90	548	100	48	150	140	163	139	152	34	17
9	25	78	400	100	48	130	130	173	122	120	24	17
10	155	75	386	110	48	120	124	190	204	109	28	17
11	153	72	528	120	48	110	128	160	122	98	26	16
12	98	67	400	140	48	130	134	140	96	85	25	16
13	75	64	300	130	70	195	340	128	77	89	24	22
14	64	60	240	200	170	183	372	122	74	74	23	22
15	58	63	220	150	140	153	280	136	66	71	22	21
16	54	66	290	120	100	144	286	170	63	66	21	18
17	50	60	260	120	84	508	516	178	62	77	21	14
18	46	57	220	110	76	580	337	215	54	59	20	22
19	44	55	170	104	66	421	271	168	149	60	20	21
20	41	60	150	94	62	307	407	265	120	54	20	18
21	40	58	140	87	58	280	407	322	190	90	19	18
22	37	58	130	78	54	762	347	256	1,350	59	19	18
23	38	53	110	70	50	771	417	240	1,560	50	21	18
24	58	69	120	74	47	431	325	228	710	46	23	17
25	124	61	140	90	45	301	262	198	507	40	19	18
26	92	70	130	80	43	238	220	163	426	39	27	17
27	76	64	140	70	41	198	193	134	357	37	23	18
28	70	94	150	62	41	175	170	136	273	35	21	18
29	64	146	140	58	43	173	153	124	218	33	20	17
30	60	379	130	56	-----	190	140	116	614	33	20	18
31	58	-----	130	54	-----	175	-----	1,210	-----	34	19	-----
TOTAL	1,824	2,519	6,861	3,197	1,772	9,016	7,281	6,788	11,136	3,452	774	546
MEAN	58.8	84.0	221	103	61.1	291	243	219	371	111	25.0	18.2
MAX	155	379	548	200	170	795	516	1,210	1,640	486	43	22
MIN	25	53	100	54	41	61	124	116	54	33	19	14
CFSM	1.04	1.48	3.90	1.82	1.08	5.13	4.29	3.86	6.54	1.96	.44	.32
IN.	1.20	1.65	4.50	2.10	1.16	5.92	4.78	4.45	7.31	2.26	.51	.36

CAL YR 1971 TOTAL 41,430 MEAN 114 MAX 825 MIN 11 CFSM 2.01 IN 27.18
WTR YR 1972 TOTAL 55,166 MEAN 151 MAX 1,640 MIN 14 CFSM 2.66 IN 36.19

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	0830	3.64	1,050	6-22	2330	6.56	2,810
3-22	2045	4.35	1,500	6-30	1215	4.01	1,000
5-31	1645	6.28	2,530				

NOTE:--No gage-height Dec. 12 to Jan. 17, Aug. 11 to Sept. 5.

HUDSON RIVER BASIN

01367500 RONDOUT CREEK AT ROSENDALE, N.Y.

LOCATION.--Lat 41°50'35", long 74°05'11", Ulster County, on left bank 30 ft upstream from bridge on James Street in Rosendale, and 3 miles upstream from Wallkill River.

DRAINAGE AREA.--386 sq mi.

PERIOD OF RECORD.--July 1901 to November 1903, October 1905 to January 1919, August 1926 to current year. Monthly discharge only for some periods, published in WSP 1302, and WRD N.Y. 1970.

GAGE.--Water-stage recorder. Datum of gage is 32.83 ft above mean sea level. Prior to January 1919, nonrecording gage at site 150 ft downstream at datum 38.83 ft above mean sea level. Aug. 3, 1926 to Sept. 10, 1969 at present site at datum 42.83 ft above mean sea level. Sept. 11, 1969 to Feb. 3, 1970 water-stage recorder and June 9, 1970 to Jan. 18, 1971 nonrecording gage at site 0.2 mile upstream at datum 44.03 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 14,600 cfs June 23 (gage height, 18.80 ft); minimum, 48 cfs Sept. 11, 12, 13 (gage height, 8.85 ft).

Period of record: Maximum discharge, 35,800 cfs Oct. 16, 1955 (gage height, 36.8 ft, from floodmarks), from rating curve extended above 15,000 cfs on basis of contracted-opening measurement at gage height 33.93 ft; minimum, 2.2 cfs July 16, 1965; minimum daily, 3.0 cfs July 16, 1965.

REMARKS.--Records fair except those for winter periods, which are fair. Occasional regulation from hydroelectric plant above 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. Flow regulated by Rondout Reservoir (see Hudson River basin, Reservoirs in) since October 1950. Subsequent to May 1951, entire flow except for periods of spilling, diverted from Rondout Reservoir for New York City water supply. Discharge records for this station now represent the natural flow from 272 sq mi, together with spillage during high flow from Rondout Reservoir.

REVISIONS (WATER YEARS).--WSP 641: Drainage area. WSP 756: 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	310	1,400	736	260	497	840	629	9,180	2,890	192	71
2	195	497	960	692	250	1,580	952	608	4,500	1,700	179	66
3	182	744	700	934	270	4,210	889	692	3,000	1,260	173	62
4	179	615	600	713	601	2,470	776	2,290	2,000	1,390	176	65
5	182	515	528	643	500	1,650	706	2,020	1,500	961	157	60
6	182	450	479	497	440	1,140	678	1,260	1,200	848	138	57
7	176	491	1,730	450	400	925	720	997	900	650	128	56
8	166	535	3,740	400	360	780	657	864	713	713	141	53
9	160	433	2,340	473	330	640	636	943	594	594	154	53
10	943	395	2,020	744	310	580	574	1,010	943	479	119	50
11	1,600	370	2,750	889	290	535	567	856	728	467	112	49
12	699	314	2,610	1,030	290	699	608	706	580	400	105	49
13	473	328	1,840	898	400	1,170	1,260	601	450	350	103	51
14	395	310	1,370	1,850	1,980	997	2,180	548	385	380	101	65
15	350	292	1,260	1,230	1,310	784	1,590	664	350	365	109	66
16	314	301	1,500	856	1,110	760	1,380	898	328	310	119	63
17	287	287	1,200	600	800	2,630	2,790	808	341	360	103	59
18	269	269	1,000	620	685	3,460	2,040	925	301	314	101	51
19	253	260	800	640	574	2,450	1,640	728	561	287	103	57
20	242	287	700	608	540	1,730	2,410	1,020	671	274	90	59
21	230	287	640	528	500	1,420	2,860	1,720	685	1,970	81	59
22	220	287	560	473	480	2,450	2,000	1,040	5,180	699	81	54
23	199	269	522	439	422	4,480	2,690	792	12,200	433	76	53
24	278	245	491	535	411	2,450	2,010	650	6,010	332	74	53
25	934	220	470	784	390	1,670	1,590	528	3,200	274	78	51
26	657	250	535	685	370	1,310	1,280	444	2,330	242	78	51
27	491	350	561	455	385	1,080	1,020	390	1,800	220	81	57
28	422	528	580	360	375	840	889	337	1,300	206	107	57
29	385	800	567	320	375	776	800	301	907	185	94	54
30	341	2,590	594	290	-----	864	692	278	2,560	166	83	54
31	319	-----	979	270	-----	832	-----	4,620	-----	163	76	-----
TOTAL	11,936	13,829	36,026	20,642	15,408	47,859	39,724	30,167	65,397	19,882	3,512	1,705
MEAN	385	461	1,162	666	531	1,544	1,324	973	2,180	641	113	56.8
MAX	1,600	2,590	3,740	1,850	1,980	4,480	2,860	4,620	12,200	2,890	192	71
MIN	160	220	470	270	250	497	567	278	301	163	74	49
CAL YR 1971	TOTAL 209,960	MEAN 575	MAX 5,460	MIN 42								
WTR YR 1972	TOTAL 306,087	MEAN 836	MAX 12,200	MIN 49								

HUDSON RIVER BASIN

93

01368000 WALLKILL RIVER NEAR UNIONVILLE, N.Y.

LOCATION.--Lat 41°15'36", long 74°32'56", Sussex County, New Jersey on right bank on downstream side of bridge on the Bassetts Bridge Road, 0.6 mile upstream from small tributary, 2.0 miles south of the New York-New Jersey State line, and 3.0 miles south of Unionville.

DRAINAGE AREA.--140 sq mi.

PERIOD OF RECORD.--September 1937 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (from topographic map). Prior to Nov. 16, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 209 cfs (20.27 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,620 cfs June 25 (gage height, 9.29 ft); minimum, 30 cfs Sept. 18 (gage height, 3.08 ft).
Period of record: Maximum discharge, 6,880 cfs Aug. 19, 1955 (gage height, 13.35 ft); minimum daily, 4.2 cfs Aug. 8-10, 1966.

REMARKS.--Records poor.

REVISIONS.--WRD N.Y. 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	180	827	260	120	353	281	251	775	655	76	37
2	102	300	809	278	120	593	264	269	1,060	593	73	35
3	99	408	600	400	130	945	255	290	1,080	442	76	59
4	97	403	437	350	160	1,150	240	511	914	326	78	50
5	91	338	372	280	220	1,060	249	617	702	274	64	44
6	86	281	343	240	170	861	240	499	533	281	56	45
7	88	274	518	210	140	614	231	374	468	249	57	42
8	83	295	637	210	125	450	224	329	394	218	100	40
9	73	255	663	235	115	370	205	338	322	200	86	37
10	191	231	607	372	110	300	191	434	348	176	66	34
11	526	218	509	415	105	270	180	427	331	152	56	31
12	581	198	434	386	100	358	176	353	262	134	50	35
13	439	185	398	346	100	583	209	295	229	176	49	37
14	312	172	350	367	250	612	353	262	209	312	46	44
15	238	172	346	300	600	475	288	300	196	278	64	42
16	202	211	360	180	450	434	286	398	185	202	73	37
17	174	194	329	170	340	668	470	386	242	202	59	33
18	156	172	293	170	271	945	509	317	246	191	55	34
19	145	158	242	190	235	1,050	384	307	492	176	52	109
20	136	158	233	211	220	936	394	379	640	154	49	138
21	129	154	233	207	200	751	610	574	571	218	45	83
22	124	149	227	202	200	598	653	564	671	220	41	59
23	118	130	170	198	190	627	653	446	1,020	168	38	50
24	142	110	170	240	190	622	629	343	1,470	127	39	45
25	298	120	190	281	180	504	530	286	1,600	104	38	41
26	276	172	220	200	180	430	449	244	1,480	99	46	40
27	231	196	229	170	180	377	379	216	1,310	89	97	39
28	187	281	211	150	180	338	329	194	1,150	83	80	39
29	160	398	196	140	235	312	295	176	920	78	55	35
30	147	629	205	130	-----	307	269	160	723	75	45	40
31	138	-----	300	120	-----	305	-----	310	-----	72	40	-----
TOTAL	5,884	7,142	11,658	7,608	5,816	18,198	10,425	10,849	20,543	6,724	1,849	1,434
MEAN	190	238	376	245	201	587	348	350	685	217	59.6	47.8
MAX	581	629	827	415	600	1,150	653	617	1,600	655	100	138
MIN	73	110	170	120	100	270	176	160	185	72	38	31
CFSM	1.36	1.70	2.69	1.75	1.44	4.19	2.49	2.50	4.89	1.55	.43	.34
IN.	1.56	1.90	3.10	2.02	1.55	4.84	2.77	2.88	5.46	1.79	.49	.38

CAL YR 1971 TOTAL 92,765 MEAN 254 MAX 1,730 MIN 18 CFSM 1.81 IN 24.65
WTR YR 1972 TOTAL 108,130 MEAN 295 MAX 1,600 MIN 31 CFSM 2.11 IN 28.73

PEAK DISCHARGE (BASE, 1,200 CFS).--June 25 (0430) 1,620 cfs (9.29 ft).

HUDSON RIVER BASIN

01369000 POCHUCK CREEK NEAR PINE ISLAND, N.Y.

LOCATION.--Lat 41°16'32", long 74°28'18", Orange County, on right bank 75 ft downstream from bridge on Newport Bridge Road at Newport, 1.5 miles south of Pine Island, 3.2 miles west of Edenville, and 4.1 miles upstream from mouth.

DRAINAGE AREA.--98.0 sq mi.

PERIOD OF RECORD.--September 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 382.39 ft above mean sea level (levels by Corps of Engineers). Modified concrete control from July 1944 to April 1960.

AVERAGE DISCHARGE.--35 years, 160 cfs (22.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,820 cfs June 25 (gage height, 6.06 ft); minimum, 16 cfs Sept. 18 (gage height, 1.43 ft).
Period of record: Maximum discharge, 3,090 cfs Oct. 16, 1955 (gage height, 8.62 ft); minimum, 1.1 cfs Aug. 30, 1966.

REMARKS.--Records good except those for winter periods, periods of missing record, and discharges above 500 cfs, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	143	640	180	87	150	237	227	482	780	79	23
2	82	185	550	170	87	375	227	218	790	770	74	23
3	81	290	430	200	87	780	218	224	800	645	69	30
4	76	300	320	240	170	1,050	206	283	670	530	66	27
5	71	250	280	200	150	930	203	347	570	447	61	24
6	69	220	270	180	110	750	194	383	487	395	56	23
7	67	210	430	160	94	500	185	359	415	347	53	22
8	64	220	500	150	86	400	176	321	363	307	67	21
9	61	190	491	170	80	300	164	311	311	286	67	20
10	105	170	482	200	78	260	152	328	290	262	61	19
11	272	160	451	234	76	240	143	339	272	224	57	18
12	304	150	415	248	74	270	138	318	237	197	53	18
13	279	140	379	230	90	355	140	286	209	197	44	19
14	234	130	343	227	180	371	182	258	185	269	38	21
15	188	130	318	218	520	355	170	248	155	269	59	20
16	146	160	304	150	411	347	173	255	128	234	53	20
17	120	150	290	130	332	403	221	244	155	209	43	18
18	107	140	265	130	230	570	230	255	155	179	41	17
19	97	130	234	140	190	655	215	251	255	170	38	31
20	90	120	212	140	160	615	227	276	379	173	34	39
21	84	120	203	146	150	540	335	399	415	339	31	35
22	81	115	191	140	150	491	423	491	491	355	29	31
23	79	105	150	138	140	510	464	455	960	286	27	27
24	97	95	150	158	140	500	478	391	1,610	218	25	23
25	203	90	150	170	130	455	451	328	1,790	173	24	23
26	221	100	160	150	130	407	403	279	1,650	143	24	22
27	218	140	173	120	130	359	351	237	1,420	115	25	21
28	203	200	164	105	130	321	311	203	1,140	95	41	19
29	173	350	152	98	130	290	279	176	885	85	33	19
30	146	500	152	92	-----	269	251	155	755	78	27	22
31	130	-----	190	90	-----	255	-----	218	-----	75	25	-----
TOTAL	4,237	5,403	9,439	5,104	4,522	14,073	7,547	9,063	18,424	8,852	1,424	695
MEAN	137	180	304	165	156	454	252	292	614	286	45.9	23.2
MAX	304	500	640	248	520	1,050	478	491	1,790	780	79	39
MIN	61	90	150	90	74	150	138	155	128	75	24	17
CFSM	1.40	1.84	3.10	1.68	1.59	4.63	2.57	2.98	6.27	2.92	.47	.24
IN.	1.61	2.05	3.58	1.94	1.72	5.34	2.86	3.44	6.99	3.36	.54	.26
CAL YR 1971	TOTAL 72,733	MEAN 199	MAX 990	MIN 11	CFSM 2.03	IN 27.61						
WTR YR 1972	TOTAL 88,783	MEAN 243	MAX 1,790	MIN 17	CFSM 2.48	IN 33.70						

PEAK DISCHARGE (BASE, 840 CFS)

NOTE.--No gage-height record Nov. 2 to Dec. 9.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-4	1430	4.95	1,220	6-25	1100	6.06	1,820
6-3	0130	4.19	845				

01369500 QUAKER CREEK AT FLORIDA, N.Y.

LOCATION.--Lat 41°20'21", long 74°21'45", Orange County, on right bank at downstream side of private bridge, just downstream of Browns Creek, at Florida, and 5.0 miles southwest of Goshen.

DRAINAGE AREA.--9.74 sq mi.

PERIOD OF RECORD.--September 1937 to current year.

GAGE.--Water-stage recorder. Concrete control since August 1943. Datum of gage is 393.32 ft above mean sea level (levels by Soil Conservation Service). Prior to Dec. 12, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 12.3 cfs (17.15 inches per year).

EXTREMES.--Current year: Maximum discharge, 375 cfs Mar. 3 (gage height, 3.90 ft); minimum, 0.45 cfs Sept. 28, 29 (gage height, 1.33 ft).

Period of record: Maximum discharge, 1,050 cfs Sept. 21, 1938 (gage height, 6.0 ft, from floodmarks), from rating curve extended above 230 cfs on basis of contracted-opening measurement at gage height 5.8 ft; minimum, no flow Aug. 30, 1966, result of temporary pumping from gage pool.

REMARKS.--Records good except those for winter periods, which are fair. Minor amount of diversion upstream during low flow periods for irrigation purposes. Some diversion from Glenmore Lake for village of Florida water supply.

REVISIONS (WATER YEARS).--WSP 951: 1938 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	14	53	14	4.7	32	14	13	182	50	3.4	.62
2	2.9	22	32	34	4.8	135	15	13	80	35	2.4	.74
3	2.7	20	26	30	6.0	197	12	26	52	28	2.4	1.0
4	2.5	16	24	23	27	77	13	47	40	23	2.4	.84
5	2.5	13	19	24	10	56	13	29	37	23	2.0	.84
6	2.3	12	33	17	6.8	40	11	21	28	20	1.5	.74
7	2.1	19	74	16	6.0	34	12	17	27	16	2.1	.68
8	1.7	14	62	14	5.6	27	9.6	14	19	17	3.7	.62
9	1.5	11	43	15	5.2	21	9.0	29	19	16	2.0	.53
10	40	11	38	27	4.9	17	8.1	28	43	12	1.5	.49
11	40	10	32	22	4.7	19	8.4	20	19	9.0	1.4	.45
12	24	9.2	26	19	4.5	36	7.7	16	14	7.4	1.2	.49
13	15	8.5	23	17	65	37	21	13	13	34	1.0	.62
14	13	7.4	21	18	40	27	17	13	11	24	1.5	.57
15	11	10	26	11	21	27	14	16	10	15	6.5	.57
16	9.2	12	24	9.6	18	45	25	14	9.4	15	2.0	.53
17	8.1	8.9	18	8.8	14	109	40	34	19	20	1.5	.49
18	7.3	8.0	16	8.6	14	84	20	27	11	12	1.4	.57
19	6.5	7.9	13	11	13	50	17	16	96	9.4	1.0	1.0
20	5.8	8.7	13	10	12	38	60	53	48	13	.84	.62
21	5.5	7.7	13	11	12	34	41	40	40	24	.74	.53
22	5.2	6.7	11	9.3	11	46	52	26	110	12	.68	.62
23	5.2	5.5	8.6	10	11	42	56	20	133	8.2	.62	.57
24	18	4.9	12	14	11	30	39	16	83	6.5	.62	.53
25	29	7.4	13	15	11	26	30	13	80	5.3	2.0	.57
26	18	11	12	8.8	11	23	24	11	73	4.5	.94	.57
27	14	12	11	6.5	11	20	21	9.0	57	4.0	1.2	.53
28	12	29	10	6.0	12	17	17	7.8	43	3.4	2.3	.49
29	10	70	9.4	5.4	15	16	15	6.9	34	2.9	2.6	.53
30	9.6	108	24	5.0	-----	17	13	6.9	68	2.9	.84	.84
31	9.2	-----	28	4.8	-----	15	-----	130	-----	2.9	.68	-----
TOTAL	336.9	504.8	768.0	444.8	392.2	1,394	654.8	745.6	1,498.4	475.4	54.96	18.79
MEAN	10.9	16.8	24.8	14.3	13.5	45.0	21.8	24.1	49.9	15.3	1.77	.63
MAX	40	108	74	34	65	197	60	130	182	50	6.5	1.0
MIN	1.5	4.9	8.6	4.8	4.5	15	7.7	6.9	9.4	2.9	.62	.45
CFSM	1.12	1.72	2.55	1.47	1.39	4.62	2.24	2.47	5.12	1.57	.18	.06
IN.	1.29	1.93	2.93	1.70	1.50	5.32	2.50	2.85	5.72	1.82	.21	.07

CAL YR 1971 TOTAL 5,599.96 MEAN 15.3 MAX 180 MIN .29 CFSM 1.57 IN 21.39
WTR YR 1972 TOTAL 7,288.65 MEAN 19.9 MAX 197 MIN .45 CFSM 2.04 IN 27.84

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-29	2230	3.26	222	6-1	0730	3.72	309
2-13	1730	3.31	232	6-22	2300	3.47	251
3-3	1000	3.90	375				

HUDSON RIVER BASIN

01371500 WALLKILL RIVER AT GARDINER, N.Y.

LOCATION.--Lat 41°41'10", long 74°09'56", Ulster County, on left bank 400 ft upstream from bridge on U.S. Highway 44, 500 ft downstream from Shawangunk Kill and 0.7 mile northwest of Gardiner.

DRAINAGE AREA.--711 sq mi.

PERIOD OF RECORD.--September 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 185.70 ft above mean sea level.

AVERAGE DISCHARGE.--48 years, 1,023 cfs (19.53 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,400 cfs June 1 (gage height, 10.97 ft); maximum gage height, 12.11 ft Feb. 14 (ice jam); minimum discharge, 120 cfs Sept. 13 (gage height, 2.32 ft).
Period of record: Maximum discharge, 30,800 cfs Oct. 16, 1955 (gage height, 19.81 ft); minimum, 9.5 cfs Sept. 28, 1964.

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

REVISIONS.--WSP 756: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	500	654	4,820	1,500	500	1,310	1,280	1,080	10,100	4,730	385	152
2	460	902	3,000	1,630	490	3,040	1,220	1,040	6,750	3,420	380	144
3	425	1,340	2,400	2,490	500	7,870	1,180	1,210	4,810	2,880	688	141
4	415	1,370	2,000	1,800	600	6,510	1,080	2,920	3,640	2,530	415	144
5	405	1,180	1,700	1,400	1,000	4,900	1,070	3,090	3,640	1,820	435	155
6	390	1,010	1,550	1,200	880	3,860	1,120	2,350	2,660	1,690	355	144
7	375	1,060	3,900	1,000	780	3,000	1,450	1,870	2,260	1,450	313	139
8	355	1,180	5,270	900	700	2,400	1,290	1,510	1,810	1,250	405	136
9	336	1,030	4,140	840	640	1,900	1,080	1,400	1,680	1,050	546	133
10	1,760	902	3,480	820	580	1,600	926	1,710	3,670	942	430	133
11	4,110	856	3,150	2,000	560	1,500	856	1,760	2,380	828	340	139
12	2,880	793	2,550	1,800	540	1,640	828	1,480	1,610	723	287	125
13	2,120	723	2,150	1,700	540	3,030	1,560	1,230	1,230	730	266	128
14	1,580	674	1,820	1,300	800	3,090	2,520	1,060	1,040	1,180	242	147
15	1,170	648	1,840	1,000	3,000	2,340	1,800	1,160	910	1,200	258	155
16	934	730	2,230	880	2,500	2,330	1,570	2,270	821	1,020	355	155
17	786	793	1,700	840	1,900	5,440	3,450	1,930	793	1,390	308	161
18	674	716	1,300	1,100	1,500	7,090	2,770	1,540	842	1,110	266	149
19	612	660	1,100	1,070	1,300	5,300	2,090	1,260	2,270	942	239	158
20	564	674	1,090	974	1,200	4,030	2,410	1,380	3,460	751	220	199
21	530	681	1,070	942	1,100	3,390	3,520	2,470	2,860	2,020	199	287
22	505	654	860	902	1,100	3,700	2,910	2,220	5,700	1,700	182	243
23	495	600	800	878	1,000	4,150	4,020	1,850	8,530	1,150	173	192
24	600	540	780	1,230	1,000	3,200	3,610	1,470	6,870	821	161	176
25	1,700	460	760	1,640	980	2,600	2,830	1,180	6,190	642	155	164
26	1,660	600	926	900	960	2,180	2,320	982	6,030	530	170	155
27	1,290	800	1,010	700	940	1,830	1,910	835	5,530	485	170	164
28	1,050	1,400	1,010	600	940	1,580	1,590	737	4,670	440	192	158
29	863	2,550	926	560	1,100	1,420	1,360	660	3,730	400	224	149
30	751	6,170	1,140	540	-----	1,370	1,190	618	4,160	375	196	149
31	667	-----	2,680	520	-----	1,360	-----	2,980	-----	370	167	-----
TOTAL	30,962	32,350	63,152	35,656	29,630	98,960	56,810	49,252	110,646	40,569	9,122	4,774
MEAN	999	1,078	2,037	1,150	1,022	3,192	1,894	1,589	3,688	1,309	294	159
MAX	4,110	6,170	5,270	2,490	3,000	7,870	4,020	3,090	10,100	4,730	688	287
MIN	336	460	760	520	490	1,310	828	618	793	370	155	125
CFSM	1.41	1.52	2.87	1.62	1.44	4.49	2.66	2.23	5.19	1.84	.41	.22
IN.	1.62	1.69	3.30	1.87	1.55	5.18	2.97	2.58	5.79	2.12	.48	.25

CAL YR 1971 TOTAL 456,603 MEAN 1,251 MAX 8,000 MIN 81 CFSM 1.76 IN 23.89
WTR YR 1972 TOTAL 561,883 MEAN 1,535 MAX 10,100 MIN 125 CFSM 2.16 IN 29.40

PEAK DISCHARGE (BASE, 6,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-30	0630	8.78	6,820	6-1	1230	10.97	11,400
3-3	1430	9.72	8,930	6-23	0530	10.22	9,900
3-18	0030	9.16	7,890				

HUDSON RIVER BASIN

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01372035 HUDSON RIVER AT STAATSBURG, N.Y.

LOCATION.--Lat 41°50'06", long 73°56'34", Dutchess County, on east side of main pier at Norrie Yacht Basin, in Norrie State Park, at mouth of Indian Kill, 1.1 miles southwest of Staatsburg, 3.5 miles north of Hyde Park.

DRAINAGE AREA.--11,629 sq mi.

PERIOD OF RECORD.--July 1972 to September 1972.

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

Summaries of tide elevations during period are as follows:

TIDE ELEVATIONS, IN FEET, PERIOD JULY 1972 TO SEPTEMBER 1972

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	† JUL	AUG	SEP
MAXIMUM	GH/Elev										3.79	3.83	4.36
HIGH TIDE	Date										26	8	20
MINIMUM	GH/Elev										-0.98	-1.48	-1.72
LOW TIDE	Date										26	10	20
MEAN HIGH TIDE											2.80	2.80	2.90
MEAN WATER LEVEL											1.21	1.11	1.23
MEAN LOW TIDE											-0.57	-0.73	-0.55

† For period July 17-31.

HUDSON RIVER BASIN

01372065 CASPER CREEK NEAR WAPPINGERS FALLS, N.Y.

LOCATION.--Lat 41°37'53", long 73°55'40", Dutchess County, on left bank 40 ft downstream from bridge on Camelot Road, 1.6 miles upstream from mouth, and 2.4 miles north of Wappingers Falls.

DRAINAGE AREA.--10.1 sq mi.

PERIOD OF RECORD.--Occasional miscellaneous measurements 1960-62. January 1969 to current year.

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

EXTREMES.--Current year: Maximum discharge, 284 cfs June 10 (gage height, 3.98 ft); minimum, 3.4 cfs Sept. 12, 17, 20, 21, 23, 29. Period of record: Maximum discharge, 946 cfs Aug. 28, 1971 (gage height, 5.79 ft); minimum, 0.9 cfs Sept. 27, 1969 (gage height, 1.80 ft).

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation by lakes and irrigation pumping above station.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1970(M). The figure of peak discharge on Sept. 13, 1971 (2215) 171 cfs (3.58 ft) was omitted from the list of peak discharges for water year 1971 published in WRD N.Y. 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.5	45	19	11	27	16	17	113	37	16	5.5
2	12	13	28	22	12	66	20	17	48	28	9.5	5.2
3	11	13	22	27	14	158	18	22	32	47	9.0	4.9
4	10	12	19	24	28	79	17	61	23	58	8.0	4.6
5	9.9	9.5	17	20	17	42	18	48	33	35	6.7	4.3
6	9.9	9.1	21	14	13	34	16	30	25	30	6.4	4.3
7	11	15	58	15	12	33	23	24	37	24	6.7	4.6
8	9.1	12	60	15	11	35	18	21	23	32	17	4.0
9	8.7	11	40	18	10	32	17	23	30	41	8.0	3.8
10	49	9.5	32	50	9.4	26	15	21	186	29	6.1	3.6
11	56	9.9	29	38	9.2	25	16	17	65	23	5.8	3.6
12	24	9.5	25	33	9.2	52	15	16	40	20	5.5	3.5
13	17	9.1	22	29	15	60	39	15	29	55	6.1	4.6
14	14	7.9	20	32	23	40	35	14	24	44	8.5	5.8
15	12	8.3	22	24	14	33	23	32	20	27	14	4.0
16	11	8.3	22	17	13	37	25	47	19	23	8.0	3.6
17	10	7.9	18	16	12	93	56	32	18	24	7.0	3.5
18	9.5	9.5	16	15	11	128	30	30	16	20	7.0	3.6
19	9.1	9.1	14	15	12	69	25	20	54	18	6.7	5.5
20	8.7	8.7	14	14	13	43	75	39	46	55	6.4	3.5
21	8.3	8.3	14	14	11	35	61	42	34	25	6.4	3.5
22	8.3	8.3	13	14	9.0	36	44	26	48	19	5.5	3.8
23	7.9	7.5	12	14	8.6	40	62	21	58	16	5.2	3.5
24	14	6.9	15	23	8.2	32	62	18	40	15	4.9	3.6
25	18	9.1	16	26	7.8	25	40	16	78	13	5.2	3.6
26	13	11	16	18	8.0	22	31	14	72	12	5.2	3.6
27	12	11	16	15	8.0	22	26	13	49	11	11	5.5
28	9.9	23	15	13	8.2	18	22	12	36	9.5	73	3.6
29	9.1	40	14	12	14	17	21	11	29	9.0	14	3.5
30	8.3	100	18	12	-----	17	18	11	46	8.5	7.5	4.9
31	8.3	-----	27	11	-----	17	-----	36	-----	10	6.1	-----
TOTAL	431.0	426.9	720	629	351.6	1,393	904	766	1,371	818.0	312.4	125.1
MEAN	13.9	14.2	23.2	20.3	12.1	44.9	30.1	24.7	45.7	26.4	10.1	4.17
MAX	56	100	60	50	28	158	75	61	186	58	73	5.8
MIN	7.9	6.9	12	11	7.8	17	15	11	16	8.5	4.9	3.5
CFSM	1.38	1.41	2.30	2.01	1.20	4.45	2.98	2.45	4.52	2.61	1.00	.41
IN.	1.59	1.57	2.65	2.32	1.30	5.13	3.33	2.82	5.05	3.01	1.15	.46

CAL YR 1971 TOTAL 6,234.3 MEAN 17.1 MAX 340 MIN 2.7 CFSM 1.69 IN 22.96
WTR YR 1972 TOTAL 8,248.0 MEAN 22.5 MAX 186 MIN 3.5 CFSM 2.23 IN 30.38

PEAK DISCHARGE (BASE, 120 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-30	0715	3.33	130	6-1	0715	3.63	140
3-3	0930	3.55	191	6-10	0445	3.98	284
3-18	0100	3.42	148	6-25	2000	3.33	120
4-20	2030	3.40	144	8-28	0615	3.57	178

HUDSON RIVER BASIN

99

01372200 WAPPINGER CREEK NEAR CLINTON CORNERS, N.Y.

LOCATION.--Lat 41°48'53", long 73°45'48", Dutchess County, on left bank 15 ft downstream from bridge on County Highway 13, 850 ft downstream from abandoned railroad bridge abutment, 1,900 ft downstream from East Branch Wappinger Creek, and 1 mile south of Clinton Corners.

DRAINAGE AREA.--92.4 sq mi.

PERIOD OF RECORD.--January 1956 to current year. Monthly discharge only for some periods, published in WSP 1722.

GAGE.--Water-stage recorder. Datum of gage is 234.10 ft above mean sea level. Prior to Sept. 9, 1957, nonrecording gage and crest-stage gage at upstream side of bridge, at same datum. Sept. 9, 1957 to Oct. 24, 1968 water-stage recorder at site 15 ft upstream on bridge abutment on right bank at same datum.

AVERAGE DISCHARGE.--16 years, 112 cfs (16.46 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,340 cfs Mar. 18 (gage height, 9.15 ft); minimum, 17 cfs Sept. 12, 18 (gage height, 4.59 ft).

Period of record: Maximum discharge, 2,300 cfs Apr. 2, 1970 (gage height, 11.37 ft), from rating curve extended above 1,200 cfs; minimum, 2.0 cfs Aug. 2, 1965; minimum daily, 2.2 cfs Sept. 17, 1964, July 31, Aug. 1, 1965.

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

REVISIONS.--WSP 1902: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	83	350	162	100	134	185	221	519	357	81	26
2	111	100	270	170	100	600	193	220	360	284	68	24
3	107	111	230	200	100	852	193	230	302	310	66	25
4	100	111	210	190	210	483	175	450	240	504	83	23
5	94	98	190	170	140	290	169	560	234	330	64	21
6	94	90	190	140	120	260	164	450	195	289	55	20
7	104	118	471	150	100	250	175	360	360	242	52	20
8	92	124	654	150	98	260	159	330	253	219	85	18
9	85	109	501	150	92	230	164	330	240	216	62	19
10	247	102	447	408	88	190	177	302	720	185	52	19
11	426	98	411	348	82	180	177	266	459	164	45	18
12	266	94	342	333	82	200	177	234	351	146	43	17
13	203	92	308	308	150	339	237	211	302	182	40	19
14	175	87	271	350	320	271	297	193	260	195	42	23
15	156	85	273	300	180	224	250	276	234	146	73	23
16	139	87	276	210	150	221	245	339	219	127	53	21
17	127	85	220	200	130	735	399	308	216	139	46	20
18	118	81	190	190	110	1,140	297	279	182	115	45	18
19	111	81	170	190	100	735	263	255	268	118	40	22
20	104	85	170	180	98	525	498	260	260	286	36	20
21	102	85	170	180	110	423	615	286	211	149	33	18
22	98	85	160	182	100	450	501	232	263	127	30	19
23	96	83	130	182	94	579	612	201	327	109	29	18
24	109	73	159	221	92	438	540	177	435	107	26	19
25	134	83	180	247	94	357	447	159	600	90	26	19
26	115	85	162	190	94	305	375	144	753	81	27	20
27	102	87	162	150	96	268	327	132	561	77	36	20
28	96	132	159	130	96	240	292	122	438	71	90	19
29	92	177	151	120	102	221	263	113	357	66	46	18
30	87	567	150	110	-----	214	237	109	381	64	36	25
31	83	-----	200	100	-----	201	-----	284	-----	68	29	-----
TOTAL	4,093	3,378	7,927	6,311	3,428	11,815	8,803	8,033	10,500	5,563	1,539	611
MEAN	132	113	256	204	118	381	293	259	350	179	49.6	20.4
MAX	426	567	654	408	320	1,140	615	560	753	504	90	26
MIN	83	73	130	100	82	134	159	109	182	64	26	17
CFSM	1.43	1.22	2.77	2.21	1.28	4.12	3.17	2.80	3.79	1.94	.54	.22
IN.	1.65	1.36	3.19	2.54	1.38	4.76	3.54	3.23	4.23	2.24	.62	.25

CAL YR 1971 TOTAL 58,287.5 MEAN 160 MAX 1,130 MIN 9.0 CFSM 1.73 IN 23.47
WTR YR 1972 TOTAL 72,001.0 MEAN 197 MAX 1,140 MIN 17 CFSM 2.13 IN 28.99

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-18	0145	9.15	1,340	6-25	2130	8.14	989

HUDSON RIVER BASIN

01372300 LITTLE WAPPINGER CREEK AT SALT POINT, N.Y.

LOCATION.--Lat 41°48'20", long 73°47'38", Dutchess County, on right bank 200 ft downstream from abandoned railroad bridge abutment at Salt Point, and 0.6 mile upstream from Wappinger Creek.

DRAINAGE AREA.--32.9 sq mi.

PERIOD OF RECORD.--January 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 235 ft (from topographic map). Prior to June 19, 1958 nonrecording gage and crest-stage gage at site 400 ft upstream at datum 1.73 ft higher.

AVERAGE DISCHARGE.--16 years, 40.2 cfs (16.59 inches per year).

EXTREMES.--Current year: Maximum discharge, 533 cfs Mar. 18 (gage height, 5.48 ft); minimum 1.6 cfs Sept. 9, 12, 13 (gage height, 2.30 ft).

Period of record: Maximum discharge, 838 cfs Apr. 3, 1970 (gage height, 6.46 ft); minimum discharge, 0.04 cfs Sept. 13, 14, 16, 1964.

REMARKS.--Records fair. Occasional regulation by small ponds above station.

REVISIONS.--WSP 1902: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	28	160	62	30	38	62	69	259	91	6.9	2.5
2	43	37	110	66	29	129	62	66	289	75	6.9	2.5
3	39	45	98	80	30	315	68	78	189	68	6.6	2.3
4	36	43	86	78	50	201	63	150	145	79	7.2	2.3
5	33	36	78	66	40	110	61	197	127	74	6.6	2.2
6	34	33	78	52	32	94	57	151	105	65	5.7	1.9
7	42	43	141	54	27	88	60	124	163	56	5.4	1.9
8	35	43	233	54	24	96	56	108	132	49	6.9	1.7
9	31	40	211	54	22	82	57	118	108	42	6.3	1.9
10	81	39	186	112	21	66	63	114	189	38	5.7	2.0
11	176	37	182	115	19	60	65	94	154	34	4.8	1.7
12	144	35	159	118	19	70	65	80	115	30	4.5	1.6
13	97	34	138	115	30	112	83	72	97	38	4.2	1.7
14	78	33	118	130	70	103	120	66	84	43	3.8	2.0
15	68	31	112	100	54	79	105	81	74	36	6.9	2.0
16	59	32	114	80	42	75	99	118	69	29	7.2	2.3
17	51	30	90	72	35	221	144	142	68	25	6.0	2.0
18	46	29	80	68	31	490	126	124	57	22	5.1	1.9
19	42	28	70	68	27	318	106	103	68	20	4.5	1.9
20	39	29	64	64	30	199	165	112	61	25	4.0	2.2
21	36	29	66	62	40	156	269	132	56	36	3.6	1.9
22	34	30	63	61	29	171	201	108	67	25	3.4	1.7
23	32	28	52	61	27	245	227	88	88	19	3.3	1.7
24	41	25	57	71	25	186	191	78	97	15	3.1	1.6
25	60	27	62	81	25	142	157	68	126	12	3.1	1.7
26	51	30	58	69	24	118	130	59	157	10	2.9	1.7
27	42	32	57	51	26	103	112	52	135	9.5	3.1	1.7
28	37	49	56	44	25	88	96	47	106	8.4	3.1	1.6
29	33	72	52	39	28	78	85	39	85	7.8	2.9	1.3
30	30	191	54	35	-----	74	77	37	94	6.9	2.9	1.6
31	29	-----	70	31	-----	68	-----	87	-----	6.3	2.7	-----
TOTAL	1,647	1,218	3,155	2,213	911	4,375	3,232	2,962	3,564	1,094.9	149.3	57.0
MEAN	53.1	40.6	102	71.4	31.4	141	108	95.5	119	35.3	4.82	1.90
MAX	176	191	233	130	70	490	269	197	289	91	7.2	2.5
MIN	29	25	52	31	19	38	56	37	56	6.3	2.7	1.3
CFSM	1.61	1.23	3.10	2.17	.95	4.29	3.28	2.90	3.62	1.07	.15	.06
IN.	1.86	1.38	3.57	2.50	1.03	4.95	3.65	3.35	4.03	1.24	.17	.06

PEAK DISCHARGE (BASE, 260 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	0945	4.76	360	4-21	0745	4.54	295
3-18	1100	5.48	533	6-2	0030	5.05	380

01372500 WAPPINGER CREEK NEAR WAPPINGERS FALLS, N.Y.

LOCATION.--Lat 41°39'11", long 73°52'23", Dutchess County, on left bank 700 ft downstream from Red Oak Mill dam and 4.5 miles northeast of village of Wappingers Falls.

DRAINAGE AREA.--181 sq mi.

PERIOD OF RECORD.--May 1903 to June 1905 (gage heights only during some winter months), August 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 114.37 ft above mean sea level (levels by Corps of Engineers). May 1903 to June 1905 staff gage at site 2.5 miles downstream at different datum. Aug. 7, 1928 to Sept. 25, 1931, water-stage recorder at site 2 miles downstream at different datum.

AVERAGE DISCHARGE.--44 years (1928-73), 240 cfs (18.01 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,930 cfs Mar. 3 (gage height, 6.46 ft); minimum, 24 cfs Sept. 26, 29 (gage height, 2.63 ft).

Period of record: Maximum discharge, 18,600 cfs Aug. 19, 1955 (gage height, 19.60 ft, from floodmarks in gage shelter), from rating curve extended above 3,800 cfs 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 cfs Sept. 20, 21, 1964 (gage height, 2.05 ft).

REMARKS.--Records good except those for winter periods, which are fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 741: 1932. WSP 1902: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	148	860	330	170	231	385	469	1,210	806	131	52
2	244	163	660	330	170	729	380	452	1,160	631	118	48
3	227	209	540	360	170	1,810	415	463	911	591	106	46
4	209	212	450	340	300	1,240	367	995	715	876	120	43
5	193	185	400	300	230	700	358	1,250	736	673	107	39
6	182	163	390	250	200	580	344	1,000	584	591	92	36
7	209	187	806	260	180	560	371	820	771	485	85	35
8	182	241	1,310	270	170	640	340	687	687	436	126	35
9	165	205	1,170	280	160	610	335	680	617	415	113	33
10	307	187	1,020	680	140	500	362	680	1,400	362	92	32
11	981	179	946	743	130	450	358	584	1,190	319	80	30
12	729	168	820	708	130	620	371	503	883	280	75	29
13	521	160	715	638	150	760	425	441	722	327	70	31
14	410	153	604	740	500	600	694	395	610	447	66	35
15	353	146	578	560	350	500	578	539	533	323	100	37
16	311	148	597	410	250	1,000	539	659	474	265	96	35
17	277	146	500	380	210	1,600	848	715	474	273	80	33
18	244	139	400	370	180	2,400	729	638	395	234	75	31
19	224	137	360	360	190	1,600	610	558	565	209	72	32
20	209	143	340	340	170	1,200	806	558	687	552	64	33
21	193	141	358	320	190	940	1,400	701	515	367	58	30
22	185	155	310	319	170	1,100	1,120	565	584	291	52	28
23	176	143	270	307	160	1,300	1,300	469	729	234	50	27
24	190	128	280	380	150	1,000	1,210	405	855	205	46	27
25	291	139	349	436	150	800	1,060	353	1,020	176	45	26
26	255	146	307	350	160	700	897	311	1,550	153	46	27
27	218	153	311	260	160	600	771	284	1,240	139	65	29
28	190	221	299	230	160	497	666	255	988	128	151	27
29	173	340	280	210	173	463	591	231	806	120	96	27
30	163	1,080	270	200	-----	441	521	212	771	111	72	29
31	153	-----	380	180	-----	415	-----	415	-----	107	60	-----
TOTAL	8,637	6,065	16,880	11,841	5,623	26,586	19,151	17,287	24,382	11,126	2,609	1,002
MEAN	279	202	545	382	194	858	638	558	813	359	84.2	33.4
MAX	981	1,080	1,310	743	500	2,400	1,400	1,250	1,550	876	151	52
MIN	153	128	270	180	130	231	335	212	395	107	45	26
CFSM	1.54	1.12	3.01	2.11	1.07	4.74	3.52	3.08	4.49	1.98	.47	.18
IN.	1.78	1.25	3.47	2.43	1.16	5.46	3.94	3.55	5.01	2.29	.54	.21
CAL YR 1971	TOTAL 128,466	MEAN 352	MAX 2,140	MIN 16	CFSM 1.94	IN 26.40						
WTR YR 1972	TOTAL 151,189	MEAN 413	MAX 2,400	MIN 26	CFSM 2.28	IN 31.07						

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	1130	6.46	1,930	6-10	1730	6.11	1,670
3-18	time and	discharge	unknown	6-24	0545	6.16	1,700
4-21	0515	5.98	1,580				

HUDSON RIVER BASIN

01372800 FISHKILL CREEK AT HOPEWELL JUNCTION, N.Y.

LOCATION.--Lat 41°34'22", long 73°48'25", Dutchess County, on right bank 400 ft upstream from bridge on State Highway 376, 500 ft upstream from small tributary, 0.6 mile south of State Highway 82, at Hopewell Junction.

DRAINAGE AREA.--57.3 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1956-57. October 1957 to current year (prior to March 1963, no winter records).

GAGE.--Water-stage recorder. Datum of gage is 229.53 ft above mean sea level. Prior to October 1963 water-stage recorder at site 400 ft downstream at datum 0.17 ft lower.

AVERAGE DISCHARGE.--9 years (1963-72), 78.2 cfs (18.53 inches per year).

EXTREMES.--Current year: Maximum discharge, 915 cfs Mar. 18 (gage height, 6.31 ft); minimum, 5.5 cfs Sept. 17 (gage height, 1.04 ft).
Period of record: Maximum discharge, 1,490 cfs Mar. 13, 1962 (gage height, 7.42 ft, site and datum then in use); minimum, 0.92 cfs Sept. 2, 3, 1966 (gage height, 0.75 ft).

REMARKS.--Records poor. Occasional regulation during low flow from unknown source. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1902: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	48	320	100	66	119	137	133	244	300	35	14
2	70	56	180	110	66	380	142	121	159	225	31	13
3	67	80	150	120	66	714	130	142	124	216	29	12
4	63	76	130	110	120	500	126	310	101	340	32	11
5	59	63	130	100	100	250	128	400	125	291	30	10
6	55	54	131	100	84	210	104	300	106	240	27	10
7	53	52	341	100	76	180	99	240	111	200	24	9.6
8	50	70	440	100	70	200	126	220	99	170	34	9.4
9	47	45	345	100	66	170	141	210	88	150	28	9.0
10	95	55	273	195	64	150	117	200	315	140	25	8.8
11	298	54	246	207	62	140	150	180	274	130	23	8.6
12	168	51	214	183	58	150	208	160	163	110	21	8.4
13	111	50	194	162	70	281	274	150	136	130	19	8.4
14	90	47	169	195	230	217	304	140	121	140	18	13
15	81	47	171	130	140	180	309	227	109	120	26	13
16	75	48	177	94	110	175	223	205	99	110	25	9.7
17	71	46	150	96	94	418	182	179	102	100	22	8.1
18	62	45	130	98	86	836	162	170	90	90	20	8.1
19	57	44	120	100	92	590	148	150	142	87	19	17
20	54	47	117	100	100	391	139	160	225	127	18	16
21	53	46	118	100	92	318	138	216	160	121	16	14
22	51	49	100	104	84	325	212	165	279	89	14	13
23	52	47	88	106	80	457	383	138	375	70	13	12
24	52	42	92	129	76	338	295	121	419	60	13	12
25	53	47	116	145	74	271	210	108	475	52	12	12
26	69	53	105	110	76	232	182	95	833	45	13	12
27	59	57	106	90	76	205	170	87	655	40	25	12
28	54	88	99	82	76	180	195	80	463	35	40	12
29	50	115	95	78	86	163	173	73	347	32	25	12
30	47	471	98	74	-----	155	149	68	312	31	20	12
31	46	-----	130	64	-----	148	-----	94	-----	30	16	-----
TOTAL	2,286	2,093	5,275	3,582	2,540	9,043	5,456	5,242	7,251	4,021	713	340.1
MEAN	73.7	69.8	170	116	87.6	292	182	169	242	130	23.0	11.3
MAX	298	471	440	207	230	836	383	400	833	340	40	17
MIN	46	42	88	64	58	119	99	68	88	30	12	8.1
CFSM	1.29	1.22	2.97	2.02	1.53	5.10	3.18	2.95	4.22	2.27	.40	.20
IN.	1.48	1.36	3.42	2.33	1.65	5.87	3.54	3.40	4.71	2.61	.46	.22

CAL YR 1971 TOTAL 40,556.4 MEAN 111 MAX 1,020 MIN 9.4 CFSM 1.94 IN 26.33
WTR YR 1972 TOTAL 47,842.1 MEAN 131 MAX 836 MIN 8.1 CFSM 2.29 IN 31.06

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-30	1030	5.17	555	3-23	0545	5.02	490
12-8	0915	4.75	469	4-23	1415	4.58	401
2-14	0415	4.83	494	6-10	1500	4.58	401
3-3	2030	6.08	843	6-26	0345	6.30	910
3-18	1500	6.31	915				

NOTE.--No gage-height record July 6 to Sept. 11.

HUDSON RIVER BASIN

103

01375000 CROTON RIVER AT NEW CROTON DAM, NEAR CROTON-ON-HUDSON, N.Y.

LOCATION.--Lat 41°13'32", long 73°51'32", Westchester County, on left bank 1,000 ft downstream from New Croton Dam and 1.8 miles north-east of Croton-on-Hudson.

DRAINAGE AREA.--378 sq mi.

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 due to well pumpage upstream. Fragmentary records published during August 1933 to September 1941 at "Cornell Dam near Croton" and "at New Croton Dam 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. Altitude of gage is 50 ft (from topographic map). Prior to Oct. 1, 1941 supplementary water-stage recorder and concrete control at site 1.1 miles downstream at Quaker Bridge.

EXTREMES.--Current year: Maximum discharge, 5,800 cfs June 19 (gage height, 7.74 ft); minimum, 0.93 cfs Sept. 29 (gage height, 0.36 ft).
Period of record: Maximum discharge, 45,400 cfs Oct. 16, 1955 (gage height, 18.44 ft, from floodmarks), from rating curve extended above 9,700 cfs on basis of slope-area measurements of peak flow; minimum daily, 0.1 cfs Mar. 14, 1965.

REMARKS.--Records good, except discharges below 10 cfs and during winter periods, which are fair. 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.

REVISIONS (WATER YEARS).--WRD N.Y. 1969: 1968(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	255	980	497	114	338	680	490	1,180	2,340	164	2.1
2	93	434	748	455	99	703	665	511	1,060	1,740	184	1.6
3	80	497	598	620	160	2,270	658	539	1,020	1,500	152	2.2
4	34	420	539	590	583	2,330	628	1,010	898	1,790	176	1.2
5	7.3	308	441	658	575	1,910	613	988	958	1,280	93	1.2
6	3.7	245	448	583	378	1,580	583	800	988	1,050	46	1.2
7	2.0	296	1,220	455	320	1,240	546	733	740	868	76	1.2
8	1.1	338	1,340	406	240	1,320	476	793	511	748	236	1.2
9	1.0	260	1,080	350	196	1,240	392	928	406	673	180	1.2
10	245	220	973	483	172	973	338	995	525	553	111	1.2
11	1,130	200	913	583	148	838	332	800	483	476	93	1.2
12	838	184	808	598	132	958	320	673	399	420	84	1.2
13	575	180	710	575	314	1,190	427	560	364	958	84	1.2
14	448	156	643	688	1,170	1,240	688	497	338	1,430	80	1.2
15	385	156	643	605	935	1,170	590	1,160	308	883	176	1.1
16	314	196	628	455	770	1,050	560	1,180	338	643	114	1.1
17	260	168	553	308	643	2,010	703	950	1,420	665	111	1.1
18	200	136	462	255	532	3,400	628	823	1,170	560	108	1.1
19	152	124	378	232	643	2,810	525	748	3,880	399	114	1.2
20	111	120	338	228	560	2,320	785	860	4,260	326	102	1.1
21	86	108	332	228	378	1,900	1,180	1,030	2,720	285	74	1.1
22	78	99	314	224	320	1,840	1,020	875	3,880	270	23	1.0
23	74	96	245	232	270	2,230	1,420	868	4,280	196	11	1.0
24	180	99	236	270	296	1,890	1,360	905	3,960	160	7.0	1.0
25	156	196	320	296	275	1,600	1,220	770	4,260	120	2.2	.96
26	196	204	296	302	285	1,350	988	504	4,480	78	1.3	.96
27	176	184	320	236	270	1,140	808	326	3,320	80	1.4	.96
28	156	265	302	220	245	1,000	695	270	2,660	86	1.3	1.0
29	140	420	270	200	250	868	613	240	2,060	96	1.6	.96
30	105	1,140	350	168	-----	800	539	228	2,090	93	1.3	1.0
31	96	-----	635	140	-----	748	-----	385	-----	117	1.3	-----
TOTAL	6,467.1	7,704	18,063	12,140	11,273	46,256	20,980	22,439	54,956	20,883	2,609.4	35.74
MEAN	209	257	583	392	389	1,492	699	724	1,832	674	84.2	1.19
MAX	1,130	1,140	1,340	688	1,170	3,400	1,420	1,180	4,480	2,340	236	2.2
MIN	1.0	96	236	140	99	338	320	228	308	78	1.3	.96

CAL YR 1971 TOTAL 143,666.42 MEAN 394 MAX 3,580 MIN .50
WTR YR 1972 TOTAL 223,806.24 MEAN 611 MAX 4,480 MIN .96

HUDSON RIVER BASIN

01376500 SAW MILL RIVER AT YONKERS, N.Y.

LOCATION.--Lat 40°56'11", long 73°53'12", Westchester County, on left bank in Yonkers, just upstream from Old Croton aqueduct, near intersection of Nepperhan Avenue and Center Street, 1.2 miles upstream from mouth.

DRAINAGE AREA.--25.6 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 90.99 ft above mean sea level.

AVERAGE DISCHARGE.--28 years (1944-72) 29.7 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge observed, 636 cfs June 20 (gage height, 5.55 ft); minimum daily, 4.9 cfs Sept. 17.

Period of record: Maximum discharge, 690 cfs Oct. 16, 1955; maximum gage height, 5.55 ft June 20, 1972; minimum, 0.05 cfs Dec. 27, 1946 (gage height, 0.37 ft); minimum daily, 0.2 cfs Jan. 1, 1944, Sept. 5, Oct. 19, 1945.

REMARKS.--Records poor. Flow affected by diversion by city of Yonkers, village of Tarrytown, and several industries for water supply and industrial purposes. Diurnal fluctuations caused by water supply and industrial operations.

COOPERATION.--Figures for diversion and return in upstream water supply furnished by city of Yonkers and village of Tarrytown.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1965, 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	147	38	20	6.8	86	46	46	188	243	31	12
2	16	150	31	50	6.8	112	45	62	82	103	28	10
3	15	50	35	26	38	165	49	74	64	78	28	18
4	14	39	26	40	141	153	51	168	62	75	37	8.0
5	14	28	24	30	30	105	53	70	68	67	27	10
6	13	26	81	22	18	91	43	52	41	65	24	14
7	12	60	81	21	14	75	41	45	39	61	23	9.3
8	11	34	49	19	11	94	36	51	37	56	69	9.8
9	11	28	40	39	10	83	32	89	32	52	39	8.8
10	200	28	37	31	10	55	32	101	44	48	28	6.1
11	140	21	32	29	11	56	32	58	32	48	25	8.4
12	80	23	27	28	16	97	30	49	26	47	24	9.8
13	50	23	29	46	81	154	53	44	28	140	21	12
14	40	25	27	28	165	97	59	39	26	183	21	16
15	30	41	35	18	47	99	37	204	25	60	61	11
16	24	35	31	15	36	94	40	90	70	48	33	6.4
17	20	24	27	15	30	195	83	59	198	99	24	4.9
18	18	24	24	16	29	263	41	50	75	59	22	9.8
19	16	17	20	18	57	143	31	49	393	46	17	54
20	12	16	19	20	57	108	68	150	496	41	14	11
21	12	16	20	19	37	95	108	134	177	44	18	8.0
22	12	15	18	18	26	101	66	72	282	41	20	7.6
23	12	14	16	18	23	123	114	59	397	35	20	6.4
24	80	24	22	16	25	89	68	52	279	32	16	5.8
25	70	50	18	14	29	75	56	49	253	32	15	6.4
26	45	24	19	12	37	67	51	44	259	31	15	7.6
27	19	38	17	9.8	35	62	52	39	145	30	17	8.4
28	18	27	16	11	37	58	49	37	107	29	30	8.8
29	17	151	16	9.3	58	55	44	34	87	28	15	9.3
30	16	70	46	9.3	-----	53	40	36	138	27	13	17
31	15	-----	23	8.0	-----	50	-----	67	-----	28	12	-----
TOTAL	1,068	1,268	944	675.4	1,121.6	3,153	1,550	2,173	4,150	1,976	787	334.6
MEAN	34.5	42.3	30.5	21.8	38.7	102	51.7	70.1	138	63.7	25.4	11.2
MAX	200	151	81	50	165	263	114	204	496	243	69	54
MIN	11	14	16	8.0	6.8	50	30	34	25	27	12	4.9
f	13.8	11.8	13.6	12.4	11.4	5.68	3.32	3.15	5.29	5.67	2.77	5.72

CAL YR 1971 TOTAL 12,071.6 MEAN 33.1 MAX 411 MIN 3.2 f 10.0

WTR YR 1972 TOTAL 19,200.6 MEAN 52.5 MAX 496 MIN 4.9 f 7.86

f Indicated net diversions, in cubic feet per second, for diversion and return in upstream supply.

NOTE.--No gage-height record October 1 to November 22.

Reservoirs in Hudson River basin

- 01335900 Delta Reservoir.--Lat 43°16'20", long 75°25'50", Oneida County, on superstructure of gatehouse at Delta Dam on Mohawk River 4 miles upstream from Rome. Drainage area 145 sq mi. Period of record, May 1913 to current year. Nonrecording gage read daily at 0800. Datum of gage is at mean sea level, Barge Canal datum. Extremes for current year: Maximum contents observed, 3,136,000,000 cu ft June 22 (elevation, 552.8 ft); minimum contents observed, 780,000,000 cu ft; Mar. 28 (elevation, 526.6 ft). 1951-1972: maximum contents observed, 3,136,000,000 cu ft June 22, 1972 (elevation, 552.8 ft); minimum contents observed, 2,000,000 cu ft Jan. 10, 13, 16-21, Feb. 7-15, Feb. 22 to Mar. 2, 1959 (elevation, 492.0 ft).
Dam completed Aug. 3, 1912 and controlled storage for which records are available began May 1, 1913. Usable capacity 2,800,000,000 cu ft at crest of spillway (elevation 550.0 ft). Reservoir is used for navigation in Barge Canal. Records furnished by New York State Department of Transportation.
- 01343900 Hinckley Reservoir.--Lat 43°18'45", long 75°06'25", Oneida County, on south side of north gatehouse at Hinckley Dam on West Canada Creek at Hinckley, 2.2 miles east of Prospect. Drainage area 374 sq mi. Period of record, March 1914 to current year. Nonrecording gage read once daily at 0800. Datum of gage is at mean sea level, Barge Canal datum. Extremes for current year: Maximum contents observed, 3,818,000,000 cu ft May 4 (elevation, 1,228.7 ft); minimum observed, 324,000,000 cu ft Apr. 14 (elevation, 1,185.5 ft). Extremes for period of record: Maximum contents observed, 4,041,000,000 cu ft Oct. 2, 1945 (elevation 1,230.2 ft); minimum observed (after initial filling), not determined.
Reservoir is formed by earth and concrete dam; storage began March 1914. Usable capacity 3,320,000,000 cu ft between elevation 1,173.5 and 1,225.0 ft. Elevation of invert 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 sq mi. Records furnished by New York State Department of Transportation.
- 01350100 Schoharie Reservoir.--Lat 42°23'29", long 74°27'05", Schoharie County, at Gilboa Dam on Schoharie Creek, at Gilboa, N.Y. Drainage area 314 sq mi. Period of record, September 1928 to current year. Nonrecording gage read daily at 0900. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: Maximum contents observed, 20,301 mil gal June 23 (elevation, 1,131.85 ft); minimum observed, 2,710 mil gal Oct. 1 (elevation, 1,069.20 ft). Extremes for period of record: Maximum contents observed, 23,566 mil gal Oct. 16, 1955 (elevation, 1,135.17 ft); minimum observed (after initial filling), 1,520 mil gal Aug. 20, 1970 (elevation 1,062.00 ft).
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 ft, 1,968 mil gal. Figures given herein represent total contents. Except for periods of spilling, reservoir impounds water for diversion through Shandaken Tunnel into Esopus Creek to Ashokan Reservoir, for New York City water supply. Records furnished by City of New York, Department of Water Resources.
- 01363400 Ashokan Reservoir.--Lat 41°57'01", long 74°12'30", Ulster County, at gatehouse located at Dividing Weir Dyke and 1.6 miles south of Shokan, N. Y. Drainage area, 256 sq mi. Period of record, September 1913 to current year. Nonrecording gage read daily at 0900. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: Maximum contents observed, in (01363398) West basin, 51,366 mil gal June 23 (elevation, 591.84 ft), in (01363399) East basin, 83,194 mil gal June 23 (elevation, 588.60 ft); minimum observed, in West basin, 39,939 mil gal Sept. 30 (elevation, 580.15 ft), in East basin, 63,272 mil gal Sept. 3 (elevation, 576.23 ft). 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).
The reservoir is formed by the masonry Olive Bridge Dam across Esopus Creek and a series of earth embankments between hills. The reservoir is divided into two basins separated by a weir containing a gatehouse. The storage began Sept. 9, 1913. Usable capacity of West basin 47,180 mil gal between minimum operations 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 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 furnished by the City of New York, Department of Water Resources.
- REVISIONS (WATER YEARS).--WRD N.Y. 1970: Drainage area. WRD N.Y. 1972: 1968.
- 01366400 Rondout Reservoir.--Lat 41°47'57", long 74°25'48", Ulster County, at release chamber at Merriman Dam on Rondout Creek, 1.1 miles upstream from Brandy Brook and 1.3 miles northwest of Lackawack. Drainage area 94.4 sq mi. Period of record, May 1951 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: Maximum contents observed, 53,355 mil gal June 23 (elevation 841.34 ft); minimum observed, 42,566 mil gal Feb. 22 (elevation 824.80 ft). 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).
Reservoir is formed by an earth-fill rock faced 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 furnished by City of New York, Department of Water Resources.

HUDSON RIVER BASIN

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	Elevation (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (gallons)	Change in contents (equivalent in cfs)
	01335900 Delta Reservoir †			01343900 Hinckley Reservoir †			01350100 Schoharie Reservoir †		
Sept.	546.7	2,427		1,224.6	3,272		1,069.20	2,710	
Oct.	543.9	2,130	-111	1,211.7	1,970	-486	1,071.27	3,105	+ 19.7
Nov.	544.8	2,220	+ 34.7	1,203.8	1,354	-238	1,073.95	3,645	+ 27.8
Dec.	547.6	2,526	+114	1,213.1	2,093	+276	1,130.23	19,673	+800
CAL YR 1971			+ 14.5			- 3.08			+ 68.9
Jan.	544.2	2,160	-137	1,209.2	1,766	-122	1,129.97	19,573	- 5.00
Feb.	530.8	1,028	-452	1,193.1	682	-433	1,129.80	19,512	- 3.26
Mar.	528.5	890	- 51.5	1,186.8	377	-114	1,130.32	19,708	+ 9.77
Apr.	550.6	2,872	+765	1,216.0	2,350	+761	1,130.42	19,746	+ 1.96
May	550.3	2,836	- 13.5	1,225.9	3,437	+406	1,130.55	19,796	+ 2.50
June	550.9	2,908	+ 27.8	1,226.0	3,450	+ 5.00	1,131.48	20,158	+ 18.7
July	549.8	2,776	-49.3	1,224.1	3,212	- 88.9	1,118.90	15,745	-220
Aug.	547.1	2,471	-114	1,217.4	2,490	-270	1,110.75	13,194	-127
Sept.	543.3	2,070	-155	1,209.0	1,750	-286	1,102.94	10,912	-118
WTR YR 1972			- 11.3			- 48.1			+ 34.7
	Elevation (feet)	Contents (gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (gallons)	Change in contents (equivalent in cfs)
	01363398 Ashokan Reservoir † West Basin			01363399 Ashokan Reservoir † East Basin			01366400 Rondout Reservoir †		
Sept.	586.06	45,494		582.93	73,814		832.46	47,415	
Oct.	582.85	42,444	-152	581.09	70,844	-148	835.20	49,210	+ 89.6
Nov.	582.20	41,841	- 31.1	581.27	71,135	+ 15.0	832.35	47,343	- 96.2
Dec.	590.33	49,767	+396	587.12	80,712	+478	835.12	49,157	+ 90.5
CAL YR 1971			+ 68.0			+ 98.7			+ 5.5
Jan.	590.27	49,704	- 3.14	586.51	79,688	- 51.1	831.82	47,000	-108
Feb.	590.32	49,757	+ 2.83	586.30	79,336	- 18.8	826.37	43,539	-185
Mar.	590.35	49,789	+ 1.60	587.10	80,673	+ 66.7	837.98	51,065	+376
Apr.	590.41	49,852	+ 3.25	587.42	81,215	+ 28.0	836.64	50,167	- 46.3
May	590.67	50,127	+ 13.7	587.50	81,349	+ 6.7	839.56	52,136	+ 98.2
June	591.14	50,625	+ 25.7	587.98	82,171	+ 42.4	839.91	52,374	+ 12.2
July	590.35	49,789	- 41.7	585.33	77,709	-223	838.21	51,220	- 57.5
Aug.	587.85	47,277	-125	580.62	70,086	-380	834.70	48,881	-117
Sept.	580.15	39,939	-378	576.23	63,272	-351	830.87	46,387	-129
WTR YR 1972			- 23.5			- 44.6			- 4.3

† Elevation at 2400 by interpolation.

‡ Elevation at 0900 on first day of following month.

NOTE.--All figures of total contents expressed in millions.

HUDSON RIVER BASIN

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Reservoirs in Hudson River basin--Continued

Diversions in Hudson River basin

Undetermined diversion at Solsville from Chenango River in Susquehanna River basin into Oriskany Creek in Mohawk River basin through Oriskany Creek Feeder.

Undetermined diversion from (and occasionally into) Oswego River, tributary to Lake Ontario through Summit level of Erie (Barge) Canal.

04252000 Diversion from Black River tributary into Lake Ontario through Black River canal into Mohawk River in Hudson River basin (see station).

01327500 Diversion from Hudson River basin to Summit level of Champlain (Barge) Canal, (see station).

01343899 Diversion from Hinckley Reservoir, N.Y. (see Reservoirs in Hudson River basin) for municipal supply of Utica. Diversion began prior to 1921. Records furnished by Utica Board of Water Supply.

Diversion from Schoharie Reservoir, N.Y. (see Reservoirs in Hudson River basin) on Schoharie Creek through Shandaken Tunnel to Esopus Creek at, 01362230 Lat 42°06'52", long 74°21'51", near Phoenicia, Ulster County. No diversion prior to 1924. Records furnished by the City of New York, Department of Water Resources.

01359498 Diversion from Watervliet Reservoir for municipal supply of Watervliet (see station 01359519).

01363401 Diversion from Ashokan Reservoir, N.Y. (see Reservoirs in Hudson River Basin) on Esopus Creek through the Catskill Aqueduct for municipal supply of New York City. Completed in 1917. Records furnished by the City of New York, Department of Water Resources.

01366399 Diversion from Rondout Reservoir, N.Y. (see Reservoirs in Hudson River basin) on Rondout Creek to the Delaware Aqueduct for municipal supply of City of New York. Diversion began April 1944 by means of temporary emergency connection to aqueduct. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.

Diversion, in cubic feet per second, water year October 1971 to September 1972								
Month	01343899	Hinckley Reservoir	01362230	Schoharie Reservoir	01363401	Ashokan Reservoir	01366399	Rondout Reservoir
Oct.		35.0		171		775		1,140
Nov.		31.4		271		671		1,120
Dec.		30.0		295		503		1,210
CAL YR 1971		32.8		366		725		1,210
Jan.		29.7		49.2		696		1,060
Feb.		29.9		212		696		1,210
Mar.		29.7		21.2		851		1,010
Apr.		29.4		31.9		661		1,030
May		30.3		6.50		520		1,190
June		31.1		61.1		577		1,130
July		33.6		278		851		1,330
Aug.		30.6		195		897		1,380
Sept.		33.0		126		899		1,370
WTR YR 1972		31.1		143		717		1,180

HACKENSACK RIVER BASIN

01376800 HACKENSACK RIVER AT WEST NYACK, N.Y.

LOCATION.--Lat 41°05'44", long 73°57'52", Rockland County, on right bank 20 ft downstream from Penn Central Transportation Company railroad bridge, 1,000 ft upstream from State Highway 59, 1.0 mile downstream from DeForest Lake, at West Nyack.

DRAINAGE AREA.--29.4 sq mi.

PERIOD OF RECORD.--December 1958 to current year.

GAGE.--Water-stage recorder and stop-log control. Datum of gage is 53.50 ft above mean sea level (levels by Hackensack Water Co.).

EXTREMES.--Current year: Maximum discharge, 752 cfs June 19 (gage height, 8.11 ft); minimum, 10 cfs Oct. 22, 23 (gage height, 2.66 ft).

Period of record: Maximum discharge, 863 cfs Apr. 2, 1970 (gage height, 7.51 ft); minimum daily, 2.6 cfs June 12, 1965, Sept. 25, 26, 30, 1966; minimum gage height, 1.70 ft Oct. 22, 1960.

REMARKS.--Records poor. Flow regulated by DeForest Lake (see Hackensack River basin, Reservoirs in). Diversion from gaging station pool for municipal supply for village of Nyack (see Hackensack River basin, Reservoirs in). Discharge given for this station represents the flow of Hackensack River downstream from this diversion.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	35	179	54	20	78	50	41	250	428	32	23
2	14	80	113	61	20	137	51	52	167	216	28	22
3	16	98	48	81	26	288	51	63	105	165	22	22
4	15	79	26	74	114	275	51	129	40	374	27	22
5	13	53	26	86	95	182	53	119	42	250	25	23
6	14	34	33	67	69	140	50	87	41	128	24	21
7	17	37	82	55	58	111	58	73	42	86	38	21
8	15	32	101	47	43	109	53	69	33	76	32	22
9	18	25	84	43	35	84	32	115	28	83	26	22
10	54	24	71	55	31	53	27	144	37	76	24	21
11	79	24	65	63	28	54	29	106	28	64	24	20
12	63	20	56	62	26	92	28	86	21	52	23	20
13	45	22	49	58	69	141	45	68	19	252	24	22
14	34	20	44	68	132	146	72	58	19	424	24	22
15	28	26	52	57	104	176	60	224	17	141	35	21
16	23	32	50	50	81	161	61	212	31	113	25	20
17	20	26	46	40	66	225	100	153	117	108	22	20
18	17	19	44	35	56	368	79	117	105	82	20	20
19	15	19	35	34	78	169	65	93	555	56	23	25
20	16	19	33	32	77	113	118	146	515	42	22	20
21	15	18	33	34	57	91	171	183	170	29	22	22
22	14	20	34	33	49	98	138	140	303	35	22	20
23	13	19	28	34	40	125	161	107	456	34	22	20
24	23	19	29	35	43	111	136	83	336	30	22	20
25	41	43	34	37	40	60	114	80	317	25	23	20
26	33	21	33	35	44	62	94	46	430	23	24	20
27	25	27	34	31	44	59	75	33	205	20	26	20
28	22	45	35	29	43	60	60	29	136	38	23	19
29	20	60	31	28	53	53	53	25	111	33	22	20
30	16	170	42	28	-----	51	46	26	189	32	23	22
31	15	-----	72	23	-----	56	-----	86	-----	33	22	-----
TOTAL	768	1,166	1,642	1,469	1,641	3,928	2,181	2,993	4,865	3,548	771	632
MEAN	24.8	38.9	53.0	47.4	56.6	127	72.7	96.5	162	114	24.9	21.1
MAX	79	170	179	86	132	368	171	224	555	428	38	25
MIN	13	18	26	23	20	51	27	25	17	20	20	19
CAL YR 1971	TOTAL 12,822	MEAN 35.1	MAX 533	MIN 11								
WTR YR 1972	TOTAL 25,604	MEAN 70.0	MAX 555	MIN 13								

HACKENSACK RIVER BASIN

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01377000 Hackensack River at Rivervale, N. J.

LOCATION.--Lat 40°59'55", long 73°59'27", Bergen County, on right bank at Westwood Avenue in Rivervale, 1.5 miles upstream from Pascack Brook, 4.6 miles upstream from Oradell Dam, and 27.2 miles upstream from mouth.

DRAINAGE AREA.--58.0 sq mi.

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 22.51 ft above mean sea level.

AVERAGE DISCHARGE.--31 years, 89.2 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 1,480 cfs June 19 (gage height, 6.18 ft); minimum, 27 cfs Jan. 29, Sept. 23-25 (gage height, 1.66 ft).

Period of record: Maximum discharge, 1,500 cfs May 29, 1968 (gage height, 6.23 ft); no flow for part of Jan. 16, 1970 due to upstream regulation.

REMARKS.--Records excellent. Flow regulated by Lake De Forest and Lake Tappan (see Hackensack River, Reservoirs in). Diversions at Lake De Forest and West Nyack, N.Y., for municipal water supply (see Diversions, Hackensack River basin). Water-quality records for the current year are published in Part 2 of New Jersey Report.

COOPERATION.--Gage-height record collected in cooperation with Hackensack Water Co.

DISCHARGE, IN CUHIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	83	206	82	38	178	74	79	446	458	60	168
2	51	207	179	124	38	239	91	156	306	466	53	168
3	52	166	120	135	55	524	79	150	232	273	41	168
4	50	132	68	114	225	379	96	283	129	354	44	165
5	50	101	54	141	123	280	84	205	126	406	40	162
6	50	69	59	107	97	196	81	144	74	306	37	162
7	50	77	182	86	88	158	89	121	81	177	53	159
8	60	65	174	71	67	169	74	121	61	153	104	159
9	98	51	138	67	56	133	57	186	55	135	52	156
10	137	47	105	108	51	91	49	259	67	115	38	153
11	105	44	106	107	46	86	55	186	49	101	35	147
12	55	40	93	105	46	209	49	138	40	94	35	112
13	81	40	85	95	226	212	121	101	40	470	37	112
14	74	41	76	106	215	213	144	89	40	795	35	112
15	60	45	91	86	154	213	109	514	40	466	94	109
16	56	73	83	69	119	229	109	358	53	219	57	106
17	50	57	76	55	103	351	209	273	263	320	38	106
18	37	49	71	51	91	570	129	192	189	171	50	104
19	35	40	50	52	133	422	101	159	959	123	89	109
20	36	41	59	52	104	222	215	317	1,030	84	86	30
21	34	39	58	56	84	153	296	362	626	84	86	28
22	33	38	52	53	76	186	256	256	522	79	123	28
23	36	34	41	53	72	229	303	162	738	57	156	28
24	61	34	50	59	80	183	236	132	762	53	180	27
25	97	100	60	62	69	132	177	109	642	46	180	55
26	80	69	54	52	88	96	141	89	662	41	180	86
27	58	58	58	44	76	89	109	68	514	38	186	84
28	47	117	54	51	87	84	86	47	296	38	192	84
29	39	116	48	45	131	81	79	50	195	38	177	89
30	42	283	94	43	-----	84	68	52	330	38	174	109
31	38	-----	117	39	-----	84	-----	147	-----	50	171	-----
TOTAL	1,802	2,356	2,761	2,370	2,838	6,475	3,766	5,505	9,567	6,248	2,883	3,285
MEAN	58.1	78.5	89.1	76.5	97.9	209	126	178	319	202	93.0	110
MAX	137	283	206	141	226	570	303	514	1,030	795	192	168
MIN	33	34	41	39	38	81	49	47	40	38	35	27
CAL YR 1971	TOTAL 24,584		MEAN 67.4	MAX 630	MIN 14							
WTR YR 1972	TOTAL 49,856		MEAN 136	MAX 1,030	MIN 27							

HACKENSACK RIVER BASIN

Reservoirs in Hackensack River basin

01376700 LAKE DE FOREST.--Lat 41°06', long 74°57', Rockland County, N.Y., (formerly published as "De Forest Lake") at dam on Hackensack River, 0.85 mile north of West Nyack, N.Y. Drainage area, 26.6 sq mi. Period of record, February 1956 to current year in reports of Geological Survey. Bristol recording water-level gage. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam with sheet piling cutoff and concrete spillway; dam completed and storage began in February 1956. Total capacity at crest of dam (elevation, 80.00 ft), 4,068,000,000 gal. 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 public water supply. Elevation record and capacity table furnished by Hackensack Water Co.

01376950 LAKE TAPPAN.--Lat 41°01'05", long 74°00'05", Bergen County, at dam on Hackensack River, 0.50 mile north of Old Tappan. Drainage area, about 49 sq mi. Period of record, October 1966 to current year in reports of Geological Survey. Water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by earthfill dam, completed in 1966. Capacity at spillway level (elevation, 55.00 ft), 3,378,000,000 gal. Flow regulated by four Bascule gates and one sluice gate. Water is released by Hackensack Water Co., for public water supply. Elevation record and capacity table furnished by Hackensack Water Co.

01377450 WOODCLIFF LAKE.--Lat 41°01', long 74°03', Bergen County, at dam on Pascack Brook, 0.75 mile north of Hillsdale. Drainage area, 19.4 sq mi. Period of record, December 1929 to current year in reports of Geological Survey. Monthend contents only prior to September 1953, published in WSP 1302, 1722. Water-stage recorder. Datum of gage is at mean sea level. Gage readings to 0.1 ft above or below spillway level and capacity table furnished by Hackensack Water Co.

Reservoir is formed by earthfill dam, completed about 1905. Capacity at spillway level (elevation, 94.33 ft), 835,000,000 gal. 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.

01378480 ORADELL RESERVOIR.--Lat 40°57', long 74°02', Bergen County, at dam on Hackensack River at Oradell. Drainage area, 113 sq mi. Period of record, December 1922 to current year in reports of Geological Survey. Monthend contents only prior to September 1953, published in WSP 1302, 1722. Water-stage recorder. Datum of gage is at mean sea level.

Reservoir is formed by Hollow concrete dam, completed in 1922. Capacity at spillway level (elevation, 22.66 ft), 2,850,000,000 gal. Flow regulated by seven sluice gates (7 by 9 ft). Water is released for diversion by Hackensack Water Co., 1 mile downstream from dam for municipal supply. Elevation record and capacity table furnished by Hackensack Water Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Date	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (million gallons)	Change in contents (equivalent in cfs)
01376700 Lake De Forest†				01376950 Lake Tappan†		
Sept. 30.....	85.06	5,659	-	54.94	3,466	-
Oct. 31.....	85.12	5,680	+1.0	54.95	3,469	+2
Nov. 30.....	85.29	5,740	+3.1	55.01	3,488	+1.0
Dec. 31.....	85.28	5,737	-.2	55.00	3,485	-.2
CAL YR 1971.....	-	-	+13.6	-	-	+10.9
Jan. 31.....	85.14	5,687	-2.5	55.00	3,485	0
Feb. 29.....	85.29	5,740	+2.8	55.02	3,492	+4
Mar. 31.....	85.27	5,733	-.4	55.00	3,485	-.4
Apr. 30.....	85.20	5,709	-1.2	55.00	3,485	0
May 31.....	85.49	5,811	+5.1	55.12	3,524	+2.0
June 30.....	85.68	5,878	+3.4	55.12	3,524	0
July 31.....	84.89	5,603	-13.7	55.02	3,492	-1.6
Aug. 31.....	84.22	5,393	-10.5	52.00	2,545	-47.3
Sept. 30.....	82.59	4,881	-26.4	46.58	1,138	-72.6
WTR YR 1972.....	-	-	-3.3	-	-	-9.8
01377450 Woodcliff Lake†				01378480 Oradell Reservoir†		
Sept. 30.....	94.23	830	-	18.50	2,017	-
Oct. 31.....	93.63	798	-1.6	19.25	2,154	+6.8
Nov. 30.....	95.53	899	+5.2	21.05	2,513	+18.6
Dec. 31.....	95.13	878	-1.0	21.56	2,618	+5.2
CAL YR 1971.....	-	-	+1	-	-	+3.5
Jan. 31.....	94.13	824	-2.7	20.02	2,304	-15.6
Feb. 29.....	95.53	899	+4.0	22.01	2,711	+21.7
Mar. 31.....	95.33	889	-.5	22.12	2,734	+1.1
Apr. 30.....	95.23	883	-.3	21.74	2,655	-4.1
May 31.....	96.23	940	+2.8	22.75	2,871	+10.8
June 30.....	96.23	940	0	20.03	2,306	-29.1
July 31.....	94.83	862	-3.9	20.87	2,477	+8.5
Aug. 31.....	95.03	873	+5	19.53	2,208	-13.4
Sept. 30.....	91.63	694	-9.2	17.44	1,833	-19.3
WTR YR 1972.....	-	-	-.6	-	-	-.8

† Elevation at 0800 on first day of following month.

HACKENSACK RIVER BASIN

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Diversions from Hackensack River basin

- 01376699 Spring Valley Water Co., diverts water at Lake De Forest for public supply in Rockland County, N.Y. Records furnished by Spring Valley Water Co.
- 01376810 Village of Nyack, N.Y., diverts water from Hackensack River 100 ft downstream from gaging station on Hackensack River at West Nyack, N.Y., for municipal supply. Records furnished by Board of Water Commissioners of Nyack, N.Y.
- 01378490 Hackensack Water Co., diverts water for municipal supply from Oradell Reservoir at Haworth pumping station 2.0 miles 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, N.J. Records furnished by Hackensack Water Co.
- 01378520 Hackensack Water Co., diverts water from Hirshfeld Brook, a tributary of the Hackensack River, below the gaging station on Hackensack River at New Milford, N.J., for municipal supply. Records furnished by Hackensack Water Co.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Month	Spring Valley Water Co.	West Nyack, N.Y.	Hackensack River
October.....	5.72	2.71	140
November.....	4.26	2.32	133
December.....	3.12	2.32	132
CAL YR 1971.....	6.20	2.68	143
January.....	2.04	2.31	133
February.....	2.19	2.29	135
March.....	2.24	2.38	137
April.....	2.45	2.45	140
May.....	5.67	2.69	151
June.....	6.24	2.92	152
July.....	7.45	3.23	156
August.....	9.12	3.31	166
September.....	10.1	2.91	155
WTR YR 1972.....	5.06	2.66	144

Tabulation of diversion by pumpage from sources other than the Hackensack River into Oradell Reservoir. These figures are included in diversions from Hackensack River as noted above.

DIVERSIONS, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 SEPTEMBER 1972

Month	Sparkill Creek (Hudson River Basin)	Hirshfeld Brook (Hackensack River Basin)	Saddle River (Passaic River Basin)	Wells to Surface Supply
October.....	0	0	0	0
November.....	0	0	0	0
December.....	0	0	0	0
CAL YR 1971..	0.11	0.86	5.75	0.36
January.....	0	0	0	0
February.....	0	0	0	0
March.....	0	0	0	0
April.....	0	0	0	0
May.....	0	0	0	0
June.....	0	0	0	0
July.....	0	0	0	0
August.....	0	0	0	0
September.....	0	0	0	0
WTR YR 1972..	0	0	0	0

PASSAIC RIVER BASIN

01387450 MAHWAH RIVER NEAR SUFFERN, N.Y.

LOCATION.--Lat 41°08'27", long 74°07'01", Rockland County, on right bank at upstream side of bridge on U.S. Highway 202, 2.5 miles northeast of Suffern, and 4.8 miles upstream from mouth.

DRAINAGE AREA.--12.3 sq mi.

PERIOD OF RECORD.--August 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 321.57 ft above mean sea level.

AVERAGE DISCHARGE.--14 years, 22.8 cfs (25.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 580 cfs June 30 (gage height, 5.53 ft); minimum, 1.1 cfs Sept. 28-29 (gage height, 1.24 ft).
Period of record: Maximum discharge, 1,650 cfs May 29, 1968 (gage height 7.78 ft), from rating extended above 850 cfs on basis of contracted-opening measurement of peak flow; minimum, 0.05 cfs Oct. 20, 21, 1970, result of temporary pumping from gage pool.

REMARKS.--Records fair. Occasional regulation from unknown source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	40	80	22	10	46	24	26	162	223	6.9	2.6
2	12	64	57	33	10	95	23	31	75	109	6.2	2.5
3	11	55	46	41	13	202	21	53	55	73	5.7	2.4
4	10	44	42	31	87	132	21	101	43	62	6.4	2.3
5	9.2	35	36	38	46	85	22	70	43	50	6.4	2.3
6	12	29	40	28	22	63	19	52	35	44	6.2	2.3
7	9.2	31	75	25	17	53	18	44	29	37	14	2.2
8	8.3	28	67	23	14	56	17	43	24	31	13	2.2
9	7.1	23	53	21	13	46	16	62	21	30	8.9	2.1
10	46	21	47	31	13	38	15	66	21	25	7.1	1.9
11	50	20	44	32	14	34	15	53	18	22	5.9	1.8
12	29	19	38	31	30	54	15	43	16	20	4.6	1.9
13	19	18	34	26	68	65	23	37	15	75	3.9	2.0
14	16	16	30	27	89	52	27	34	14	58	3.7	2.2
15	14	23	33	23	53	46	22	132	14	35	8.3	2.1
16	12	22	34	20	42	49	22	77	14	26	5.3	2.1
17	12	18	29	19	34	104	41	58	37	24	4.6	2.2
18	12	17	25	16	30	162	28	47	29	20	4.1	2.3
19	11	16	22	16	31	99	25	40	211	18	3.7	2.9
20	10	16	22	16	29	70	62	90	139	16	3.3	2.7
21	9.8	15	21	16	31	59	72	96	97	18	3.1	2.3
22	10	14	19	16	23	64	62	64	217	16	2.8	2.1
23	9.5	12	16	17	22	68	82	49	274	14	2.7	1.7
24	21	12	18	18	21	54	60	41	165	13	2.8	1.7
25	37	17	19	19	21	46	50	34	158	12	2.7	1.6
26	30	20	19	16	21	40	42	29	141	9.2	2.9	1.4
27	22	20	19	13	20	35	37	26	95	7.8	3.4	1.3
28	19	42	17	15	20	32	32	23	67	7.1	3.2	1.1
29	18	58	16	13	29	29	29	21	54	6.6	2.9	1.2
30	16	144	23	12	-----	28	26	21	197	5.9	2.8	1.4
31	16	-----	34	12	-----	26	-----	60	-----	6.2	2.7	-----
TOTAL	531.1	909	1,075	686	873	2,032	968	1,623	2,480	1,113.8	160.2	60.8
MEAN	17.1	30.3	34.7	22.1	30.1	65.5	32.3	52.4	82.7	35.9	5.17	2.03
MAX	50	144	80	41	89	202	82	132	274	223	14	2.9
MIN	7.1	12	16	12	10	26	15	21	14	5.9	2.7	1.1

CAL YR 1971 TOTAL 11,470.6 MEAN 31.4 MAX 488 MIN 1.3
WTR YR 1972 TOTAL 12,511.9 MEAN 34.2 MAX 274 MIN 1.1

PEAK DISCHARGE (BASE, 200 CFS, REVISED)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
11-30	0100	4.09	228	6-01	0330	4.06	224
2-13	2030	3.97	210	6-19	1015	4.51	302
3-03	1200	4.46	292	6-22	2315	4.94	410
3-18	0345	3.96	209	6-30	2030	5.53	580
5-15	0615	4.10	230				

01387500 Ramapo River near Mahwah, N. J.

LOCATION.--Lat 41°05'51", long 74°09'48", Bergen County, on left bank 350 ft downstream from State Highway 17, 0.6 mile downstream from Mahwah River, and 1.0 mile west of Mahwah.

DRAINAGE AREA.--118 sq mi.

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.--Water-stage recorder. Datum of gage is 253.10 ft above mean sea level. Prior to Dec. 31, 1906, non-recording 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.

AVERAGE DISCHARGE.--54 years (1902-6, 1922-72), 224 cfs (25.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,630 cfs June 23 (gage height, 8.55 ft); minimum, 16 cfs Sept. 11 (gage height, 2.24 ft).

Period of record: Maximum discharge, about 12,400 cfs Oct. 9, 1903 (gage height, 11.0 ft, from graph based on gage readings, site and datum then in use), from rating curve extended above 1,400 cfs; minimum, 7 cfs Dec. 16, 1930, Sept. 12, 1932: minimum daily, 8 cfs Aug. 25, 1929, Sept. 5, 12, 1932.

REMARKS.--Records excellent except those for period of no gage-height record, which are fair. Diurnal fluctuation occasionally at low flow caused by powerplants above station. Water-quality records for the current year are published in Part 2 of New Jersey Report.

REVISIONS (WATER YEARS).--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).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	238	899	240	101	333	243	244	1,330	1,560	71	28
2	100	405	601	285	101	722	240	281	1,010	1,010	69	27
3	90	390	462	400	146	1,810	236	465	646	900	65	28
4	88	337	405	332	516	1,450	226	1,120	469	530	62	29
5	82	289	357	342	331	898	229	984	494	450	59	25
6	78	249	374	289	222	673	207	696	456	360	55	27
7	76	273	584	249	196	523	199	533	357	315	90	25
8	73	277	764	221	173	514	186	471	292	280	155	29
9	70	257	617	202	158	440	170	579	243	250	90	21
10	170	240	493	260	143	357	156	675	248	220	54	17
11	300	223	443	280	136	305	151	551	216	190	49	19
12	370	190	379	282	126	417	150	456	175	170	45	20
13	250	170	334	255	391	526	204	386	158	220	41	30
14	190	155	294	251	1,020	474	270	344	148	450	40	24
15	146	165	302	221	645	434	224	779	142	600	76	25
16	124	190	307	194	447	410	230	619	142	350	63	24
17	110	164	271	185	357	784	362	474	280	260	52	24
18	102	146	240	174	313	1,780	302	391	250	230	48	35
19	97	137	206	164	324	1,140	253	338	1,160	190	44	50
20	89	134	194	158	332	755	480	545	1,080	155	39	39
21	84	128	192	155	291	609	778	826	832	160	36	35
22	81	121	181	149	249	658	643	622	1,810	180	34	34
23	77	111	162	149	214	772	806	455	2,580	200	32	31
24	137	103	174	162	217	615	684	366	1,880	135	36	30
25	287	158	192	183	204	484	532	304	1,350	112	51	31
26	238	185	186	172	204	409	433	254	1,220	92	48	31
27	190	174	181	138	197	357	368	222	925	82	42	32
28	162	268	164	130	193	319	321	196	681	75	39	33
29	162	432	151	121	230	288	284	173	525	70	39	35
30	136	1,150	190	115	-----	277	255	187	946	66	34	43
31	123	-----	314	109	-----	262	-----	438	-----	66	30	-----
TOTAL	4,392	7,459	10,713	6,567	8,177	19,795	9,822	14,974	22,045	9,928	1,688	881
MEAN	142	249	346	212	282	639	327	483	735	320	54.5	29.4
MAX	370	1,150	899	400	1,020	1,810	806	1,120	2,580	1,560	155	50
MIN	70	103	151	109	101	262	150	173	142	66	30	17
CFSM	1.20	2.11	2.93	1.80	2.39	5.42	2.77	4.09	6.23	2.71	.46	.25
IN.	1.38	2.35	3.38	2.07	2.58	6.24	3.10	4.72	6.95	3.13	.53	.28
CAL YR 1971	TOTAL	102,580	MEAN	281	MAX	3,440	MIN	21	CFSM	2.38	IN	32.34
WTR YR 1972	TOTAL	116,441	MEAN	318	MAX	2,580	MIN	17	CFSM	2.69	IN	36.71

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-03	1315	8.02	2,100	6-23	1315	8.55	2,630
3-18	Unknown	About 7.96	About 2,040	7-01	0345	7.77	1,850
6-01	1130	7.21	1,410				
6-19	1715	7.33	1,490				

NOTE.--No gage-height record July 3 to Aug. 15.

DELAWARE RIVER BASIN

01413500 EAST BRANCH DELAWARE RIVER AT MARGARETVILLE, N.Y.

LOCATION.--Lat 42°08'41", long 74°39'14", Delaware County, on right bank at downstream side of road bridge at southwest end of Margaretville, 0.2 mile upstream from unnamed tributary, 1.6 miles downstream from Dry Brook.

DRAINAGE AREA.--163 sq mi.

PERIOD OF RECORD.--February 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,302.38 ft above mean sea level. Prior to Sept. 9, 1937, nonrecording gage, and Sept. 9, 1937, to Aug. 17, 1944, water-stage recorder, at same site and datum 1.00 ft higher.

AVERAGE DISCHARGE.--35 years, 292 cfs (24.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,150 cfs Apr. 20 (gage height, 7.66 ft); minimum, 21 cfs Sept. 29 (gage height, 2.00 ft); minimum gage height, 1.94 ft Oct. 10.

Period of record: Maximum discharge, 15,700 cfs Nov. 25, 1950 (gage height, 13.84 ft), from rating curve extended above 8,700 cfs; minimum, 5.0 cfs Aug. 5, 1964; minimum gage height, 0.89 ft Sept. 30, Oct. 1, 1943, present datum.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	71	251	350	100	264	436	646	640	1,340	59	30
2	55	142	170	420	100	2,100	484	712	526	1,020	55	28
3	52	160	150	447	96	2,730	436	826	466	862	101	27
4	52	137	140	368	92	1,000	382	1,160	436	754	80	27
5	51	124	120	310	90	600	340	1,160	412	622	49	33
6	50	119	130	270	88	500	318	982	364	544	42	34
7	51	166	1,180	250	88	400	313	874	424	472	42	26
8	50	160	1,740	230	88	320	265	874	324	424	112	25
9	47	142	1,210	240	88	280	250	1,130	313	358	59	24
10	129	142	1,340	280	90	250	250	1,120	296	307	45	23
11	202	142	1,830	420	94	230	285	970	245	275	42	22
12	129	134	1,510	383	100	329	340	862	213	226	38	22
13	107	132	1,120	464	130	436	694	760	195	204	37	22
14	98	121	860	600	626	346	790	682	182	195	37	25
15	94	116	912	400	300	255	706	628	162	174	63	25
16	90	116	918	300	300	285	832	580	213	154	45	24
17	86	112	808	280	150	1,670	1,320	550	182	140	39	22
18	84	107	686	280	120	904	1,360	496	150	122	38	23
19	80	107	574	300	110	628	1,500	436	150	112	35	25
20	78	112	519	310	110	508	2,810	412	140	140	33	23
21	76	109	480	309	110	562	2,320	388	154	126	31	22
22	72	112	404	250	110	1,720	1,710	324	958	109	30	25
23	71	101	320	314	120	1,840	1,730	280	2,200	93	28	26
24	78	90	320	280	129	1,090	1,390	240	1,620	85	28	24
25	98	90	458	368	119	832	1,180	213	1,240	80	36	23
26	90	100	377	200	112	688	1,000	186	1,020	87	32	22
27	84	112	420	150	109	556	862	166	844	74	51	22
28	78	126	431	130	107	478	754	154	694	67	80	22
29	74	145	383	120	112	484	676	140	574	63	44	22
30	72	345	360	110	-----	478	640	133	1,270	60	36	22
31	71	-----	350	110	-----	400	-----	574	-----	59	33	-----
TOTAL	2,507	3,892	20,471	9,243	3,988	23,163	26,373	18,658	16,607	9,348	1,480	740
MEAN	80.9	130	660	298	138	747	879	602	554	302	47.7	24.7
MAX	202	345	1,830	600	626	2,730	2,810	1,160	2,200	1,340	112	34
MIN	47	71	120	110	88	230	250	133	140	59	28	22
CFSM	.50	.80	4.05	1.83	.85	4.58	5.39	3.69	3.40	1.85	.29	.15
IN.	.57	.89	4.67	2.11	.91	5.29	6.02	4.26	3.79	2.13	.34	.17

CAL YR 1971 TOTAL 110,088 MEAN 302 MAX 2,280 MIN 21 CFSM 1.85 IN 25.12
 WTR YR 1972 TOTAL 136,470 MEAN 373 MAX 2,810 MIN 22 CFSM 2.29 IN 31.15

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	0015	7.46	3,910	4-20	1645	7.66	4,150
3-22	2045	7.18	3,600	6-22	2400	7.01	3,430

DELAWARE RIVER BASIN

115

01414500 MILL BROOK NEAR DUNRAVEN, N.Y.

LOCATIONS.--Lat 42°06'22", long 74°43'51", Delaware County, on left bank 0.4 mile upstream from bridge on New York City Road 9 and Pepacton Reservoir, and 2.7 miles southwest of Dunraven.

DRAINAGE AREA.--25.0 sq mi.

PERIOD OF RECORD.--February 1937 to current year. Published as "at Arena" 1937-67.

GAGE.--Water-stage recorder. Datum of gage is 1,298.54 ft above mean sea level, datum of Board of Water Supply, City of New York. Prior to Oct. 17, 1939, nonrecording gage at site 0.2 mile downstream at different datum. Oct. 17 to Dec. 8, 1939, nonrecording gage at present site at different datum.

AVERAGE DISCHARGE.--35 years, 53.9 cfs (29.28 inches per year).

EXTREMES.--Current year: Maximum discharge, 886 cfs Apr. 20 (gage height, 5.86 ft); minimum discharge, 3.5 cfs Sept. 28, 29, 30 (gage height, 2.86 ft).

Period of record: Maximum discharge, 4,500 cfs Sept. 21, 1938, from rating curve extended above 960 cfs on basis of velocity-area study; maximum gage height, 9.92 ft Nov. 25, 1950; minimum discharge observed, 1.2 cfs Sept. 25, 26, 1939 (gage height, 0.71 ft; site and datum then in use).

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--WSP 1432: 1937. WRD N.Y. 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	70	58	20	50	68	106	115	97	13	5.9
2	10	39	50	64	19	200	72	109	100	76	17	5.7
3	9.6	43	42	67	18	250	65	134	82	67	23	5.7
4	9.3	38	37	60	18	100	58	212	75	60	17	5.4
5	9.0	34	34	50	18	70	52	197	65	56	12	5.2
6	8.6	31	55	40	18	60	45	156	74	49	9.6	5.2
7	9.3	46	227	38	18	50	43	127	108	49	10	4.9
8	8.6	41	270	37	18	45	38	111	83	43	17	4.9
9	8.0	48	197	40	18	39	35	111	76	39	12	4.7
10	29	37	219	50	18	40	32	113	68	36	10	4.4
11	45	35	370	68	19	43	35	100	55	32	9.0	4.4
12	33	33	274	60	20	51	41	92	49	29	8.3	4.2
13	28	31	184	75	70	54	95	88	44	27	7.7	4.2
14	25	29	134	100	70	48	111	86	39	25	8.6	4.4
15	24	27	131	60	50	41	106	83	34	24	16	4.4
16	22	26	158	47	38	53	156	80	37	23	9.6	4.2
17	21	25	153	46	32	227	312	75	32	24	8.6	4.2
18	20	23	127	48	28	122	308	68	28	22	8.0	4.7
19	18	23	104	54	25	92	384	64	26	22	7.7	4.4
20	17	23	94	52	22	80	594	62	23	23	7.0	4.2
21	16	23	85	45	21	83	334	63	34	24	6.7	4.2
22	15	23	70	40	20	300	234	56	223	19	6.2	4.7
23	14	21	50	47	19	250	219	51	351	17	6.2	3.9
24	15	19	50	45	19	120	190	47	201	16	5.9	3.9
25	17	19	64	59	20	94	167	42	131	14	5.7	3.9
26	16	20	63	35	20	84	134	38	99	14	5.7	3.7
27	15	22	63	30	21	70	111	34	80	13	19	3.7
28	14	26	70	27	22	74	102	32	63	12	14	3.7
29	13	50	64	25	23	71	95	30	54	12	8.6	3.5
30	13	111	58	23	-----	71	99	29	82	11	7.4	4.2
31	12	-----	54	22	-----	65	-----	97	-----	10	6.4	-----
TOTAL	525.4	978	3,621	1,512	742	2,997	4,335	2,693	2,531	985	322.9	134.7
MEAN	16.9	32.6	117	48.8	25.6	96.7	145	86.9	84.4	31.8	10.4	4.49
MAX	45	111	370	100	70	300	594	212	351	97	23	5.9
MIN	8.0	12	34	22	18	39	32	29	23	10	5.7	3.5
CFSM	.68	1.30	4.68	1.95	1.02	3.87	5.80	3.48	3.38	1.27	.42	.18
IN.	.78	1.46	5.39	2.25	1.10	4.46	6.45	4.01	3.77	1.47	.48	.20
CAL YR 1971	TOTAL 18,889.8		MEAN 51.8	MAX 370	MIN 3.9	CFSM 2.07	IN 28.11					
WTR YR 1972	TOTAL 21,377.0		MEAN 58.4	MAX 594	MIN 3.5	CFSM 2.34	IN 31.81					

PEAK DISCHARGE (BASE, 740 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	1445	5.86	886	6-22	2230	5.62	746

01415000 TREMPER KILL NEAR ANDES, N.Y.

LOCATION.--Lat 42°07'12", long 74°49'08", Delaware County, on right bank 500 ft upstream from bridge on County Highway 1, about 1,700 ft upstream from Pepacton Reservoir, and 5 miles south of Andes.

DRAINAGE AREA.--33.0 sq mi.

PERIOD OF RECORD.--February 1937 to current year. Published as "near Shavertown" 1937-67.

GAGE.--Water-stage recorder. Concrete control since November 1937. Datum of gage is 1,285.87 ft above mean sea level. 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 mile downstream at different datum.

AVERAGE DISCHARGE.--35 years, 57.9 cfs (23.83 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,690 cfs Mar. 2 (gage height, 5.33 ft); minimum, 2.6 cfs Sep. 11-13 (gage height 2.54 ft).

Period of record: Maximum discharge, 4,250 cfs Sept. 21, 1938 (gage height, 7.12 ft), from rating curve extended above 1,500 cfs; minimum, 0.5 cfs Sept. 17, 21, 22, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	80	82	24	35	110	69	138	190	9.4	3.7
2	10	31	60	91	23	350	115	82	113	132	8.7	3.4
3	10	25	52	84	22	400	100	132	95	110	16	3.4
4	9.5	25	47	75	22	100	88	352	84	93	15	3.2
5	9.2	25	43	65	22	70	72	322	69	75	10	3.2
6	9.0	25	70	52	22	60	66	221	62	65	8.2	3.0
7	9.5	41	394	48	22	54	62	164	62	67	10	3.0
8	9.5	32	442	48	22	48	58	171	48	69	41	3.0
9	8.7	29	298	52	22	47	56	221	48	58	13	3.0
10	30	30	316	60	22	48	58	212	44	48	9.4	3.0
11	32	30	442	80	22	50	71	171	35	41	8.2	2.8
12	22	29	322	74	25	56	88	144	32	35	7.2	2.6
13	18	28	217	84	80	95	250	120	29	32	6.7	3.0
14	17	24	154	120	90	71	226	105	26	30	7.7	4.3
15	16	24	178	75	60	54	190	93	24	28	15	3.7
16	15	24	157	58	30	84	235	88	64	24	8.2	3.2
17	15	22	141	56	22	470	376	84	40	21	7.2	3.2
18	14	20	123	58	19	150	346	77	32	18	6.7	4.3
19	13	20	100	64	17	110	322	64	41	17	5.8	4.6
20	13	19	91	60	16	90	540	62	33	18	5.4	3.7
21	12	20	82	54	15	138	407	58	88	16	5.0	5.0
22	12	23	66	48	15	484	358	49	226	14	4.6	20
23	11	18	64	56	15	352	346	43	322	13	4.3	6.5
24	14	16	60	54	15	203	260	38	255	13	4.0	5.0
25	17	17	60	90	15	120	199	33	226	13	4.0	4.9
26	15	19	62	50	15	100	154	29	171	16	4.6	4.5
27	13	23	69	38	15	86	123	26	135	12	6.7	4.3
28	12	28	88	33	16	81	103	23	105	10	6.7	4.1
29	12	46	82	30	17	85	88	22	84	9.4	5.0	3.7
30	11	115	80	28	-----	88	75	20	199	8.7	4.3	4.9
31	11	-----	80	26	-----	84	-----	120	-----	8.7	4.0	-----
TOTAL	431.4	839	4,520	1,893	742	4,263	5,542	3,415	2,930	1,304.8	272.0	130.2
MEAN	13.9	28.0	146	61.1	25.6	138	185	110	97.7	42.1	8.77	4.34
MAX	32	115	442	120	90	484	540	352	322	190	41	20
MIN	8.7	11	43	26	15	35	56	20	24	8.7	4.0	2.6
CFSM	.42	.85	4.42	1.85	.78	4.18	5.61	3.33	2.96	1.28	.27	.13
IN.	.49	.95	5.10	2.13	.84	4.81	6.25	3.85	3.30	1.47	.31	.15
CAL YR 1971	TOTAL 21,592.5	MEAN 59.2	MAX 442	MIN 2.8	CFSM 1.79	IN 24.34						
WTR YR 1972	TOTAL 26,282.4	MEAN 71.8	MAX 540	MIN 2.6	CFSM 2.18	IN 29.63						

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	2200	4.48	745	4-20	1345	4.48	781
3-2	2200	5.33	1,690	5-4	1400	4.39	700
3-22	1900	4.57	853				

DELAWARE RIVER BASIN

117

01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, N.Y.

LOCATION.--Lat 42°04'30", long 74°58'36", Delaware County, on left bank 0.5 mile downstream from Downs ville Dam, at downstream end of outlet channel of Pepacton Reservoir, and 1.0 mile east of Downs ville.

DRAINAGE AREA.--371 sq mi.

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,094.92 ft above mean sea level (Board of Water Supply, City of New York datum). Prior to Sept. 26, 1941, nonrecording gage, and Sept. 26, 1941, to June 27, 1955, water-stage recorder at site 0.8 mile downstream at datum 7.03 ft lower.

EXTREMES.--Current year: Maximum discharge, 5,520 cfs Apr. 21 (gage height, 6.99 ft); minimum daily, 6.1 cfs Feb. 27.
Period of record: Maximum discharge, 23,900 cfs Nov. 26, 1950 (gage height, 14.52 ft, site and datum then in use), from rating curve extended above 12,000 cfs; minimum, 0.3 cfs Oct. 11, 1954; minimum daily, 0.6 cfs Oct. 10, 1954; minimum gage height, 1.39 ft Jan. 17, 1964.
Maximum stage known, about 16 ft Oct. 9, 1903 (at former datum).

REMARKS.--Records good. Subsequent to September 1954, entire flow from drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River basin). Part of flow diverted for New York City municipal supply (see Delaware River basin, Reservoirs in). 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	74	6.5	7.4	7.4	6.6	8.8	1,170	124	2,460	144	18
2	242	7.1	6.5	7.6	7.4	8.0	6.9	918	470	2,180	53	18
3	190	6.4	6.6	7.4	7.4	8.5	6.9	957	600	1,800	97	18
4	201	6.3	6.7	7.4	7.8	7.4	6.9	1,620	570	1,540	155	18
5	239	6.3	6.8	7.3	7.4	7.1	6.9	2,350	500	1,270	69	18
6	251	6.3	7.3	7.1	7.4	6.9	7.1	1,980	410	879	20	18
7	219	6.7	8.4	7.2	7.4	6.9	10	1,550	470	648	20	18
8	203	6.3	8.0	7.3	7.4	6.9	20	1,310	355	530	20	18
9	171	6.5	8.0	7.2	7.4	6.9	20	1,540	275	391	20	18
10	65	6.6	7.9	7.3	7.4	6.9	20	1,620	204	254	20	19
11	19	41	8.1	7.5	7.4	6.6	20	1,480	131	114	20	18
12	19	83	8.3	7.5	7.4	6.9	28	1,270	77	40	121	18
13	19	79	8.1	7.9	7.8	6.9	420	1,070	40	21	131	19
14	19	82	8.0	8.0	7.7	6.9	1,210	879	21	20	20	20
15	19	132	8.1	7.6	7.6	6.9	1,360	756	20	20	75	18
16	19	281	7.9	7.6	9.1	6.9	1,450	636	19	20	81	18
17	19	390	7.7	7.7	6.9	8.3	2,250	570	18	20	19	18
18	19	386	7.7	7.7	6.9	7.7	2,590	500	20	20	20	19
19	20	243	7.4	7.7	6.9	7.4	2,650	382	20	20	20	19
20	21	88	9.3	7.6	6.9	7.1	4,020	261	18	20	19	19
21	50	231	7.5	7.7	6.9	7.1	5,110	198	21	21	18	19
22	92	221	7.5	7.4	6.6	7.7	4,190	144	382	20	18	19
23	59	89	7.4	7.6	6.6	8.0	4,080	66	2,780	20	18	19
24	19	93	8.2	8.3	6.6	7.4	3,350	30	3,530	20	20	19
25	19	56	8.3	7.2	6.6	7.4	2,710	28	2,990	20	18	19
26	71	6.6	7.6	7.3	6.3	7.4	2,230	21	2,480	20	18	19
27	113	6.6	7.5	7.3	6.1	7.4	1,870	21	2,000	20	18	19
28	152	6.6	7.6	7.4	6.3	7.4	1,590	20	1,600	20	18	19
29	208	7.1	7.4	7.4	6.3	7.1	1,420	20	1,250	20	18	20
30	169	8.8	7.8	7.4	-----	7.1	1,270	20	1,490	20	18	20
31	132	-----	7.6	7.4	-----	7.1	-----	22	-----	107	18	-----
TOTAL	3,198	2,663.2	237.7	232.4	207.3	224.8	43,931.5	23,409	22,885	12,575	1,344	559
MEAN	103	88.8	7.67	7.50	7.15	7.25	1,464	755	763	406	43.4	18.6
MAX	251	390	9.3	8.3	9.1	8.5	5,110	2,350	3,530	2,460	155	20
MIN	19	6.3	6.5	7.1	6.1	6.6	6.9	20	18	20	18	18
CAL YR 1971	TOTAL	43,369.7	MEAN	119	MAX	1,860	MIN	5.6				
WTR YR 1972	TOTAL	111,466.9	MEAN	305	MAX	5,110	MIN	6.1				

DELAWARE RIVER BASIN

01420000 LITTLE BEAVER KILL NEAR LIVINGSTON MANOR, N.Y.

LOCATION.--Lat 41°52'23", long 74°47'52", Sullivan County, on right bank 100 ft downstream from private bridge, 0.2 mile west from interchange 97 on U.S. highway 17, 2.5 miles southeast of Livingston Manor, and 3 miles upstream from Cattail Brook.

DRAINAGE AREA.--19.8 sq mi.

PERIOD OF RECORD.--July 1924 to current year.

GAGE.--Water-stage recorder. Concrete control since November 1933. Datum of gage is 1,496.69 ft above mean sea level. Prior to Dec. 9, 1939, nonrecording gage.

AVERAGE DISCHARGE.--48 years, 43.5 cfs (29.83 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,060 cfs June 22 (gage height, 4.32 ft); minimum, 4.0 cfs Sept. 10, 11, 12, 13, 17 (gage height, 1.44 ft).

Period of record: Maximum discharge, 3,420 cfs Aug. 26, 1928 (gage height, 8.7 ft, from floodmarks), from rating curve extended above 1,700 cfs; minimum, 0.9 cfs July 10, 1962; minimum gage height, 1.23 ft Aug. 1, 3, 5, 1936.

REMARKS.--Records good except those for winter periods, which are fair. Some diversion from Lily Pond for village of Liberty water supply.

REVISIONS (WATER YEARS).--WSP 1302: 1930(M), 1933(M), 1936-37(M), 1942-46(M). WSP 1432: 1928(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	11	50	52	22	25	92	68	237	135	11	8.6
2	7.4	55	40	51	20	70	105	74	128	86	13	6.8
3	6.8	53	34	49	20	120	92	115	94	74	49	6.3
4	6.8	32	32	42	19	70	70	251	68	66	36	5.8
5	7.4	25	30	37	18	60	62	168	56	55	18	5.4
6	7.4	21	30	34	18	50	58	110	58	53	13	5.4
7	8.0	33	100	32	18	46	56	88	56	66	22	4.9
8	6.8	29	254	30	17	44	49	76	38	51	113	4.9
9	6.3	23	135	30	18	43	47	82	38	42	38	4.9
10	72	22	140	32	18	42	49	90	46	41	22	4.5
11	74	22	247	35	19	41	60	72	32	38	18	4.0
12	38	29	159	40	21	41	82	58	27	30	16	4.0
13	25	21	115	53	40	58	207	51	27	33	14	5.8
14	20	18	88	70	80	46	219	49	22	33	15	6.8
15	18	21	84	44	50	39	171	72	19	32	23	5.4
16	15	22	133	38	40	36	275	86	22	27	15	4.9
17	14	20	118	39	34	189	520	98	21	27	13	4.5
18	12	18	88	40	28	143	374	80	18	33	14	6.3
19	13	17	74	40	26	84	338	68	22	56	12	7.4
20	13	18	60	35	24	66	511	90	22	32	11	5.4
21	12	21	55	32	23	62	310	92	186	23	9.8	5.8
22	11	19	52	29	22	231	219	68	625	20	9.8	8.0
23	11	14	48	32	22	237	228	55	615	17	13	5.4
24	14	12	46	33	21	125	186	46	346	15	8.6	4.9
25	19	12	47	45	20	80	138	39	216	14	8.6	5.8
26	20	22	53	38	20	60	108	36	162	13	8.0	5.4
27	18	20	60	32	19	52	90	30	125	11	9.8	9.8
28	15	23	68	28	19	52	78	27	90	11	14	6.8
29	13	27	62	25	19	68	74	25	68	9.8	11	5.8
30	13	74	58	24	-----	68	70	22	171	9.2	7.4	6.8
31	12	-----	54	23	-----	62	-----	244	-----	9.8	6.8	-----
TOTAL	536.9	754	2,614	1,164	735	2,410	4,938	2,530	3,655	1,162.8	592.8	176.5
MEAN	17.3	25.1	84.3	37.5	25.3	77.7	165	81.6	122	37.5	19.1	5.88
MAX	74	74	254	70	80	237	520	251	625	135	113	9.8
MIN	6.3	11	30	23	17	25	47	22	18	9.2	6.8	4.0
CFSM	.87	1.27	4.26	1.89	1.28	3.92	8.33	4.12	6.16	1.89	.96	.30
IN.	1.01	1.42	4.91	2.19	1.38	4.53	9.28	4.75	6.87	2.18	1.11	.33

CAL YR 1971 TOTAL 13,961.0 MEAN 38.2 MAX 281 MIN 3.7 CFSM 1.93 IN 26.23
WTR YR 1972 TOTAL 21,269.0 MEAN 58.1 MAX 625 MIN 4.0 CFSM 2.93 IN 39.96

PEAK DISCHARGE (BASE, 730 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-16	2200	3.79	770	6-22	2200	4.32	1,060
4-20	1515	3.85	802				

DELAWARE RIVER BASIN

119

01420500 BEAVER KILL AT COOKS FALLS, N.Y.

LOCATION.--Lat 41°56'47", long 74°58'48", Delaware County, on left bank 125 ft downstream from road bridge in Cooks Falls, and 5.5 miles downstream from Willowemoc Creek.

DRAINAGE AREA.--241 sq mi.

PERIOD OF RECORD.--July 1913 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,151.70 ft above mean sea level. Prior to Oct. 1, 1933, nonrecording gage at site 125 ft upstream at same datum.

AVERAGE DISCHARGE.--58 years, 544 cfs (30.65 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,820 cfs Apr. 20 (gage height, 9.66 ft); minimum, 69 cfs Sept. 17.

Period of record: Maximum discharge, 31,600 cfs Mar. 31, 1951 (gage height, 16.02 ft), from rating curve extended above 13,000 cfs on basis of slope-area measurement at gage height 15.52 ft; minimum, 16 cfs Nov. 22, 23, 1964.

REMARKS.--Records good except those for winter periods, which are poor. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Ten discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WSP 521: Drainage area. WSP 781: 1933(M). WSP 891: 1936-39(M). WSP 1202: 1950. WSP 1232: 1950(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	152	600	670	270	300	910	935	2,050	1,570	148	94
2	122	310	450	600	260	700	1,130	965	1,290	1,090	144	92
3	119	530	400	520	240	2,370	1,010	1,170	1,020	920	434	88
4	115	385	370	470	260	1,360	895	2,120	834	870	400	85
5	113	320	340	440	260	900	786	1,950	742	718	236	82
6	110	293	380	410	250	700	726	1,390	662	650	186	78
7	113	376	1,300	390	240	670	710	1,140	935	678	170	77
8	113	397	3,200	380	230	654	634	1,010	710	662	364	77
9	106	338	1,860	370	230	554	590	1,070	630	554	268	79
10	263	325	1,680	380	220	472	578	1,100	626	502	202	74
11	642	320	2,990	410	200	454	602	950	530	469	172	71
12	388	308	2,380	440	200	494	710	830	469	409	156	71
13	298	298	1,650	506	250	618	1,540	762	427	379	146	75
14	260	280	1,240	1,030	600	590	2,020	726	397	406	138	89
15	238	283	1,120	600	450	522	1,700	778	364	364	174	82
16	224	295	1,490	500	400	478	2,080	794	376	320	152	74
17	208	280	1,520	500	350	1,610	4,940	830	361	308	136	71
18	200	260	1,230	558	310	1,530	4,520	758	315	278	136	85
19	190	253	985	558	280	520	4,410	698	315	361	132	97
20	180	258	880	487	260	460	6,280	686	312	292	120	83
21	176	268	790	457	250	450	4,500	734	542	275	113	75
22	166	283	694	418	240	2,210	2,910	638	3,420	250	110	89
23	162	253	500	418	240	3,380	2,810	554	5,240	226	109	80
24	166	220	560	445	250	1,810	2,370	498	3,700	206	105	74
25	206	220	640	590	270	1,280	1,900	454	2,420	192	104	75
26	204	325	670	500	260	1,040	1,530	418	1,840	182	101	75
27	190	283	678	412	260	890	1,290	388	1,400	172	188	93
28	178	295	746	421	250	790	1,110	364	1,070	160	176	115
29	166	338	758	379	260	790	1,020	335	875	150	134	104
30	158	754	738	330	-----	860	965	315	1,550	140	113	92
31	154	-----	798	290	-----	762	-----	1,510	-----	138	101	-----
TOTAL	6,061	9,500	33,637	14,879	8,040	30,218	57,176	26,870	35,422	13,891	5,368	2,496
MEAN	196	317	1,085	480	277	975	1,906	867	1,181	448	173	83.2
MAX	642	754	3,200	1,030	600	3,380	6,280	2,120	5,240	1,570	434	115
MIN	106	152	340	290	200	300	578	315	312	138	101	71
CFSM	.81	1.32	4.50	1.99	1.15	4.05	7.91	3.60	4.90	1.86	.72	.35
IN.	.94	1.47	5.19	2.30	1.24	4.66	8.83	4.15	5.47	2.14	.83	.39
CAL YR 1971	TOTAL 190,531	MEAN 522	MAX 4,080	MIN 50	CFSM 2.17	IN 29.41						
WTR YR 1972	TOTAL 243,558	MEAN 665	MAX 6,280	MIN 71	CFSM 2.76	IN 37.59						

PEAK DISCHARGE (BASE, 4,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-22	2315	7.68	5,070	6-23	0130	9.00	7,500
4-20	1745	9.66	8,820				

DELAWARE RIVER BASIN

01421000 EAST BRANCH DELAWARE RIVER AT FISHS EDDY, N.Y.

LOCATION.--Lat 41°58'23", long 75°10'28", Delaware County, on left bank 3,000 ft upstream from bridge on County Highway 28, at Fishs Eddy, 0.6 mile upstream from Fish Creek, 4.2 miles downstream from Beaver Kill and 11 miles upstream from the confluence of East and West Branches, near Hancock.

DRAINAGE AREA.--783 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 955.96 ft above mean sea level. Prior to Sept. 27, 1928, nonrecording gage and Sept. 28, 1928, to Nov. 1, 1967, water-stage recorder at site 3,000 ft downstream at datum 5.0 ft lower.

EXTREMES.--Current year: Maximum discharge, 17,500 cfs Apr. 20 (gage height, 9.91 ft); minimum, 104 cfs Sept. 11, 12, 13, 17 (gage height, 3.22 ft).

Period of record: Maximum discharge, 53,300 cfs Aug. 24, 1933 (gage height, 20.60 ft at former site and datum), from rating curve extended above 22,000 cfs; minimum, 52 cfs July 23, 1964 (gage height, 1.16 ft at former site and datum); minimum daily, 68 cfs Aug. 28, 1949.

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 cfs, from rating curve extended above 22,000 cfs).

REMARKS.--Records good except those for winter periods which are fair. Subsequent to September 1954, entire flow from 371 sq mi of drainage area controlled by Pepacton Reservoir (see Delaware River basin, Reservoirs in). Part of flow diverted for municipal supply of city of New York. Remainder of flow (except for conservation releases and spill) impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Water-quality records for current year are published in Part 2 of this report.

COOPERATION.--Thirteen discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS.--WSP 756: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	342	1,140	1,210	480	2,500	1,320	2,210	3,120	5,030	390	160
2	350	422	900	1,200	450	5,000	1,710	2,050	2,540	4,050	334	153
3	374	800	840	920	430	3,000	1,570	2,250	2,140	3,220	542	153
4	334	620	750	840	450	2,000	1,410	5,030	1,820	2,770	712	146
5	358	524	700	780	450	1,600	1,240	6,160	1,560	2,240	486	139
6	382	470	909	720	430	1,300	1,140	4,470	1,350	1,800	342	132
7	398	580	3,270	680	420	1,100	1,130	3,380	1,710	1,510	286	125
8	334	670	5,840	660	400	900	1,010	2,770	1,370	1,490	502	118
9	350	570	3,400	680	390	800	941	3,020	1,180	1,350	446	118
10	358	542	2,890	740	370	760	920	3,230	1,110	1,130	334	118
11	860	542	4,870	789	360	798	925	2,900	942	980	286	111
12	570	551	4,250	898	350	824	1,040	2,510	795	802	254	104
13	446	560	2,910	829	450	948	2,160	2,150	699	694	398	111
14	382	524	2,180	1,690	1,000	968	3,810	1,910	614	712	294	139
15	350	488	1,920	1,300	800	853	3,730	1,770	550	649	278	139
16	326	660	2,260	1,100	700	782	4,000	1,760	631	577	350	118
17	310	809	2,410	960	600	2,440	9,180	1,750	606	534	278	111
18	296	797	2,070	940	540	2,530	9,650	1,640	505	486	230	146
19	275	785	1,700	1,100	500	1,750	9,180	1,440	521	550	223	181
20	261	557	1,480	900	470	1,420	13,300	1,300	499	486	202	160
21	254	534	1,320	820	440	1,340	13,600	1,290	558	454	188	139
22	275	816	1,160	760	420	3,060	9,060	1,110	3,270	422	181	174
23	318	541	1,000	720	430	5,200	8,540	935	8,710	382	174	153
24	275	450	860	720	450	2,870	6,730	800	8,940	350	167	132
25	289	430	1,000	800	470	2,050	5,390	725	6,620	326	174	132
26	296	450	1,070	800	460	1,650	4,380	622	5,390	318	181	125
27	342	518	1,070	800	440	1,410	3,590	558	4,130	302	278	139
28	350	510	1,160	740	440	1,230	3,010	513	3,190	278	398	167
29	414	589	1,250	660	470	1,170	2,640	467	2,450	262	262	167
30	430	1,240	1,230	580	-----	1,330	2,380	436	3,330	246	209	153
31	358	-----	1,390	520	-----	1,170	-----	1,760	-----	238	181	-----
TOTAL	11,127	17,891	59,199	26,856	14,060	54,753	128,686	62,916	70,850	34,638	9,560	4,163
MEAN	359	596	1,910	866	485	1,766	4,290	2,030	2,362	1,117	308	139
MAX	860	1,240	5,840	1,690	1,000	5,200	13,600	6,160	8,940	5,030	712	181
MIN	212	342	700	520	350	760	920	436	499	238	167	104
CAL YR 1971	TOTAL 345,348	MEAN 946	MAX 6,850	MIN 105								
WTR YR 1972	TOTAL 494,699	MEAN 1,352	MAX 13,600	MIN 104								

DELAWARE RIVER BASIN

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01423000 WEST BRANCH DELAWARE RIVER AT WALTON, N.Y.

LOCATION.--Lat 42°09'58", long 75°08'26", Delaware County, on left bank at west end of fairgrounds at Walton, 100 ft downstream from West Brook.

DRAINAGE AREA.--331 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 1,190.30 ft above mean sea level.

AVERAGE DISCHARGE.--22 years, 546 cfs (22.40 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,000 cfs Mar. 3 (gage height, 11.35 ft); minimum, 40 cfs Sept. 12 (gage height, 2.46 ft).
Period of record: Maximum discharge, 15,800 cfs Mar. 5, 1964 (gage height, 13.66 ft); minimum, 12 cfs Sept. 15, Nov. 22, 1964;
minimum gage height, 1.86 ft Nov. 22, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	104	800	820	210	300	1,080	700	1,460	2,680	111	64
2	115	152	600	890	200	3,000	1,270	764	1,110	1,550	128	58
3	111	238	450	1,020	200	6,000	1,090	1,020	890	1,510	357	56
4	108	186	420	782	190	1,800	932	3,040	842	1,460	321	55
5	104	169	420	500	190	800	812	3,290	764	1,090	191	52
6	99	154	500	430	190	640	770	2,140	636	968	147	50
7	100	229	2,500	420	190	580	746	1,680	794	848	138	48
8	102	265	4,500	430	190	600	650	1,740	591	842	321	47
9	95	220	3,210	485	200	540	609	3,090	577	782	220	47
10	156	220	3,570	650	200	500	609	2,830	586	627	160	47
11	380	238	4,520	968	200	500	645	2,120	477	568	134	44
12	247	226	3,220	987	210	500	824	1,690	409	477	118	42
13	193	226	2,350	1,040	240	878	1,990	1,370	381	427	111	44
14	169	213	1,700	1,800	500	920	2,280	1,170	354	413	118	54
15	156	210	1,710	900	400	627	1,810	1,060	324	364	155	73
16	150	213	1,620	600	280	622	2,140	1,020	618	318	142	62
17	144	210	1,330	540	220	4,380	3,390	1,240	537	291	111	54
18	136	198	1,220	560	180	2,480	3,150	1,420	385	258	104	80
19	128	195	1,040	540	160	1,460	2,820	1,040	430	243	97	65
20	123	210	956	500	150	1,130	4,210	932	395	240	88	62
21	121	218	896	500	150	1,230	3,810	920	437	237	80	58
22	115	247	782	500	150	3,640	2,640	758	1,340	209	76	75
23	111	210	540	758	150	4,280	2,960	636	2,280	186	72	96
24	113	180	600	600	160	2,040	2,130	555	2,020	172	68	70
25	142	160	1,030	380	160	1,480	1,750	485	1,760	160	70	65
26	146	160	764	300	160	1,210	1,430	423	1,500	215	97	64
27	134	180	902	260	160	994	1,220	374	1,250	160	80	61
28	123	220	1,060	250	170	848	1,020	339	1,020	140	115	59
29	117	300	890	240	200	842	884	309	824	128	96	59
30	108	1,070	820	220	-----	1,020	764	285	1,630	118	79	61
31	102	-----	800	220	-----	848	-----	914	-----	113	70	-----
TOTAL	4,272	7,021	45,720	19,090	5,960	46,689	50,435	39,354	26,621	17,794	4,175	1,772
MEAN	138	234	1,475	616	206	1,506	1,681	1,269	887	574	135	59.1
MAX	380	1,070	4,520	1,800	500	6,000	4,210	3,290	2,280	2,680	357	96
MIN	95	104	420	220	150	300	609	285	324	113	68	42
CFSM	.42	.71	4.46	1.86	.62	4.55	5.08	3.83	2.68	1.73	.41	.18
IN.	.48	.79	5.14	2.15	.67	5.25	5.67	4.42	2.99	2.00	.47	.20

CAL YR 1971 TOTAL 208,661 MEAN 572 MAX 4,790 MIN 41 CFSM 1.73 IN 23.45

WTR YR 1972 TOTAL 268,903 MEAN 735 MAX 6,000 MIN 42 CFSM 2.22 IN 30.22

PEAK DISCHARGE (BASE, 4,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	0400	9.53	6,220	3-23	0015	9.61	6,370
12-11	1200	8.62	4,760	4-20	1945	9.11	5,510
3-3	0300	11.35	9,000	5-4	1915	8.84	5,090
3-17	1545	9.18	5,620				

DELAWARE RIVER BASIN

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, N.Y.

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, on right bank at Stilesville, 1.4 miles downstream from Cannonsville Dam, 0.5 mile upstream from Cold Spring Creek and 2.0 miles northeast of Deposit.

DRAINAGE AREA.--456 sq mi.

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 992.23 ft above mean sea level (level 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.

EXTREMES.--Current year: Maximum discharge, 5,200 cfs Apr. 21 (gage height, 10.33 ft); minimum daily, 12 cfs Dec. 2-5, Jan. 6, 7. Period of record: Maximum discharge, 17,500 cfs Jan. 22, 1959 (gage height, 9.01 ft, site and datum then in use); minimum daily 7.2 cfs Feb. 8, 1966.

REMARKS.--Records fair, except those below 100 cfs, which are poor. Subsequent to October 1963, entire flow from 454 sq mi of drainage area controlled by Cannonsville Reservoir (see Delaware River basin, Reservoirs in). Part of flow diverted for New York City municipal supply (see Delaware River basin, Reservoirs in). 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. Records of water-quality data for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	399	21	17	14	16	1,500	1,210	809	2,380	85	1,410
2	335	35	12	16	14	28	1,690	1,150	1,180	2,400	35	1,610
3	530	23	12	14	13	39	1,720	1,230	1,240	2,140	36	1,490
4	393	23	12	14	13	271	1,570	1,880	1,230	2,060	33	1,580
5	500	84	12	13	13	988	1,370	3,480	1,180	1,830	33	1,600
6	510	50	15	12	13	1,060	1,220	3,530	1,080	1,600	33	1,660
7	560	27	27	12	13	890	1,160	3,000	1,060	1,420	33	1,690
8	473	23	26	13	13	820	1,120	2,610	978	1,330	33	1,320
9	450	23	19	13	13	690	1,070	2,970	898	1,210	30	1,780
10	275	83	19	14	13	458	1,060	3,450	872	1,090	30	1,800
11	33	315	24	15	13	295	1,040	3,320	774	978	432	1,830
12	26	435	21	14	13	225	1,120	2,860	685	859	563	1,900
13	26	500	18	16	18	215	1,490	2,420	546	728	98	1,680
14	26	450	17	17	18	300	2,490	2,060	420	580	355	1,850
15	26	435	17	14	16	305	2,750	1,850	234	464	331	1,580
16	26	42	17	13	16	234	2,870	1,680	190	375	48	1,810
17	26	210	17	13	15	1,130	3,640	1,610	279	309	240	1,680
18	26	88	16	15	15	2,640	4,240	1,650	300	259	924	1,650
19	26	320	16	15	14	2,280	4,240	1,610	304	194	1,060	1,300
20	26	435	16	15	13	1,760	4,520	1,470	385	154	992	1,600
21	96	560	15	14	13	1,420	5,040	1,380	438	126	1,030	1,580
22	76	310	15	14	13	1,990	4,330	1,290	751	108	1,150	1,660
23	62	165	34	15	13	4,190	4,020	1,110	1,530	83	1,390	1,600
24	27	465	16	15	14	3,940	3,530	964	2,220	52	1,490	1,520
25	26	351	15	14	14	3,220	2,950	846	2,420	36	1,800	1,440
26	163	101	16	39	14	2,620	2,480	728	2,400	31	1,650	1,530
27	450	33	16	15	14	2,160	2,100	645	2,160	30	1,180	1,610
28	500	26	17	15	14	1,840	1,800	571	1,880	924	1,180	1,630
29	729	29	16	14	39	1,570	1,570	513	1,610	898	1,120	1,570
30	932	29	18	14	-----	1,570	1,360	432	1,600	318	1,330	1,230
31	742	-----	18	14	-----	1,500	-----	375	-----	309	1,410	-----
TOTAL	8,127	6,069	550	468	431	40,664	71,060	53,894	31,653	25,275	20,154	48,190
MEAN	262	202	17.7	15.1	14.9	1,312	2,369	1,739	1,055	815	650	1,606
MAX	932	560	34	39	39	4,190	5,040	3,530	2,420	2,400	1,800	1,900
MIN	26	23	12	12	13	16	1,040	375	190	30	30	1,230
CAL YR 1971	TOTAL 195,124	MEAN 535	MAX 3,510	MIN 12								
WTR YR 1972	TOTAL 306,535	MEAN 838	MAX 5,040	MIN 12								

DELAWARE RIVER BASIN

123

01425675 OQUAGA CREEK NEAR NORTH SANFORD, N.Y.

LOCATION.--Lat 42°10'28", long 75°26'25", Broome County, on left bank 20 ft downstream from culvert on North Sanford Road, 0.2 miles upstream from outlet of Stilson Pond, 1.5 miles north of North Sanford and 4.1 miles upstream from Dry Brook.

DRAINAGE AREA.--4.71 sq mi.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,480 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, about 150 cfs Mar. 2 (gage height, 2.47 ft, backwater from ice); minimum discharge, 0.17 cfs Oct. 5, 6 (gage height, 0.24 ft).

Period of record: Maximum discharge, 176 cfs Nov. 8, 1969 (gage height, 2.24 ft); maximum gage height 2.71 ft Feb. 14, 1971 (backwater from ice); minimum discharge, 0.08 cfs Oct. 2, 1969.

REMARKS.--Records fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	.81	8.9	10	3.0	4.0	25	7.0	42	30	.65	.39
2	.30	2.0	7.0	9.4	3.0	70	26	10	19	17	1.0	.37
3	.26	2.2	5.8	8.0	2.9	35	22	84	12	15	3.5	.36
4	.26	1.9	5.0	7.0	2.8	21	18	63	14	14	3.0	.32
5	.26	1.5	4.5	6.2	2.8	19	13	48	10	9.3	1.3	.29
6	.24	1.4	10	5.6	2.8	30	11	32	7.6	8.9	1.0	.29
7	.44	4.0	40	5.4	2.8	20	10	23	6.4	7.3	1.5	.28
8	.44	3.2	35	5.6	2.8	12	10	22	5.2	5.8	6.4	.27
9	.44	2.2	25	5.8	2.9	7.6	9.7	39	5.5	4.8	2.6	.26
10	2.2	2.2	35	6.6	3.0	7.0	10	36	6.4	4.2	1.5	.25
11	2.8	2.4	50	9.0	3.2	6.8	12	19	4.8	3.8	1.3	.24
12	1.6	2.2	25	11	3.4	6.6	17	13	3.8	3.0	1.0	.27
13	1.3	2.2	19	13	6.0	6.6	47	8.9	3.2	2.5	.93	.70
14	1.1	2.0	17	24	30	6.5	46	6.7	3.0	2.3	.79	.93
15	.89	2.8	21	16	7.0	6.7	34	5.5	2.8	2.2	1.1	.79
16	.74	2.8	24	10	3.2	7.6	46	10	21	2.0	.79	.54
17	.74	2.6	16	8.0	2.9	46	70	14	10	2.2	.79	.45
18	.68	2.2	12	7.6	2.6	28	56	16	6.4	2.0	.86	.86
19	.68	2.4	10	7.6	2.4	21	48	12	5.5	2.5	.79	.65
20	.68	2.6	9.2	7.0	2.3	18	59	10	5.0	1.6	.72	.59
21	.68	2.8	8.4	6.8	2.2	21	37	7.9	6.1	1.3	.65	.41
22	.68	3.0	7.8	7.0	2.1	64	32	7.0	22	1.2	.59	.41
23	.62	2.8	8.0	7.8	2.0	47	32	7.0	50	1.0	.45	.37
24	.74	2.7	8.2	9.2	1.9	27	24	6.1	40	.93	.45	.34
25	.98	2.7	8.8	11	1.9	21	20	5.2	32	.93	.49	.41
26	1.8	2.6	10	9.0	2.0	15	15	4.5	27	.79	.62	.41
27	1.2	2.7	14	6.6	2.0	12	12	4.0	20	.79	.56	.41
28	1.1	2.8	22	5.4	2.1	12	10	3.5	14	.72	.70	.41
29	.98	4.0	15	4.2	2.2	14	8.5	3.0	10	.79	.60	.41
30	.89	15	13	3.5	-----	16	7.3	2.8	22	.54	.55	.41
31	.89	-----	12	3.2	-----	18	-----	19	-----	.54	.45	-----
TOTAL	26.96	86.71	506.6	256.5	110.2	646.4	787.5	549.1	436.7	149.93	37.63	13.09
MEAN	.87	2.89	16.3	8.27	3.80	20.9	26.3	17.7	14.6	4.84	1.21	.44
MAX	2.8	15	50	24	30	70	70	84	50	30	6.4	.93
MIN	.24	.81	4.5	3.2	1.9	4.0	7.3	2.8	2.8	.54	.45	.24
CFSM	.18	.61	3.46	1.76	.81	4.44	5.58	3.76	3.10	1.03	.26	.09
IN.	.21	.68	4.00	2.03	.87	5.11	6.22	4.34	3.45	1.18	.30	.10
CAL YR 1971	TOTAL	2,497.19	MEAN	6.84	MAX	80	MIN	.13	CFSM	1.45	IN	19.72
WTR YR 1972	TOTAL	3,607.32	MEAN	9.86	MAX	84	MIN	.24	CFSM	2.09	IN	28.49

PEAK DISCHARGE (BASE, 120 CFS).--March 2 (Time unknown) about 150 cfs (gage-height unknown).

DELAWARE RIVER BASIN

125

01426500 WEST BRANCH DELAWARE RIVER AT HALE EDDY, N.Y.

LOCATION.--Lat 42°00'11", long 75°23'02", Delaware County, on left bank at downstream side of bridge on County Highway 56 in Hale Eddy, 9 miles upstream from confluence of East and West Branches near Hancock.

DRAINAGE AREA.--593 sq mi.

PERIOD OF RECORD.--November 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 946.46 ft above mean sea level. Prior to Sept. 8, 1928, nonrecording gage.

EXTREMES.--Current year: Maximum discharge, 6,200 cfs Apr. 21 (gage height, 8.23 ft); minimum daily, 33 cfs Oct. 19, 20, 25.
Period of record: Maximum discharge, 28,900 cfs 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 cfs Oct. 20, 1963; minimum gage height, 1.03 ft Aug. 4, 1936.
Maximum discharge known, about 46,000 cfs Oct. 10, 1903 (gage height, 20.3 ft, from floodmarks).

REMARKS.--Records good except for winter period which are poor. Subsequent to October 1963, entire flow from 454 sq mi drainage area controlled by Cannonsville Reservoir (see Delaware River basin, Reservoirs in). 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. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Five discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 871: 1916.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	432	316	350	180	250	1,950	1,440	1,640	3,030	182	1,400
2	189	85	200	260	170	1,000	2,230	1,410	1,630	2,900	71	1,580
3	475	79	180	230	170	1,500	2,170	1,720	1,570	2,550	157	1,490
4	351	59	160	200	170	1,000	1,920	3,270	1,560	2,410	174	1,530
5	414	81	150	180	160	900	1,670	4,850	1,470	2,090	90	1,590
6	410	81	300	170	160	750	1,490	4,360	1,320	1,830	69	1,640
7	475	83	1,400	160	150	500	1,410	3,660	1,330	1,600	66	1,670
8	428	85	2,180	170	140	430	1,320	3,190	1,180	1,490	96	1,410
9	375	65	1,150	200	140	380	1,270	3,910	1,080	1,340	77	1,640
10	363	65	1,160	190	130	330	1,250	4,470	1,060	1,220	62	1,780
11	118	320	1,800	200	130	300	1,280	4,090	945	1,090	355	1,810
12	63	414	1,220	250	140	290	1,390	3,490	837	978	595	1,870
13	50	515	809	250	250	290	2,380	2,940	693	855	220	1,710
14	43	428	570	600	500	300	3,450	2,500	555	721	286	1,810
15	39	525	595	300	270	320	3,490	2,220	355	590	414	1,610
16	37	135	660	240	220	400	3,700	2,010	585	470	86	1,780
17	35	217	580	220	200	2,200	5,000	1,880	530	393	162	1,720
18	35	140	450	220	180	3,280	5,280	1,900	480	343	855	1,680
19	33	301	350	220	160	2,760	5,060	1,830	475	279	1,060	1,350
20	33	397	280	200	150	2,140	5,470	1,690	535	226	1,010	1,560
21	66	590	260	190	140	1,880	6,010	1,590	590	185	1,040	1,590
22	69	432	240	190	140	3,070	5,170	1,460	1,190	154	1,150	1,650
23	56	174	220	190	140	5,170	4,810	1,270	2,930	130	1,340	1,600
24	43	442	210	190	140	4,480	4,210	1,120	3,590	94	1,470	1,520
25	33	455	220	280	140	3,590	3,570	991	3,360	72	1,760	1,460
26	90	165	230	240	140	2,910	3,020	861	3,110	63	1,650	1,520
27	371	113	331	210	140	2,370	2,540	765	2,700	60	1,250	1,630
28	475	96	451	220	150	1,990	2,150	682	2,270	721	1,190	1,640
29	560	128	393	220	180	1,770	1,860	610	1,890	952	1,120	1,600
30	770	423	442	220	-----	1,840	1,620	530	2,180	432	1,290	1,290
31	682	-----	535	200	-----	1,810	-----	710	-----	331	1,390	-----
TOTAL	7,226	7,525	18,042	7,160	5,080	50,200	88,140	67,419	43,640	29,599	20,737	48,130
MEAN	233	251	582	231	175	1,619	2,938	2,175	1,455	955	669	1,604
MAX	770	590	2,180	600	500	5,170	6,010	4,850	3,590	3,030	1,760	1,870
MIN	33	59	150	160	130	250	1,250	530	355	60	62	1,290
CAL YR 1971	TOTAL 253,461	MEAN 694	MAX 4,350	MIN 33								
WTR YR 1972	TOTAL 392,898	MEAN 1,073	MAX 6,010	MIN 33								

DELAWARE RIVER BASIN

01427405 DELAWARE RIVER NEAR CALLICOON, N.Y.

LOCATION.--Lat 41°46'14", long 75°05'03", Sullivan County, on left bank 10 ft west of county road, 500 ft downstream from Hollister Creek, 1.3 miles northwest of Callicoon, 1.4 miles above Callicoon Creek.

DRAINAGE AREA.--1,706 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 743.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 22,200 cfs Apr. 21 (gage height, 8.80 ft); maximum gage height, 10.74 Mar. 3, (ice jam); minimum discharge, 380 cfs Oct. 2, 3 (gage-height 1.70 ft).

Period of record: Maximum discharge, 22,200 cfs Apr. 21, 1972 (gage height, 8.80 ft); maximum gage height, 14.22 ft Feb. 4, 1970 (ice jam); minimum daily discharge, 280 cfs Feb. 4, 5, 1971.

REMARKS.--Records fair except those for winter periods, which are poor. Subsequent to September 1954, entire flow from 371 sq mi of drainage area controlled by Pepacton Reservoir (see Delaware River basin, Reservoirs in), and subsequent to October 1963, entire flow from 454 sq mi of drainage area controlled by Cannonsville Reservoir (see Delaware River basin, Reservoirs in). 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. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Eight discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WRD New York 1971: 1969, 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	563	950	2,730	2,600	970	1,700	4,570	4,620	7,820	10,500	692	1,490
2	385	880	2,140	2,200	930	3,000	5,650	4,440	6,690	9,130	700	1,560
3	640	920	1,720	1,900	900	8,000	5,510	4,620	5,830	7,520	668	1,650
4	820	990	1,830	1,700	920	5,400	4,930	9,280	4,960	6,660	996	1,520
5	765	801	1,370	1,500	900	3,800	4,230	14,500	4,570	5,600	941	1,660
6	880	738	1,450	1,400	880	3,000	3,860	11,500	3,860	4,750	676	1,740
7	940	738	6,340	1,300	840	2,600	3,720	9,310	3,830	3,970	524	1,690
8	960	910	13,400	1,250	800	2,200	3,350	7,720	3,620	3,790	545	1,740
9	850	880	8,810	1,190	780	1,800	3,090	7,880	3,070	3,640	758	1,320
10	940	792	7,030	1,480	740	1,700	3,010	9,380	2,880	3,110	588	1,800
11	1,130	830	10,200	1,620	720	1,600	3,010	8,700	2,600	2,770	552	1,780
12	1,070	1,030	10,200	1,960	720	1,700	3,310	7,550	2,240	2,300	732	1,800
13	756	1,170	6,970	1,750	900	1,800	5,200	6,630	2,000	2,000	840	1,800
14	640	1,150	5,030	3,690	2,000	1,900	9,910	5,650	1,770	1,700	620	1,700
15	584	1,180	4,280	2,500	1,600	1,700	9,600	5,040	1,510	1,500	724	1,740
16	535	1,240	4,700	1,900	1,300	2,030	9,500	4,930	1,450	1,350	724	1,630
17	514	1,010	5,090	1,600	1,100	6,330	15,200	4,990	1,780	1,250	517	1,750
18	472	1,260	4,550	1,900	1,000	9,340	16,400	4,620	1,480	1,150	552	1,700
19	444	1,170	3,640	1,600	960	7,010	15,100	4,370	1,420	1,100	1,220	1,590
20	437	1,250	3,180	1,500	920	5,430	16,500	3,990	1,480	1,000	1,260	1,400
21	420	1,240	2,770	1,450	880	4,670	20,200	4,040	1,620	910	1,150	1,580
22	437	1,430	2,410	1,400	840	7,210	15,700	3,580	4,260	830	1,290	1,660
23	472	1,250	1,880	1,400	860	14,000	14,800	3,030	12,600	749	1,330	1,610
24	507	920	1,700	1,350	900	10,300	13,000	2,640	16,000	684	1,610	1,510
25	493	900	1,800	1,500	900	7,680	11,100	2,300	12,700	604	1,750	1,420
26	472	1,050	1,900	1,600	880	6,150	9,270	1,940	11,200	475	1,800	1,370
27	563	1,000	2,100	1,250	880	5,070	7,780	1,660	9,050	524	1,810	1,590
28	890	970	2,350	1,150	900	4,300	6,630	1,520	7,360	489	1,660	1,590
29	910	1,000	2,690	1,100	1,100	3,900	5,740	1,370	5,910	1,290	1,450	1,560
30	1,190	2,100	2,690	1,050	-----	4,320	5,120	1,240	7,050	1,200	1,360	1,440
31	1,290	-----	3,510	1,000	-----	4,150	-----	2,700	-----	700	1,480	-----
TOTAL	21,969	31,749	130,460	50,790	28,020	143,790	254,990	165,740	152,610	83,245	31,519	48,390
MEAN	709	1,058	4,208	1,638	966	4,638	8,500	5,346	5,087	2,685	1,017	1,613
MAX	1,290	2,100	13,400	3,690	2,000	14,000	20,200	14,500	16,000	10,500	1,810	1,800
MIN	385	738	1,370	1,000	720	1,600	3,010	1,240	1,420	475	517	1,320
CAL YR 1971	TOTAL	838,198	MEAN	2,296	MAX	15,200	MIN	280				
WTR YR 1972	TOTAL	1,143,272	MEAN	3,124	MAX	20,200	MIN	385				

DELAWARE RIVER BASIN

127

01427500 CALLICOON CREEK AT CALLICOON, N.Y.

LOCATION.--Lat 41°45'39", long 75°02'55", Sullivan County, on right bank 0.7 mile southeast of Callicoon, 0.9 mile upstream from mouth, and 1.0 mile southwest of Hortonville.

DRAINAGE AREA.--111 sq mi.

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Concrete control since July 1944. Datum of gage is 759.84 ft above mean sea level.

AVERAGE DISCHARGE.--32 years, 169 cfs (20.68 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,030 cfs June 22 (gage height, 5.09 ft); minimum, 13 cfs Sept. 13 (gage height, 1.26 ft).
Period of record: Maximum discharge, 16,000 cfs Aug. 17, 1947 (gage height, 9.68 ft), from rating curve extended above 5,100 cfs on basis of slope-area measurement of peak flow; minimum, 4.0 cfs July 26, 27, 1965.

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation by small pond above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	26	260	269	96	189	353	183	970	479	45	25
2	20	56	190	261	94	952	385	195	513	321	55	25
3	18	63	160	257	90	1,180	326	299	415	249	153	24
4	18	49	140	214	88	455	281	835	317	228	133	21
5	26	43	140	170	84	326	249	608	326	189	73	18
6	24	40	195	140	82	245	240	405	299	174	53	17
7	21	56	898	130	82	200	230	326	257	159	58	17
8	17	58	1,160	130	82	170	200	281	198	174	273	17
9	17	60	670	130	82	150	200	299	186	153	114	17
10	61	56	799	150	84	140	210	335	290	138	76	15
11	80	60	1,210	224	90	130	235	265	204	133	60	14
12	95	56	766	253	96	130	273	217	162	118	51	14
13	90	53	534	303	110	140	774	198	143	107	46	17
14	74	49	395	570	400	170	726	189	133	107	43	24
15	49	56	410	294	280	170	527	195	121	99	58	20
16	33	67	527	207	200	200	686	204	135	86	49	17
17	29	61	420	180	140	1,800	1,130	238	133	95	43	17
18	27	58	344	160	120	1,070	686	189	112	93	43	45
19	31	56	273	150	110	578	534	159	159	174	40	74
20	33	56	249	140	96	415	997	165	148	116	37	33
21	31	61	235	140	90	461	844	195	348	86	34	24
22	30	80	217	140	86	1,270	654	156	1,210	73	31	29
23	27	71	186	140	84	1,040	726	133	1,960	61	29	26
24	27	65	170	140	80	506	513	123	1,230	53	29	21
25	34	65	170	170	78	357	405	107	880	49	27	23
26	36	165	186	150	78	299	335	93	615	45	26	23
27	33	103	228	140	80	253	281	84	449	42	48	53
28	30	110	242	130	84	228	242	76	348	39	40	34
29	30	153	217	120	90	261	217	74	281	36	34	26
30	27	449	285	110	-----	312	195	69	513	34	30	29
31	26	-----	400	100	-----	294	-----	907	-----	37	26	-----
TOTAL	1,143	2,401	12,276	5,812	3,256	14,091	13,654	7,802	13,055	3,947	1,857	759
MEAN	36.9	80.0	396	187	112	455	455	252	435	127	59.9	25.3
MAX	95	449	1,210	570	400	1,800	1,130	907	1,960	479	273	74
MIN	17	26	140	100	78	130	195	69	112	34	26	14
CFSM	.33	.72	3.57	1.68	1.01	4.10	4.10	2.27	3.92	1.14	.54	.23
IN.	.38	.80	4.11	1.95	1.09	4.72	4.58	2.61	4.38	1.32	.62	.25

CAL YR 1971 TOTAL 59,916.6 MEAN 164 MAX 1,210 MIN 9.8 CFSM 1.48 IN 20.08
WTR YR 1972 TOTAL 80,053.0 MEAN 219 MAX 1,960 MIN 14 CFSM 1.97 IN 26.83

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-17	2015	4.68	2,400	6-22	2230	5.09	3,030
3-22	2030	4.86	2,670				

DELAWARE RIVER BASIN

01428000 TENMILE RIVER AT TUSTEN, N.Y.

LOCATION.--Lat 41°33'51", long 75°00'56", Sullivan County, on left bank 0.5 mile downstream from East Branch Tenmile River, 0.8 mile upstream from mouth, and 0.6 mile northeast of Tusten.

DRAINAGE AREA.--45.0 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 750 ft (from topographic map).

AVERAGE DISCHARGE.--26 years, 63.8 cfs (19.25 inches per year).

EXTREMES.--Current year: Maximum discharge, 804 cfs June 23 (gage height, 3.84 ft); minimum, 4.2 cfs Sept. 8 (gage height, 1.12 ft).
Period of record: Maximum discharge, 6,850 cfs Aug. 19, 1955 (gage height, 9.08 ft), from rating curve extended above 1,800 cfs; minimum daily, 1.1 cfs Sept. 24, 1962, Sept. 25, Oct. 29, Nov. 8-16, 1964.

REMARKS.--Records good except those for winter periods, which are fair. Occasional regulation by Luxton Lake.

COOPERATION.--Twelve discharge measurements supplied by the Board of Water Supply, City of New York.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	130	164	42	47	114	81	620	260	19	7.9
2	9.8	14	100	141	42	164	125	79	332	191	19	7.5
3	9.3	30	80	150	41	463	121	92	225	143	18	6.8
4	9.3	27	76	128	41	266	102	199	164	147	20	6.2
5	8.7	24	58	112	40	150	90	301	145	121	19	5.5
6	8.2	20	69	90	40	110	90	188	121	106	17	4.8
7	7.5	20	209	86	40	98	100	141	102	96	16	4.4
8	7.2	22	502	79	40	84	90	117	81	96	18	4.2
9	7.2	22	353	69	40	74	85	110	79	98	17	4.6
10	18	22	294	74	40	66	81	134	191	90	16	4.8
11	37	22	419	83	40	60	83	125	143	88	14	5.1
12	32	21	415	106	42	60	92	100	100	72	13	5.5
13	27	20	294	106	50	66	181	81	81	62	12	6.2
14	23	18	225	199	140	60	329	77	72	55	12	6.8
15	20	20	194	159	128	66	217	79	64	48	15	6.8
16	18	22	212	120	121	81	207	88	60	49	17	6.5
17	16	22	220	92	85	374	540	147	65	83	15	6.5
18	14	20	188	78	67	600	336	119	55	57	14	7.9
19	14	20	145	70	58	311	239	92	74	44	13	8.7
20	12	19	128	66	60	199	275	85	81	44	12	8.2
21	13	20	117	62	52	164	392	106	83	39	11	7.5
22	12	20	104	58	49	301	275	92	257	33	10	7.5
23	12	20	83	56	46	560	301	72	645	30	9.8	7.2
24	13	19	81	56	44	284	245	60	610	27	9.3	6.8
25	14	102	85	60	43	183	199	52	385	24	8.7	6.5
26	14	29	81	52	42	130	168	44	322	26	8.2	6.5
27	13	31	83	50	42	110	145	39	248	25	8.2	6.5
28	11	32	86	47	37	104	119	36	188	22	10	6.2
29	12	42	90	46	38	96	102	32	145	18	9.3	5.8
30	11	171	110	45	-----	110	86	30	171	18	9.3	6.2
31	11	-----	217	44	-----	114	-----	353	-----	18	8.7	-----
TOTAL	445.2	902	5,448	2,748	1,590	5,555	5,529	3,351	5,909	2,230	418.5	191.6
MEAN	14.4	30.1	176	88.6	54.8	179	184	108	197	71.9	13.5	6.39
MAX	37	171	502	199	140	600	540	353	645	260	20	8.7
MIN	7.2	11	58	44	37	47	81	30	55	18	8.2	4.2
CFSM	.32	.67	3.91	1.97	1.22	3.98	4.09	2.40	4.38	1.60	.30	.14
IN.	.37	.75	4.50	2.27	1.31	4.59	4.57	2.77	4.88	1.84	.35	.16
CAL YR 1971	TOTAL 24,388.3	MEAN 66.8	MAX 502	MIN 2.6	CFSM 1.48	IN 20.16						
WTR YR 1972	TOTAL 34,317.3	MEAN 93.8	MAX 645	MIN 4.2	CFSM 2.08	IN 28.37						

PEAK DISCHARGE (BASE, 930 CFS).--No peak above base.

DELAWARE RIVER BASIN

129

01428500 DELAWARE RIVER ABOVE LACKAWAXEN RIVER NEAR BARRYVILLE, N.Y.

LOCATION.--Lat 41°30'32", long 74°59'13", Sullivan County, on left bank 1.6 miles upstream from Lackawaxen River and 4.6 miles northwest of Barryville.

DRAINAGE AREA.--2,023 sq mi.

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 600.22 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 33,900 cfs Mar. 3 (gage height, 11.91 ft); minimum, 410 cfs Oct. 3 (gage height, 1.85 ft); minimum daily, 439 cfs Oct. 3.

Period of record: Maximum discharge, 130,000 cfs Aug. 19, 1955 (gage height, 26.40 ft from floodmarks in gage house), from rating curve extended above 55,000 cfs on basis of slope-area measurement at gage height 23.19 ft; minimum, 122 cfs Sept. 5, 1953 (gage height, 1.11 ft); minimum daily, 126 cfs Sept. 4, 1953.

REMARKS.--Records good except those for winter period, which are poor. Subsequent to September 1954, entire flow from 371 sq mi of drainage area controlled by Pepacton Reservoir (see Delaware River basin, Reservoirs in), and subsequent to October 1963, entire flow from 454 sq mi of drainage area controlled by Cannonsville Reservoir (see Delaware River basin, Reservoirs in). 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. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Seven discharge measurements supplied by the Board of Water Supply, City of New York.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	864	1,370	3,710	3,880	1,400	1,200	5,430	5,200	10,800	13,500	848	1,730
2	572	1,210	2,400	3,500	1,300	3,000	6,760	4,920	9,400	11,400	848	1,730
3	439	1,120	2,000	3,400	1,300	14,000	6,850	5,050	7,690	9,100	916	1,750
4	1,020	1,330	1,700	2,800	1,300	6,000	6,050	10,000	6,210	7,860	1,060	1,750
5	925	1,110	1,500	2,300	1,300	4,800	5,210	18,200	5,690	6,660	1,280	1,730
6	961	953	1,400	1,900	1,200	4,000	4,730	14,300	4,810	5,730	970	1,750
7	1,020	963	5,000	1,700	1,300	3,400	4,600	11,300	4,270	4,750	744	1,760
8	1,110	1,050	17,600	1,600	1,300	2,800	4,140	9,130	4,240	4,190	1,000	1,760
9	1,060	1,200	12,400	1,500	1,200	2,400	3,770	8,830	3,630	4,400	970	1,610
10	1,060	1,060	9,520	1,500	1,200	2,200	3,640	10,900	4,100	3,710	925	1,210
11	1,490	1,020	13,100	2,330	1,100	2,200	3,600	10,400	3,390	3,290	685	1,230
12	1,500	1,160	14,200	2,710	1,000	2,200	3,920	8,980	2,840	2,850	638	1,250
13	1,150	1,330	9,600	2,540	1,000	2,400	6,010	7,600	2,490	2,470	1,020	2,130
14	907	1,470	6,830	4,460	1,500	2,400	12,700	6,490	2,200	2,220	898	1,990
15	768	1,360	5,540	2,300	3,140	2,300	12,100	5,950	1,940	2,100	880	2,120
16	685	1,590	6,120	1,700	2,000	2,600	11,600	5,810	1,730	1,920	1,020	1,900
17	614	1,310	6,600	1,500	1,500	8,920	20,200	5,930	2,100	1,970	752	2,050
18	572	1,360	5,850	2,230	1,400	14,400	21,000	5,460	1,900	1,600	620	2,060
19	536	1,430	4,620	2,400	1,200	10,200	18,800	5,020	1,950	1,510	1,080	2,160
20	514	1,510	3,950	2,000	1,100	7,420	19,900	4,580	1,950	1,480	1,450	1,710
21	492	1,370	3,500	1,900	1,100	6,100	25,800	4,790	1,990	1,340	1,390	1,840
22	475	1,630	3,130	1,800	1,100	8,640	19,800	4,230	5,100	1,170	1,370	1,950
23	508	1,730	2,450	1,800	1,100	19,100	18,700	3,650	18,800	1,030	1,490	1,980
24	566	1,230	2,100	1,800	1,100	13,900	16,100	3,130	23,600	903	1,660	1,920
25	632	1,250	2,100	2,000	1,100	9,930	13,500	2,760	17,600	803	1,760	1,810
26	602	1,300	2,300	2,000	1,100	7,750	11,100	2,430	14,600	744	1,770	1,720
27	584	1,400	2,600	1,800	1,100	6,340	9,330	2,170	11,600	664	1,790	1,890
28	767	1,400	2,850	1,600	1,100	5,270	7,800	1,970	9,170	626	1,810	1,930
29	1,120	1,380	3,230	1,500	1,100	4,690	6,670	1,810	7,320	970	1,770	1,860
30	1,120	2,530	3,290	1,500	-----	5,200	5,830	1,650	7,910	1,410	1,600	1,820
31	1,460	-----	4,880	1,400	-----	5,150	-----	5,010	-----	1,020	1,680	-----
TOTAL	26,093	40,126	166,070	67,350	37,640	190,910	315,640	197,650	201,020	103,390	36,694	54,100
MEAN	842	1,338	5,357	2,173	1,298	6,158	10,520	6,376	6,701	3,335	1,184	1,803
MAX	1,500	2,530	17,600	4,460	3,140	19,100	25,800	18,200	23,600	13,500	1,810	2,160
MIN	439	953	1,400	1,400	1,000	1,200	3,600	1,650	1,730	626	620	1,210
CAL YR 1971	TOTAL	993,844	MEAN	2,723	MAX	17,600	MIN	360				
WTR YR 1972	TOTAL	1,436,683	MEAN	3,925	MAX	25,800	MIN	439				

DELAWARE RIVER BASIN

01431500 Lackawaxen River at Hawley, Pa.

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, on left bank at Church Street Bridge in Hawley, 700 ft upstream from Wallenpaupack Creek, and 3,000 ft downstream from Middle Creek.

DRAINAGE AREA.--290 sq mi.

PERIOD OF RECORD.--July 1908 to September 1917, August 1938 to current year. Monthly discharge only for some periods, published in WSP 1302. October 1917 to December 1919 (gage heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania.

GAGE.--Nonrecording gage, water-stage recorder, and crest-stage gage. Datum of gage is 869.00 ft above mean sea level. Prior to 1938, nonrecording gage at same site and datum. Aug. 10, 1938 to Aug. 19, 1955, water-stage recorder, and Aug. 20, 1955 to Feb. 13, 1956, nonrecording gage at site 1,000 ft downstream at same datum.

AVERAGE DISCHARGE.--43 years (1908-17, 1938-72), 468 cfs (21.92 inches per year), adjusted for storage since October 1959.

EXTREMES.--Current year: Maximum discharge, about 9,500 cfs June 23; maximum gage height, 10.67 ft June 23, backwater from Wallenpaupack Creek; minimum discharge observed, 59 cfs Sept. 12, 13; minimum gage height observed, 1.47 ft Oct. 9.

Period of record: Maximum discharge, 51,900 cfs Aug 19, 1955 (gage height, 24.8 ft, at present site, 20.6 ft at former site, from floodmark), from rating curve extended above 12,000 cfs on basis of slope-area measurement at gage height, 24.2 ft, at present site, 20.1 ft at former site; minimum daily, 8 cfs Sept. 8, 1909.

Flood in March 1936 reached a stage of 19.1 ft, at present site, 13.9 ft, at former site, from floodmarks (discharge, 27,600 cfs).

REMARKS.--Records good except those for winter periods, which are fair. Regulation by Prompton Lake and, at high flow, by General Edgar Jadwin Lake located 14.9 and 13.0 miles upstream, respectively. Water-quality records for the current year are published in Part 2 of Pennsylvania Report.

REVISIONS (WATER YEARS).--WSP 951: 1938-41. WSP 1302: 1909-17. WSP 1432: 1942. WSP 1502: 1956.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	122	855	918	270	260	894	457	2,600	3,700	116	76
2	101	196	720	795	260	1,910	1,080	472	1,930	2,060	121	71
3	94	313	585	902	250	4,010	1,050	563	1,230	1,280	183	69
4	89	267	442	728	270	2,430	902	1,730	964	1,020	199	68
5	85	229	366	637	260	1,560	743	2,900	1,040	812	163	65
6	83	200	476	502	240	998	706	1,730	767	728	133	62
7	89	214	2,170	500	230	773	840	1,180	667	595	125	61
8	89	248	4,500	420	220	720	743	925	501	506	344	61
9	83	233	3,260	400	210	637	664	873	506	590	242	65
10	157	218	2,720	420	190	514	650	1,200	1,660	595	175	64
11	371	214	3,880	573	190	431	631	1,060	902	526	133	61
12	287	210	3,440	728	180	474	706	800	584	413	116	59
13	229	189	2,250	657	180	735	1,470	654	482	355	106	69
14	189	176	1,620	1,190	300	818	2,600	577	426	340	99	91
15	166	172	1,430	840	410	618	1,870	594	371	314	352	85
16	147	236	1,790	520	480	573	1,880	734	367	394	245	76
17	135	225	1,780	450	420	3,400	4,510	887	396	396	183	70
18	122	210	1,300	420	370	4,090	2,840	662	344	286	156	101
19	111	200	910	442	340	2,370	1,850	552	501	257	144	117
20	106	196	832	431	300	1,580	1,700	547	435	230	131	98
21	101	193	750	400	280	1,360	1,990	853	489	204	106	83
22	97	207	678	371	270	2,010	1,520	689	1,980	188	96	83
23	89	203	519	357	260	3,190	1,760	546	8,000	168	88	88
24	99	186	491	555	250	2,060	1,480	451	6,400	148	82	80
25	138	307	561	671	230	1,330	1,180	382	3,200	138	86	80
26	207	637	519	540	230	990	954	328	2,000	140	91	82
27	203	485	561	440	230	825	818	298	1,520	136	121	89
28	179	317	555	370	210	692	657	266	1,100	127	131	110
29	160	317	549	330	220	650	575	245	880	116	110	98
30	144	744	674	310	-----	803	503	254	2,000	106	96	94
31	133	-----	1,330	290	-----	825	-----	2,590	-----	104	84	-----
TOTAL	4,392	7,864	42,513	17,107	7,750	43,636	39,766	25,999	44,242	16,972	4,557	2,376
MEAN	142	262	1,371	552	267	1,408	1,326	839	1,475	547	147	79.2
MAX	371	744	4,500	1,190	480	4,090	4,510	2,900	8,000	3,700	352	117
MIN	83	122	366	290	180	260	503	245	344	104	82	59
MEAN#	142	266	1,374	547	266	1,414	1,323	844	1,489	523	146	79.9
CFSM#	.49	.92	4.74	1.89	.92	4.88	4.56	2.91	5.13	1.80	.50	.28
IN.#	.56	1.03	5.46	2.18	.99	5.63	5.09	3.36	5.72	2.08	.58	.31
CAL YR 1971	TOTAL 190,826	MEAN 523	MAX 4,500	MIN 34	MEAN# 524	CFSM# 1.81	IN.# 24.49					
WTR YR 1972	TOTAL 257,174	MEAN 703	MAX 8,000	MIN 59	MEAN# 703	CFSM# 2.42	IN.# 32.99					

NOTE.--Backwater from Wallenpaupack Creek May 31 to June 2, June 23, 26, 30, July 1.

Adjusted for change in contents in Prompton and General Edgar Jadwin Lakes.

DELAWARE RIVER BASIN

131

01432000 Wallenpaupack Creek at Wilsonville, Pa.

LOCATION.--At hydroelectric plant of Pennsylvania Power and Light Co., at lower end of penstock, at Kimble, 3 miles east of dam which is at lat 41°27'33", long 75°11'08", Pike County, at Wilsonville, 1.2 miles south of Hawley.

DRAINAGE AREA.--228 sq mi.

PERIOD OF RECORD.--October 1909 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Daily discharge determined from flow through turbines, computed from records of generator output, and flow over roller gates, computed on basis of head on gates. Prior to Nov. 3, 1925, nonrecording gage at site 1,000 ft downstream from dam at datum 1,146.78 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--63 years, 356 cfs (unadjusted).

EXTREMES.--Period of record: Maximum daily discharge, 4,840 cfs Mar. 29, 1914; no flow at times each year subsequent to Nov. 3, 1925.

REMARKS.--Records good. No flow over spillway during year. Flow regulated by Lake Wallenpaupack (see Pennsylvania Report).

COOPERATION.--Records of generator load, operation of powerplant, net operating head, and water-surface elevations in lake furnished by Pennsylvania Power and Light Co., in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1918, 1923-24. WSP 1432: 1920-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	791	517	33	0	660	590	0	233	2,710	1,670	803	0
2	789	512	13	0	624	595	0	347	1,820	227	798	0
3	0	542	85	683	698	676	424	337	1,820	780	785	0
4	493	527	0	660	1,040	0	489	1,080	1,820	0	807	0
5	526	531	0	607	208	0	476	1,770	1,820	1,180	0	0
6	497	505	18	648	0	872	438	373	1,820	1,510	0	0
7	628	517	0	612	567	609	479	0	1,340	790	785	0
8	661	229	23	0	693	596	0	787	787	12	786	0
9	631	118	0	0	642	712	0	811	1,110	0	801	0
10	543	42	1.6	645	680	785	539	806	215	803	805	0
11	677	34	1.6	631	554	0	594	461	0	779	805	1.6
12	803	0	0	675	0	1.6	554	460	807	1,130	0	0
13	793	0	0	771	0	781	579	0	700	1,510	0	550
14	789	8.0	714	843	582	826	578	0	339	851	801	615
15	787	230	752	23	610	810	0	470	338	14	0	32
16	785	15	4.9	0	573	801	0	605	351	3.1	0	0
17	783	0	241	995	558	805	833	790	0	856	0	0
18	793	0	0	728	594	777	1,600	1,130	190	952	700	1.6
19	791	0	4.8	740	0	0	1,590	834	1,330	948	0	0
20	789	1.9	177	804	0	1,010	1,580	0	1,720	960	0	0
21	787	0	53	724	559	1,610	1,610	0	1,790	955	399	0
22	781	466	0	0	510	1,640	1.6	430	1,820	3.2	205	0
23	460	427	246	0	618	1,630	0	444	2,810	24	574	0
24	0	398	0	570	576	1,640	837	473	4,350	821	606	0
25	253	0	0	570	570	1,610	907	826	3,780	824	936	0
26	561	0	0	585	0	1,380	1,140	226	2,360	812	180	494
27	519	0	0	599	0	1,650	1,180	0	1,820	797	0	285
28	577	0	450	562	535	1,640	976	0	1,820	812	0	0
29	516	32	675	0	610	735	0	0	2,990	0	26	0
30	0	12	622	0	-----	772	0	0	2,600	0	0	0
31	0	-----	633	772	-----	0	-----	1,430	-----	844	0	-----
TOTAL	17,803	5,663.9	4,747.9	14,447	13,261	25,553.6	17,404.6	15,123	47,177	20,867.3	11,602	1,979.2
MEAN	574	189	153	466	457	824	580	488	1,573	673	374	66.0
MAX	803	542	752	995	1,040	1,650	1,610	1,770	4,350	1,670	936	615
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-
CAL YR 1971	TOTAL	138,140.60	MEAN	378	MAX	1,810	MIN	0	CFSM	-	IN.	-
WTR YR 1972	TOTAL	195,629.50	MEAN	535	MAX	4,350	MIN	0	CFSM	-	IN.	-

DELAWARE RIVER BASIN

01433500 MONGAUP RIVER NEAR MONGAUP, N.Y.

LOCATION.--Lat 41°27'41", long 74°45'33", Sullivan County, on right bank 300 ft downstream from Rio hydroelectric plant of Orange and Rockland Utilities, Inc., 0.5 mile downstream from Falls Bush Kill, and 2.8 miles upstream from mouth and Mongaup.

DRAINAGE AREA.--202 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 625.05 ft above mean sea level (datum of Orange and Rockland Utilities, Inc.). 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.

AVERAGE DISCHARGE.--33 years, 321 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 2,500 cfs June 24 (gage height, 6.93 ft); minimum daily, 34 cfs Nov. 21.
Period of record: Maximum discharge, 15,900 cfs Aug. 19, 1955; minimum daily, 6 cfs Oct. 1, 1939.

REMARKS.--Records good. Entire flow completely regulated by Rio hydroelectric plant except for runoff from about 7 sq mi of drainage area below Rio Dam of Orange and Rockland Utilities, Inc., and during periods of spill from Rio Reservoir. Flow also regulated by storage in Cliff Lake, Swinging Bridge, and Toronto Reservoirs (see Delaware River basin, Reservoirs in) and small reservoirs above station.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	117	135	448	443	393	505	624	2,250	1,630	239	45
2	271	335	299	413	233	410	533	624	1,530	1,280	370	52
3	355	163	299	415	375	425	568	515	949	958	425	49
4	413	122	116	564	330	413	613	683	838	808	413	49
5	440	116	107	617	297	410	610	599	873	783	568	40
6	471	35	398	603	410	408	606	440	812	751	589	71
7	435	40	624	617	400	405	655	410	796	767	596	36
8	445	191	645	348	398	405	645	408	783	683	603	38
9	108	252	662	373	395	403	634	410	788	731	610	36
10	227	400	783	249	395	403	634	465	830	727	613	36
11	410	128	842	317	395	400	627	624	796	599	515	35
12	512	163	1,010	526	265	403	634	631	788	716	631	38
13	453	66	1,400	522	315	405	669	620	779	575	575	179
14	474	35	1,170	529	395	403	709	620	775	220	536	88
15	561	273	1,160	415	395	403	673	631	771	237	610	42
16	178	267	1,180	413	395	403	683	645	767	287	335	37
17	135	195	1,150	599	395	484	860	627	450	305	229	36
18	383	190	1,080	599	361	909	869	430	763	474	125	132
19	287	96	1,010	596	393	860	821	370	788	645	35	37
20	423	169	834	599	393	763	940	215	771	603	35	35
21	303	34	638	494	395	712	1,560	79	788	620	69	45
22	172	108	641	317	393	904	1,440	263	842	390	35	87
23	81	91	755	410	393	1,150	1,120	418	985	480	70	35
24	140	35	428	596	393	1,280	821	395	2,360	373	139	37
25	149	223	410	603	393	1,150	709	403	2,090	522	167	275
26	136	233	410	561	393	864	891	438	1,820	418	38	293
27	86	271	596	578	390	731	723	400	1,200	143	40	373
28	217	281	620	487	390	673	662	45	877	38	40	82
29	116	192	617	405	390	557	638	43	792	213	152	55
30	76	241	620	453	-----	498	624	281	900	129	178	41
31	133	-----	610	323	-----	512	-----	860	-----	321	103	-----
TOTAL	8,679	5,062	21,249	14,989	10,908	18,539	22,676	14,216	30,551	17,426	9,683	2,434
MEAN	280	169	685	484	376	598	756	459	1,018	562	312	81.1
MAX	561	400	1,400	617	443	1,280	1,560	860	2,360	1,630	631	373
MIN	76	34	107	249	233	393	505	43	450	38	35	35
CAL YR 1971	TOTAL 128,203	MEAN 351	MAX 1,400	MIN 26								
WTR YR 1972	TOTAL 176,412	MEAN 482	MAX 2,360	MIN 34								

DELAWARE RIVER BASIN

133

01434000 DELAWARE RIVER AT PORT JERVIS, N.Y.

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, Pa., on right bank 250 ft downstream from bridge on U.S. Highways 6 and 209 at Port Jervis, 1.2 miles upstream from Neversink River, and 6.5 miles downstream from Mongaup River.

DRAINAGE AREA.--3,076 sq mi.

PERIOD OF RECORD.--October 1904 to current year.

GAGE.--Water-stage recorder. Datum of gage is 415.35 ft above mean sea level. Prior to June 20, 1914, nonrecording gage at highway bridge 250 ft upstream at same datum operated by U.S. Weather Bureau. June 20, 1914 to Aug. 13, 1928, nonrecording gages at highway bridge 250 ft upstream at present datum.

EXTREMES.--Current year: Maximum discharge, 46,100 cfs June 24 (gage height, 10.46 ft), minimum, 701 cfs Oct. 4 (gage height, 1.68 ft), minimum daily, 1,150 cfs Aug. 18.

Period of record: Maximum discharge, 233,000 cfs Aug. 19, 1955 (gage height, 23.91 ft, from floodmarks in gage house), from rating curve extended above 89,000 cfs on basis of slope-area measurement of peak flow; minimum observed, 175 cfs Sept. 23, 1908 (gage height, 0.6 ft).

Maximum discharge previously known, 205,000 cfs Oct. 10, 1903 (gage height, 23.1 ft, reported by U.S. Weather Bureau), from rating curve extended above 70,000 cfs by velocity-area studies; maximum stage known, 25.5 ft Mar. 8, 1904 (ice jam).

REMARKS.--Records good except for those for winter periods, which are fair. Flow regulated by Lake Wallenpaupack and by Toronto, Cliff Lake, and Swinging Bridge Reservoirs (see Delaware River basin, Reservoirs in) 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 sq mi of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 sq mi of drainage area controlled by Cannonsville Reservoir (see Delaware River basin, Reservoirs in). 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. Records of water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1013: 1905-36. WRD N.Y. 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,110	1,980	5,800	6,950	3,300	3,160	7,410	7,300	23,300	22,700	2,170	1,860
2	1,990	2,400	4,850	5,800	3,100	5,520	8,550	7,060	18,000	17,400	2,310	1,840
3	1,720	2,500	4,020	6,270	2,800	23,600	9,330	6,990	13,900	13,700	2,330	1,960
4	1,300	2,460	3,370	6,270	3,000	16,600	8,760	11,400	11,700	11,500	2,520	1,960
5	2,150	2,310	3,030	5,620	3,300	11,000	7,850	23,900	11,100	10,300	2,680	1,880
6	2,110	2,010	2,860	4,850	3,000	9,110	7,220	18,300	9,780	10,200	1,960	2,010
7	2,330	2,050	7,450	4,510	2,700	7,610	7,260	13,900	8,720	8,140	1,770	1,990
8	2,350	2,230	22,900	3,900	2,800	6,870	6,640	11,800	7,450	6,830	2,610	1,990
9	2,070	2,090	18,900	3,210	3,000	6,190	5,800	11,200	6,760	6,640	2,840	2,010
10	2,270	2,030	14,600	3,260	3,000	5,730	5,760	13,600	8,810	6,300	2,630	1,700
11	3,560	1,670	18,000	4,630	2,600	4,410	6,010	13,700	6,800	6,160	2,290	2,090
12	3,670	1,740	21,400	5,520	2,300	3,760	6,270	11,700	5,830	5,550	2,170	2,110
13	3,180	1,790	15,700	5,480	2,000	5,210	7,570	9,690	5,380	5,830	1,680	2,380
14	2,770	1,860	12,200	7,610	2,500	6,640	16,400	8,470	4,920	4,170	1,770	2,960
15	2,660	2,090	10,500	7,500	3,500	5,730	15,300	8,220	4,110	3,560	2,550	2,570
16	2,150	2,400	10,500	5,500	6,270	5,250	14,200	8,380	3,760	3,030	1,920	2,090
17	1,980	2,130	11,000	4,700	5,210	12,100	25,600	8,720	3,450	3,960	1,470	2,070
18	2,150	1,860	10,100	4,500	4,260	22,700	27,500	8,380	3,560	3,930	1,150	2,290
19	1,980	2,050	8,140	4,600	3,300	16,000	23,800	8,220	5,280	3,790	1,680	2,330
20	2,090	1,960	6,910	4,800	2,600	12,100	23,900	6,190	6,380	3,670	1,670	2,010
21	1,960	1,920	6,190	4,000	2,600	11,100	32,200	6,530	6,300	3,510	1,700	1,900
22	1,750	2,130	5,550	3,200	2,800	13,400	24,800	6,530	10,900	2,630	1,940	2,130
23	1,420	2,630	4,600	2,900	3,000	26,700	22,600	5,940	31,500	2,030	1,860	2,110
24	1,500	2,190	4,080	3,300	3,100	21,200	20,400	5,250	42,600	1,960	2,420	2,030
25	1,310	2,130	4,290	4,200	3,160	15,700	17,300	4,730	31,600	2,400	2,770	2,130
26	1,650	1,980	4,480	5,200	2,840	12,500	15,100	4,380	25,000	2,250	2,960	2,110
27	1,840	2,400	4,480	4,000	2,460	10,700	13,000	3,400	18,800	1,990	2,420	2,720
28	1,900	2,380	4,760	3,000	2,500	9,470	11,100	2,720	15,200	1,770	2,270	2,440
29	2,150	2,290	5,800	2,800	2,910	7,930	9,110	2,460	13,400	1,770	2,190	2,070
30	1,980	4,110	5,800	2,700	-----	7,930	7,810	2,460	15,200	1,840	1,960	2,030
31	1,920	-----	8,380	2,900	-----	7,730	-----	9,200	-----	2,030	1,810	-----
TOTAL	65,970	65,770	270,640	143,680	89,910	333,650	414,550	270,720	379,490	181,540	66,470	63,770
MEAN	2,128	2,192	8,730	4,635	3,100	10,760	13,820	8,733	12,650	5,856	2,144	2,126
MAX	3,670	4,110	22,900	7,610	6,270	26,700	32,200	23,900	42,600	22,700	2,960	2,960
MIN	1,300	1,670	2,860	2,700	2,000	3,160	5,760	2,460	3,450	1,770	1,150	1,700
CAL YR 1971	TOTAL 1,685,880		MEAN 4,619		MAX 22,900		MIN 1,040					
WTR YR 1972	TOTAL 2,346,160		MEAN 6,410		MAX 42,600		MIN 1,150					

DELAWARE RIVER BASIN

01435000 NEVERSINK RIVER NEAR CLARYVILLE, N.Y.

LOCATION.--Lat 41°53'24", long 74°35'25", Sullivan County, on left bank 50 ft downstream from covered bridge, 300 ft upstream from small tributary, 2.2 miles downstream from confluence of East and West Branches, and 2.2 miles southwest of Claryville.

DRAINAGE AREA.--65.6 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 1,488.77 ft above mean sea level.

AVERAGE DISCHARGE.--21 years, 178 cfs (36.85 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,680 cfs June 22 (gage height, 6.14 ft); minimum, 31 cfs Sept. 28, 29 (gage height, 0.37 ft).

Period of record: Maximum discharge, 10,200 cfs July 10, 1952 (gage height, 7.83 ft), from rating curve extended above 4,000 cfs; minimum, 6.8 cfs Sept. 24, 25, 1964; minimum gage height, 0.20 ft Aug. 4, 1958.

Maximum discharge known, 23,400 cfs Nov. 25, 1950, by slope-area measurement (gage height, about 9.0 ft, from floodmarks).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	99	133	190	110	90	286	535	558	648	72	58
2	92	258	104	180	105	250	326	540	353	410	69	56
3	89	222	106	170	100	524	295	693	290	371	513	55
4	89	168	106	170	98	240	274	823	254	326	201	52
5	87	147	92	160	96	200	247	606	262	274	124	49
6	85	136	109	150	92	180	236	452	236	250	101	48
7	85	187	513	140	90	160	229	385	340	254	104	46
8	81	168	552	140	90	150	215	371	247	262	208	45
9	76	147	353	140	90	150	205	390	226	243	124	43
10	313	141	353	140	92	140	205	376	219	215	104	41
11	290	136	667	140	96	140	215	331	198	201	94	40
12	191	127	513	150	110	140	236	295	187	174	89	40
13	165	124	380	168	136	140	441	274	177	174	85	42
14	150	119	308	313	266	130	496	270	171	168	81	49
15	138	116	313	212	150	130	447	344	165	159	104	42
16	127	116	558	180	130	136	624	322	171	144	81	38
17	121	116	463	180	120	410	1,300	290	165	144	78	37
18	116	104	353	190	110	335	1,280	282	150	130	81	38
19	111	96	286	191	105	220	1,600	270	156	130	74	46
20	109	101	262	162	96	200	2,470	274	150	124	67	38
21	106	104	240	150	90	205	1,180	304	326	168	63	36
22	104	101	208	140	86	746	837	250	2,870	119	61	48
23	99	92	184	130	82	972	865	229	2,170	104	60	37
24	116	87	240	140	80	518	816	215	1,170	101	87	35
25	165	84	262	201	76	400	654	198	725	92	99	35
26	138	88	219	150	75	344	570	184	546	87	69	34
27	119	96	226	140	74	308	496	174	415	83	101	40
28	111	109	250	130	74	282	458	165	340	76	114	34
29	104	111	236	120	74	278	480	156	290	72	81	32
30	101	174	233	120	-----	290	507	150	964	69	67	41
31	99	-----	210	110	-----	262	-----	491	-----	70	61	-----
TOTAL	3,873	3,874	9,032	4,997	2,993	8,670	18,490	10,639	14,491	5,842	3,317	1,275
MEAN	125	129	291	161	103	280	616	343	483	188	107	42.5
MAX	313	258	667	313	266	972	2,470	823	2,870	648	513	58
MIN	76	84	92	110	74	90	205	150	150	69	60	32
CFSM	1.91	1.97	4.44	2.45	1.57	4.27	9.39	5.23	7.36	2.87	1.63	.65
IN.	2.20	2.20	5.12	2.83	1.70	4.92	10.49	6.03	8.22	3.31	1.88	.72
CAL YR 1971	TOTAL 64,211		MEAN 176	MAX 1,090	MIN 19	CFSM 2.68	IN 36.41					
WTR YR 1972	TOTAL 87,493		MEAN 239	MAX 2,870	MIN 32	CFSM 3.64	IN 49.61					

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-20	1415	4.64	3,800	6-22	2100	6.14	6,680

DELAWARE RIVER BASIN

135

01436000 NEVERSINK RIVER AT NEVERSINK, N.Y.

LOCATION.--Lat 41°49'12", long 74°38'09", Sullivan County, on right bank at downstream end of outlet channel, 1,650 ft downstream from Neversink Dam and State Highway 55, 1.7 miles southwest of Neversink, and 2.6 miles upstream from Wynkoop Brook.

DRAINAGE AREA.--91.9 sq mi.

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,255.24 ft above mean sea level (Board of Water Supply, City of New York datum). Prior to Jan. 17, 1953, water-stage recorder at site 650 ft 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.

EXTREMES.--Current year: Maximum discharge, 6,130 cfs June 23 (gage height, 8.20 ft); minimum daily, 4.2 cfs Mar. 9.
Period of record: Maximum discharge, 22,300 cfs Nov. 25, 1950, from rating curve extended above 2,600 cfs 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); no flow for all or part of each day Sept. 22-24, Oct. 26-29, 1954.

REVISIONS.--Figures of maximum discharge for the water years 1961 and 1968 have been revised to 3,790 cfs Apr. 25, 1961 (gage height, 6.60 ft) and 2,940 cfs Apr. 25, 1968 (gage height, 5.99 ft). Superseding figures published in WRD N.Y. 1961, 1968 and WSP 1902.

REMARKS.--Records good. Subsequent to June 1953, entire flow from 91.8 sq mi of drainage area controlled by Neversink Reservoir (see Delaware River basin, Reservoirs in). Part of flow diverted for New York City municipal supply (see Delaware River basin, Reservoirs in). 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	12	4.6	4.5	4.5	5.1	5.0	363	17	1,020	14	15
2	15	5.1	4.7	4.6	4.5	5.3	5.1	225	25	571	14	15
3	15	4.8	4.7	4.6	4.5	5.5	5.0	306	25	402	14	15
4	15	4.8	5.0	4.6	4.6	5.0	5.0	633	45	243	14	15
5	15	4.8	6.2	4.6	4.5	5.0	5.0	495	26	109	14	15
6	15	4.8	5.6	4.5	4.5	4.8	5.0	231	17	22	14	15
7	15	4.8	5.4	4.5	4.5	4.7	8.1	16	67	15	15	15
8	15	4.7	5.1	4.5	4.5	4.3	15	18	27	16	14	15
9	15	4.8	4.8	4.5	4.5	4.2	15	15	25	15	14	15
10	15	4.8	4.8	4.5	4.5	4.5	15	16	51	16	14	15
11	15	4.7	4.8	4.6	4.6	4.6	15	14	22	16	14	15
12	15	4.8	4.7	4.6	4.6	4.8	15	14	15	16	14	15
13	15	4.8	4.6	4.6	5.3	4.8	16	15	14	16	14	15
14	15	4.8	4.5	4.6	4.8	4.8	16	14	14	16	14	15
15	15	4.9	4.6	4.5	4.7	4.8	16	14	14	15	14	15
16	15	4.8	4.6	4.5	4.6	5.0	16	14	14	15	14	15
17	15	4.8	4.6	4.5	4.6	6.2	15	14	12	15	15	15
18	15	4.7	4.6	4.6	4.6	5.1	16	14	13	15	14	15
19	15	4.8	4.6	4.6	4.7	5.0	15	15	13	15	14	15
20	15	4.7	4.7	4.6	4.6	5.0	16	15	12	15	14	15
21	15	4.8	4.7	4.5	4.6	5.0	16	14	13	15	14	15
22	15	4.6	4.5	4.6	5.1	5.7	552	14	1,480	15	15	15
23	15	4.7	6.2	4.6	4.7	5.1	1,130	15	3,700	15	15	15
24	15	4.7	4.6	5.0	4.7	4.8	1,100	14	1,890	15	15	15
25	15	4.8	4.3	4.8	4.7	4.8	892	14	1,100	15	15	15
26	15	4.6	4.5	4.4	4.7	4.8	714	14	800	14	15	15
27	15	4.7	4.5	4.4	4.8	5.0	600	14	581	15	15	15
28	15	4.7	4.6	4.6	4.8	5.0	460	14	313	15	15	15
29	15	4.9	4.6	4.5	4.8	5.5	306	14	91	15	15	15
30	15	4.8	4.7	4.5	-----	5.0	394	14	645	15	15	15
31	15	-----	4.7	4.5	-----	5.0	-----	16	-----	15	15	-----
TOTAL	465	150.5	149.1	141.5	135.1	154.2	6,403.2	2,618	11,081	2,747	446	450
MEAN	15.0	5.02	4.81	4.56	4.66	4.97	213	84.5	369	88.6	14.4	15.0
MAX	15	12	6.2	5.0	5.3	6.2	1,130	633	3,700	1,020	15	15
MIN	15	4.6	4.3	4.4	4.5	4.2	5.0	14	12	14	14	15
CAL YR 1971	TOTAL	4,133.9	MEAN	11.3	MAX	115	MIN	4.0				
WTR YR 1972	TOTAL	24,940.6	MEAN	68.1	MAX	3,700	MIN	4.2				

DELAWARE RIVER BASIN

01436500 NEVERSINK RIVER AT WOODBOURNE, N.Y.

LOCATION.--Lat 41°45'24", long 74°35'52", Sullivan County, on left bank 0.2 mile downstream from highway bridge at Woodbourne, 0.3 mile upstream from outlet of South Wind Lake.

DRAINAGE AREA.--113 sq mi.

PERIOD OF RECORD.--October 1937 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,180 ft (from topographic map). Prior to Sept. 20, 1938, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 6,220 cfs Jun. 23 (gage height, 8.58 ft); minimum daily, 16 cfs Sept. 7, 8, 10-12.

Period of record: Maximum discharge, 22,000 cfs Nov. 26, 1950 (gage height, 11.19 ft); maximum gage height, 11.2 ft July 22, 1938, from floodmarks and graph based on gage readings; minimum discharge, 6.7 cfs June 27, 1953; minimum daily, 8.2 cfs June 25, 1953; minimum gage height, 0.80 ft Aug. 25, 27, 28, 1949.

REMARKS.--Records fair. Subsequent to June 1953, entire flow from 91.8 sq mi of drainage area controlled by Neversink Reservoir (see Delaware River basin, Reservoirs in). 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.

COOPERATION.--Thirteen discharge measurements supplied by the Board of Water Supply, City of New York.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	25	63	68	30	37	101	457	257	1,150	25	18
2	22	63	48	64	30	120	112	291	129	720	23	18
3	22	47	42	64	30	300	82	346	105	550	27	18
4	22	31	34	52	28	130	74	695	103	370	30	17
5	22	25	33	49	26	86	71	605	79	212	23	17
6	21	23	40	46	25	70	68	484	63	90	22	17
7	21	34	200	43	24	64	68	511	110	82	23	16
8	21	29	243	40	24	60	70	406	64	64	34	16
9	20	24	134	38	24	56	66	177	86	58	25	17
10	99	24	155	38	23	54	66	163	163	60	22	16
11	77	23	260	38	24	52	75	145	75	58	21	16
12	46	21	172	40	35	50	82	82	56	49	20	16
13	35	21	127	50	90	80	206	58	55	46	20	19
14	33	20	101	80	200	70	183	53	47	50	22	19
15	30	22	101	58	140	58	134	63	44	60	27	18
16	29	24	142	47	100	54	158	68	49	43	21	17
17	29	20	122	43	78	180	274	58	50	44	21	17
18	28	19	80	41	68	230	166	52	41	37	22	19
19	27	19	72	39	60	120	145	49	71	35	21	20
20	25	20	66	37	50	110	260	58	61	33	20	18
21	25	21	63	36	42	117	189	71	124	34	19	17
22	25	25	61	34	37	339	590	53	1,440	31	19	20
23	25	23	59	34	33	200	1,190	46	3,970	29	19	18
24	35	17	58	35	32	120	1,130	43	2,090	27	19	18
25	49	17	70	70	32	98	948	44	1,270	25	19	18
26	38	19	56	48	33	80	786	35	990	25	19	18
27	31	23	64	40	33	72	675	34	750	24	20	21
28	29	27	70	35	34	70	560	33	486	23	21	18
29	27	37	63	33	35	82	386	30	175	22	19	18
30	25	112	66	31	-----	88	422	30	738	22	18	20
31	25	-----	79	30	-----	84	-----	253	-----	23	17	-----
TOTAL	986	855	2,944	1,401	1,420	3,331	9,337	5,493	13,741	4,096	678	535
MEAN	31.8	28.5	95.0	45.2	49.0	107	311	177	458	132	21.9	17.8
MAX	99	112	260	80	200	339	1,190	695	3,970	1,150	34	21
MIN	20	17	33	30	23	37	66	30	41	22	17	16
CAL YR 1971	TOTAL	18,439	MEAN	50.5	MAX	260	MIN	16				
WTR YR 1972	TOTAL	44,817	MEAN	122	MAX	3,970	MIN	16				

DELAWARE RIVER BASIN

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01437000 NEVERSINK RIVER AT OAKLAND VALLEY, N.Y.

LOCATION.--Lat 41°29'43", long 74°38'47", Orange County, on right bank 250 ft downstream from road bridge known as Paradise Bridge, 0.7 mile downstream from Oakland Valley and Bush Kill Creek, and 3.5 miles northwest of Cuddebackville.

DRAINAGE AREA.--222 sq mi.

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 632.00 ft above mean sea level. Prior to Nov. 28, 1928, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 8,260 cfs June 23 (gage height, 8.21 ft); minimum daily, 44 cfs Sep. 8, 9.

Period of record: Maximum discharge, 23,800 cfs Aug. 19, 1955 (gage height, 12.74 ft), from rating curve extended above 7,800 cfs on basis of slope-area measurement at gage height 12.62 ft; minimum, 22 cfs Aug. 17, 1965; minimum daily, 27 cfs Aug. 16, 17, 1965.

REMARKS.--Records good except those for winter periods, which are fair. Subsequent to June, 1953, entire flow from 91.8 sq mi of drainage area controlled by Neversink Reservoir (see Delaware River basin, Reservoirs in). 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.

COOPERATION.--Twelve discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1933(M), 1936-37(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	140	455	320	130	220	455	751	2,770	2,410	104	48
2	108	208	310	320	130	400	546	558	1,270	1,470	94	47
3	103	301	220	370	130	1,200	516	588	772	1,090	90	50
4	98	213	190	320	150	500	440	1,110	624	926	98	48
5	96	179	170	280	140	380	385	1,200	709	618	92	47
6	92	160	200	250	130	350	368	821	504	468	80	45
7	96	197	654	230	120	320	440	821	450	384	80	45
8	92	223	1,150	220	110	290	372	744	385	336	92	44
9	97	185	786	210	110	250	348	475	405	292	92	44
10	266	170	737	220	100	230	328	450	849	266	75	50
11	559	170	1,110	280	100	230	328	390	522	263	69	50
12	298	161	1,030	350	110	280	356	340	385	226	65	48
13	214	153	744	344	200	405	660	262	328	198	65	56
14	177	150	606	606	600	425	958	230	286	226	64	64
15	159	148	558	400	450	290	674	248	258	226	84	56
16	142	163	681	280	380	270	630	300	241	273	82	50
17	134	150	702	260	290	1,000	1,390	283	248	266	67	48
18	130	141	540	240	240	1,500	910	279	227	204	67	69
19	120	137	400	230	220	640	709	248	415	178	65	75
20	120	141	340	210	200	580	950	293	410	161	62	60
21	113	139	300	200	190	540	1,150	425	455	172	55	50
22	109	160	280	190	180	900	966	316	2,460	144	53	48
23	107	130	260	190	180	1,940	2,060	258	6,750	124	51	47
24	128	110	260	190	180	998	1,880	218	4,290	113	53	45
25	254	110	280	290	180	688	1,580	197	2,680	106	58	45
26	203	110	270	240	170	570	1,290	179	2,080	102	55	45
27	182	130	280	200	160	486	1,090	165	1,610	96	55	48
28	160	150	300	190	170	435	942	153	1,170	86	69	51
29	155	241	300	170	190	435	695	140	667	84	62	50
30	137	542	320	160	-----	504	630	133	1,570	84	51	55
31	129	-----	450	140	-----	445	-----	1,570	-----	88	50	-----
TOTAL	4,893	5,312	14,883	8,100	5,640	17,701	24,046	14,145	35,790	11,680	2,199	1,528
MEAN	158	177	480	261	194	571	802	456	1,193	377	70.9	50.9
MAX	559	542	1,150	606	600	1,940	2,060	1,570	6,750	2,410	104	75
MIN	92	110	170	140	100	220	328	133	227	84	50	44
CAL YR 1971	TOTAL	91,487	MEAN	251	MAX	1,170	MIN	40				
WTR YR 1972	TOTAL	145,917	MEAN	399	MAX	6,750	MIN	44				

DELAWARE RIVER BASIN

01437500 NEVERSINK RIVER AT GODEFFROY, N. Y.

LOCATION.--Lat 41°26'28", long 74°36'07", Orange County, on right bank just upstream from highway bridge on Graham Road, 0.5 mile downstream from Basher Kill, 0.8 mile southeast of Godeffroy, 1.7 miles south of Cuddebackville, and 8.5 miles upstream from mouth.

DRAINAGE AREA.--302 sq mi.

PERIOD OF RECORD.--August to October 1903, August 1909 to April 1914 (gage heights and discharge measurements, also twice-daily figures of discharge for January 1911 to December 1912, which do not represent mean daily discharges because of diurnal fluctuation) and July 1937 to current year. August to October 1903, published as Navesink River at Godeffroy, N. Y.

GAGE.--Water-stage recorder. Datum of gage is 459.66 ft above mean sea level (levels by Corps of Engineers). Prior to Apr. 30, 1914, nonrecording gages at same site (August to October 1903 at datum 0.98 ft higher).

EXTREMES.--Current year: Maximum discharge, 8,620 cfs June 23 (gage height, 9.03 ft); minimum daily, 62 cfs Sept. 9. Period of record: Maximum discharge, 33,000 cfs Aug. 19, 1955 (gage height, 12.49 ft), from rating curve extended above 11,000 cfs on basis of slope-area measurement of peak flow; practically no flow several times in July 1911.

REMARKS.--Records fair. Prior to 1949, diurnal fluctuations at low and medium flow caused by powerplant at Cuddebackville. Subsequent to June 1953, entire flow from 91.8 sq mi of drainage area controlled by Neversink Reservoir (see Delaware River basin, Reservoirs in). 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.

COOPERATION.--Nine discharge measurements supplied by the Board of Water Supply, City of New York.

REVISIONS (WATER YEARS).--WSP 821: Drainage area. WSP 1502: 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	238	766	480	220	327	671	900	3,410	2,950	195	75
2	187	295	605	470	200	757	739	722	2,130	2,070	179	73
3	179	407	470	540	200	1,820	705	722	1,560	1,600	179	73
4	172	321	400	500	260	1,000	629	1,220	1,310	1,410	175	71
5	168	285	350	460	240	800	558	1,400	1,450	1,060	165	69
6	161	265	350	420	220	720	535	1,010	1,150	870	147	65
7	161	300	700	390	200	540	621	990	1,000	722	147	65
8	154	338	1,560	370	190	480	558	920	860	621	172	63
9	154	300	1,200	350	180	430	513	679	775	550	158	62
10	327	280	1,130	420	180	400	477	621	1,380	490	137	65
11	739	275	1,530	550	170	390	471	558	1,050	471	125	65
12	477	265	1,510	662	170	380	490	498	820	425	119	65
13	383	256	1,190	573	250	540	775	407	696	389	113	71
14	338	247	1,010	880	705	620	1,160	365	605	407	108	85
15	310	247	930	600	605	550	890	389	535	395	125	79
16	280	260	1,020	500	605	520	830	464	490	757	119	71
17	265	247	1,040	460	490	1,320	1,660	451	477	890	105	69
18	247	233	860	440	432	2,090	1,220	464	445	565	103	79
19	229	229	688	410	360	1,540	1,000	438	722	451	100	100
20	220	229	637	400	330	1,200	1,200	490	739	395	95	83
21	207	224	597	390	310	1,050	1,500	671	748	383	88	73
22	199	242	550	377	300	1,760	1,260	565	2,690	338	81	69
23	191	210	471	365	290	2,610	2,350	484	7,440	300	79	67
24	224	190	471	432	280	1,630	2,240	432	5,370	275	79	65
25	365	180	498	480	270	1,240	1,930	389	3,610	247	93	65
26	327	200	471	420	270	1,040	1,600	354	2,910	233	85	65
27	300	240	471	360	270	900	1,360	321	2,370	215	85	67
28	280	290	471	320	280	784	1,180	295	1,810	199	98	71
29	260	360	464	280	280	730	920	270	1,230	183	95	69
30	242	820	490	250	-----	766	811	256	1,880	175	81	73
31	233	-----	662	230	-----	688	-----	1,710	-----	175	79	-----
TOTAL	8,178	8,473	23,562	13,779	8,757	29,622	30,853	19,455	51,662	20,211	3,709	2,132
MEAN	264	282	760	444	302	956	1,028	628	1,722	652	120	71.1
MAX	739	820	1,560	880	705	2,610	2,350	1,710	7,440	2,950	195	100
MIN	154	180	350	230	170	327	471	256	445	175	79	62

CAL YR 1971 TOTAL 148,332 MEAN 406 MAX 1,650 MIN 42
WTR YR 1972 TOTAL 220,393 MEAN 602 MAX 7,440 MIN 62

LOCATION.--Lat 41°18'30", long 74°47'50", Sussex County, on right bank 0.4 mile upstream from toll bridge at Montague, 0.8 mile downstream from Saw Kill, and at mile 246.3 upstream from Atlantic Ocean.

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.

AVERAGE DISCHARGE.--33 years, 5,747 cfs (unadjusted).

Period of record: Maximum discharge, 250,000 cfs Aug. 19, 1955 (gage height, 35.15 ft), from rating curve extended above 90,000 cfs on basis of flood-routing study; minimum, 382 cfs Aug. 24, 1954 (gage height, 3.83 ft); minimum daily, 412 cfs Aug. 23, 1954.

Maximum stage known during period 1903-72, 35.5 ft Oct. 10, 1903 (present datum), from floodmark. Gage height of 28.45 ft (present datum) was observed Mar. 18, 1936 (discharge, 164,500 cfs, from present rating curve extended above 90,000 cfs).

REMARKS.--Records excellent except those for January through May, 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). Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see Diversions, Delaware River basin). Water-quality records for the current year are published in Part 2 of New Jersey Report.

Day	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,470	2,220	7,110	8,310	3,900	3,670	8,580	8,400	28,100	26,600	2,670	2,140
2	2,290	2,670	6,030	6,900	3,500	6,090	9,550	8,200	22,000	21,100	2,630	2,090
3	2,130	3,000	4,920	7,250	3,440	23,400	10,600	8,000	16,700	16,300	2,750	2,180
4	1,400	2,860	4,100	7,370	3,900	20,000	10,000	10,000	14,100	14,000	2,880	2,230
5	2,440	2,820	3,730	6,730	4,000	12,900	9,120	24,300	13,600	12,100	3,190	2,120
6	2,370	2,450	3,380	5,810	3,300	10,500	8,350	21,000	11,900	12,100	2,390	2,250
7	2,490	2,380	7,730	5,230	3,100	8,900	8,380	16,400	10,500	9,670	2,050	2,250
8	2,550	2,590	24,000	4,710	3,300	8,130	7,890	14,200	9,060	8,380	2,880	2,210
9	2,400	2,500	21,400	3,800	3,600	7,220	7,010	13,100	8,130	7,910	3,310	2,270
10	2,560	2,480	16,300	3,850	3,500	6,440	6,870	14,600	10,800	7,350	3,040	1,890
11	4,570	2,060	19,300	5,480	3,300	5,390	7,040	15,300	8,720	7,230	2,730	2,340
12	4,500	2,040	23,600	6,460	2,900	4,680	7,280	13,500	7,260	6,510	2,600	2,360
13	3,890	2,120	17,800	6,490	2,500	5,930	8,200	11,900	6,780	6,840	1,910	2,500
14	3,320	2,170	13,800	8,430	5,000	7,670	17,000	9,400	6,130	5,080	2,030	3,160
15	3,110	2,280	11,900	9,160	7,200	6,750	16,700	8,600	5,220	4,660	2,900	2,980
16	2,620	2,740	11,800	6,380	7,000	6,300	15,600	9,000	4,770	3,910	2,340	2,410
17	2,360	2,540	12,300	5,200	6,000	12,400	25,700	9,400	4,460	5,600	1,790	2,270
18	2,400	2,180	11,400	5,300	4,900	26,300	31,000	9,400	4,530	5,050	1,450	2,560
19	2,320	2,400	9,260	5,700	4,300	19,000	28,000	9,200	6,690	4,820	1,890	2,600
20	2,280	2,150	8,220	5,800	3,400	14,100	25,400	7,400	8,070	4,530	1,860	2,340
21	2,300	2,340	7,480	5,400	3,100	12,900	33,900	7,800	7,720	4,380	1,960	2,070
22	2,000	2,260	6,720	4,600	3,700	15,000	28,000	7,600	13,700	3,720	2,190	2,340
23	1,830	2,910	5,710	3,800	3,500	29,400	26,000	7,200	37,700	2,750	2,100	2,340
24	1,660	2,670	5,110	4,600	3,500	24,600	24,200	6,400	49,600	2,370	2,580	2,270
25	1,730	2,440	5,190	6,200	3,500	18,600	21,200	5,740	36,600	2,940	2,920	2,270
26	2,050	2,210	5,430	6,170	3,400	15,100	18,600	5,330	29,600	2,800	3,330	2,340
27	2,270	2,800	5,350	5,350	2,800	12,500	16,000	4,310	22,700	2,600	2,670	2,880
28	2,170	2,760	5,600	4,450	2,880	11,100	13,000	3,500	18,200	2,230	2,630	2,770
29	2,400	2,840	6,620	3,920	3,390	9,320	11,000	3,100	15,500	2,190	2,840	2,300
30	2,420	5,350	6,720	3,410	-----	9,160	9,200	2,990	17,200	2,180	2,270	2,270
31	2,110	-----	9,340	3,560	-----	9,120	-----	9,510	-----	2,280	2,030	-----
TOTAL	77,410	77,350	307,350	175,820	111,810	382,570	469,370	304,780	456,040	220,180	76,450	71,000
MEAN	2,497	2,578	9,915	5,672	3,856	12,340	15,650	9,832	15,200	7,103	2,466	2,367
MAX	4,570	5,350	24,000	9,160	7,200	29,400	33,900	24,300	49,600	26,600	3,330	3,160
MIN	1,400	2,040	3,380	3,410	2,500	3,670	6,870	2,990	4,460	2,180	1,450	1,890
CAL YR 1971	TOTAL 1,935,470		MEAN 5,303		MAX 24,000		MIN 1,310					
WTR YR 1972	TOTAL 2,730,130		MEAN 7,459		MAX 49,600		MIN 1,400					

Reservoirs in Delaware River basin

- 01416900 PEPACTION RESERVOIR.--Lat 42°04'38", long 74°58'04", Delaware County, near release chamber at Downsview Dam on East Branch Delaware River, 1.6 miles east of Downsview, N. Y. Drainage area, 371 sq mi. Period of record, September 1954 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: Maximum contents observed, 152,959 mil gal Apr. 21 (elevation, 1,281.70 ft); minimum observed, 87,749 gal Nov. 29 (elevation, 1,241.18 ft). 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).
- Reservoir is formed by an earth-fill, rock-faced 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 149,700 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 of city of New York; for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master, and for conservation release. No diversion prior to Jan. 6, 1955. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.
- 01424997 CANNONSVILLE RESERVOIR.--Lat 42°03'46", long 75°22'29", Delaware County, in emergency gate tower at Cannonsville dam on West Branch Delaware River, 1.8 miles southeast of Stilesville, N. Y. Drainage area, 454 sq mi. Period of record, October 1963 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: maximum contents observed, 104,042 mil gal Apr. 21 (elevation, 1,153.37 ft); minimum observed, 22,707 mil gal Nov. 1 (elevation, 1,083.98 ft). Extremes for period of record: maximum contents observed, 1,04,042 mil gal Apr. 21, 1972 (elevation, 1,153.37 ft); minimum observed (after first filling), 11,901 mil gal Nov. 7, 1968 (elevation, 1,066.24 ft).
- Reservoir is formed by an earth-fill, rock-faced 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 Delaware River Master; and is released for conservation flow in the Delaware River. No diversion prior to January 29, 1964. Records furnished by Board of Water Supply, City of New York.
- REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1966.
- 01433000 SWINGING BRIDGE RESERVOIR.--Lat 41°34'25", long 74°47'00", Sullivan County, at dam on Mongaup River, 1.8 miles northwest of Fowlersville, N. Y. Drainage area, 118 sq mi (excluding Cliff Lake, Lebanon Lake, and Toronto Reservoir). Period of record, January 1930 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). Extremes for current year: maximum contents, 1,400 mil cu ft June 23 (elevation, 1,070.3 ft); minimum, 755 mil cu ft Mar. 1 (elevation, 1,052.1 ft). Extremes for period of record: maximum contents, 1,457.4 mil cu ft Mar. 18, 1936, and Oct. 15, 1955 (elevation, 1,071.7 ft); minimum (after first filling), -141.4 mil cu ft Dec. 2, 1938 (elevation, 987.5 ft).
- Reservoir is formed by an earth-fill dam. Storage began Jan. 19, 1930. Usable capacity, 1,436.6 mil cu ft 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 cu ft. 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 furnished by Orange and Rockland Utilities, Inc.
- REVISIONS (Water years).--WSP 1552: 1951-54.
- 01433100 TORONTO RESERVOIR.--Lat 41°37'15", long 74°49'55", Sullivan County, at dam on Black Lake Creek, 2.5 miles southeast of village of Black Lake, N. Y. Drainage area, 23.2 sq mi. Period of record, January 1926 to current year. Nonrecording gage. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). Extremes for current year: maximum contents observed, 1,145 mil cu ft June 26 (elevation, 1,221.3 ft); minimum observed, 168 mil cu ft Nov. 30 (elevation, 1,182.3 ft). Extremes for period of record: maximum contents observed, 1,171.2 mil cu ft July 20, 1945 (elevation, 1,222.0 ft); minimum observed (after first filling), -26.8 mil cu ft Nov. 15, 1928 (elevation, 1,144.5 ft).
- Reservoir is formed by an earth-fill dam completed July 24, 1926. Storage began Jan. 13, 1926. Usable capacity, 1,098.2 mil cu ft 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 cu ft. Reservoir is used for storage of water for power. Figures given herein represent contents above 1,165.0 ft. Records furnished by Orange and Rockland Utilities, Inc.
- REVISIONS (Water years).--WSP 1552: 1951-54. WSP 1702: 1959 (M).
- 01433200 CLIFF LAKE.--Lat 41°35'00", long 74°47'40", Sullivan County, at dam on Black Lake Creek, 2.5 miles northwest of Fowlersville, N.Y. Drainage area, 6.46 sq mi (excluding area above Toronto Reservoir). Period of record, January 1939 to current year. Nonrecording gage. Datum of gage is at mean sea level (levels by Orange and Rockland Utilities, Inc.). Extremes for current year: maximum contents observed, 140.3 mil cu ft June 26 (elevation, 1,072.5 ft); minimum observed, 23.9 mil cu ft Mar. 1 (elevation, 1,052.8 ft). Extremes for period of record: maximum contents observed, 145.44 mil cu ft July 30, 31, 1945 (elevation, 1,073.1 ft); minimum observed (after first filling), about -6.54 mil cu ft Mar. 16, 1963 (elevation, 1,058.0 ft).
- Reservoir is formed by a concrete gravity-type dam. Storage began Jan. 6, 1939. Usable capacity, 136.06 mil cu ft 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 cu ft. 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 furnished by Orange and Rockland Utilities, Inc.
- REVISIONS (Water years).--WSP 1552: 1951-54.
- 01435900 NEVERSINK RESERVOIR.--Lat 41°49'40", long 74°38'21", Sullivan County, at a gatehouse at Neversink Dam on Neversink River, 2 miles southwest of Neversink, N.Y. Drainage area, 91.8 sq mi. Period of record, June 1953 to current year. Nonrecording gage read daily at 0900. Datum of gage is at mean sea level (levels by Board of Water Supply, City of New York). Extremes for current year: maximum contents observed, 37,948 mil gal June 23 (elevation, 1,441.61 ft); minimum observed, 16,485 mil gal Oct. 17 (elevation, 1,388.32 ft). 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).
- Reservoir is formed by an earth-fill, rock-faced 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 furnished by Board of Water Supply, and Department of Water Resources, City of New York.

Reservoirs in Delaware River basin--Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Date	Elevation (feet)	Contents (million gallons)	Change in con- tents (equiva- lent in cfs)	Date	Elevation (feet)	Contents (million gallons)	Change in con- tents (equiva- lent in cfs)
01416900 Pepacton Reservoir #				01424997 Cannonsville Reservoir #			
Sept. 30	1,255.44	108,315	-	Sept. 30	1,094.32	30,967	-
Oct. 31	1,247.14	96,017	- 614	Oct. 31	1,083.98	22,707	- 412
Nov. 30	1,241.46	88,128	- 407	Nov. 30	1,088.26	25,945	+ 167
Dec. 31	1,255.37	108,207	+1,000	Dec. 31	1,129.04	69,033	+2,150
CAL YR 1971	-	-	+ 43.0	CAL YR 1971	-	-	+ 55.3
Jan. 31	1,258.52	113,108	+ 245	Jan. 31	1,144.05	89,640	+1,030
Feb. 29	1,259.33	114,389	+ 68.4	Feb. 29	1,144.12	89,741	+ 5.41
Mar. 31	1,277.68	145,555	+1,560	Mar. 31	1,151.32	100,742	+ 549
Apr. 30	1,280.64	150,984	+ 280	Apr. 30	1,151.30	100,710	- 53.2
May 31	1,280.11	150,002	- 49.0	May 31	1,150.89	100,050	- 33.0
June 30	1,281.01	151,671	+ 86.0	June 30	1,151.98	101,805	+ 90.5
July 31	1,276.67	143,729	- 396	July 31	1,148.10	95,728	- 303
Aug. 31	1,269.97	131,953	- 588	Aug. 31	1,139.95	83,717	- 599
Sept. 30	1,262.49	119,460	- 644	Sept. 30	1,117.59	54,971	-1,480
WTR YR 1972	-	-	+ 47.1	WTR YR 1972	-	-	+ 101

Date	Elevation (feet)	Contents (mil cu. ft)	Change in con- tents (equiva- lent in cfs)	Date	Elevation (feet)	Contents (mil cu. ft)	Change in con- tents (equiva- lent in cfs)
01433000 Swinging Bridge Reservoir #				01433100 Toronto Reservoir #			
Sept. 30	1,064.7	1,180	-	Sept. 30	1,193.3	364	-
Oct. 31	1,060.5	1,028	- 56.8	Oct. 31	1,186.6	238	- 47.0
Nov. 30	1,065.2	1,199	+ 66.0	Nov. 30	1,182.3	168	- 27.0
Dec. 31	1,063.9	1,150	- 18.3	Dec. 31	1,194.9	398	+ 85.9
CAL YR 1971	-	-	+ 1.6	CAL YR 1971	-	-	+ 0.6
Jan. 31	1,058.4	956	- 72.4	Jan. 31	1,200.8	536	+ 51.5
Feb. 29	1,052.5	767	- 75.3	Feb. 29	1,203.4	603	+ 26.7
Mar. 31	1,064.9	1,188	+ 157	Mar. 31	1,211.8	832	+ 85.5
Apr. 30	1,067.1	1,272	+ 32.4	Apr. 30	1,218.9	1,060	+ 88.0
May 31	1,068.7	1,335	+ 23.5	May 31	1,220.0	1,098	+ 14.2
June 30	1,069.9	1,383	+ 18.5	June 30	1,221.0	1,134	+ 13.9
July 31	1,064.7	1,180	- 75.8	July 31	1,216.4	975	- 59.4
Aug. 31	1,062.2	1,088	- 34.4	Aug. 31	1,202.6	582	- 147
Sept. 30	1,067.7	1,295	+ 79.9	Sept. 30	1,191.5	327	- 98.4
WTR YR 1972	-	-	+ 3.6	WTR YR 1972	-	-	- 1.2

Date	Elevation (feet)	Contents (mil cu. ft)	Change in con- tents (equiva- lent in cfs)	Date	Elevation (feet)	Contents (million gallons)	Change in con- tents (equiva- lent in cfs)
01433200 Cliff Lake Reservoir #				01435900 Neversink Reservoir #			
Sept. 30	1,064.7	81.7	-	Sept. 30	1,390.51	17,173	-
Oct. 31	1,064.1	77.9	- 1.4	Oct. 31	1,391.71	17,556	+ 19.2
Nov. 30	1,065.2	85.0	+ 2.7	Nov. 30	1,391.05	17,344	- 11.0
Dec. 31	1,064.6	81.1	- 1.5	Dec. 31	1,400.66	20,575	+ 161
CAL YR 1971	-	-	+ 0.4	CAL YR 1971	-	-	+ 9.5
Jan. 31	1,058.8	47.9	- 12.4	Jan. 31	1,404.03	21,785	+ 60.3
Feb. 29	1,052.8	23.9	- 9.6	Feb. 29	1,405.51	22,329	+ 29.1
Mar. 31	1,065.2	85.0	+ 22.8	Mar. 31	1,420.42	28,218	+ 294
Apr. 30	1,067.8	103	+ 6.9	Apr. 30	1,440.29	37,290	+ 468
May 31	1,069.3	114	+ 4.1	May 31	1,439.54	36,920	- 18.4
June 30	1,072.4	140	+ 10.0	June 30	1,440.70	37,494	+ 29.5
July 31	1,071.2	129	- 4.1	July 31	1,435.56	34,991	- 125
Aug. 31	1,068.9	111	- 6.7	Aug. 31	1,423.02	29,321	- 283
Sept. 30	1,067.8	103	- 3.1	Sept. 30	1,398.52	19,827	- 490
WTR YR 1972	-	-	+ 0.7	WTR YR 1972	-	-	+ 11.2

Elevation at 2400.

Elevation at 0900 first day of following month.

DELAWARE RIVER BASIN

Reservoirs in Delaware River basin--Continued

Diversions from Delaware River basin

01415200 Diversion from Pepacton Reservoir, N.Y. (see preceding pages) on East Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 6, 1955. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.

REVISIONS (Water Years).--WRD N.Y. 1971: 1970.

014239000 Diversion from Cannonsville Reservoir, N.Y. (see preceding pages) on West Branch Delaware River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Jan. 29, 1964. Records furnished by Board of Water Supply, City of New York.

01435800 Diversion from Neversink Reservoir, N.Y. (see preceding pages) on Neversink River to Rondout Reservoir on Rondout Creek, in Hudson River basin, for municipal supply of City of New York. No diversion prior to Dec. 3, 1953. Records furnished by Board of Water Supply and Department of Water Resources, City of New York.

Diversion, in cubic feet per second, water year October 1971 to September 1972

Month	01415200 Pepacton Reservoir	01423900 Cannonsville Reservoir	01435800 Neversink Reservoir
October	696	319	109
November	697	0	177
December	634	0	259
CAL YR 1971	532	273	210
January	560	0	152
February	312	387	114
March	220	544	115
April	231	41.0	107
May	626	28.2	319
June	378	101	206
July	558	198	282
August	696	112	404
September	696	0	533
WTR YR 1972	527	144	232

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LOCATION.--lat 42°46'50", long 75°01'07", Otsego County, on right bank 10 ft upstream from Panther Mountain Dam, 300 ft downstream from bridge on County Road 22, and 0.6 mile east of Schuyler Lake.

Period of record: Maximum gage height, 5.66 ft Apr. 20, 21, 1972; minimum, 1.18 ft Nov. 6, 1971.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.46	1.27	1.57	2.82	2.01	1.54	2.94	3.86	2.62	3.00	2.26	2.18
2	1.44	1.27	1.56	2.75	1.97	1.71	3.11	3.73	2.62	2.94	2.26	2.16
3	1.42	1.27	1.57	2.70	1.94	2.20	3.17	3.66	2.61	2.92	2.38	2.15
4	1.39	1.25	1.58	2.60	1.99	2.47	3.16	3.67	2.55	2.90	2.40	2.13
5	1.38	1.24	1.57	2.52	1.96	2.55	3.10	3.73	2.51	2.77	2.37	2.10
6	1.36	1.22	1.59	2.52	1.89	2.58	3.04	3.64	2.44	2.66	2.35	2.07
7	1.35	1.25	1.74	2.43	1.86	2.57	2.97	3.56	2.37	2.55	2.33	2.05
8	1.33	1.26	1.88	2.35	1.83	2.60	2.87	3.51	2.27	2.44	2.33	2.04
9	1.31	1.24	2.00	2.26	1.80	2.60	2.76	3.82	2.31	2.34	2.32	2.05
10	1.34	1.23	2.23	2.18	1.78	2.59	2.67	3.98	2.29	2.25	2.29	2.02
11	1.35	1.25	2.56	2.15	1.75	2.52	2.63	3.95	2.23	2.20	2.27	1.99
12	1.36	1.24	2.80	2.14	1.72	2.43	2.63	3.86	2.45	2.21	2.25	1.99
13	1.35	1.25	2.89	2.13	1.70	2.36	2.93	3.74	2.46	2.39	2.24	1.99
14	1.35	1.25	2.92	2.27	1.69	2.32	3.50	3.61	2.47	2.39	2.29	2.04
15	1.35	1.25	2.98	2.30	1.67	2.29	3.81	3.50	2.47	2.39	2.35	2.05
16	1.34	1.26	3.14	2.34	1.66	2.23	4.22	3.47	2.66	2.40	2.33	2.04
17	1.33	1.26	3.17	2.26	1.64	2.45	4.75	3.40	2.75	2.46	2.32	2.03
18	1.33	1.26	3.15	2.19	1.63	2.61	5.16	3.29	2.75	2.45	2.31	2.05
19	1.31	1.26	3.07	2.15	1.63	2.63	5.31	3.16	2.52	2.44	2.31	2.09
20	1.30	1.29	3.01	2.15	1.67	2.62	5.52	3.03	2.38	2.44	2.30	2.07
21	1.29	1.32	2.94	2.13	1.63	2.60	5.61	2.93	2.33	2.42	2.28	2.06
22	1.28	1.37	2.86	2.09	1.62	2.77	5.46	2.80	2.65	2.41	2.26	2.05
23	1.28	1.37	2.76	2.11	1.59	3.13	5.45	2.67	2.94	2.39	2.25	2.03
24	1.27	1.37	2.68	2.15	1.59	3.18	5.30	2.54	3.03	2.38	2.28	1.84
25	1.29	1.43	2.79	2.21	1.58	3.16	5.10	2.41	3.08	2.37	2.27	1.72
26	1.31	1.43	2.74	2.44	1.58	3.11	4.88	2.48	3.09	2.37	2.27	1.68
27	1.30	1.43	2.76	2.31	1.57	3.02	4.66	2.57	3.04	2.35	2.25	1.66
28	1.30	1.45	2.81	2.23	1.56	2.93	4.43	2.54	2.96	2.33	2.24	1.62
29	1.29	1.48	2.83	2.16	1.55	2.85	4.23	2.51	2.85	2.31	2.23	1.58
30	1.28	1.54	2.84	2.11	-----	2.84	4.04	2.47	2.90	2.29	2.21	1.56
31	1.27	-----	2.87	2.06	-----	2.83	-----	2.54	-----	2.27	2.19	-----
MEAN	1.33	1.31	2.51	2.30	1.73	2.59	3.98	3.25	2.62	2.47	2.29	1.97
MAX	1.46	1.54	3.17	2.82	2.01	3.18	5.61	3.98	3.09	3.00	2.40	2.18
MIN	1.27	1.22	1.56	2.06	1.55	1.54	2.63	2.41	2.23	2.20	2.19	1.

SUSQUEHANNA RIVER BASIN

01496500 OAKS CREEK AT INDEX, N.Y.

LOCATION.--Lat 42°39'56", long 74°57'36", Otsego County, on right bank 200 ft upstream from bridge on State Highway 28 at Index, 0.5 mile upstream from mouth, and 3 miles southwest of Cooperstown.

DRAINAGE AREA.--102 sq mi.

PERIOD OF RECORD.--November 1929 to September 1932, March 1937 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,174.50 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1932, nonrecording gage at different datum.

AVERAGE DISCHARGE.--37 years (1930-32, 1937-72), 165 cfs (21.97 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,460 cfs Apr. 20 (gage height, 5.64 ft); minimum, 9.6 cfs Sept. 12-13 (gage height, 2.23 ft).

Period of record: Maximum discharge, 2,550 cfs Jan. 22, 1959 (gage height, 6.87 ft); minimum, 1.3 cfs Aug. 4, 5, 1962 (gage height, 1.79 ft).

REMARKS.--Records good except those for winter periods, which are fair. Prior to June 1964, flow regulated by natural storage in Canadarago Lake, thereafter by dam at outlet.

REVISIONS.--WRD N.Y. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	23	84	258	140	71	430	494	207	417	39	21
2	40	25	64	269	130	186	461	472	155	337	36	19
3	37	26	62	268	120	504	422	475	129	343	68	18
4	35	25	60	250	110	319	398	526	291	427	60	17
5	32	23	58	230	100	302	374	548	319	320	51	15
6	31	22	84	180	98	276	359	481	272	292	47	14
7	29	26	230	170	96	287	344	465	249	268	46	13
8	27	30	234	170	92	269	321	489	223	246	47	12
9	26	26	224	180	90	235	304	774	296	223	43	12
10	31	25	306	190	88	228	297	736	248	212	38	11
11	44	27	397	200	84	236	302	626	214	199	35	11
12	37	27	374	207	80	220	315	566	143	177	32	9.8
13	34	27	342	206	86	224	532	516	101	99	30	11
14	32	28	321	280	90	220	721	479	97	76	36	15
15	30	26	361	180	88	210	669	454	91	85	52	15
16	29	27	431	120	86	272	813	458	301	78	44	12
17	28	27	371	120	78	457	1,080	439	228	116	41	11
18	27	26	349	150	76	382	1,100	447	171	83	38	16
19	26	27	323	190	64	318	1,070	406	206	75	37	21
20	25	36	320	180	56	309	1,250	371	247	74	35	16
21	23	38	305	170	60	335	1,240	356	249	72	32	13
22	23	46	284	150	60	557	1,110	316	445	70	30	12
23	22	40	250	223	60	537	1,160	287	577	66	27	12
24	22	38	302	217	62	433	1,030	262	485	65	42	20
25	26	39	336	250	64	401	918	237	436	58	35	74
26	35	50	297	134	64	374	814	200	413	59	32	73
27	31	50	307	163	64	353	727	111	374	54	29	71
28	27	56	339	170	64	335	654	95	342	50	27	65
29	26	62	313	170	64	345	597	88	314	47	26	59
30	25	95	287	160	-----	356	537	82	384	44	25	57
31	24	-----	270	150	-----	371	-----	130	-----	40	23	-----
TOTAL	927	1,043	8,285	5,955	2,414	9,922	20,349	12,386	8,207	4,772	1,183	745.8
MEAN	29.9	34.8	267	192	83.2	320	678	400	274	154	38.2	24.9
MAX	44	95	431	280	140	557	1,250	774	577	427	68	74
MIN	22	22	58	120	56	71	297	82	91	40	23	9.8
CFSM	.29	.34	2.62	1.88	.82	3.14	6.65	3.92	2.69	1.51	.37	.24
IN.	.34	.38	3.02	2.17	.88	3.62	7.42	4.52	2.99	1.74	.43	.27
CAL YR 1971	TOTAL 69,614.0		MEAN 191	MAX 1,200	MIN 12	CFSM 1.87	IN 25.39					
WTR YR 1972	TOTAL 76,188.8		MEAN 208	MAX 1,250	MIN 9.8	CFSM 2.04	IN 27.79					

PEAK DISCHARGE (BASE, 900 CFS).--Apr. 20 (2100) 1,460 cfs (5.64 ft).

01498500 CHARLOTTE CREEK AT WEST DAVENPORT, N.Y.

LOCATION.--Lat 42°26'42", long 74°57'50", Delaware County, on right bank at downstream side of bridge on County Highway 11 at West Davenport, 700 ft upstream from small tributary, and 1.7 miles downstream from Pumpkin Hollow.

DRAINAGE AREA.--167 sq mi.

PERIOD OF RECORD.--June 1938 to current year. Prior to October 1956, published as "at Davenport Center".

GAGE.--Water-stage recorder. Datum of gage is 1,170.69 ft above mean sea level. Prior to Oct. 1, 1956, water-stage recorder at site 1.7 miles upstream at different datum.

AVERAGE DISCHARGE.--34 years, 248 cfs (20.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,120 cfs Mar. 3 (gage height, 7.18 ft); minimum, 14 cfs Sept. 11-13 (gage height, 0.90 ft).

Period of record: Maximum discharge, 14,000 cfs Sept. 22, 1938 (gage height, 9.65 ft, site and datum then in use, from flood-marks), from rating curve extended above 5,000 cfs on basis of slope-area measurement of peak flow; minimum, 4.5 cfs Sept. 2, 3, 1939 (gage height, 0.16 ft, site and datum then in use).

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

REVISIONS (WATER YEARS).--WSP 921: 1938-39.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	30	269	390	140	110	577	350	640	851	43	20
2	25	40	160	400	140	1,800	675	437	424	541	42	20
3	24	66	150	450	130	2,600	563	645	310	705	89	19
4	24	58	140	370	120	917	469	1,450	451	700	76	19
5	23	49	150	340	110	725	410	1,320	410	505	52	18
6	22	44	260	220	100	509	382	867	326	455	43	17
7	26	61	1,180	210	98	451	362	755	500	386	39	16
8	26	77	1,170	210	96	527	322	867	342	338	79	16
9	25	58	867	220	94	374	310	2,040	527	362	52	16
10	42	58	1,120	250	92	290	314	1,630	455	269	40	16
11	149	58	1,430	340	90	273	334	1,070	350	245	35	15
12	85	56	1,030	380	90	283	428	823	298	202	33	15
13	58	55	775	400	98	318	1,030	665	269	178	31	15
14	49	55	605	800	130	334	1,140	568	245	181	31	20
15	44	52	675	400	170	266	944	518	211	149	92	26
16	40	55	765	230	160	269	1,220	487	700	125	55	21
17	37	55	590	230	120	1,590	1,800	755	514	123	40	18
18	35	52	505	340	100	1,070	1,590	625	350	107	37	19
19	33	50	415	370	86	645	1,410	464	394	103	34	19
20	31	56	406	360	80	500	2,210	415	346	115	31	18
21	31	60	386	270	80	523	1,540	415	378	110	28	18
22	30	74	342	250	82	1,370	1,130	334	928	115	26	17
23	29	63	248	300	80	1,710	1,320	280	1,420	85	25	16
24	29	56	366	360	84	840	972	248	1,030	76	25	16
25	39	70	478	450	84	630	780	214	812	66	27	17
26	43	90	378	220	84	527	650	184	750	72	26	17
27	40	92	451	200	80	455	554	160	595	66	24	17
28	37	100	469	180	78	398	482	144	491	64	24	16
29	34	120	394	170	78	419	428	128	402	52	24	16
30	32	342	370	160	-----	523	382	115	765	46	23	16
31	31	-----	509	150	-----	446	-----	451	-----	44	21	-----
TOTAL	1,199	2,152	17,053	9,620	2,974	21,692	24,728	19,424	15,633	7,436	1,247	529
MEAN	38.7	71.7	550	310	103	700	824	627	521	240	40.2	17.6
MAX	149	342	1,430	800	170	2,600	2,210	2,040	1,420	851	92	26
MIN	22	30	140	150	78	110	310	115	211	44	21	15
CFSM	.23	.43	3.29	1.86	.62	4.19	4.93	3.75	3.12	1.44	.24	.11
IN.	.27	.48	3.80	2.14	.66	4.83	5.51	4.33	3.48	1.66	.28	.12
CAL YR 1971	TOTAL	88,473	MEAN	242	MAX	1,630	MIN	15	CFSM	1.45	IN	19.71
WTR YR 1972	TOTAL	123,687	MEAN	338	MAX	2,600	MIN	15	CFSM	2.02	IN	27.55

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	0300	7.18	4,120	4-20	2000	6.03	2,830
3-23	0230	5.89	2,690				

SUSQUEHANNA RIVER BASIN

01499500 EAST SIDNEY LAKE AT EAST SIDNEY, N.Y.

LOCATION.--Lat 42°19'40", long 75°13'42", Delaware County, at East Sidney Dam on Ouleout Creek, 0.3 mile upstream from bridge on County Highway 44 at East Sidney, 4.4 miles upstream from mouth, and 4.5 miles east of Unadilla.

DRAINAGE AREA.--103 sq mi.

PERIOD OF RECORD.--November 1949 to September 1952 (monthly elevations and contents), October 1952 to current year. Prior to October 1970, published as East Sidney Reservoir at East Sidney.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum elevation, 1,164.83 ft Mar. 4 (contents, 7,564 acre-ft); minimum, 1,138.39 ft Apr. 29 (contents, 1,436 acre-ft).

Period of record: Maximum elevation, 1,194.4 ft Apr. 6, 1960 (contents, 25,100 acre-ft); minimum, 1,115.0 ft Aug. 31, 1953, Sept. 7-26, Nov. 4, 1964 (contents, 56 acre-ft).

REMARKS.--Lake is formed by concrete dam and rockfill dike, completed by Corps of Engineers in June 1950 for flood control; first used for flood regulation on Mar. 28, 1950. Usable capacity, 33,550 acre-ft between elevations 1,115.0 ft (sill of conduits) and 1,203.0 ft (crest of spillway). Dead storage, 56 acre-ft. Discharge is controlled by the operation of five gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

REVISIONS.--WRD N.Y. 1968: Drainage area.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1938)

1,135.0	1,080	1,150.0	3,280
1,140.0	1,630	1,160.0	5,910
1,145.0	2,360	1,170.0	9,610

ELEVATION*, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50.57	50.06	49.57	40.15	39.89	40.66	41.44	38.64	50.86	50.16	50.29	50.30
2	50.10	50.13	47.34	40.26	39.81	45.36	42.64	38.81	50.23	50.21	50.32	50.29
3	49.26	50.29	45.75	40.73	39.98	60.95	41.50	38.81	50.22	50.51	50.72	50.29
4	48.91	50.35	44.74	40.23	40.19	64.36	39.74	41.70	50.45	50.76	50.70	50.26
5	48.96	50.16	43.27	40.13	40.00	59.12	39.51	51.54	50.77	50.02	50.41	50.24
6	49.02	49.88	41.93	39.46	40.05	49.21	39.74	51.10	50.14	50.26	50.31	50.23
7	49.09	49.70	47.94	39.97	40.37	41.39	39.82	47.37	50.27	50.20	50.33	50.23
8	49.17	50.00	50.53	40.57	40.64	40.37	39.46	46.92	50.30	50.17	50.93	50.23
9	49.23	50.20	51.54	40.70	40.68	39.74	38.79	47.56	50.25	50.15	50.70	50.21
10	49.32	50.18	46.94	41.21	40.44	39.99	39.63	54.22	50.30	50.39	50.32	50.20
11	50.00	50.17	45.55	41.61	40.09	40.23	40.94	52.00	50.13	50.52	50.38	50.18
12	50.13	50.16	41.26	42.04	39.90	40.67	41.73	47.65	50.01	50.54	50.46	50.18
13	50.13	50.14	40.07	41.34	39.94	41.37	42.35	49.03	50.10	50.39	50.49	50.17
14	49.81	50.13	39.90	44.37	40.54	41.49	40.34	50.07	50.18	50.39	50.51	50.23
15	49.48	50.09	40.38	42.80	40.73	40.42	40.22	50.31	50.20	50.40	50.62	50.29
16	49.41	50.08	41.21	40.32	40.85	40.48	41.02	50.51	50.59	50.32	50.69	50.32
17	49.39	50.05	40.14	40.24	40.48	46.37	43.26	50.72	50.28	50.27	50.70	50.39
18	49.40	50.00	40.11	40.78	40.17	42.16	53.13	50.19	50.42	50.12	50.69	50.42
19	49.40	49.94	39.83	41.22	40.33	40.35	56.81	49.78	50.86	50.22	50.66	50.48
20	49.38	49.91	40.33	40.85	40.18	40.10	57.56	49.92	50.39	50.28	50.61	50.52
21	49.36	49.91	40.66	40.10	40.06	41.27	61.29	50.12	50.34	50.31	50.54	50.53
22	49.33	50.01	40.34	40.12	40.17	44.16	58.58	50.06	51.22	50.33	50.45	50.57
23	49.37	50.07	39.57	40.70	40.13	54.62	52.40	49.93	55.02	50.31	50.36	50.57
24	49.43	50.03	40.17	41.34	40.07	55.16	43.57	49.92	57.94	50.28	50.34	50.58
25	49.53	50.12	41.97	41.12	40.02	46.02	40.51	50.02	56.41	50.25	50.34	50.60
26	49.65	50.22	42.04	40.23	39.95	42.53	39.71	50.19	52.89	50.42	50.32	50.61
27	49.76	50.48	42.14	40.27	39.92	40.90	39.24	50.01	50.05	50.49	50.31	50.64
28	49.85	50.71	42.21	40.72	40.13	39.94	39.07	50.02	50.67	50.50	50.31	50.68
29	49.91	50.81	41.56	40.53	40.37	39.80	38.55	50.10	50.30	50.48	50.31	50.66
30	49.97	51.52	40.53	40.09	-----	41.46	38.61	50.09	50.54	50.44	50.30	50.16
31	49.98	-----	40.61	40.12	-----	41.14	-----	50.07	-----	50.37	50.30	-----
MEAN	49.56	50.18	42.91	40.78	40.21	44.57	43.71	48.63	51.08	50.34	50.47	50.38
MAX	50.57	51.52	51.54	44.37	40.85	64.36	61.29	54.22	57.94	50.76	50.93	50.68
MIN	48.91	49.70	39.57	39.46	39.81	39.74	38.55	38.64	50.01	50.02	50.29	50.16
Δ	3,287	3,471	1,694	1,638	1,699	1,785	1,454	3,294	3,424	3,353	3,344	3,229
Δ	-2.0	+3.1	-28.9	-.9	+1.1	+1.4	-5.6	+29.9	+2.2	-1.1	-.1	-1.9

CAL YR 1971 MEAN 46.45 MAX 58.12 MIN 38.37 Δ +.1
WTR YR 1972 MEAN 46.92 MAX 64.36 MIN 38.55 Δ -.2

Δ Contents, in acre-feet, at end of month.
Δ Change in contents, equivalent in cubic feet per second.
* Add 1,100 ft to obtain elevations above mean sea level.

SUSQUEHANNA RIVER BASIN

147

01500000 OULEOUT CREEK AT EAST SIDNEY, N.Y.

LOCATION.--Lat 42°20'00", long 75°14'07", Delaware County, on right bank 0.2 mile downstream from bridge on County Highway 44, 0.4 mile downstream from East Sidney Dam, at East Sidney, and 4.0 miles upstream from mouth.

DRAINAGE AREA.--103 sq mi.

PERIOD OF RECORD.--August 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,086.31 ft above mean sea level (levels by Corps of Engineers). Prior to June 13, 1947, water-stage recorder at site 0.5 mile upstream at datum 27.30 ft higher.

AVERAGE DISCHARGE.--32 years, 165 cfs.

EXTREMES.--Current year: Maximum discharge, 1,890 cfs Mar. 2 (gage height, 4.91 ft); minimum, 3.3 cfs Sept. 30 (gage height, 0.72 ft).

Period of record: Maximum discharge, 7,250 cfs Dec. 30, 1942 (gage height, 7.62 ft, site and datum then in use), from rating curve extended above 4,000 cfs; minimum, 1.2 cfs (result of construction operations) Aug. 13, 14, 17, 1949 (gage height, 0.32 ft). Maximum discharge known, 16,700 cfs in July 1935, by computation of flow over dam and from floodmarks.

REMARKS.--Records good. Since November 1949, flow regulated by East Sidney Lake (see station 01499500).

REVISIONS.--WRD N.Y. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	14	534	252	114	153	325	191	401	620	26	10
2	98	22	389	224	95	1,030	425	252	237	392	17	10
3	84	29	301	246	87	88	530	356	143	365	50	10
4	5.2	45	281	220	88	904	383	827	143	430	67	10
5	5.2	55	274	199	75	1,630	292	361	219	300	53	8.9
6	5.3	55	267	143	65	1,340	268	1,070	177	233	27	7.3
7	5.2	36	848	110	65	640	268	755	139	212	29	7.3
8	5.3	23	721	112	65	410	268	670	139	181	88	7.3
9	9.1	38	1,150	112	73	260	248	997	139	121	98	7.3
10	12	46	1,360	176	87	195	124	397	139	98	48	7.3
11	23	46	1,310	242	71	181	181	1,350	133	98	22	7.3
12	53	46	1,010	312	62	212	296	620	90	98	22	7.3
13	64	48	633	307	62	316	810	248	76	88	22	6.8
14	63	48	471	417	90	388	860	292	76	67	22	7.9
15	44	48	405	522	115	280	685	308	76	67	22	7.9
16	27	48	447	260	115	230	810	312	450	67	23	7.3
17	23	49	390	161	115	1,250	570	352	212	67	22	7.9
18	21	49	299	200	80	1,160	150	343	37	44	22	7.9
19	20	49	245	290	63	580	780	240	205	35	22	7.9
20	20	49	206	290	62	401	1,020	198	163	35	23	7.3
21	20	49	231	220	62	397	645	198	174	35	23	7.3
22	17	51	229	160	62	790	1,550	191	216	35	22	7.3
23	12	51	157	190	62	170	1,550	153	18	35	18	7.3
24	13	51	134	250	62	1,290	1,170	124	248	35	14	7.3
25	13	51	183	280	62	1,190	555	90	849	29	14	6.8
26	13	53	211	190	62	445	435	80	871	26	14	6.8
27	14	53	243	110	51	430	343	80	334	26	14	6.3
28	14	68	287	140	43	316	308	80	280	26	14	5.7
29	13	118	302	160	43	233	256	80	233	26	14	20
30	13	447	295	130	-----	276	216	62	640	26	13	85
31	13	-----	296	115	-----	320	-----	51	-----	26	10	-----
TOTAL	771.3	1,835	14,109	6,740	2,158	17,505	16,321	11,328	7,257	3,943	895	320.7
MEAN	24.9	61.2	455	217	74.4	565	544	365	242	127	28.9	10.7
MAX	98	447	1,360	522	115	1,630	1,550	1,350	871	620	98	85
MIN	5.2	14	134	110	43	88	124	51	18	26	10	5.7
CAL YR 1971	TOTAL	60,151.8	MEAN	165	MAX	1,400	MIN	4.4				
WTR YR 1972	TOTAL	83,183.0	MEAN	227	MAX	1,630	MIN	5.2				

SUSQUEHANNA RIVER BASIN

01500500 SUSQUEHANNA RIVER AT UNADILLA, N.Y.

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, on right bank 25 ft downstream from bridge on Bridge Street at Unadilla, 1.0 mile upstream from Carrs Creek, and 1.6 miles downstream from Ouleout Creek.

DRAINAGE AREA.--982 sq mi.

PERIOD OF RECORD.--June 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 996.08 ft above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--34 years, 1,528 cfs (21.13 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,300 cfs Apr. 21 (gage height, 10.50 ft); minimum, 142 cfs Sept. 13 (gage height, 1.85 ft).
Period of record: Maximum discharge, 21,500 cfs Dec. 30, 1942 (gage height, 13.94 ft); maximum gage height, 14.25 ft Apr. 4, 1960; minimum discharge, 39 cfs Oct. 17, 1964 (gage height, 1.38 ft).

REMARKS.--Records excellent except those for winter periods, which are good. Slight regulation by upstream lakes and reservoirs. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 851: 1938(M). WRD N.Y. 1968: 1966 (M). WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	186	1,780	2,270	1,270	700	3,140	2,730	2,950	4,890	420	191
2	270	216	1,260	2,250	1,210	4,410	3,870	2,750	2,670	3,360	417	180
3	249	282	962	2,440	1,090	9,790	3,750	3,250	1,840	2,890	575	175
4	170	312	840	2,170	990	6,210	3,200	5,560	2,160	3,690	630	170
5	164	299	760	1,990	875	5,350	2,780	7,050	3,130	2,850	528	165
6	160	276	1,000	1,400	740	4,180	2,640	5,800	2,630	2,470	429	156
7	159	289	3,560	1,300	680	2,930	2,520	4,700	2,800	2,220	398	150
8	162	330	5,080	1,300	660	2,890	2,340	4,500	2,420	2,020	490	150
9	164	346	4,540	1,400	660	2,540	2,200	8,800	2,590	1,870	498	154
10	190	327	5,330	1,600	680	2,110	2,080	9,600	3,200	1,640	413	155
11	389	328	6,310	1,950	660	1,870	2,150	8,400	2,500	1,570	343	149
12	487	326	6,010	2,250	640	1,930	2,460	5,800	2,090	1,420	322	146
13	392	323	4,460	2,150	660	2,010	4,030	4,400	1,850	1,260	308	148
14	338	321	3,480	3,590	740	2,170	6,990	4,000	1,690	1,130	298	159
15	298	321	3,270	2,920	860	1,880	6,290	3,500	1,540	1,030	365	178
16	253	318	4,080	1,700	860	1,740	6,490	3,400	3,090	953	456	180
17	236	316	3,650	1,400	820	5,520	8,450	3,300	4,130	1,130	374	170
18	222	314	3,020	1,700	720	7,220	9,370	3,100	2,480	1,060	336	166
19	211	313	2,570	2,250	640	4,630	9,260	3,000	2,220	895	315	179
20	203	328	2,370	2,380	540	3,360	10,100	2,580	2,250	807	297	223
21	197	361	2,330	1,900	540	3,110	11,000	2,530	2,040	782	277	201
22	191	407	2,000	1,700	560	4,920	9,590	2,290	4,180	797	259	179
23	180	422	1,500	1,920	560	7,490	9,120	1,980	5,490	709	245	165
24	178	366	1,800	2,240	580	6,360	7,920	1,750	5,830	656	230	155
25	187	388	2,650	2,300	600	4,930	6,060	1,530	5,670	613	245	156
26	213	395	2,420	2,100	600	3,450	5,060	1,300	5,080	595	245	175
27	228	469	2,520	1,430	580	3,040	4,360	1,160	3,890	593	228	207
28	225	515	2,670	1,470	560	2,670	3,800	1,010	3,250	549	227	212
29	216	604	2,620	1,450	560	2,500	3,370	912	2,800	501	227	212
30	204	1,420	2,420	1,460	-----	2,900	3,000	834	3,500	468	217	277
31	192	-----	2,700	1,330	-----	2,820	-----	1,120	-----	442	202	-----
TOTAL	7,138	11,418	89,962	59,710	21,135	117,630	157,390	112,636	91,960	45,860	10,814	5,283
MEAN	230	381	2,902	1,926	729	3,795	5,246	3,633	3,065	1,479	349	176
MAX	487	1,420	6,310	3,590	1,270	9,790	11,000	9,600	5,830	4,890	630	277
MIN	159	186	760	1,300	540	700	2,080	834	1,540	442	202	146
CFSM	.23	.39	2.96	1.96	.74	3.86	5.34	3.70	3.12	1.51	.36	.18
IN.	.27	.43	3.41	2.26	.80	4.46	5.96	4.27	3.48	1.74	.41	.20

CAL YR 1971 TOTAL 557,513 MEAN 1,527 MAX 8,430 MIN 129 CFSM 1.56 IN 21.12
WTR YR 1972 TOTAL 730,936 MEAN 1,997 MAX 11,000 MIN 146 CFSM 2.03 IN 27.69

PEAK DISCHARGE (BASE, 11,000 CFS).--Apr. 21 (0800) 11,300 cfs (10.50 ft).

01502000 BUTTERNUT CREEK AT MORRIS, N.Y.

LOCATION.--Lat 42°32'43", long 75°14'22", Otsego County, on right bank 15 ft upstream from bridge on State Highway 23 at Morris, and 0.2 mile upstream from Calhoun Creek.

DRAINAGE AREA.--59.7 sq mi.

PERIOD OF RECORD.--June 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,096.51 ft above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--34 years, 94.5 cfs (21.50 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,900 cfs Mar. 2 (gage height, 6.52 ft); minimum, 7.5 cfs Sept. 1 (gage height, 1.55 ft).
Period of record: Maximum discharge, 4,260 cfs Mar. 5, 1964 (gage height, 8.47 ft); minimum daily, 1.3 cfs Sept. 24, 1939.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 921: 1939. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	12	64	130	58	34	313	123	215	334	25	11
2	9.5	13	38	132	56	630	329	133	122	202	25	9.0
3	9.5	15	36	130	54	885	249	197	90	249	40	8.5
4	9.4	14	35	110	49	260	207	423	249	278	32	8.5
5	10	13	35	100	46	220	170	343	170	177	26	8.5
6	11	12	49	74	45	140	160	235	139	154	22	8.5
7	11	17	240	80	44	130	150	238	162	133	24	8.0
8	11	20	245	68	41	150	130	338	119	116	24	8.0
9	11	17	217	76	38	120	120	1,180	211	101	22	8.5
10	15	16	311	86	38	98	120	663	151	93	20	8.5
11	26	16	374	113	36	94	142	373	119	88	19	9.0
12	19	16	251	97	38	98	175	284	101	74	18	9.0
13	16	16	199	243	40	90	787	231	93	66	17	9.5
14	13	17	159	170	43	90	782	206	86	61	17	12
15	12	17	243	100	43	80	559	188	78	61	24	13
16	10	17	269	78	43	80	768	215	471	112	18	11
17	10	17	170	96	34	435	1,350	182	237	161	16	10
18	9.5	15	150	110	34	322	921	172	162	74	16	11
19	9.3	15	120	140	30	190	703	174	154	62	16	16
20	8.8	20	120	110	30	160	1,100	148	134	56	15	13
21	8.8	22	120	88	31	183	592	150	143	58	14	11
22	8.8	26	100	100	31	797	414	120	895	55	14	11
23	9.1	22	76	146	30	796	552	101	797	47	13	10
24	9.4	18	130	123	30	308	340	90	411	49	14	11
25	12	20	170	180	29	220	280	79	312	40	14	12
26	18	24	120	84	29	190	229	70	260	40	13	12
27	16	28	148	78	29	160	193	65	206	34	13	11
28	14	31	175	76	29	140	167	62	169	31	13	11
29	13	36	140	74	29	160	148	53	139	28	13	10
30	14	80	130	68	-----	201	133	49	423	27	12	11
31	13	-----	170	64	-----	214	-----	123	-----	25	12	-----
TOTAL	376.6	622	4,804	3,324	1,107	7,675	12,283	7,008	7,018	3,086	581	310.5
MEAN	12.1	20.7	155	107	38.2	248	409	226	234	99.5	18.7	10.4
MAX	26	80	374	243	58	885	1,350	1,180	895	334	40	16
MIN	8.8	12	35	64	29	34	120	49	78	25	12	8.0
CFSM	.20	.35	2.60	1.79	.64	4.15	6.85	3.79	3.92	1.67	.31	.17
IN.	.23	.39	2.99	2.07	.69	4.78	7.65	4.37	4.37	1.92	.36	.19
CAL YR 1971	TOTAL 35,568.2	MEAN 97.4	MAX 1,050	MIN 8.5	CFSM 1.63	IN 22.16						
WTR YR 1972	TOTAL 48,195.1	MEAN 132	MAX 1,350	MIN 8.0	CFSM 2.21	IN 30.03						

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	2400	6.52	1,900	4-20	1600	6.10	1,520
3-22	2230	6.39	1,780	5-9	0630	6.05	1,480
4-13	1900	6.16	1,570	6-22	0800	6.05	1,480
4-17	0100	6.25	1,660				

SUSQUEHANNA RIVER BASIN

01502500 UNADILLA RIVER AT ROCKDALE, N.Y.

LOCATION.--Lat 42°22'40", long 75°24'23", Chenango County, on right bank 400 ft downstream from Chenango-Otsego County highway bridge at Rockdale, and 0.7 mile downstream from Kent Brook.

DRAINAGE AREA.--520 sq mi.

PERIOD OF RECORD.--November 1929 to September 1933, January 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 992.11 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1933, nonrecording gage at bridge 400 ft upstream at datum 0.73 ft higher.

AVERAGE DISCHARGE.--38 years (1930-33, 1937-72), 811 cfs (21.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,270 cfs Apr. 18 (gage height, 9.04 ft); minimum, 82 cfs Sept. 12, 13 (gage height, 3.65 ft).

Period of record: Maximum discharge, 17,400 cfs Dec. 31, 1942 (gage height, 12.98 ft); minimum daily, 27 cfs Sept. 20-27, 1964.

REMARKS.--Records good except those for winter periods and those for period of doubtful gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	104	700	1,190	500	304	2,310	1,090	1,500	3,140	200	110
2	96	134	420	1,210	480	2,160	2,850	1,110	1,070	1,960	200	94
3	94	119	400	1,180	460	4,990	2,450	1,560	751	1,530	270	90
4	90	116	390	1,040	440	3,440	2,020	2,290	1,250	1,940	310	90
5	90	113	390	940	400	2,350	1,680	3,040	1,870	1,370	210	90
6	89	108	432	620	390	1,860	1,550	2,140	1,230	1,140	190	90
7	92	134	1,750	640	380	1,300	1,410	1,850	1,200	981	190	86
8	92	156	2,490	620	350	1,100	1,260	1,980	860	926	190	85
9	92	172	1,960	600	320	1,100	1,160	4,900	992	810	180	87
10	106	152	2,250	620	320	900	1,190	5,510	1,270	724	170	85
11	164	144	2,630	900	310	860	1,290	3,430	871	715	160	84
12	220	148	2,420	1,060	320	820	1,560	2,400	688	616	160	84
13	180	160	1,840	1,100	340	820	2,840	1,960	607	508	150	85
14	156	160	1,490	2,190	360	800	5,350	1,660	564	458	150	95
15	131	176	1,540	1,390	370	740	4,690	1,600	508	430	180	110
16	116	172	2,270	754	370	720	4,510	1,980	2,160	444	190	133
17	110	168	1,760	709	330	2,340	6,360	2,190	2,380	893	160	127
18	104	164	1,300	920	300	3,110	7,020	1,650	1,300	540	150	115
19	102	156	1,000	1,090	280	2,240	5,640	1,470	1,010	418	150	142
20	98	168	1,000	1,280	270	1,670	5,660	1,240	893	370	150	145
21	98	230	980	1,020	270	1,640	6,040	1,350	780	340	140	124
22	96	278	900	870	270	2,900	4,100	1,140	4,180	334	140	110
23	94	272	655	1,060	270	5,330	3,680	915	6,360	305	130	100
24	94	225	850	1,310	270	3,430	3,260	780	4,870	290	140	98
25	100	215	1,440	1,400	270	2,270	2,560	679	2,980	280	140	108
26	116	242	1,200	1,130	270	1,850	2,110	589	2,530	270	130	121
27	131	266	1,100	700	270	1,590	1,800	524	1,960	270	130	130
28	128	284	1,300	680	270	1,390	1,550	479	1,570	252	130	118
29	116	339	1,400	660	270	1,350	1,360	437	1,270	228	130	110
30	110	628	1,200	620	-----	1,750	1,200	406	1,840	216	120	110
31	104	-----	1,100	580	-----	1,790	-----	706	-----	204	120	-----
TOTAL	3,509	5,903	40,557	30,083	9,720	58,914	90,460	53,055	51,314	22,902	5,160	3,156
MEAN	113	197	1,308	970	335	1,900	3,015	1,711	1,710	739	166	105
MAX	220	628	2,630	2,190	500	5,330	7,020	5,510	6,360	3,140	310	145
MIN	89	104	390	580	270	304	1,160	406	508	204	120	84
CFSM	.22	.38	2.52	1.87	.64	3.65	5.80	3.29	3.29	1.42	.32	.20
IN.	.25	.42	2.90	2.15	.70	4.21	6.47	3.80	3.67	1.64	.37	.23

CAL YR 1971 TOTAL 322,545 MEAN 884 MAX 5,790 MIN 87 CFSM 1.70 IN 23.07
WTR YR 1972 TOTAL 374,733 MEAN 1,024 MAX 7,020 MIN 84 CFSM 1.97 IN 26.81

PEAK DISCHARGE (BASE, 5,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-18	0100	9.04	7,270	5-9	2300	8.46	6,100
4-21	0700	8.67	6,520	6-23	0900	8.73	6,640

NOTE.--Doubtful gage-height record Aug. 2 to Sept. 8.

01503000 SUSQUEHANNA RIVER AT CONKLIN, N.Y.

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, on left bank at abutment of former highway bridge, 500 ft upstream from bridge on County Highway 304 at Conklin, 0.7 mile downstream from Little Snake Creek, and 3.5 miles downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 sq mi.

PERIOD OF RECORD.--November 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 840.95 ft above mean sea level (levels by Corps of Engineers). Prior to Oct. 4, 1914, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--59 years (1913-72), 3,538 cfs (21.53 inches per year).

EXTREMES.--Current year: Maximum discharge, 26,500 cfs June 23 (gage height, 12.89 ft); minimum, 249 cfs Sept. 12 (gage height, 1.91 ft).

Period of record: Maximum discharge, 61,600 cfs Mar. 18, 1936 (gage height, 20.14 ft); maximum gage height, 20.83 ft Mar. 22, 1948; minimum discharge, 85 cfs Oct. 14, 1964 (gage height, 1.30 ft).

REMARKS.--Records good. Minor regulation by upstream lakes and reservoirs.

REVISIONS.--WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	388	385	3,630	6,310	2,500	1,600	7,210	5,080	6,840	10,300	725	408
2	372	417	3,450	5,250	2,400	8,600	9,070	4,840	7,800	9,640	775	387
3	363	504	2,510	4,900	2,300	25,300	9,690	6,770	6,150	6,680	1,160	367
4	390	535	2,000	4,700	2,200	21,100	8,300	13,100	4,790	6,520	2,100	351
5	389	548	1,900	4,100	1,900	13,900	6,950	17,800	5,830	6,740	1,570	336
6	340	538	2,100	3,500	1,600	10,700	6,200	14,200	6,240	5,290	1,130	325
7	318	601	8,300	3,000	1,500	7,970	5,910	10,700	5,040	4,520	896	315
8	307	685	17,400	2,900	1,500	6,800	5,370	9,150	4,900	4,090	1,080	305
9	299	696	13,400	2,900	1,500	6,600	4,920	13,600	4,110	3,810	1,420	298
10	337	701	11,900	3,000	1,500	5,400	4,780	21,300	4,610	3,380	1,040	287
11	445	709	13,700	3,700	1,500	4,300	4,770	19,400	5,100	3,030	869	281
12	532	682	13,800	4,510	1,500	4,100	5,390	14,400	3,980	2,840	717	273
13	780	667	11,300	4,590	1,600	4,590	7,490	10,100	3,350	2,560	633	277
14	767	645	8,420	7,050	1,900	4,800	14,800	8,000	3,000	2,280	595	293
15	654	660	7,050	8,300	2,500	4,600	16,400	7,240	2,740	2,080	762	311
16	572	799	7,960	5,400	2,500	4,200	15,200	7,120	3,600	1,890	690	308
17	506	777	8,600	3,200	2,300	9,000	19,400	7,430	8,260	1,900	738	329
18	450	715	7,000	3,400	2,100	16,200	20,200	7,370	7,100	2,360	736	869
19	420	678	5,800	4,400	1,800	13,600	19,900	6,280	4,580	2,050	650	576
20	395	673	4,900	5,200	1,300	9,350	19,000	5,680	4,000	1,790	582	476
21	379	692	4,660	4,800	1,300	7,700	20,800	5,160	3,980	1,530	536	429
22	368	826	4,510	4,000	1,300	11,600	19,900	4,930	19,300	1,380	502	443
23	356	960	3,940	3,970	1,300	19,500	17,000	4,320	25,700	1,310	472	407
24	349	931	3,200	4,800	1,400	17,600	15,900	3,690	22,500	1,210	449	372
25	344	938	3,800	5,200	1,400	12,400	13,100	3,220	16,100	1,110	436	365
26	387	922	5,100	5,200	1,400	9,150	10,300	2,830	13,300	1,060	434	361
27	400	962	5,140	4,000	1,300	7,170	8,550	2,460	10,600	998	527	353
28	433	1,080	5,480	2,900	1,300	6,160	7,310	2,200	7,860	975	574	374
29	446	1,270	5,940	2,900	1,300	5,550	6,400	1,950	6,310	919	510	390
30	431	2,460	6,000	2,800	-----	5,980	5,670	1,760	6,120	834	459	393
31	405	-----	7,360	2,600	-----	6,740	-----	2,450	-----	766	432	-----
TOTAL	13,322	23,656	210,250	133,480	49,900	292,260	335,880	244,530	233,790	95,842	24,199	11,259
MEAN	430	789	6,782	4,306	1,721	9,428	11,200	7,888	7,793	3,092	781	375
MAX	780	2,460	17,400	8,300	2,500	25,300	20,800	21,300	25,700	10,300	2,100	869
MIN	299	385	1,900	2,600	1,300	1,600	4,770	1,760	2,740	766	432	273
CFSM	.19	.35	3.04	1.93	.77	4.22	5.02	3.53	3.49	1.39	.35	.17
IN.	.22	.39	3.50	2.22	.83	4.87	5.60	4.08	3.90	1.60	.40	.19

CAL YR 1971 TOTAL 1,252,664 MEAN 3,432 MAX 20,100 MIN 286 CFSM 1.54 IN 20.88
WTR YR 1972 TOTAL 1,668,368 MEAN 4,558 MAX 25,700 MIN 273 CFSM 2.04 IN 27.81

PEAK DISCHARGE (BASE, 18,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-8	1200	10.51	18,200	4-21	1300	11.36	21,200
3-3	1800	12.74	26,000	5-5	0800	10.59	18,500
3-23	1300	11.07	20,100	5-10	1300	11.64	22,100
4-18	0900	11.13	20,400	6-23	2100	12.89	26,500

SUSQUEHANNA RIVER BASIN

01505000 CHENANGO RIVER AT SHERBURNE, N.Y.

LOCATION.--Lat 42°40'43", long 75°30'39", Chenango County, on right bank 20 ft downstream from bridge on State Highway 80, 0.5 mile west of Sherburne, and 0.5 mile downstream from Handsome Brook.

DRAINAGE AREA.--263 sq mi.

PERIOD OF RECORD.--May 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,037.16 ft (revised) above mean sea level. July 22 to Dec. 9, 1953, nonrecording gage or reference point and Dec. 10, 1953, to Jan. 26, 1955, water-stage recorder at temporary site 1.5 miles downstream at datum approximately 11.9 ft lower, during period of construction of highway bridge.

AVERAGE DISCHARGE.--34 years, 392 cfs (20.24 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,500 cfs June 22, 23 (gage height, 9.57 ft); minimum, 43 cfs Sept. 11, 12 (gage height, 1.97 ft).

Period of record: Maximum discharge, 9,200 cfs Mar. 5, 1964 (gage height, 9.80 ft); maximum gage height, 9.99 ft Dec. 30, 1942 (ice jam); minimum discharge, 12 cfs Sept. 25, 1964; minimum gage height, 1.52 ft Sept. 19, 1963.

Flood of Mar. 18, 1936, reached a stage of 10.6 ft, from records of U.S. Weather Bureau.

REMARKS.--Records good except those for winter periods, which are fair. Slight diurnal fluctuation at low flow caused by mill several miles upstream from station. Small diversion during summer months for more than 100 years from Chenango River basin to Oriskany Creek through Oriskany Creek feeder at Solsville for operation of Erie (Barge) Canal.

REVISIONS (WATER YEARS).--WSP 851: 1938(M). WSP 1502: 1955. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	49	215	655	270	190	1,380	635	590	1,360	120	62
2	54	51	176	540	260	1,320	1,570	635	427	990	126	60
3	52	52	170	494	250	2,110	1,300	710	336	865	138	56
4	51	54	160	450	230	1,230	1,150	900	1,750	860	130	56
5	49	52	150	420	210	1,120	960	1,050	1,370	705	118	55
6	49	51	167	390	190	875	865	790	895	630	108	53
7	51	66	630	380	180	800	785	765	720	562	114	53
8	51	78	662	350	170	850	700	860	562	531	200	52
9	51	70	693	360	170	740	660	2,220	730	517	145	52
10	66	68	891	380	160	690	660	2,020	567	526	124	49
11	103	77	1,030	420	150	645	740	1,410	459	526	110	46
12	91	78	850	440	150	558	895	1,110	384	423	102	45
13	80	84	705	640	170	522	2,090	915	348	364	98	47
14	70	93	605	960	240	513	2,820	795	320	340	100	60
15	63	88	795	630	236	477	2,290	760	299	459	116	98
16	60	88	965	400	220	468	2,670	1,220	1,300	418	98	76
17	57	82	690	380	210	995	3,460	1,150	825	388	96	68
18	54	77	605	420	190	1,020	3,130	970	605	299	94	68
19	52	77	526	500	170	790	2,690	800	499	271	94	78
20	51	103	460	500	150	685	3,050	720	427	240	88	68
21	49	103	420	400	140	710	2,600	725	400	230	84	62
22	49	111	360	360	140	1,790	1,970	571	4,940	220	78	58
23	48	101	350	450	130	2,390	2,010	481	5,180	210	76	53
24	49	88	400	560	140	1,540	1,640	418	3,120	200	78	60
25	60	113	500	720	140	1,220	1,370	380	2,230	180	80	116
26	66	123	480	450	140	1,030	1,160	336	1,790	226	76	100
27	61	128	560	380	130	885	990	299	1,340	182	74	88
28	58	141	660	320	130	780	855	271	1,060	148	76	86
29	55	161	620	310	130	790	765	247	875	135	74	76
30	52	233	595	290	-----	1,000	690	229	1,350	126	70	76
31	51	-----	735	280	-----	1,090	-----	299	-----	118	65	-----
TOTAL	1,808	2,740	16,825	14,229	5,196	29,823	47,915	24,691	35,698	13,249	3,150	1,977
MEAN	58.3	91.3	543	459	179	962	1,597	796	1,190	427	102	65.9
MAX	103	233	1,030	960	270	2,390	3,460	2,220	5,180	1,360	200	116
MIN	48	49	150	280	130	190	660	229	299	118	65	45
CFSM	.22	.35	2.06	1.75	.68	3.66	6.07	3.03	4.52	1.62	.39	.25
IN.	.26	.39	2.38	2.01	.73	4.22	6.78	3.49	5.05	1.87	.45	.28

CAL YR 1971 TOTAL 161,679 MEAN 443 MAX 3,280 MIN 48 CFSM 1.68 IN 22.87
WTR YR 1972 TOTAL 197,301 MEAN 539 MAX 5,180 MIN 45 CFSM 2.05 IN 27.91

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-17	2130	8.47	3,700	6-22	0930	9.57	7,500
4-20	1630	8.32	3,520	6-23	0430	9.57	7,500

01505500 CANASAWACTA CREEK NEAR SOUTH PLYMOUTH, N.Y.

LOCATION.--Lat 42°33'49", long 75°33'09", Chenango County, on right bank 1.4 miles southeast of South Plymouth, 2 miles northwest of Norwich, 2.8 miles downstream from East Branch, and 4.2 miles upstream from mouth.

DRAINAGE AREA.--57.9 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,077.80 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--27 years, 97.9 cfs (22.96 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,000 cfs June 22 (gage height, 5.40 ft); minimum, 1.5 cfs Sept. 11-13 (gage height, 1.44 ft).

Period of record: Maximum discharge, 6,980 cfs Feb. 25, 1961 (gage height, 5.94 ft), from rating curve extended above 2,400 cfs; minimum, 0.3 cfs July 31, Aug. 6, 7, 1955, Aug. 11, 12, Sept. 23, 1964; minimum gage height, 0.61 ft July 29, 1953, from outside-gage reading.

REMARKS.--Records good except those for winter periods, which are fair. Slight diurnal fluctuation caused by gristmill 1.8 miles upstream from station.

REVISIONS (WATER YEARS).--WSP 1141: 1945-47. WSP 1432: 1954-55. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	6.0	54	170	52	22	339	137	311	271	9.8	4.1
2	5.5	7.5	48	150	50	450	330	160	147	172	12	3.3
3	5.0	8.7	39	120	48	480	250	237	99	154	19	3.3
4	4.5	9.0	32	100	33	260	200	348	378	147	15	2.7
5	5.0	8.6	25	86	31	230	160	304	217	108	11	2.7
6	5.5	7.6	62	58	25	160	140	212	145	92	9.1	2.4
7	7.2	15	430	54	23	140	120	209	122	80	12	2.1
8	7.8	15	326	46	22	170	100	332	92	73	19	1.8
9	8.4	10	291	66	22	140	100	1,130	126	56	12	2.4
10	26	12	382	76	19	120	110	660	94	69	9.8	2.1
11	31	15	493	100	15	96	163	362	71	62	7.8	1.8
12	18	14	298	100	15	96	227	255	59	44	7.2	1.5
13	13	15	220	236	22	92	715	199	55	37	6.6	2.4
14	11	15	167	310	36	82	642	202	50	36	7.2	2.2
15	9.8	17	300	130	37	80	524	191	45	37	24	8.4
16	8.4	20	286	60	37	82	729	273	354	42	12	6.0
17	7.8	17	198	66	26	290	977	226	164	59	9.1	4.5
18	6.6	16	160	92	25	230	775	181	116	33	9.1	6.6
19	6.0	17	130	100	22	160	752	147	96	26	8.4	6.0
20	6.0	25	120	100	20	120	976	141	80	24	7.2	4.1
21	6.0	25	114	88	17	160	566	141	268	21	5.5	3.3
22	5.5	25	86	82	16	627	416	107	2,750	19	5.0	3.0
23	5.5	21	62	130	13	519	388	86	1,800	17	4.5	2.4
24	6.6	22	130	124	13	270	310	72	691	17	5.5	5.5
25	11	22	166	210	14	200	262	61	450	16	6.6	11
26	11	23	134	94	13	170	219	51	315	15	5.5	7.8
27	9.1	24	160	70	12	140	186	42	223	14	5.5	7.2
28	7.8	29	262	68	12	130	162	36	166	13	11	6.6
29	7.2	38	174	64	12	160	147	31	131	11	7.2	5.5
30	6.0	82	183	58	-----	203	138	27	423	11	6.0	9.1
31	6.0	-----	270	54	-----	243	-----	70	-----	9.8	4.5	-----
TOTAL	280.8	581.4	5,802	3,262	702	6,322	11,123	6,630	10,038	1,785.8	294.1	136.8
MEAN	9.06	19.4	187	105	24.2	204	371	214	335	57.6	9.49	4.56
MAX	31	82	493	310	52	627	977	1,130	2,750	271	24	11
MIN	4.5	6.0	25	46	12	22	100	27	45	9.8	4.5	1.5
CFSM	.16	.34	3.23	1.81	.42	3.52	6.41	3.70	5.79	.99	.16	.08
IN.	.18	.37	3.73	2.10	.45	4.06	7.15	4.26	6.45	1.15	.19	.09

CAL YR 1971 TOTAL 35,241.0 MEAN 96.6 MAX 845 MIN 2.8 CFSM 1.67 IN 22.64
WTR YR 1972 TOTAL 46,957.9 MEAN 128 MAX 2,750 MIN 1.5 CFSM 2.21 IN 30.17

PEAK DISCHARGE (BASE, 1,500⁺ CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-22	0130	5.40	5,000	6-23	0100	4.96	3,680

SUSQUEHANNA RIVER BASIN

01509000 TIOUGHNIOGA RIVER AT CORTLAND, N.Y.

LOCATION.--Lat 42°36'10", long 76°09'35", Cortland County, on right bank at east end of Elm Street at Cortland, 0.4 mile downstream from confluence of East and West Branches.

DRAINAGE AREA.--292 sq mi (including 14.0 sq mi, the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin).

PERIOD OF RECORD.--May 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,084.92 ft above mean sea level. Prior to Oct. 1, 1939, water-stage recorder at datum 4.00 ft higher; Oct. 1, 1939, to Sept. 30, 1963, water-stage recorder at datum 3.00 ft higher.

AVERAGE DISCHARGE.--34 years, 483 cfs (22.46 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,730 cfs June 23 (gage height, 10.47 ft); minimum, 58 cfs Oct. 24 (gage height, 2.73 ft).
Period of record: Maximum discharge, 13,000 cfs Mar. 5, 1964 (gage height, 12.49 ft); minimum, 9.8 cfs Sept. 20, 1939, Sept. 29, 1959; minimum daily, 17 cfs Sept. 26, 27, 1959.

REMARKS.--Records good. Diurnal fluctuation at low and medium flow caused by powerplants in mills on West Branch. Slight diversion from East Branch for operation of Erie (Barge) Canal. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD N.Y. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	67	279	940	330	210	1,720	706	876	1,250	182	117
2	74	67	220	760	320	1,240	2,140	731	769	982	185	117
3	70	74	200	680	310	2,400	1,720	812	545	837	249	114
4	68	71	190	620	330	1,700	1,410	886	2,040	912	279	114
5	67	68	180	560	320	1,400	1,150	1,200	2,940	756	241	114
6	68	71	310	450	310	1,000	1,020	871	1,760	658	213	108
7	69	73	1,290	440	290	880	913	824	1,140	595	205	105
8	68	76	1,370	430	280	920	804	971	887	562	306	102
9	68	78	1,170	430	270	860	743	2,930	950	516	310	102
10	72	78	1,270	440	260	700	740	3,360	886	568	225	102
11	79	82	1,470	491	250	640	836	2,160	697	607	205	96
12	82	90	1,390	554	240	600	1,120	1,470	593	504	189	96
13	80	92	942	617	240	580	2,460	1,150	547	448	178	96
14	76	90	708	1,120	290	580	4,120	1,090	504	424	171	105
15	72	100	925	700	290	520	3,290	1,100	500	487	201	147
16	69	110	1,380	440	260	520	3,350	1,270	1,770	460	201	161
17	68	110	961	450	240	780	4,260	1,800	1,750	428	168	132
18	66	100	748	490	240	930	4,290	1,470	1,090	361	164	135
19	65	96	600	580	220	733	3,620	1,110	822	333	157	197
20	64	100	574	580	190	600	3,870	955	704	315	150	213
21	62	120	535	490	190	661	3,620	982	814	300	144	175
22	62	140	460	440	190	1,900	2,560	810	3,890	279	138	157
23	60	130	390	740	190	3,400	2,430	680	7,420	263	132	147
24	60	120	440	760	190	2,220	1,830	596	5,270	248	132	147
25	64	120	600	720	200	1,470	1,470	529	3,430	236	129	229
26	71	140	572	500	200	1,170	1,220	467	2,400	239	126	221
27	71	153	704	450	200	985	1,050	421	1,710	223	123	201
28	66	162	1,020	440	200	867	921	389	1,320	212	126	193
29	64	185	923	410	200	848	835	353	1,070	203	132	185
30	66	267	822	390	-----	1,210	760	336	1,120	196	126	193
31	66	-----	1,190	350	-----	1,320	-----	420	-----	192	120	-----
TOTAL	2,134	3,230	23,833	17,462	7,240	33,844	60,272	32,849	50,214	14,594	5,607	4,321
MEAN	68.8	108	769	563	250	1,092	2,009	1,060	1,674	471	181	144
MAX	82	267	1,470	1,120	330	3,400	4,290	3,360	7,420	1,250	310	229
MIN	60	67	180	350	190	210	740	336	500	192	120	96
CFSM	.24	.37	2.63	1.93	.86	3.74	6.88	3.63	5.73	1.61	.62	.49
IN.	.27	.41	3.04	2.22	.92	4.31	7.68	4.18	6.40	1.86	.71	.55

CAL YR 1971 TOTAL 193,132 MEAN 529 MAX 5,430 MIN 60 CFSM 1.81 IN 24.60
WTR YR 1972 TOTAL 255,600 MEAN 698 MAX 7,420 MIN 60 CFSM 2.39 IN 32.56

PEAK DISCHARGE (BASE, 4,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	0945	8.19	4,480	6-23	1645	10.47	7,730
4-18	0900	8.26	4,560				

SUSQUEHANNA RIVER BASIN

155

01510000 OTSELIC RIVER AT CINCINNATUS, N.Y.

LOCATION.--Lat 42°32'28", long 75°53'58", Cortland County, on right bank 150 ft upstream from Mead Brook and 300 ft downstream from bridge on County Highway 159 at Cincinnati.

DRAINAGE AREA.--147 sq mi.

PERIOD OF RECORD.--June 1938 to September 1964, October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,031.26 ft above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--29 years (1939-64, 1970-72), 268 cfs (24.76 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,530 cfs June 23 (gage height, 9.39 ft); minimum, 12 cfs Sept. 20 (gage height, 0.41 ft, result of regulation).

Period of record: Maximum discharge, 8,390 cfs Dec. 30, 1942; maximum gage height, 10.68 ft Apr. 4, 1950; minimum discharge, 3.8 cfs Sept. 25, 1939; minimum gage height, 0.41 ft Sept. 20, 1972 (result of regulation).

REMARKS.--Records fair.

REVISIONS.--WRD N.Y. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	23	75	450	130	80	992	349	265	637	45	23
2	22	24	58	350	120	700	1,110	393	197	413	48	21
3	21	26	54	300	110	1,300	804	489	155	373	55	21
4	21	28	49	250	120	700	646	715	1,260	393	59	21
5	23	26	45	220	110	540	514	802	888	295	48	20
6	24	25	99	170	100	400	451	519	455	262	41	19
7	28	27	902	180	96	350	402	507	370	232	59	18
8	28	30	769	180	92	370	346	655	295	206	78	18
9	29	28	653	190	90	330	327	2,220	388	184	58	18
10	33	28	843	200	88	250	330	1,700	308	204	48	18
11	38	30	1,110	240	84	220	406	943	242	200	42	17
12	34	30	820	250	80	220	578	669	210	158	39	16
13	32	30	538	430	82	200	1,640	521	200	136	37	19
14	29	35	401	680	100	200	2,330	514	182	129	37	24
15	28	35	648	300	98	210	1,600	491	166	175	52	26
16	26	39	827	190	90	210	1,860	583	765	135	44	26
17	26	38	450	200	84	389	2,620	740	458	135	37	21
18	25	36	350	240	82	428	2,390	605	323	111	36	20
19	23	35	300	280	76	300	1,970	454	272	99	36	20
20	23	39	280	290	66	240	2,410	404	236	90	33	19
21	23	40	250	230	64	280	1,770	421	470	84	32	19
22	22	43	200	190	64	1,130	1,140	327	4,530	79	29	17
23	22	41	160	330	64	1,570	1,150	266	4,530	73	29	16
24	24	36	180	350	66	822	869	227	2,010	69	29	21
25	28	42	330	410	70	579	714	196	1,160	64	35	28
26	30	43	308	250	72	480	586	167	821	62	29	30
27	29	44	401	200	72	413	502	147	578	57	27	27
28	27	48	679	190	72	366	435	130	449	53	27	25
29	26	53	489	170	72	389	395	114	370	50	26	23
30	24	81	503	150	-----	571	362	105	627	47	25	27
31	22	-----	720	140	-----	679	-----	156	-----	45	23	-----
TOTAL	813	1,083	13,491	8,200	2,514	14,916	31,649	16,529	23,180	5,250	1,243	638
MEAN	26.2	36.1	435	265	86.7	481	1,055	533	773	169	40.1	21.3
MAX	38	81	1,110	680	130	1,570	2,620	2,220	4,530	637	78	30
MIN	21	23	45	140	64	80	327	105	155	45	23	16
CFSM	.18	.25	2.96	1.80	.59	3.27	7.18	3.63	5.26	1.15	.27	.14
IN.	.21	.27	3.41	2.08	.64	3.77	8.01	4.18	5.87	1.33	.31	.16
CAL YR 1971	TOTAL	91,686	MEAN	251	MAX	2,850	MIN	20	CFSM	1.71	IN	23.20
WTR YR 1972	TOTAL	119,506	MEAN	327	MAX	4,530	MIN	16	CFSM	2.22	IN	30.24

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-14	0330	7.17	2,880	4-20	1615	7.04	2,760
4-18	0245	7.29	3,000	6-23	0445	9.39	5,530

SUSQUEHANNA RIVER BASIN

01511000 WHITNEY POINT LAKE AT WHITNEY POINT, N.Y.

LOCATION.--Lat 42°20'34", long 75°57'57", Broome County, on left bank at control-gate structure for Whitney Point Dam on Otselic River, 0.3 mile upstream from spillway, 0.9 mile upstream from mouth, and 1.0 mile north of Whitney Point.

DRAINAGE AREA.--257 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to October 1970, published as Whitney Point Reservoir at Whitney Point.

EXTREMES.--Current year: Maximum elevation, 996.52 ft June 25 (contents, 51,720 acre-ft); minimum, 964.54 ft Mar. 29, 30 (contents, 3,867 acre-ft).

Period of record: Maximum elevation, 1,005.0 ft Mar. 23, 1948 (contents, 71,440 acre-ft); minimum, 950.4 ft Sept. 2-4, 1953 (contents, 36 acre-ft).

REMARKS.--Lake is formed by earth-fill dam with concrete spillway, completed by Corps of Engineers in 1942 for flood control; first used for flood regulation on Mar. 9, 1942. Usable capacity, 86,440 acre-ft between elevations 950.0 ft (sill of gates) and 1,010.0 ft (crest of spillway) above mean sea level. Dead storage, 28 acre-ft. Figures given herein represent total contents. Discharge is controlled by operation of three gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

REVISIONS.--WRD N.Y. 1968: Drainage area.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1937)

960.0	1,250	980.0	22,240
965.0	4,260	985.0	30,200
970.0	9,270	990.0	38,980
975.0	15,290	1,000.0	59,220

ELEVATION*, IN FEET, WATER YEAR 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73.10	72.80	73.13	67.97	66.38	65.99	66.35	66.12	73.27	79.47	73.10	73.06
2	73.06	72.79	73.12	67.68	66.38	66.14	67.94	66.19	73.41	76.02	73.13	73.00
3	73.01	72.79	72.59	67.11	66.38	69.42	68.48	66.48	73.29	73.20	73.18	72.96
4	72.96	72.79	71.53	66.47	66.42	73.60	67.99	67.31	73.46	73.11	73.20	72.91
5	72.92	72.79	70.49	66.30	66.42	74.06	67.04	69.45	74.21	73.03	73.08	72.85
6	72.89	72.78	69.44	66.15	66.28	72.55	66.08	70.86	73.30	72.85	72.96	72.82
7	72.86	72.78	68.87	65.97	66.12	69.77	65.81	71.50	73.34	73.06	72.91	72.82
8	72.83	72.78	68.90	66.03	66.03	67.03	65.92	72.18	73.14	73.23	73.01	72.84
9	72.81	72.77	68.58	66.10	65.98	65.95	65.92	74.65	73.03	73.25	73.11	72.88
10	72.80	72.76	67.36	66.12	65.97	65.69	65.90	79.46	73.16	73.17	73.18	72.91
11	72.79	72.76	66.60	66.15	65.95	65.62	65.95	81.55	72.89	73.15	73.22	72.92
12	72.79	72.76	66.70	66.29	65.90	65.76	66.44	77.72	72.72	73.10	73.23	72.94
13	72.79	72.76	66.47	66.43	65.84	65.95	67.17	76.22	72.83	72.97	73.23	72.97
14	72.79	72.75	66.00	67.35	65.90	65.98	70.20	73.57	73.03	72.98	73.23	73.03
15	72.80	72.75	66.15	68.30	66.04	65.91	72.76	73.61	73.13	73.00	73.24	73.09
16	72.81	72.75	66.90	67.40	66.19	65.77	73.67	73.86	73.48	73.07	73.18	73.13
17	72.81	72.75	66.64	66.24	66.27	65.87	75.34	73.70	74.00	73.13	73.10	73.17
18	72.82	72.76	65.10	66.20	66.21	66.63	77.64	73.36	73.22	73.14	73.02	73.21
19	72.82	72.77	65.11	66.48	66.13	66.52	78.44	72.89	72.91	73.11	72.95	73.26
20	72.83	72.78	65.70	66.59	66.02	65.99	78.46	73.04	72.86	73.04	72.87	73.30
21	72.83	72.81	66.16	66.41	65.83	66.00	79.74	73.27	72.94	73.00	72.86	73.32
22	72.83	72.84	66.18	66.04	65.73	66.67	79.16	73.41	76.60	72.96	72.85	73.34
23	72.84	72.89	66.07	66.08	65.71	70.90	77.77	73.35	85.90	72.94	72.87	73.34
24	72.84	72.93	65.94	66.64	65.70	74.68	76.25	73.17	93.66	72.95	72.94	73.32
25	72.83	72.99	66.14	66.65	65.73	73.72	74.26	73.07	96.35	72.95	73.04	73.31
26	72.81	73.04	66.60	66.55	65.80	71.82	71.75	73.07	95.82	72.98	73.11	73.29
27	72.80	73.07	66.69	65.97	65.85	69.77	69.15	73.03	93.39	73.01	73.15	73.28
28	72.81	73.08	66.96	65.86	65.90	67.25	66.93	72.98	90.04	73.04	73.17	73.26
29	72.82	73.11	67.50	66.05	65.94	65.00	66.18	73.05	86.37	73.06	73.19	73.24
30	72.81	73.12	67.31	66.20	-----	64.76	66.00	73.10	82.68	73.07	73.18	73.21
31	72.81	-----	67.56	66.31	-----	65.28	-----	73.19	-----	73.09	73.13	-----
MEAN	72.85	72.84	67.69	66.52	66.03	67.94	70.69	72.85	77.95	73.36	73.08	73.10
MAX	73.10	73.12	73.13	68.30	66.42	74.68	79.74	81.55	96.35	79.47	73.24	73.34
MIN	72.79	72.75	65.10	65.86	65.70	64.76	65.81	66.12	72.72	72.85	72.85	72.82
#	12,460	12,850	7,130	5,580	5,190	4,840	5,260	12,940	23,700	12,800	12,800	12,940
+	-6.2	+6.6	-93	-25	-6.8	-5.7	+7.1	+125	+181	-177	0	+2.4

CAL YR 1971 MEAN 70.27 MAX 74.14 MIN 65.10 # 2.8
WTR YR 1972 MEAN 71.24 MAX 96.35 MIN 64.76 # .1

Contents, in acre-feet, at end of month.

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

* Add 900 ft to obtain elevations above mean sea level.

SUSQUEHANNA RIVER BASIN

157

01512500 CHENANGO RIVER NEAR CHENANGO FORKS, N.Y.

LOCATION.--Lat 42°13'05", long 75°50'55", Broome County, on left bank in Chenango Valley State Park, 1.2 miles downstream from Tioughnioga River and village of Chenango Forks.

DRAINAGE AREA.--1,483 sq mi.

PERIOD OF RECORD.--November 1912 to current year.

GAGE.--Water-stage recorder. Datum of gage is 871.73 ft above mean sea level (levels by Corps of Engineers). Nov. 11, 1912, to Oct. 1, 1914, nonrecording gage and Oct. 2, 1914, to Aug. 2, 1936, water-stage recorder, at site 300 ft upstream at same datum.

AVERAGE DISCHARGE.--59 years (1913-72), 2,388 cfs.

EXTREMES.--Current year: Maximum discharge, 26,200 cfs June 23 (gage height, 11.19 ft); minimum, 234 cfs Sept. 13 (gage height, 2.54 ft).

Period of record: Maximum discharge, 96,000 cfs July 8, 1935 (gage height, 20.3 ft, from floodmarks), from rating curve extended above 32,000 cfs on basis of slope-area measurement of peak flow; minimum, 84 cfs Sept. 19, 25, 1939 (gage height, 2.24 ft).

REMARKS.--Records excellent except those for winter periods, which are good. Since March 1942, flood flows partly regulated by Whitney Point Lake (see station 01511000). Slight diversion from upstream tributaries for operation of Erie (Barge) Canal.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	290	1,610	4,500	1,400	800	7,140	2,960	3,480	8,780	569	391
2	305	318	1,500	3,800	1,300	4,000	8,950	3,040	3,570	7,090	606	359
3	298	339	1,400	3,400	1,300	10,400	8,220	3,800	2,470	4,680	785	347
4	284	330	1,200	3,000	1,200	8,000	6,920	5,110	3,870	4,280	968	335
5	277	321	1,100	2,700	1,100	7,000	5,910	6,660	8,150	3,410	829	325
6	264	301	1,300	2,200	960	6,000	5,050	4,810	5,960	2,830	711	312
7	258	322	6,120	2,100	860	4,800	4,220	4,120	3,900	2,340	623	279
8	264	364	8,950	2,000	840	4,400	3,680	4,550	3,240	2,490	730	272
9	270	381	7,040	2,200	820	4,000	3,450	12,800	2,820	2,330	760	272
10	333	375	7,070	2,200	800	3,200	3,470	13,800	3,280	2,060	695	270
11	492	387	6,840	2,440	800	2,600	3,590	11,400	2,670	2,170	620	256
12	501	400	6,350	2,760	800	2,500	4,820	9,350	2,110	1,950	579	245
13	429	404	4,980	2,920	1,000	2,800	8,650	7,660	1,700	1,660	550	255
14	380	400	3,620	6,030	1,370	2,990	13,600	5,670	1,660	1,530	514	277
15	348	466	3,700	3,500	1,490	2,750	13,200	4,890	1,570	1,430	550	296
16	326	485	6,510	2,200	1,410	2,720	12,200	6,120	4,970	1,530	637	341
17	312	483	5,780	2,100	1,300	4,800	15,000	7,020	6,880	1,650	601	348
18	298	458	3,600	2,300	1,100	6,460	16,200	6,350	4,360	1,470	564	306
19	284	439	2,600	2,900	900	5,230	14,900	4,880	3,060	1,200	543	317
20	277	467	2,500	2,900	660	4,100	14,900	3,790	2,530	1,090	509	348
21	264	536	2,580	2,400	640	3,890	14,900	3,790	2,730	993	450	348
22	258	596	2,300	2,100	640	7,910	12,000	3,390	19,000	934	422	348
23	258	617	1,800	2,400	620	12,200	10,700	2,900	24,400	873	391	333
24	258	572	1,990	3,100	640	10,400	9,380	2,530	21,200	806	404	326
25	298	576	2,930	3,300	640	7,950	8,110	2,160	14,200	754	411	364
26	333	650	2,840	3,000	640	6,610	7,070	1,850	11,700	710	441	429
27	356	750	3,400	2,200	620	5,840	6,130	1,650	10,200	700	388	492
28	348	790	4,540	1,800	600	5,380	4,890	1,480	8,720	661	376	438
29	327	899	4,650	1,500	600	4,630	3,800	1,270	7,530	624	389	412
30	312	1,270	4,540	1,300	-----	5,450	3,270	1,160	7,500	595	409	412
31	301	-----	5,800	1,400	-----	5,800	-----	1,440	-----	576	405	-----
TOTAL	9,811	14,986	121,140	82,650	27,050	165,610	254,320	152,400	199,430	64,196	17,429	10,053
MEAN	316	500	3,908	2,666	933	5,342	8,477	4,916	6,648	2,071	562	335
MAX	501	1,270	8,950	6,030	1,490	12,200	16,200	13,800	24,400	8,780	968	492
MIN	258	290	1,100	1,300	600	800	3,270	1,160	1,570	576	376	245

CAL YR 1971 TOTAL 864,084 MEAN 2,367 MAX 16,100 MIN 258
WTR YR 1972 TOTAL 1,119,075 MEAN 3,058 MAX 24,400 MIN 245

PEAK DISCHARGE (BASE, 18,000 CFS).--June 23 (2000) 26,200 cfs (11.19 ft).

SUSQUEHANNA RIVER BASIN

01514000 OWEGO CREEK NEAR OWEGO, N.Y.

LOCATION.--Lat 42°07'40", long 76°16'17", Tioga County, on right bank 300 ft upstream from bridge on State Highway 96, 0.5 mile upstream from Catatonk Creek and 1.5 miles north of Owego.

DRAINAGE AREA.--185 sq mi.

PERIOD OF RECORD.--January 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 819.82 ft above mean sea level. Prior to July 8, 1935, water-stage recorder and July 9, 1935, to Sept. 30, 1936, nonrecording gage at site 250 ft downstream, and Oct. 1, 1936, to Oct. 1, 1962, water-stage recorder at present site at datum 1.00 ft higher.

AVERAGE DISCHARGE.--42 years, 273 cfs (20.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,600 cfs June 23 (gage height, 10.15 ft); minimum daily, 13 cfs Oct. 2.

Period of record: Maximum discharge, 23,500 cfs July 8, 1935 (gage height, 10.50 ft, present datum, from floodmarks), from rating curve extended above 7,800 cfs on basis of slope-area measurement of peak flow; minimum discharge, 8.1 cfs Aug. 13, 1965 (gage height, 0.69 ft).

REMARKS.--Records fair except those for winter periods and those for periods of no gage-height record, which are poor.

REVISIONS.--WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	106	555	120	70	1,100	227	299	705	57	22
2	13	18	75	473	120	1,700	1,330	244	238	451	60	22
3	14	17	63	396	110	2,700	941	395	181	403	254	21
4	15	17	56	328	110	700	752	824	600	464	200	20
5	14	17	52	250	110	500	606	855	540	323	101	20
6	14	17	119	210	100	400	554	526	450	281	82	19
7	14	18	883	170	98	350	489	496	250	248	104	19
8	14	17	1,380	150	90	560	420	691	200	233	140	19
9	15	17	773	160	86	350	383	3,140	220	215	94	19
10	17	18	694	170	82	300	400	2,340	250	185	79	18
11	19	19	608	200	80	220	470	1,170	200	170	71	18
12	22	20	451	270	80	260	603	776	170	148	66	18
13	20	20	362	360	80	460	1,440	585	150	142	61	19
14	17	20	287	905	150	300	1,630	559	140	178	59	26
15	17	23	402	384	160	260	1,210	576	120	146	60	30
16	17	41	697	284	150	360	1,270	911	250	153	54	23
17	16	41	408	180	140	700	1,850	768	580	140	51	18
18	16	37	270	200	120	1,020	1,350	668	400	118	49	17
19	16	36	200	250	110	741	1,020	491	300	109	47	21
20	15	36	170	290	96	614	1,290	413	220	100	42	20
21	15	36	150	230	90	729	1,120	398	1,500	91	39	18
22	15	39	120	170	90	2,420	763	323	6,000	83	36	17
23	15	39	120	340	90	2,570	914	262	8,700	80	35	16
24	16	35	130	340	90	1,190	655	218	4,050	83	36	22
25	16	41	140	320	88	810	548	186	2,020	82	35	27
26	17	43	190	190	86	654	451	157	1,320	79	36	25
27	17	45	300	170	86	561	383	137	806	72	35	24
28	17	52	460	160	86	486	324	121	595	70	34	23
29	16	68	386	150	86	539	287	109	460	65	29	22
30	16	104	683	140	-----	886	252	100	928	62	25	29
31	16	-----	1,110	130	-----	885	-----	134	-----	59	22	-----
TOTAL	495	967	11,845	8,525	2,984	24,295	24,805	18,800	32,137	5,738	2,093	632
MEAN	16.0	32.2	382	275	103	784	827	606	1,071	185	67.5	21.1
MAX	22	104	1,380	905	160	2,700	1,850	3,140	8,700	705	254	30
MIN	13	16	52	130	80	70	252	100	120	59	22	16
CFSM	.09	.17	2.06	1.49	.56	4.24	4.47	3.28	5.79	1.00	.36	.11
IN.	.10	.19	2.38	1.71	.60	4.89	4.99	3.78	6.46	1.15	.42	.13

CAL YR 1971 TOTAL 101,483 MEAN 278 MAX 2,610 MIN 13 CFSM 1.50 IN 20.41
WTR YR 1972 TOTAL 133,316 MEAN 364 MAX 8,700 MIN 13 CFSM 1.97 IN 26.81

PEAK DISCHARGE (BASE, 3,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	2330	6.99	4,570	6-23	0230	10.15	10,600
3-22	2200	6.84	4,390				

NOTE.--No gage-height record Aug. 16 to Sept. 30.

01515000 SUSQUEHANNA RIVER NEAR WAVERLY, N.Y.

LOCATION.--Lat 41°59'05", long 76°30'05", Bradford County, Pa., on left bank 0.2 mile upstream from Cayuta Creek, 0.4 mile upstream from bridge on East Lockhart Street at Sayre, Pa., 1 mile downstream from New York-Pennsylvania State line, and 2 miles southeast of Waverly.

DRAINAGE AREA.--4,773 sq mi.

PERIOD OF RECORD.--February 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 743.96 ft above mean sea level (levels by Corps of Engineers). Prior to November 1939, at datum 1 ft higher.

AVERAGE DISCHARGE.--35 years, 7,331 cfs (20.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 121,000 cfs June 23 (gage height, 21.24 ft); minimum, 665 cfs Oct. 8, 9, 10 (gage height, 0.97 ft).

Period of Record: Maximum discharge, 121,000 cfs June 23, 1972 (gage height, 21.24 ft); minimum daily, 237 cfs Sept. 22, 23, 1964; minimum gage height, 0.52 ft Sept. 24, 25, 1939.

Flood in March 1936 reached a stage of about 21.4 ft, from flood profile (discharge, 128,000 cfs).

REMARKS.--Records good. Minor regulation by upstream lakes and reservoirs. Slight diversion from upstream tributaries for operation of Erie (Barge) Canal.

REVISIONS.--WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	810	810	5,230	16,000	5,200	2,800	17,800	10,200	8,440	20,800	1,940	1,150
2	786	819	6,170	13,100	5,000	16,000	21,500	9,620	14,600	22,100	1,950	1,090
3	762	993	5,570	11,700	4,800	51,400	23,300	11,100	13,000	17,100	3,410	1,010
4	751	1,030	4,800	10,700	4,700	41,500	20,800	19,400	10,100	13,400	5,810	943
5	742	1,030	4,300	9,600	4,200	30,400	17,500	31,900	13,300	13,000	4,570	897
6	761	1,050	4,260	8,200	3,800	22,700	15,400	26,800	15,900	11,300	3,450	867
7	756	1,050	9,960	6,800	3,600	18,000	13,800	20,200	12,100	9,450	2,800	832
8	698	1,140	30,600	6,200	3,300	16,700	12,300	17,500	10,000	8,390	3,950	790
9	676	1,250	29,200	5,800	3,200	15,000	11,100	30,200	9,040	8,620	3,380	745
10	702	1,330	22,700	6,250	3,200	12,000	11,000	47,100	8,750	7,470	3,130	708
11	910	1,330	22,400	7,280	3,200	9,800	11,000	41,700	9,480	6,840	2,590	685
12	1,090	1,360	22,900	9,040	3,200	9,200	12,200	32,800	8,320	6,430	2,210	676
13	1,230	1,350	20,600	9,270	3,400	10,200	16,900	24,400	6,900	5,930	1,960	688
14	1,410	1,320	16,200	12,900	4,260	10,700	31,400	19,500	6,030	5,610	1,830	725
15	1,420	1,310	12,800	15,900	5,600	10,500	35,900	16,300	5,600	5,080	2,300	780
16	1,260	1,480	15,300	12,000	6,000	9,900	34,300	17,000	7,950	4,780	2,200	778
17	1,110	1,670	17,100	7,760	5,400	16,100	41,200	19,400	14,800	4,840	1,990	786
18	994	1,630	15,100	5,600	4,800	26,800	42,300	18,600	16,300	4,800	1,950	1,100
19	893	1,540	11,400	8,000	3,500	27,900	41,000	15,900	11,000	5,110	1,870	1,610
20	832	1,480	9,620	9,600	2,500	20,600	39,300	13,100	8,610	5,610	1,720	1,290
21	790	1,490	8,790	9,400	2,400	16,900	41,600	11,700	8,840	4,730	1,580	1,140
22	749	1,600	8,670	8,400	2,400	24,600	38,800	10,900	70,400	3,690	1,440	1,030
23	731	1,830	7,800	7,800	2,400	44,600	34,700	9,790	117,000	3,310	1,330	1,010
24	730	1,980	6,770	9,350	2,400	38,600	30,400	8,520	94,200	3,100	1,620	1,010
25	735	2,000	6,650	10,500	2,500	29,400	26,700	7,440	51,100	2,850	1,350	982
26	757	1,970	8,490	11,000	2,500	22,000	21,800	6,500	37,100	2,720	1,340	950
27	821	2,020	9,900	9,400	2,500	17,700	18,300	5,730	28,900	2,550	1,310	971
28	834	2,170	10,800	7,200	2,500	15,200	15,700	5,110	22,900	2,430	1,360	1,050
29	869	2,460	12,700	5,800	2,500	13,900	13,000	4,600	18,500	2,320	1,370	1,030
30	880	3,320	12,700	5,600	-----	14,300	11,500	4,150	17,200	2,190	1,290	1,040
31	854	-----	19,300	5,400	-----	16,100	-----	4,310	-----	2,050	1,200	-----
TOTAL	27,343	45,812	398,780	281,550	104,960	631,500	722,500	521,470	676,360	218,600	70,200	28,363
MEAN	882	1,527	12,860	9,082	3,619	20,370	24,080	16,820	22,550	7,052	2,265	945
MAX	1,420	3,320	30,600	16,000	6,000	51,400	42,300	47,100	117,000	22,100	5,810	1,610
MIN	676	810	4,260	5,400	2,400	2,800	11,000	4,150	5,600	2,050	1,200	676
CFSM	.18	.32	2.69	1.90	.76	4.27	5.05	3.52	4.72	1.48	.47	.20
IN.	.21	.36	3.11	2.19	.82	4.92	5.63	4.06	5.27	1.70	.55	.22
CAL YR 1971	TOTAL 2,668,876	MEAN 7,312	MAX 44,400	MIN 676	CFSM 1.53	IN 20.80						
WTR YR 1972	TOTAL 3,727,438	MEAN 10,180	MAX 117,000	MIN 676	CFSM 2.13	IN 29.05						

PEAK DISCHARGE (BASE, 52,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	1100	12.96	54,800	6-23	2400	21.24	121,000

SUSQUEHANNA RIVER BASIN

01520500 TIOGA RIVER AT LINDLEY, N.Y.

LOCATION.--Lat 42°01'44", long 77°07'57", Steuben County, on left bank just downstream from bridge on County Highway 120 at Lindley, and 6 miles upstream from Canisteo River.

DRAINAGE AREA.--771 sq mi.

PERIOD OF RECORD.--January 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 964.50 ft (revised) above mean sea level. Prior to Feb. 9, 1937, nonrecording gage on bridge at same datum.

AVERAGE DISCHARGE.--42 years, 779 cfs (13.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 128,000 cfs June 23, (gage height, 26.27 ft, from high-water mark in gage house), from rating curve extended as explained below; minimum, 45 cfs Sept. 11, 12 (gage height, 3.04 ft).

Period of record: Maximum discharge, 128,000 cfs June 23, 1972 (gage height, 26.27 ft, from high-water mark in gage house), from rating curve extended above 31,000 cfs on basis of velocity-area and slope-area studies at gage height 19.2 ft and conveyance study and slope-area measurements at gage heights 22.87 and 26.27 ft; minimum, 6.1 cfs Sept. 1, 1939; minimum gage height, 2.80 ft Sept. 11, 12, 1930.

REMARKS.--Records good except those for winter periods and those for intermittent or no gage-height record, which are fair.

REVISIONS (WATER YEARS).--WSP 871: 1938. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	167	370	1,220	300	500	1,810	585	626	3,160	157	61
2	143	185	220	1,100	290	7,600	2,450	680	480	1,860	154	58
3	129	324	200	880	280	13,000	2,100	1,120	371	1,640	172	56
4	120	258	200	760	280	5,540	1,720	1,360	777	2,290	179	56
5	113	230	180	620	280	3,800	1,440	1,640	1,450	1,300	160	54
6	113	209	210	480	280	2,300	1,310	1,180	638	1,580	139	51
7	123	213	620	540	280	1,900	1,380	1,010	470	1,310	133	49
8	129	227	3,170	520	270	3,900	1,250	1,010	367	991	163	49
9	129	206	1,790	480	260	2,200	1,110	4,940	304	822	172	49
10	133	195	1,460	540	260	1,600	1,290	5,540	335	809	145	47
11	185	199	1,200	1,230	260	1,200	1,230	2,960	304	777	127	47
12	185	193	960	1,000	270	1,450	1,370	2,080	254	630	121	49
13	157	187	780	995	310	2,400	1,910	1,630	238	600	109	51
14	146	178	640	2,070	390	2,340	2,460	1,420	230	640	106	56
15	146	174	660	880	520	1,630	2,050	1,470	218	700	106	56
16	140	204	1,160	540	560	1,610	3,100	1,510	764	1,140	94	54
17	136	196	782	740	490	3,940	8,390	1,900	608	728	97	51
18	143	181	620	1,100	410	3,300	3,540	1,790	371	535	100	54
19	136	174	460	980	410	2,650	2,520	1,310	317	480	100	82
20	107	181	430	680	390	2,340	2,520	1,140	278	887	94	97
21	91	186	370	520	390	2,660	2,220	1,250	282	626	85	82
22	86	183	310	480	380	6,370	1,720	970	26,000	415	80	72
23	86	167	310	920	380	5,120	1,730	777	63,000	340	77	61
24	100	154	320	1,100	380	2,900	1,440	656	10,000	295	77	61
25	246	159	340	900	390	2,040	1,270	557	5,700	258	74	63
26	337	178	440	740	390	1,650	1,050	475	3,990	234	88	63
27	294	172	450	600	380	1,440	907	410	2,690	210	74	66
28	234	185	527	520	370	1,340	783	367	1,930	196	74	77
29	206	217	447	420	370	1,270	704	322	1,480	182	72	72
30	188	325	3,120	350	-----	1,720	632	295	4,640	169	69	80
31	174	-----	1,780	330	-----	1,720	-----	410	-----	160	66	-----
TOTAL	4,815	6,007	24,526	24,235	10,220	93,430	57,406	42,764	129,112	25,964	3,464	1,824
MEAN	155	200	791	782	352	3,014	1,914	1,379	4,304	838	112	60.8
MAX	337	325	3,170	2,070	560	13,000	8,390	5,540	63,000	3,160	179	97
MIN	86	154	180	330	260	500	632	295	218	160	66	47
CFSM	.20	.26	1.03	1.01	.46	3.91	2.48	1.79	5.58	1.09	.15	.08
IN.	.23	.29	1.18	1.17	.49	4.51	2.77	2.06	6.23	1.25	.17	.09
CAL YR 1971	TOTAL 266,687	MEAN 731	MAX 11,400	MIN 19	CFSM .95	IN 12.87						
WTR YR 1972	TOTAL 423,767	MEAN 1,158	MAX 63,000	MIN 47	CFSM 1.50	IN 20.45						

PEAK DISCHARGE (BASE, 10,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	2400	17.96	30,000	4-17	0300	13.21	13,800
3-22	2030	11.66	10,300	6-23	0400	26.27	128,000
† About.							

NOTE.--Intermittent or no gage-height record parts or all of June 23-25.

01521000 ARKPORT RESERVOIR NEAR ARKPORT, N.Y.

LOCATION.--Lat 42°23'45", long 77°43'00", Steuben County, on right bank 1,000 ft upstream from Arkport Dam on Canisteo River, 1.3 miles west of Arkport, and 2.3 miles upstream from small tributary.

DRAINAGE AREA.--30.5 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum elevation, 1,304.04 ft June 23 (contents, 7,944 acre-ft); minimum, 1,226.74 ft June 15 (contents, 1 acre-ft).

Period of record: Maximum elevation, 1,304.04 ft June 23, 1972 (contents, 7,944 acre-ft); minimum, 1,226.6 ft Nov. 4-6, 12-15, 18-25, 1963 (contents, 1 acre-ft).

REMARKS.--Reservoir is formed by earth-fill dam with concrete spillway, completed by Corps of Engineers in 1940 for flood control; first used for flood regulation on Mar. 31, 1940. Usable capacity, 7,936 acre-ft between elevations 1,218.0 ft (sill of conduit) and 1,304.0 ft (crest of spillway). No dead storage. The flood-control works consist of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually.

COOPERATION.--Capacity table furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 1552: 1951-57.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1937)

1,226.00	0	1,235.00	264	1,270.00	2,908
1,227.00	1	1,240.00	462	1,280.00	4,142
1,228.00	8	1,245.00	719	1,290.00	5,552
1,229.00	51	1,250.00	1,040	1,300.00	7,192
1,230.00	122	1,260.00	1,861	1,310.00	9,161

ELEVATION*, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.93	26.91	26.96	27.08	26.91	27.27	28.39	27.10	27.11	27.78	27.31	27.03
2	26.93	26.91	26.92	26.98	26.91	27.77	28.03	27.20	26.97	27.60	27.31	27.03
3	26.93	26.91	26.92	26.92	26.90	27.78	27.53	27.32	26.89	28.76	27.25	27.03
4	26.93	26.91	26.91	26.90	26.91	27.78	27.45	27.50	26.97	27.99	27.24	27.03
5	26.92	26.91	26.91	26.91	26.93	27.78	27.34	27.84	26.89	27.72	27.24	27.03
6	26.92	26.91	26.93	26.91	26.90	29.63	27.30	27.35	26.84	27.79	27.24	27.03
7	26.93	26.92	27.50	26.90	26.90	31.12	27.26	27.48	26.81	27.67	27.25	27.03
8	26.92	26.92	27.38	26.90	26.95	31.71	27.22	30.17	26.78	27.61	27.29	27.03
9	26.92	26.92	27.06	26.90	27.10	29.00	27.23	38.28	26.77	27.56	27.24	27.03
10	26.92	26.92	26.95	26.93	26.90	28.31	27.25	30.20	26.77	27.60	27.12	27.03
11	26.92	26.92	26.94	27.25	26.90	28.51	27.38	27.46	26.76	27.56	27.04	27.03
12	26.92	26.92	26.91	27.13	26.90	28.08	28.03	27.25	26.75	27.51	27.04	27.03
13	26.92	26.91	26.91	27.70	26.90	27.89	30.12	27.16	26.75	27.46	27.04	27.03
14	26.92	26.91	26.91	27.63	26.90	28.40	28.58	27.12	26.75	27.44	27.04	27.07
15	26.92	26.92	27.13	27.29	26.90	27.58	28.17	27.45	26.77	27.42	27.04	27.07
16	26.92	26.92	27.09	27.50	26.91	28.02	29.63	29.24	26.90	27.46	27.04	27.03
17	26.92	26.92	26.93	27.35	27.07	29.53	30.50	27.34	26.82	27.51	27.04	27.03
18	26.92	26.92	26.92	26.95	26.90	27.84	27.62	27.21	26.79	27.41	27.04	27.03
19	26.92	26.91	26.91	27.13	26.90	27.61	27.47	27.12	26.76	27.43	27.04	27.06
20	26.92	26.92	26.91	27.10	27.16	27.59	28.47	27.18	26.75	27.84	27.04	27.04
21	26.92	26.92	26.91	27.07	27.26	27.88	27.59	27.24	58.10	27.69	27.04	27.03
22	26.92	26.92	26.92	26.98	26.92	31.87	27.47	27.10	85.73	27.52	27.04	27.03
23	26.92	26.92	26.91	27.32	27.02	28.82	27.46	27.01	101.99	27.43	27.04	27.03
24	26.92	26.92	26.91	27.22	26.90	27.59	27.38	26.94	96.06	27.38	27.04	27.03
25	26.92	26.92	26.92	28.41	26.90	27.47	27.32	26.89	86.22	27.35	27.03	27.03
26	26.91	26.92	26.95	27.33	26.90	27.39	27.26	26.86	74.54	27.35	27.03	27.03
27	26.91	26.92	26.93	27.54	26.94	27.31	27.20	26.83	60.60	27.33	27.03	27.03
28	26.91	26.92	26.91	27.32	26.90	27.26	27.15	26.81	38.86	27.31	27.03	27.03
29	26.91	26.92	26.91	27.23	26.91	27.30	27.13	26.79	26.99	27.31	27.03	27.03
30	26.91	27.00	27.16	27.20	-----	27.65	27.11	26.79	27.90	27.31	27.03	27.16
31	26.91	-----	27.50	27.02	-----	27.88	-----	27.01	-----	27.31	27.03	-----
MEAN	26.92	26.92	27.00	27.19	26.94	28.31	27.80	27.78	39.79	27.56	27.11	27.04
MAX	26.93	27.00	27.50	28.41	27.26	31.87	30.50	38.28	101.99	28.76	27.31	27.16
MIN	26.91	26.91	26.91	26.90	26.90	27.26	27.11	26.79	26.75	27.31	27.03	27.03
#	1	1	2	1	1	36	2	4	7	3	1	4
#	0	0	0	0	0	+6	-6	0	0	0	0	0

CAL YR 1971 MEAN 27.42 MAX 43.42 MIN 26.89 # 0
WTR YR 1972 MEAN 28.35 MAX 101.99 MIN 26.75 # 0

* Contents, in acre-feet, at end of month.

Change in contents, equivalent in cubic feet per second.

* Add 1,200 ft to obtain elevations above mean sea level.

SUSQUEHANNA RIVER BASIN

01521500 CANISTEO RIVER AT ARKPORT, N.Y.

LOCATION.--Lat 42°23'45", long 77°42'42", Steuben County, on left bank 0.2 mile downstream from Arkport Dam and 0.9 mile west of Arkport.

DRAINAGE AREA.--30.6 sq mi.

PERIOD OF RECORD.--January 1937 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,202.10 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--35 years, 33.6 cfs.

EXTREMES.--Current year: Maximum discharge, 1,080 cfs June 23 (gage height, 3.60 ft); minimum, 1.8 cfs Oct. 1-4, 17-23 (gage height, 0.62 ft).

Period of record: Maximum discharge, 2,000 cfs Mar. 5, 1938, Feb. 20, 1939; maximum gage height, 5.63 ft Feb. 19, 1939 (ice jam); practically no flow July 30, 1938, Sept. 30, 1939 (result of construction operations).

Flood of July 8, 1935, reached a discharge of 4,820 cfs, by slope-area measurement.

REMARKS.--Records good except those for winter periods, which are fair. Since November 1939, flows above 500 cfs controlled by detention in Arkport Reservoir (see station 01521000).

REVISIONS (WATER YEARS).--WSP 1552: 1952-57. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.5	12	50	18	122	106	17	35	78	6.8	3.7
2	1.8	2.8	8.8	37	17	600	103	25	22	42	7.8	3.4
3	2.0	2.8	7.3	28	18	628	66	36	17	225	8.3	3.4
4	2.0	3.1	5.9	24	18	142	54	45	22	117	7.3	3.4
5	2.0	3.1	4.7	20	16	95	43	73	17	55	6.4	3.4
6	2.3	3.1	9.4	19	16	66	37	40	13	67	5.9	3.4
7	2.5	4.0	125	18	15	114	33	54	11	43	7.8	3.1
8	2.3	3.4	113	17	15	362	30	186	9.0	32	9.9	3.4
9	2.3	3.1	52	18	14	108	33	571	8.3	25	8.3	3.1
10	2.5	3.7	37	23	14	75	32	179	7.9	32	6.8	3.1
11	2.3	4.0	35	80	14	83	44	70	7.2	26	6.4	2.8
12	2.3	4.0	25	60	15	95	84	48	6.8	20	5.9	2.8
13	2.3	4.7	20	143	17	89	205	37	6.7	17	5.5	3.4
14	2.3	5.5	15	120	18	127	132	33	6.3	14	5.1	7.3
15	2.0	4.7	64	68	16	73	105	44	7.3	13	4.7	7.8
16	2.0	4.0	55	25	15	92	192	121	20	19	4.4	5.1
17	1.8	3.7	30	27	14	186	214	58	12	22	5.1	4.4
18	1.8	3.4	20	33	15	114	76	42	8.7	15	5.9	4.4
19	1.8	3.7	14	67	16	76	53	32	7.4	19	5.9	8.8
20	1.8	4.7	15	34	15	77	92	38	6.4	98	4.7	7.3
21	1.8	5.5	19	30	16	101	69	46	726	48	4.4	5.9
22	1.8	5.5	17	26	18	353	52	30	974	23	4.0	5.1
23	2.0	4.7	12	61	17	152	53	23	879	17	4.4	4.4
24	3.7	4.7	13	49	20	74	42	18	910	13	4.4	5.1
25	3.7	4.7	14	200	19	59	36	15	934	11	4.0	4.7
26	3.1	4.7	30	50	18	58	29	12	926	9.4	4.0	5.1
27	3.1	5.9	31	30	16	47	25	11	898	8.8	4.4	6.4
28	2.5	6.8	31	25	15	35	21	9.5	594	8.3	4.4	7.3
29	2.8	8.3	24	22	16	38	19	8.5	36	7.8	4.0	6.4
30	2.5	14	87	20	-----	78	17	8.3	210	7.3	4.0	33
31	2.5	-----	125	18	-----	83	-----	25	-----	6.8	4.0	-----
TOTAL	71.6	138.8	1,071.1	1,442	471	4,402	2,097	1,955.3	7,338.0	1,139.4	174.9	170.9
MEAN	2.31	4.63	34.6	46.5	16.2	142	69.9	63.1	245	36.8	5.64	5.70
MAX	3.7	14	125	200	20	628	214	571	974	225	9.9	33
MIN	1.8	2.5	4.7	17	14	35	17	8.3	6.3	6.8	4.0	2.8
CAL YR 1971	TOTAL 10,278.56		MEAN 28.2		MAX 545		MIN .60					
WTR YR 1972	TOTAL 20,472.00		MEAN 55.9		MAX 974		MIN 1.8					

01523000 ALMOND LAKE NEAR ALMOND, N.Y.

LOCATION.--Lat 42°20'50", long 77°42'20", Steuben County, at Almond Dam on Canacadea Creek, 2 miles northeast of Almond, and 3 miles upstream from mouth.

DRAINAGE AREA.--55.8 sq mi.

PERIOD OF RECORD.--July 1949 to September 1952 (monthly elevations and contents), October 1952 to current year. Prior to October 1970, published as Almond Reservoir near Almond.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum elevation, 1,298.58 ft June 23 (contents, 14,100 acre-ft); minimum, 1,238.80 ft July 13 (contents, 62 acre-ft).

Period of record: Maximum elevation, 1,298.58 ft June 23, 1972 (contents, 14,100 acre-ft); no contents for many days each year 1949-65.

REMARKS.--Lake is formed by earthfill dam with concrete spillway completed by Corps of Engineers in June 1949 for flood control; first used for flood regulation on Mar. 28, 1950. Usable capacity, 14,800 acre-ft between elevations 1,229.0 ft (sill of gates) and 1,300.0 ft (crest of spillway). No dead storage. Figures given herein represent usable contents. Discharge is controlled by the operation of three gates. Water is stored during high flows and released when downstream conditions warrant. Lake is used for flood control and recreation.

COOPERATION.--Capacity table furnished by Corps of Engineers.

REVISIONS.--WRD N.Y. 1970: Drainage area.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1938)

1,245.00	230	1,270.00	3,750
1,250.00	570	1,280.00	6,570
1,255.00	1,080	1,290.00	10,300
1,260.00	1,750	1,300.00	14,800

ELEVATION*, IN FEET, WATER YEAR 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50.27	50.27	50.33	50.55	50.28	50.39	50.46	50.05	55.50	55.53	45.56	45.38
2	50.28	50.27	50.25	50.13	50.17	54.52	50.64	50.78	55.28	55.28	45.52	45.34
3	50.30	50.28	50.36	50.39	50.20	65.21	50.32	51.86	55.35	55.33	45.63	45.40
4	50.31	50.29	50.32	50.36	50.23	64.57	50.31	52.59	55.62	55.22	45.66	45.50
5	50.32	50.28	50.19	50.26	50.12	59.67	50.14	53.12	55.26	55.24	45.59	45.49
6	50.35	50.26	50.32	50.06	50.21	53.25	50.49	53.13	55.14	55.38	45.48	45.40
7	50.39	50.27	50.65	50.07	50.32	50.11	50.24	53.69	55.31	55.28	45.60	45.36
8	50.30	50.30	50.28	50.22	50.21	50.77	50.08	53.99	55.38	55.01	45.56	45.34
9	50.33	50.31	50.34	50.31	50.16	50.65	50.12	53.94	55.43	54.98	45.41	45.77
10	50.37	50.33	50.22	50.56	50.15	50.26	50.51	54.46	55.37	55.39	45.27	46.33
11	50.34	50.33	50.20	50.78	50.13	50.67	50.21	55.09	55.29	55.11	45.59	46.48
12	50.29	50.28	50.04	50.37	50.09	50.75	50.51	55.20	55.28	51.27	45.78	45.71
13	50.25	50.32	50.37	50.39	50.13	50.43	50.61	55.15	55.32	44.90	45.62	45.35
14	50.26	50.30	50.32	50.30	50.20	50.29	50.51	55.03	55.37	46.65	45.41	45.66
15	50.26	50.25	50.23	50.14	50.19	50.34	50.35	55.21	55.41	47.40	45.49	44.98
16	50.26	50.22	49.93	50.13	50.13	50.33	50.38	55.57	55.52	47.41	45.56	45.17
17	50.26	50.21	50.35	50.36	50.14	50.36	50.23	55.46	55.20	47.43	45.58	45.16
18	50.25	50.21	50.41	50.45	50.35	50.39	50.32	55.31	55.12	47.39	45.36	45.07
19	50.24	50.26	50.26	50.30	50.36	50.19	50.27	55.26	55.19	47.02	45.59	45.72
20	50.29	50.36	50.50	50.09	50.03	50.61	50.22	55.25	55.22	47.37	45.61	45.81
21	50.33	50.27	50.42	50.38	50.12	50.36	50.31	55.28	80.40	47.82	45.52	45.98
22	50.30	50.22	50.38	50.12	50.39	51.32	50.12	55.14	92.45	46.15	45.36	45.86
23	50.27	50.22	50.20	50.64	50.34	50.15	50.41	55.20	95.47	45.91	45.19	45.66
24	50.31	50.27	50.46	50.35	50.20	50.43	50.15	55.18	85.16	45.98	45.37	45.56
25	50.40	50.29	50.43	50.72	50.13	50.10	50.37	55.19	68.92	45.64	45.36	45.52
26	50.29	50.28	50.32	50.53	50.26	50.55	50.09	55.26	56.76	45.75	45.25	45.38
27	50.27	50.32	50.24	50.37	50.35	50.41	50.17	55.29	55.50	45.42	45.44	45.67
28	50.27	50.33	50.23	50.27	50.40	50.35	50.14	55.29	55.34	45.40	45.97	45.60
29	50.30	50.39	50.31	50.22	50.19	50.42	50.13	55.29	55.43	45.60	45.97	45.34
30	50.29	50.41	50.42	50.12	-----	50.49	50.05	55.37	55.26	45.74	45.83	45.68
31	50.28	-----	50.43	50.30	-----	50.20	-----	55.63	-----	45.88	45.62	-----
MEAN	50.30	50.29	50.31	50.33	50.21	51.89	50.30	54.46	60.24	49.67	45.54	45.56
MAX	50.40	50.41	50.65	50.78	50.40	65.21	50.64	55.63	95.47	55.53	45.97	46.48
MIN	50.24	50.21	49.93	50.06	50.03	50.10	50.05	50.05	55.12	44.90	45.19	44.98
Δ	594	607	602	601	593	595	568	1,178	1,108	270	254	272
Δ	0	+2	-1	0	-1	0	-5	+9.9	-1.2	-13.6	-3	+3

CAL YR 1971 MEAN 52.19 MAX 55.65 MIN 49.60 Δ 0
WTR YR 1972 MEAN 50.75 MAX 95.47 MIN 44.90 Δ -4

Δ Contents, in acre-feet, at end of month.

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

* Add 1,200 ft to obtain elevation above mean sea level.

SUSQUEHANNA RIVER BASIN

01523500 CANACADEA CREEK NEAR HORNNELL, N.Y.

LOCATION.--Lat 42°20'05", long 77°41'00", Steuben County, on right bank 35 ft downstream from bridge on State Highway 21, 1.2 miles west of Hornell, 1.5 miles downstream from Almond Dam, and 2 miles upstream from mouth.

DRAINAGE AREA.--57.9 sq mi.

PERIOD OF RECORD.--October 1940 to December 1942, October 1944 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,185.68 ft above mean sea level. Oct. 23, 1940, to Dec. 31, 1942, at site 185 ft upstream at different datum.

AVERAGE DISCHARGE.--30 years (1940-42, 1944-72), 61.6 cfs.

EXTREMES.--Current year: Maximum discharge, 5,880 cfs June 23 (gage height, 6.14 ft); minimum, 0.90 cfs Sept. 19 (gage height, 0.68 ft).

Period of record: Maximum discharge, 9,430 cfs May 17, 1945 (gage height, 5.14 ft), from rating curve extended above 3,400 cfs; maximum gage height, 6.65 ft June 3, 1947; minimum discharge, 0.5 cfs May 29, 1965 (gage height, 0.61 ft); minimum daily, 0.6 cfs May 30 to June 1, 1965.

Flood of July 8, 1935, reached a stage of 16.61 ft, from floodmarks (discharge, 21,000 cfs by slope-area measurement of peak flow).

REMARKS.--Records good except those for winter periods, which are fair. Since October 1948, flood flows regulated by detention in Almond Lake (see station 01523000). Occasional regulation at low flows to clear debris from gates at Almond Lake. Monthly figures for 1952-66 water years adjusted for regulation.

REVISIONS.--WRD N.Y. 1969: Drainage area. WRD N.Y. 1971: 1969(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	9.0	30	80	25	140	114	33	97	240	28	18
2	7.6	9.1	14	60	24	625	174	32	43	212	23	15
3	7.5	9.1	12	48	25	154	95	39	37	467	23	15
4	7.9	9.1	10	38	24	525	95	65	152	285	23	15
5	8.0	9.0	14	30	22	588	68	81	64	213	22	15
6	7.9	9.1	17	26	21	376	66	59	37	186	22	15
7	12	9.3	260	24	21	178	75	79	23	166	35	15
8	11	9.0	100	23	20	581	61	302	22	96	46	15
9	7.5	9.1	50	22	19	186	48	774	23	77	27	9.5
10	9.3	11	71	46	18	93	77	242	28	108	21	8.5
11	11	15	61	147	18	83	72	106	24	202	18	19
12	11	13	39	88	18	213	117	98	17	343	21	23
13	8.9	14	28	235	19	255	275	80	16	98	22	20
14	7.7	15	30	178	20	275	190	75	16	37	20	51
15	7.9	14	90	66	21	147	186	65	25	52	18	32
16	8.0	13	60	38	19	208	364	167	71	56	18	18
17	8.0	11	40	32	17	346	291	177	47	56	22	18
18	8.0	10	48	46	17	208	140	83	25	56	21	16
19	6.4	11	23	90	18	124	104	75	18	51	19	14
20	5.1	15	34	52	16	162	245	71	17	61	19	18
21	7.1	21	42	42	16	166	143	80	670	86	19	15
22	8.5	17	37	36	19	574	98	58	3,320	54	19	17
23	8.5	12	21	140	19	226	120	44	3,970	28	19	17
24	10	13	26	101	21	140	77	41	3,210	37	19	17
25	20	14	33	285	20	90	86	29	2,560	30	19	17
26	15	14	52	66	19	75	65	25	776	28	19	18
27	11	17	54	43	18	86	52	25	250	30	19	27
28	9.0	20	46	35	20	66	51	25	186	24	19	24
29	9.0	23	36	32	24	70	45	20	174	22	19	21
30	9.0	37	169	28	-----	140	45	17	486	22	19	61
31	9.1	-----	208	25	-----	130	-----	42	-----	25	19	-----
TOTAL	284.9	411.8	1,755	2,202	578	7,230	3,639	3,109	16,404	3,448	677	604.0
MEAN	9.19	13.7	56.6	71.0	19.9	233	121	100	547	111	21.8	20.1
MAX	20	37	260	285	25	625	364	774	3,970	467	46	61
MIN	5.1	9.0	10	22	16	66	45	17	16	22	18	8.5

CAL YR 1971 TOTAL 18,835.2 MEAN 51.6 MAX 972 MIN 2.4
WTR YR 1972 TOTAL 40,342.7 MEAN 110 MAX 3,970 MIN 5.1

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LOCATION.--Lat 42°18'50", long 77°39'05", Steuben County, on right bank 235 ft upstream from Erie Railroad bridge in Hornell, 0.3 mile upstream from Crosby Creek, and 1.5 miles downstream from Canacadea Creek.

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

AVERAGE DISCHARGE.--30 years, 152 cfs (13.06 inches per year).

Period of record: Maximum discharge, 9,560 cfs June 23, 1972 (gage height, 13.45 ft, from high-water mark), from rating curve extended above 7,600 cfs on basis of critical-depth measurement of peak flow; minimum, 7.4 cfs Sept. 13, 14, 1955.

COOPERATION.--Records of diversion from Carrington Creek furnished by city of Hornell.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	24	60	96	66	220	334	94	214	545	75	41
2	20	25	37	110	66	1,600	417	109	121	419	69	37
3	19	24	32	130	70	1,080	267	122	94	805	79	36
4	19	24	30	120	64	900	240	153	316	668	70	36
5	19	24	30	100	52	922	193	250	207	433	65	36
6	19	24	48	72	52	571	178	174	96	414	62	36
7	24	26	359	72	50	353	178	189	72	348	83	37
8	23	25	202	72	49	1,530	151	548	65	280	108	39
9	18	25	71	76	47	480	133	1,950	63	236	75	35
10	20	28	99	98	46	270	166	790	63	292	64	30
11	22	36	132	270	45	210	180	326	59	319	57	37
12	23	34	104	222	48	360	265	258	54	431	58	45
13	23	33	81	400	46	467	618	208	52	211	58	44
14	22	36	81	490	54	596	539	193	50	120	55	89
15	21	35	155	160	62	335	402	184	56	150	51	71
16	21	32	104	74	56	425	735	410	127	170	49	47
17	20	29	76	86	50	886	886	402	81	175	54	44
18	20	28	82	110	50	580	351	235	57	154	58	41
19	19	28	70	180	57	354	258	199	49	144	52	50
20	19	32	84	150	41	368	475	198	46	226	49	51
21	19	42	90	130	48	434	331	220	5,060	231	48	43
22	20	41	66	100	47	1,430	243	163	6,870	163	47	42
23	21	33	42	260	45	706	264	121	7,440	113	47	40
24	30	32	70	208	44	360	205	100	5,200	106	47	44
25	40	37	72	601	50	260	196	89	3,840	94	46	44
26	31	37	98	170	46	219	161	80	2,240	88	46	42
27	28	41	110	130	44	217	131	74	1,500	83	51	60
28	27	46	100	110	56	187	121	65	1,180	80	48	53
29	27	53	92	92	72	189	110	59	553	73	46	48
30	26	72	190	74	-----	312	102	57	952	71	44	127
31	25	-----	270	66	-----	313	-----	110	-----	71	44	-----
TOTAL	705	1,006	3,137	5,029	1,523	17,134	8,830	8,130	36,777	7,713	1,805	1,425
MEAN	22.7	33.5	101	162	52.5	553	294	262	1,226	249	58.2	47.5
MAX	40	72	359	601	72	1,600	886	1,950	7,440	805	108	127
MIN	18	24	30	66	41	187	102	57	46	71	44	30
CAL YR 1971	TOTAL	46,288.5	MEAN	127	MAX	2,110	MIN	9.5				
WTR YR 1972	TOTAL	93,214.0	MEAN	255	MAX	7,440	MIN	18				

SUSQUEHANNA RIVER BASIN

01526500 TIOGA RIVER NEAR ERWINS, N.Y.

LOCATION.--Lat 42°07'15", long 77°07'45", Steuben County, on right bank 20 ft downstream from bridge on Mulholland Road, 1.1 mile northeast of Erwins, and 1.1 miles downstream from Canisteo River.

DRAINAGE AREA.--1,377 sq mi.

PERIOD OF RECORD.--July 1918 to current year.

GAGE.--Water-stage recorder. Datum of gage is 931.24 ft above mean sea level. Prior to June 21, 1931, nonrecording gage on highway bridge at same datum.

AVERAGE DISCHARGE.--54 years, 1,341 cfs (13.22 inches per year).

EXTREMES.--Current year: Maximum discharge, 190,000 cfs June 23, from rating curve extended as explained below (gage height, 26.74 ft, from high-water marks); minimum, 120 cfs Sept. 11, 12; minimum gage height, 1.03 ft Oct. 22-24

Period of record: Maximum discharge, 190,000 cfs June 23, 1972, from rating curve extended above 44,000 cfs on basis of slope-area measurements at gage heights 18.82 and 23.54 ft and on computation of peak flow at Lindley and Canisteo River at Erwins, 7.2 and 2.0 miles upstream, respectively, adjusted for flow from intervening area (gage height, 26.74 ft, from high-water marks); minimum, 18 cfs Sept. 2, 3, 1939; minimum gage height, 0.40 ft Sept. 8, 9, 1954, July 23, Aug. 10, 11, 1955.

REMARKS.--Records good except those for winter periods and those for period of no gage-height record, which are fair. High flows slightly regulated by upstream reservoirs.

REVISIONS (WATER YEARS).--WSP 891: 1935-38. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	255	599	2,790	460	700	3,480	1,060	1,110	6,200	315	165
2	196	255	410	2,060	440	12,000	4,490	1,170	992	3,900	315	162
3	175	404	330	1,720	420	23,000	3,920	1,790	768	3,400	320	153
4	161	372	320	1,410	420	8,920	3,100	2,070	1,230	6,000	340	147
5	148	338	290	1,300	420	6,490	2,590	2,840	2,290	3,200	310	144
6	147	306	330	840	400	4,300	2,310	2,110	1,080	3,100	270	144
7	161	306	814	860	400	3,300	2,320	1,770	790	2,700	265	141
8	171	322	5,210	900	390	8,050	2,090	2,090	621	2,100	536	138
9	180	300	2,880	840	380	5,200	1,850	11,400	543	1,700	474	138
10	187	290	2,190	880	370	3,200	2,190	12,300	569	1,600	340	135
11	227	285	1,850	1,560	370	2,300	2,130	5,870	530	1,600	285	123
12	248	281	1,470	2,210	370	2,490	2,470	3,930	458	1,510	256	126
13	221	279	1,190	1,760	390	4,640	3,730	2,980	410	1,430	236	144
14	209	266	966	4,150	620	5,000	5,320	2,480	390	1,330	228	153
15	204	260	964	1,800	800	3,490	3,970	2,550	380	1,410	220	192
16	196	287	1,880	740	820	3,040	5,320	2,730	980	1,860	204	216
17	187	290	1,320	740	700	7,440	14,200	4,080	1,000	1,620	200	165
18	187	267	1,040	1,100	600	6,740	6,310	3,490	580	1,190	208	153
19	193	256	820	1,300	600	5,250	4,400	2,480	490	930	216	184
20	172	259	800	1,200	560	4,490	4,830	2,070	450	1,580	196	216
21	139	272	780	1,000	560	5,140	4,720	2,230	13,000	1,410	180	196
22	134	281	740	900	560	10,500	3,430	1,760	46,000	992	171	174
23	132	270	560	1,500	560	10,200	3,390	1,370	110,000	756	168	159
24	152	250	560	2,060	560	5,330	2,800	1,140	26,000	613	174	159
25	280	260	600	3,010	580	3,740	2,390	960	18,000	543	184	159
26	500	270	600	2,100	580	2,970	1,990	820	12,000	480	180	159
27	506	266	761	1,000	540	2,590	1,690	709	7,800	444	165	162
28	399	281	828	800	540	2,390	1,450	634	5,800	414	174	188
29	333	330	922	640	540	2,240	1,290	569	4,300	384	177	192
30	295	453	1,060	540	-----	3,080	1,150	524	8,600	345	162	200
31	270	-----	5,870	500	-----	3,330	-----	647	-----	325	153	-----
TOTAL	6,933	8,811	38,954	44,210	14,950	171,550	105,320	82,623	267,161	55,066	7,622	4,887
MEAN	224	294	1,257	1,426	516	5,534	3,511	2,665	8,905	1,776	246	163
MAX	506	453	5,870	4,150	820	23,000	14,200	12,300	110,000	6,200	536	216
MIN	132	250	290	500	370	700	1,150	524	380	325	153	123
CFSM	.16	.21	.91	1.04	.37	4.02	2.55	1.94	6.47	1.29	.18	.12
IN.	.19	.24	1.05	1.19	.40	4.63	2.85	2.23	7.22	1.49	.21	.13

CAL YR 1971 TOTAL 472,894 MEAN 1,296 MAX 21,800 MIN 55 CFSM .94 IN 12.78
WTR YR 1972 TOTAL 808,087 MEAN 2,208 MAX 110,000 MIN 123 CFSM 1.60 IN 21.83

PEAK DISCHARGE (BASE, 17,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	0300	16.54	29,000	6-23	0800	26.74	190,000
4-17	0500	11.11	20,100				
f About.							

NOTE.--No gage-height record June 14 to July 11.

01527000 COHOCTON RIVER AT COHOCTON, N.Y.

LOCATION.--Lat 42°30'00", long 77°30'02", Steuben County, on left bank 450 ft downstream from bridge on U.S. Highway 15 at Cohocton, 800 ft downstream from small tributary, and 1.4 miles upstream from Reynolds Creek.

DRAINAGE AREA.--52.2 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 1,275.49 ft above mean sea level.

AVERAGE DISCHARGE.--22 years, 53.9 cfs (14.02 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,260 cfs June 23 (gage height, 9.82 ft); minimum, 8.0 cfs Oct. 23-24 (gage height, 1.80 ft).

Period of record: Maximum discharge, 2,260 cfs June 23, 1972 (gage height, 9.82 ft); minimum, 0.1 cfs Oct. 6, 1954 (gage height, 1.30 ft), result of regulation from unknown cause.

REVISIONS.--Figures of maximum discharge for the water years 1970 and 1971 have been revised to 468 cfs April 11, 1970 (gage height, 5.33 ft) and 578 cfs Apr. 15, 1971 (gage height, 5.76 ft) superseding figures published in WRD N.Y. 1970 and 1971.

REMARKS.--Records fair.

REVISIONS.--WRD N.Y. 1969: Drainage area. Revised figures of discharge, in cubic feet per second, for the water years 1970 and 1971, superseding those published in WRD N.Y. 1970, 1971, are given herewith:

DISCHARGE, IN CUBIC FEET PER SECOND, 1970

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
Mar. 27	182	Apr. 2	232	Apr. 8	202	Apr. 14	225	Apr. 20	187
28	208	3	332	9	304	15	215	21	181
29	197	4	331	10	433	16	221	22	172
30	173	5	279	11	440	17	223	25	172
31	164	6	230	12	336	18	221	26	176
Apr. 1	160	7	204	13	257	19	202	27	164

DISCHARGE, IN CUBIC FEET PER SECOND, 1971

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
Nov. 15	198	Mar. 7	110	Apr. 6	168	Apr. 19	218	May 2	112
16	239	8	100	7	165	20	204	3	106
17	250	15	185	8	165	21	196	4	107
18	225	16	322	9	180	22	187	5	106
19	188	17	318	10	252	23	174	9	106
20	157	18	266	11	279	24	158	10	117
21	135	19	200	12	286	25	141	11	111
22	119	20	170	13	340	26	132	12	105
Feb. 28	160	21	152	14	538	27	123	13	103
Mar. 1	200	Apr. 2	132	15	552	28	118	14	101
2	180	3	169	16	415	29	120		
3	160	4	175	17	295	30	122		
4	120	5	172	18	242	May 1	117		

Month	Cfs-days	Mean	Maximum	Minimum
March 1970	2,410	77.7	208	38
April 1970	6,818	227	440	120
WTR YR 1970	19,527.3	53.5	440	5.3
CAL YR 1970	23,206.1	63.6	440	6.1
Nov. 1970	2,981	99.4	250	40
Feb. 1971	992	35.4	160	21
March 1971	4,156	134	322	76
April 1971	6,509	217	552	91
May 1971	2,369	76.4	117	30
WTR YR 1971	23,558.5	64.5	552	1.7
CAL YR 1971	19,945.0	54.6	552	1.7

REVISED PEAK DISCHARGE.--1970: Apr. 3 (2200) 346 cfs (4.81 ft); Apr. 11 (0200) 468 cfs (5.33 ft).

1971: Nov. 17 (0500) 254 cfs (4.31 ft); Mar. 1 (1800) 230 cfs (4.16 ft); Mar. 16 (2200) 328 cfs (4.72 ft); Apr. 15 (0500) 578 cfs (5.76 ft).

SUSQUEHANNA RIVER BASIN
01527000 COHOCTON RIVER AT COHOCTON, N.Y.--CONTINUED

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	13	25	95	52	32	128	67	87	208	38	20
2	17	12	23	89	50	138	143	69	88	188	38	20
3	16	12	21	87	48	163	148	76	70	171	41	19
4	15	12	20	77	50	186	144	88	60	165	44	18
5	14	13	20	68	47	199	128	93	52	166	41	18
6	14	13	23	66	45	218	112	90	47	150	37	17
7	15	13	45	60	43	180	102	92	44	137	37	17
8	15	13	100	54	40	217	93	106	40	124	36	16
9	16	12	116	52	37	213	84	188	39	110	36	14
10	16	13	113	48	35	193	79	237	37	105	36	14
11	17	14	109	54	33	185	81	220	35	98	34	14
12	17	15	99	60	33	173	85	189	33	89	32	13
13	15	15	89	64	34	173	123	156	30	80	31	13
14	14	15	77	76	35	173	203	133	30	79	31	18
15	13	16	78	80	36	173	243	122	31	82	30	31
16	12	17	83	70	34	173	262	138	41	88	30	39
17	11	17	81	56	31	172	279	163	56	92	30	31
18	11	16	72	47	29	177	276	148	44	85	30	25
19	11	16	58	52	28	162	238	127	36	73	29	26
20	9.5	16	50	48	27	148	213	113	32	72	28	27
21	9.5	17	49	44	26	146	189	110	246	79	27	26
22	9.0	18	47	38	25	202	168	103	741	76	25	24
23	8.5	17	45	52	25	256	154	87	2,120	66	24	20
24	11	16	43	64	25	249	143	76	1,720	58	22	21
25	16	16	44	72	26	214	125	68	975	55	20	21
26	21	17	48	66	26	182	111	60	608	62	20	23
27	19	20	52	60	25	152	99	53	453	64	22	23
28	17	21	53	58	25	127	87	50	340	55	26	22
29	15	22	51	52	25	113	77	45	265	48	25	21
30	13	25	60	54	-----	114	70	44	233	44	23	23
31	12	-----	83	54	-----	124	-----	60	-----	40	21	-----
TOTAL	437.5	472	1,877	1,917	995	5,327	4,387	3,371	8,633	3,009	944	634
MEAN	14.1	15.7	60.5	61.8	34.3	172	146	109	288	97.1	30.5	21.1
MAX	21	25	116	95	52	256	279	237	2,120	208	44	39
MIN	8.5	12	20	38	25	32	70	44	30	40	20	13
CFSM	.27	.30	1.16	1.18	.66	3.30	2.80	2.09	5.52	1.86	.58	.40
IN.	.31	.34	1.34	1.37	.71	3.80	3.13	2.40	6.15	2.14	.67	.45

CAL YR 1971 TOTAL 19,945.0 MEAN 54.6 MAX 552 MIN 1.7 CFSM 1.05 IN 14.21
WTR YR 1972 TOTAL 32,003.5 MEAN 87.4 MAX 2,120 MIN 8.5 CFSM 1.67 IN 22.81

PEAK DISCHARGE (BASE, 300 CFS).--June 23 (1600) 2,260 cfs (9.82 ft).

01528000 FIVEMILE CREEK NEAR KANONA, N.Y.

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, on left bank just downstream from town of Wheeler highway bridge, 1.3 miles upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 sq mi.

PERIOD OF RECORD.--February 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,171.30 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--35 years, 72.2 cfs (14.68 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,110 cfs June 23 (gage height, 5.95 ft); minimum, 1.2 cfs Oct. 19, 20, 21, 22, 23 (gage height, 0.35 ft); minimum gage height, 0.06 ft Sept. 5 (result of channel improvement).

Period of record: Maximum discharge, 5,110 cfs June 23, 1972 (gage height, 5.95 ft); maximum gage height, 6.10 ft Mar. 31, 1940 (ice jam); minimum discharge, 0.04 cfs Sept. 27, 29, 1941.

REMARKS.--Records good except those for winter periods, which are fair. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.6	20	181	46	28	302	46	92	389	18	7.8
2	1.7	2.6	19	127	42	310	350	53	50	183	18	7.8
3	1.5	2.3	17	100	41	1,000	248	61	34	299	26	7.0
4	1.5	2.3	12	79	42	1,100	189	94	47	369	22	7.0
5	1.5	2.3	12	68	38	640	147	170	38	170	16	6.6
6	1.7	2.8	16	54	36	560	132	108	25	147	14	7.0
7	2.1	3.1	118	52	30	370	110	106	22	111	28	6.6
8	1.9	2.8	376	54	28	320	93	211	18	102	34	6.6
9	1.9	2.8	205	52	28	410	87	841	16	81	21	6.6
10	2.1	3.1	149	46	27	390	103	736	16	97	16	6.6
11	1.9	3.9	121	86	26	360	122	297	15	80	13	6.3
12	1.7	3.9	98	129	27	179	175	163	14	59	12	5.9
13	1.9	3.7	72	139	30	200	409	120	13	58	15	7.0
14	1.9	3.7	55	263	33	130	582	117	13	69	11	11
15	1.7	3.9	107	140	33	110	319	129	13	71	13	14
16	1.5	3.9	190	80	30	110	324	257	21	78	14	9.9
17	1.4	3.7	114	80	26	276	559	154	16	68	14	8.6
18	1.5	3.7	84	58	24	352	288	117	12	65	12	8.2
19	1.4	3.9	72	72	23	254	181	86	11	45	10	13
20	1.2	4.8	60	68	22	206	222	89	10	122	9.0	11
21	1.4	5.3	58	54	22	239	226	117	1,980	309	8.2	9.9
22	1.2	5.4	56	46	21	601	162	77	3,770	86	7.4	7.8
23	1.2	3.9	47	84	21	745	165	55	4,180	53	8.6	6.6
24	2.6	3.9	41	93	23	376	132	45	2,620	39	9.0	7.4
25	3.9	4.8	42	177	24	203	110	38	1,210	31	10	8.2
26	5.0	5.7	69	121	23	159	87	32	595	34	7.8	8.2
27	4.5	6.4	121	68	22	134	71	28	377	28	24	9.0
28	3.7	7.6	112	56	22	117	61	29	203	24	48	8.2
29	2.8	10	91	52	22	132	54	22	118	22	19	7.4
30	2.8	20	123	52	-----	235	48	20	576	19	12	9.9
31	2.8	-----	314	49	-----	250	-----	31	-----	18	9.5	-----
TOTAL	65.8	138.8	2,991	2,780	832	10,496	6,058	4,449	16,125	3,326	499.5	247.1
MEAN	2.12	4.63	96.5	89.7	28.7	339	202	144	538	107	16.1	8.24
MAX	5.0	20	376	263	46	1,100	582	841	4,180	389	48	14
MIN	1.2	2.3	12	46	21	28	48	20	10	18	7.4	5.9
CFSM	.03	.07	1.44	1.34	.43	5.07	3.02	2.16	8.05	1.60	.24	.12
IN.	.04	.08	1.67	1.55	.46	5.85	3.37	2.48	8.98	1.85	.28	.14
CAL YR 1971	TOTAL 26,877.34			MEAN 73.6	MAX 1,300	MIN .74	CFSM 1.10	IN 14.97				
WTR YR 1972	TOTAL 48,008.20			MEAN 131	MAX 4,180	MIN 1.2	CFSM 1.96	IN 26.74				

PEAK DISCHARGE (BASE, 880 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-4	0400	3.78	1,320	6-23	0200	5.95	5,110
5-9	1900	3.42	1,000				

SUSQUEHANNA RIVER BASIN

01528700 DIVERSION FROM WANETA LAKE TO KEUKA LAKE AT KEUKA, N.Y.

LOCATION.--Lat 42°29'06", Long 77°06'39" Stueben County, at entrance to conduit on Diversion Canal, 0.8 mile west of Keuka and 1.0 mile north of Wayne.

DRAINAGE AREA.--45.5 sq mi.

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

GAGE.--Daily power generation records.

AVERAGE DISCHARGE.--6 years, 25.4 cfs.

EXTREMES.--Current year: Maximum discharge, 73 cfs June 23; no flow for many days.

Period of record: Maximum discharge, 73 cfs June 23, 1972; no flow for many days each year.

REMARKS.--Records for period January 1951 to September 1966 on file. Sketch indicates diversion from Lamoka-Waneta Lakes (Susquehanna River Basin) to Keuka Lake (Oswego River Basin).

COOPERATION.--Records furnished by New York State Electric and Gas Corporation.

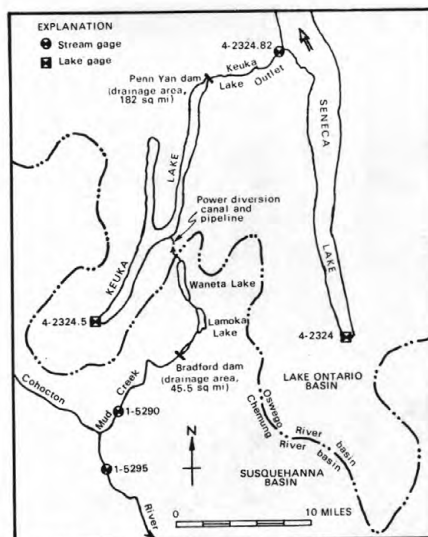


Figure 14.--Gaging stations and transbasin diversion, Cohocton River-Keuka Lake area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	19	32	0	10	42	68	68	0	66	0	
2	0	32	13	0	0	42	68	68	30	66	0	
3	0	32	0	20	21	39	68	68	55	66	0	
4	17	32	0	34	26	72	68	68	55	63	0	
5	34	21	0	34	0	72	68	60	55	58	0	
6	34	0	19	34	0	72	68	60	55	53	0	
7	34	0	32	22	24	69	68	55	55	42	0	
8	21	19	32	0	42	69	68	42	55	42	0	
9	0	32	32	0	42	69	68	42	55	42	0	
10	0	32	20	0	42	69	68	55	55	18	0	
11	20	32	0	17	26	68	68	60	60	0	23	
12	34	32	0	34	0	68	69	60	60	0	55	
13	34	32	15	34	0	68	69	63	60	0	38	
14	34	32	32	20	21	68	69	63	60	0	33	
15	21	32	32	0	42	68	69	63	55	0	0	
16	0	32	32	0	42	68	69	30	45	0	0	
17	0	31	20	32	42	68	69	24	0	0	0	
18	0	0	0	55	26	68	69	45	0	0	0	
19	0	20	0	55	0	68	69	34	0	0	0	
20	14	0	19	55	0	68	69	0	0	0	0	
21	34	0	32	55	0	68	69	0	38	0	0	
22	21	0	32	55	17	68	69	38	60	0	0	
23	19	0	20	55	42	68	69	68	73	0	0	
24	0	0	0	55	7.0	68	69	68	60	0	0	
25	0	0	0	55	0	68	69	68	60	0	0	
26	0	0	0	49	0	68	69	68	66	0	0	
27	32	0	19	42	0	68	68	68	66	0	0	
28	32	0	32	42	24	68	68	68	66	0	0	
29	20	19	32	42	42	68	68	68	66	7.0	0	
30	0	32	20	42	-----	68	68	68	66	0	0	
31	0	-----	0	42	-----	68	-----	39	-----	0	0	-----
TOTAL	476	513	517	980	538.0	2,043	2,055	1,649	1,431	523.0	149	0
MEAN	15.4	17.1	16.7	31.6	18.6	65.9	68.5	53.2	47.7	16.9	4.81	0
MAX	34	32	32	55	42	72	69	68	73	66	55	0
MIN	0	0	0	0	0	39	68	0	0	0	0	0

CAL YR 1971 TOTAL 9,388 MEAN 25.7 MAX 72 MIN 0
WTR YR 1972 TOTAL 10,874.0 MEAN 29.7 MAX 73 MIN 0

SUSQUEHANNA RIVER BASIN

171

01529000 MUD CREEK NEAR SAVONA, N.Y.

LOCATION.--Lat 42°18'30", long 77°11'50", Steuben County, on left bank just upstream from small tributary entering from east, 2.4 miles upstream from Savona and 3.3 miles upstream from mouth.

DRAINAGE AREA.--76.6 sq mi.

PERIOD OF RECORD.--July 1918 to December 1919 (published as "at Savona"), March 1937 to current year. Monthly records of diversion from Waneta Lake for the period January 1951 to September 1966 available in files of Geological Survey.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,049.63 ft above mean sea level (levels by Corps of Engineers). Prior to December 1919, nonrecording gage at site 1.5 miles downstream at different datum.

AVERAGE DISCHARGE.--35 years (1937-72), 40.8 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 6,100 cfs June 23 (gage height, 8.66 ft), from rating curve extended above 1,350 cfs on basis of slope-area measurement of peak flow; minimum, 2.3 cfs Oct. 4-5 (gage height, 0.67 ft).

Period of record: Maximum discharge, 6,100 cfs June 23, 1972 (gage height, 8.66 ft), from rating curve extended above 1,350 cfs on basis of slope-area measurement of peak flow; minimum, 0.04 cfs Sept. 21, 22, 23, 1941 (gage height, 0.53 ft).

REMARKS.--Records fair. Flow regulated by Lake Lamoka-Waneta System. Diversion table for station 01528700 represents discharge from 45.5 sq mi of drainage area from the Susquehanna River basin to the St. Lawrence River basin through the Keuka power diversion canal of New York State Electric and Gas Corp.

COOPERATION.--Records of diversion furnished by New York State Electric and Gas Corp.

REVISIONS.--WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	3.7	11	50	11	18	109	32	59	200	11	4.5
2	2.9	3.8	7.6	36	9.9	283	135	40	37	129	11	4.2
3	2.7	3.6	5.9	33	10	696	118	45	26	133	11	4.1
4	2.4	3.5	5.5	25	12	433	94	45	41	460	11	4.1
5	2.7	3.1	4.9	18	11	239	79	62	36	443	9.7	4.2
6	2.9	3.0	8.8	18	10	146	72	44	24	353	9.4	3.9
7	4.5	3.9	37	16	10	104	67	47	21	370	19	3.8
8	3.7	4.2	55	15	10	140	59	83	17	283	39	4.5
9	3.7	3.6	33	14	10	130	55	405	15	229	20	4.5
10	4.3	3.7	25	16	10	86	59	458	17	215	12	3.8
11	3.7	4.1	20	27	10	64	60	331	14	135	11	4.1
12	3.5	4.0	15	36	10	64	64	254	13	91	9.5	3.7
13	3.7	3.8	13	40	11	79	96	168	13	84	8.9	4.1
14	3.7	3.3	11	86	15	77	120	101	13	150	8.5	5.6
15	3.5	3.5	22	49	15	68	88	90	16	205	8.5	6.1
16	3.3	3.5	37	20	13	73	105	112	40	231	7.6	5.0
17	3.1	3.3	26	13	12	170	199	121	26	200	7.8	4.6
18	3.1	3.2	19	14	12	233	140	91	15	75	7.6	5.2
19	2.9	2.9	15	22	11	204	109	75	13	33	6.8	6.6
20	2.7	3.7	14	21	10	177	130	81	11	31	8.4	6.2
21	2.7	3.6	15	18	10	193	141	99	329	36	7.1	4.8
22	2.5	3.7	14	16	10	343	111	80	2,250	29	5.6	4.8
23	2.4	3.7	9.9	33	11	517	115	107	5,110	24	5.1	4.2
24	4.0	3.2	9.4	31	12	367	100	105	2,510	20	5.7	4.6
25	11	3.9	10	42	12	313	90	49	1,560	18	5.0	5.8
26	12	4.1	14	33	11	284	78	34	1,210	16	5.6	6.2
27	8.0	4.5	18	20	10	249	57	26	984	16	5.4	7.4
28	5.0	5.9	18	15	9.8	105	48	21	794	14	5.3	7.4
29	3.8	7.6	16	14	9.8	71	42	18	687	13	5.0	6.6
30	3.7	15	27	13	-----	104	37	16	388	12	4.7	8.4
31	3.7	-----	89	12	-----	104	-----	23	-----	11	4.6	-----
TOTAL	125.1	126.6	626.0	816	318.5	6,134	2,777	3,263	16,289	4,259	296.8	153.0
MEAN	4.04	4.22	20.2	26.3	11.0	198	92.6	105	543	137	9.57	5.10
MAX	12	15	89	86	15	696	199	458	5,110	460	39	8.4
MIN	2.4	2.9	4.9	12	9.8	18	37	16	11	11	4.6	3.7

CAL YR 1971 TOTAL 12,328.6 MEAN 33.8 MAX 631 MIN 1.7
WTR YR 1972 TOTAL 35,184.0 MEAN 96.1 MAX 5,110 MIN 2.4

SUSQUEHANNA RIVER BASIN

01529500 COHOCTON RIVER NEAR CAMPBELL, N.Y.

LOCATION.--Lat 42°15'10", long 77°13'00", Steuben County, on left bank just downstream from bridge on town road at junction with County Highway 125, 1.9 miles upstream from Michigan Creek and 2 miles north of Campbell.

DRAINAGE AREA.--470 sq mi.

PERIOD OF RECORD.--July 1918 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,016.34 ft (revised) above mean sea level. Prior to Mar. 5, 1937, nonrecording gage on highway bridge.

AVERAGE DISCHARGE.--54 years, 441 cfs.

EXTREMES.--Current year: Maximum discharge, 32,000 cfs June 23 (gage height, 11.16 ft); minimum, 40 cfs Oct. 21, 22; minimum gage height, 0.45 ft Sept. 9.

Period of record: Maximum discharge, 41,100 cfs July 8, 1935 (gage height, 11.6 ft, from floodmarks), from rating curve extended above 24,200 cfs on basis of velocity-area and slope-area measurements of peak flow; minimum, 8 cfs Sept. 6, 7, 1934.

REMARKS.--Records good except those for winter periods, which are fair. During each year since 1927, a large part of flow from 45.5 sq mi of drainage area upstream from Lake Lamoka on Mud Creek, a tributary upstream from this station, is diverted into Keuka Lake (Oswego River basin), for power development. For table of diversion, see station 01528700.

REVISIONS (WATER YEARS).--WSP 891: 1935. WSP 1302: 1919-20(M), 1927-28(M), 1928-38 (Monthly runoff). WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	62	168	838	290	400	1,380	440	696	2,060	215	105
2	61	64	110	682	270	2,460	1,580	498	530	1,360	212	101
3	56	63	90	587	260	3,560	1,290	530	456	1,560	238	97
4	52	64	78	509	270	2,350	1,080	595	569	2,190	222	97
5	51	62	60	471	260	1,860	916	812	504	1,620	201	93
6	51	60	110	385	250	1,310	836	634	375	1,410	184	91
7	55	64	300	340	230	1,170	752	647	332	1,300	242	91
8	56	64	1,200	330	220	2,130	668	1,010	296	1,230	370	91
9	54	59	833	310	210	1,610	621	3,730	279	988	242	93
10	57	61	677	290	200	1,200	668	3,210	275	1,020	198	87
11	57	65	597	450	190	948	689	2,020	258	908	181	83
12	56	67	501	560	190	980	844	1,430	238	689	168	85
13	57	64	420	590	200	1,210	1,530	1,130	230	689	161	87
14	53	62	354	1,160	220	1,160	2,160	980	230	964	152	117
15	49	66	464	641	220	940	1,620	924	230	812	150	161
16	49	68	746	400	210	916	1,860	1,280	385	892	147	126
17	47	66	525	350	190	1,880	2,730	1,360	310	956	150	114
18	47	63	400	310	180	1,940	1,750	1,040	258	621	150	110
19	45	65	350	400	170	1,550	1,350	868	230	462	142	150
20	43	73	280	360	160	1,370	1,530	860	215	517	131	133
21	44	77	260	290	160	1,530	1,400	940	9,560	1,080	126	117
22	42	80	250	270	160	2,940	1,160	759	19,300	601	119	105
23	44	76	210	400	160	3,200	1,130	682	24,200	462	114	97
24	64	70	180	450	170	2,110	964	627	12,400	390	121	99
25	127	70	190	794	170	1,510	860	523	7,090	337	121	114
26	139	78	280	541	170	1,260	745	450	4,590	332	114	105
27	113	85	418	400	160	1,120	647	410	3,440	314	119	121
28	89	97	409	350	160	916	575	390	2,640	292	201	114
29	78	117	373	320	160	860	517	365	2,050	266	142	105
30	70	167	463	320	-----	1,190	468	346	2,840	242	123	119
31	67	-----	1,290	310	-----	1,220	-----	385	-----	222	112	-----
TOTAL	1,942	2,199	12,586	14,408	5,860	48,800	34,320	29,875	95,006	26,786	5,268	3,208
MEAN	62.6	73.3	406	465	202	1,574	1,144	964	3,167	864	170	107
MAX	139	167	1,290	1,160	290	3,560	2,730	3,730	24,200	2,190	370	161
MIN	42	59	60	270	160	400	468	346	215	222	112	83
CAL YR 1971	TOTAL 146,582	MEAN 402	MAX 5,170	MIN 32								
WTR YR 1972	TOTAL 280,258	MEAN 766	MAX 24,200	MIN 42								

PEAK DISCHARGE (BASE, 4,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	1630	6.50	6,580	6-23	0300	11.16	32,000
6-21	1830	10.86	27,400				

01530500 NEWTOWN CREEK AT ELMIRA, N.Y.

LOCATION.--Lat 42°06'11", long 76°47'54", Chemung County, on left bank 200 ft downstream from Linden Place Bridge in Elmira, and 1.5 miles upstream from mouth.

DRAINAGE AREA.--77.5 sq mi.

PERIOD OF RECORD.--May 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 834.53 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--34 years, 86.0 cfs (15.07 inches per year).

EXTREMES.--Current year: Maximum discharge, about 4,000 cfs June 23; maximum gage height, 19.28 ft June 23, from floodmarks (backwater from Chemung River); minimum discharge, 6.0 cfs Oct. 18, Nov. 24; minimum gage height, 4.50 ft Oct. 3, 4.

Period of record: Maximum discharge, about 4,000 cfs June 23, 1972; maximum gage height, 19.28 ft June 23, 1972, from floodmarks (backwater from Chemung River); minimum daily discharge, 5.0 cfs Aug. 22, Sept. 19, 1965.

REMARKS.--Records fair except those for period of no gage-height record, which are poor.

REVISIONS (WATER YEARS).--WSP 1502: 1956. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	7.7	23	142	28	58	268	67	78	294	27	24
2	11	9.3	18	118	27	800	305	71	69	147	27	20
3	10	9.9	16	100	26	1,000	219	102	64	142	30	18
4	10	10	16	85	26	541	174	123	55	176	27	17
5	12	8.9	12	77	26	329	145	164	58	113	25	17
6	12	9.0	27	57	26	258	135	105	46	102	24	17
7	12	12	265	63	25	172	127	96	44	87	27	17
8	11	12	440	57	25	232	109	190	39	83	30	16
9	11	12	198	52	25	174	107	1,450	43	71	27	17
10	11	13	146	57	25	128	124	828	49	68	25	15
11	12	13	116	111	25	105	134	334	36	64	24	15
12	14	13	88	114	27	128	159	206	33	53	23	17
13	14	12	74	149	29	195	374	154	35	55	22	19
14	13	12	62	228	46	164	317	162	34	95	31	23
15	11	12	91	78	55	137	242	174	34	70	79	21
16	8.2	12	132	41	57	158	347	174	64	68	40	18
17	7.0	12	83	43	44	452	453	188	51	110	33	16
18	6.6	13	68	53	38	436	222	132	38	60	31	16
19	8.0	12	57	68	35	338	167	114	37	66	27	21
20	8.8	13	55	54	26	269	237	104	36	75	26	20
21	8.8	13	47	50	26	325	191	115	314	63	24	17
22	7.1	14	39	43	26	1,010	156	97	2,300	50	28	15
23	7.7	15	39	92	27	676	203	83	2,700	43	32	15
24	9.0	11	41	86	29	296	145	73	800	39	33	17
25	11	7.8	42	84	29	201	125	68	500	36	35	18
26	9.8	8.2	46	52	28	165	106	62	400	35	37	17
27	8.7	9.2	59	39	26	145	93	54	360	33	33	17
28	8.6	11	74	35	26	129	83	49	234	31	32	14
29	9.5	13	65	33	26	149	76	47	151	29	32	12
30	9.0	21	181	31	-----	245	70	46	216	27	30	15
31	7.5	-----	346	29	-----	241	-----	51	-----	27	27	-----
TOTAL	311.3	351.0	2,966	2,321	884	9,656	5,613	5,683	8,918	2,412	948	521
MEAN	10.0	11.7	95.7	74.9	30.5	311	187	183	297	77.8	30.6	17.4
MAX	14	21	440	228	57	1,010	453	1,450	2,700	294	79	24
MIN	6.6	7.7	12	29	25	58	70	46	33	27	22	12
CFSM	.13	.15	1.23	.97	.39	4.01	2.41	2.36	3.83	1.00	.39	.22
IN.	.15	.17	1.42	1.11	.42	4.63	2.69	2.73	4.28	1.16	.46	.25

CAL YR 1971 TOTAL 27,654.7 MEAN 75.8 MAX 1,060 MIN 6.6 CFSM .98 IN 13.27
WTR YR 1972 TOTAL 40,584.3 MEAN 111 MAX 2,700 MIN 6.6 CFSM 1.43 IN 19.48

PEAK DISCHARGE (BASE, 1,200 CFS)

NOTE.--No gage-height record June 23-27.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	0045	12.10	f 2,000	5-9	0900	10.77	1,640
3-22	2045	10.84	1,660	6-23	f 0500	a19.28	f 4,000

a At about 1500
f About

01531000 CHEMUNG RIVER AT CHEMUNG, N.Y.

LOCATION.--Lat 42°00'08", long 76°38'06", Chemung County, on right bank 100 ft upstream from bridge on State Highway 427, 0.7 mile southwest of Chemung, and 10 miles upstream from mouth.

DRAINAGE AREA.--2,506 sq mi.

PERIOD OF RECORD.--September 1903 to current year (gage heights only for some winter periods).

GAGE.--Water-stage recorder. Datum of gage is 778.63 ft above mean sea level (levels by Corps of Engineers). Prior to Jan. 10, 1930, nonrecording gage on highway bridge 60 ft upstream at same datum.

AVERAGE DISCHARGE.--66 years (1905-13, 1914-72), 2,481 cfs (13.44 inches per year).

EXTREMES.--Current year: Maximum discharge, 189,000 cfs June 23 (gage height, 31.62 ft, from high-water mark), from rating curve extended as explained below; minimum, 245 cfs Oct. 24 (gage height, 3.25 ft).

Period of record: Maximum discharge, 189,000 cfs June 23, 1972 (gage height, 31.62 ft, from high-water mark), from rating curve extended above 65,000 cfs on basis of slope-area and velocity-area studies at gage height 19.57 ft and slope-area and contracted opening measurements at gage heights 23.97 and 31.62 ft; minimum, 49 cfs Aug. 14, 1911 (gage height, 1.47 ft).

REMARKS.--Records good. High flows slightly regulated by upstream reservoirs. During each year a large part of flow from 45.5 sq mi of drainage area is diverted from Mud Creek, an upstream tributary, into Keuka Lake (Oswego River basin) for power development. For table of diversion, see station 01528700.

REVISIONS (WATER YEARS).--WSP 891: 1935-39. WSP 1432: 1904, 1907, 1915. WRD N.Y. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	428	478	1,260	6,820	1,300	1,100	6,860	2,330	2,190	14,000	820	388
2	435	456	1,210	4,730	1,200	12,000	8,420	2,290	2,810	7,520	808	366
3	442	449	840	4,070	1,100	46,000	8,000	2,990	2,420	5,660	820	352
4	388	613	817	3,360	1,100	20,300	6,240	3,720	2,170	9,280	820	338
5	370	568	763	2,980	1,000	13,100	5,390	4,780	4,990	6,410	796	324
6	346	518	786	2,460	960	9,290	4,720	4,320	3,320	5,230	749	324
7	340	494	1,810	2,090	960	6,830	4,480	3,580	2,330	5,080	727	324
8	325	486	8,790	2,130	920	9,430	4,180	3,900	1,820	4,490	932	317
9	352	502	7,360	2,050	900	11,600	3,760	17,200	1,550	3,700	1,210	317
10	376	478	5,300	1,860	880	6,980	4,000	25,800	1,650	3,300	945	310
11	388	463	4,410	2,320	880	5,840	4,040	13,900	1,480	3,460	796	298
12	407	456	3,700	4,070	880	4,590	4,540	8,590	1,300	2,940	716	298
13	449	463	3,010	3,540	900	6,950	5,940	6,300	1,170	2,640	672	310
14	407	456	2,490	6,430	1,300	7,510	10,300	5,260	1,090	2,900	650	366
15	376	435	2,200	5,100	1,510	6,660	8,240	5,240	1,030	2,820	997	373
16	358	421	3,610	2,370	1,620	5,290	8,100	5,110	1,760	2,860	760	420
17	346	442	3,620	1,570	1,690	10,800	20,800	7,220	2,890	3,300	650	444
18	325	449	2,700	2,240	1,510	13,400	13,200	6,550	1,860	2,600	630	396
19	325	472	2,140	2,680	1,230	10,800	8,590	5,140	1,430	2,100	620	436
20	325	450	2,000	2,550	1,010	8,730	7,650	4,300	1,230	2,350	590	460
21	300	444	1,940	2,320	1,000	9,330	9,430	4,540	3,140	2,900	541	460
22	270	467	1,900	1,770	1,000	15,500	6,600	4,060	59,400	2,440	514	420
23	255	472	1,500	2,170	1,000	23,300	6,520	3,300	159,000	1,900	487	380
24	260	464	1,350	3,000	1,000	12,900	5,610	2,830	108,000	1,570	469	380
25	300	462	1,500	3,780	1,000	8,380	4,870	2,440	36,000	1,370	478	380
26	486	458	1,450	5,120	1,000	6,440	4,200	2,040	22,400	1,230	496	380
27	1,030	521	1,630	2,600	960	5,560	3,640	1,770	14,900	1,160	469	380
28	934	513	1,970	2,310	960	4,920	3,170	1,580	10,200	1,070	428	359
29	720	577	2,070	2,000	960	4,590	2,850	1,430	7,550	1,020	487	380
30	595	814	2,220	1,700	-----	5,560	2,560	1,340	10,600	932	460	396
31	518	-----	8,020	1,500	-----	6,690	-----	1,340	-----	868	412	-----
TOTAL	13,176	14,741	84,366	93,690	31,730	320,370	196,900	165,190	471,680	109,100	20,949	11,076
MEAN	425	491	2,721	3,022	1,094	10,330	6,563	5,329	15,720	3,519	676	369
MAX	1,030	814	8,790	6,820	1,690	46,000	20,800	25,800	159,000	14,000	1,210	460
MIN	255	421	763	1,500	880	1,100	2,560	1,340	1,030	868	412	298
CFSM	.17	.20	1.09	1.21	.44	4.12	2.62	2.13	6.27	1.40	.27	.15
IN.	.20	.22	1.25	1.39	.47	4.76	2.92	2.45	7.00	1.62	.31	.16
CAL YR 1971	TOTAL	889,432	MEAN	2,437	MAX	39,200	MIN	154	CFSM	.97	IN	13.20
WTR YR 1972	TOTAL	1,532,968	MEAN	4,188	MAX	159,000	MIN	255	CFSM	1.67	IN	22.76

PEAK DISCHARGE (BASE, 30,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	1500	17.53	4 52,000	6-23	2030	31.62	189,000
4 About.							

LAKES AND RESERVOIRS IN SUSQUEHANNA RIVER BASIN

175

- 01496450 Canadarago Lake at Schuyler Lake, N.Y. (see station for daily mean gage heights).
- 01499500 East Sidney Lake at East Sidney, N.Y. (see station for daily mean elevations and monthly change in contents).
- 01511000 Whitney Point Lake at Whitney Point, N.Y. (see station for daily mean elevation and monthly change in contents).
- 01521000 Arkport Reservoir near Arkport, N.Y. (see station for daily mean elevation and monthly change in contents).
- 01523000 Almond Lake near Almond, N.Y. (see station for daily mean elevation and monthly change in contents).

Diversion of water affecting the Susquehanna River basin

- 01528700 Diversion from Waneta Lake to Keuka Lake at Keuka, N.Y. (see station for daily discharges, furnished by New York State Electric and Gas Corp., and sketch of the transbasin diversion).

ALLEGHENY RIVER BASIN

03011020 ALLEGHENY RIVER AT SALAMANCA, N.Y.

LOCATION.--Lat 42°09'23", long 78°42'56", Cattaraugus County, on left bank 230 ft upstream from Main Street bridge in Salamanca, 1.3 miles downstream from Great Valley Creek, and 1.6 miles upstream from Little Valley Creek.

DRAINAGE AREA.--1,608 sq mi.

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1964, published as "at Red House."

GAGE.--Water-stage recorder. Datum of gage is 1,358.00 ft above mean sea level (Corps of Engineers bench mark).

Prior to Sept. 3, 1917, nonrecording gage and Sept. 4, 1917, to Sept. 30, 1964, water-stage recorder at site 7.5 miles downstream at different datum. Oct. 1, 1964, to Sept. 30, 1967, at present site at datum 0.04 ft lower.

AVERAGE DISCHARGE.--69 years, 2,757 cfs (23.28 inches per year).

EXTREMES.--Current year: Maximum discharge, 73,000 cfs June 23 (gage height, 24.01 ft from floodmarks); minimum, 238 cfs Sept. 4-5, 24 (gage height, 3.11 ft).

Period of record: Maximum discharge, 73,000 cfs June 23, 1972 (gage height, 24.01 ft from floodmarks); minimum daily, 79 cfs Sept. 10, 11, 1971.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1385: 1907, 1909-12, 1913(M), 1914-15, 1916-17(M), 1925, 1927. WSP 1907: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	402	380	2,100	11,300	2,600	1,390	4,650	2,210	2,030	7,130	781	313
2	350	360	1,550	9,080	2,400	9,700	5,340	2,920	1,560	5,330	759	283
3	317	350	1,100	7,100	2,200	20,000	5,300	4,770	1,450	4,760	770	268
4	294	424	1,100	5,180	1,800	16,100	4,910	4,710	1,460	5,880	825	253
5	317	447	980	4,200	900	13,700	4,690	4,730	1,840	4,380	770	245
6	290	447	1,320	3,300	1,300	10,900	4,190	4,280	1,600	4,360	640	337
7	299	508	5,220	2,500	1,300	8,080	3,940	4,030	1,280	4,290	825	377
8	299	547	13,800	2,300	1,200	11,900	3,740	4,240	1,120	3,700	3,900	345
9	299	534	10,500	2,400	1,000	10,000	3,310	7,580	975	3,240	2,220	445
10	290	528	7,630	2,700	960	7,200	3,190	8,880	986	4,210	1,430	436
11	294	575	6,380	3,790	900	5,200	3,260	6,900	975	4,230	1,070	321
12	330	628	5,220	4,220	860	5,510	4,050	5,570	840	3,320	892	298
13	340	770	4,320	3,900	840	7,200	6,050	4,710	770	2,810	770	353
14	312	942	3,650	5,600	1,220	7,850	9,080	4,130	740	2,530	704	590
15	281	931	4,150	4,400	1,300	7,280	8,830	4,050	750	2,290	836	1,000
16	265	942	5,730	2,800	1,200	6,200	9,600	4,610	3,470	3,060	792	781
17	253	900	4,710	2,200	1,100	8,600	14,200	5,470	3,020	4,290	682	533
18	253	760	4,070	2,900	1,100	8,000	12,400	5,200	2,010	2,890	630	428
19	253	730	3,610	4,010	1,000	6,350	11,700	4,430	1,550	2,310	600	394
20	253	1,020	3,340	3,940	660	5,570	11,700	3,850	1,320	2,240	542	411
21	253	1,140	3,360	3,610	960	5,930	10,100	3,770	6,780	2,400	488	361
22	265	1,180	3,210	2,970	980	9,700	7,450	3,310	33,200	1,930	453	305
23	257	1,030	2,600	4,000	900	13,500	6,250	2,790	67,900	1,660	419	260
24	312	880	2,500	5,110	880	10,600	5,260	2,400	64,900	1,500	411	253
25	424	840	2,880	6,830	820	8,750	4,510	2,100	50,400	1,480	394	283
26	489	850	3,260	6,800	800	6,600	3,850	1,820	35,700	1,610	377	329
27	508	880	4,000	5,400	760	5,000	3,310	1,590	23,800	1,300	361	650
28	528	964	4,170	5,000	900	4,400	2,920	1,390	14,700	1,130	402	693
29	477	1,120	4,090	4,200	953	4,000	2,630	1,260	9,580	1,020	453	560
30	554	1,790	5,430	3,200	-----	4,450	2,360	1,160	8,880	916	411	1,290
31	435	-----	14,000	2,900	-----	4,530	-----	1,820	-----	825	353	-----
TOTAL	10,493	23,397	139,980	137,840	33,793	254,190	182,770	120,680	345,586	93,021	24,960	13,395
MEAN	338	780	4,515	4,446	1,165	8,200	6,092	3,893	11,520	3,001	805	447
MAX	554	1,790	14,000	11,300	2,600	20,000	14,200	8,880	67,900	7,130	3,900	1,290
MIN	253	350	980	2,200	660	1,390	2,360	1,160	740	825	353	245
CFSM	.21	.49	2.81	2.76	.72	5.10	3.79	2.42	7.16	1.87	.50	.28
IN.	.24	.54	3.24	3.19	.78	5.88	4.23	2.79	7.99	2.15	.58	.31

CAL YR 1971 TOTAL 817,593 MEAN 2,240 MAX 17,600 MIN 79 CFSM 1.39 IN 18.91
WTR YR 1972 TOTAL 1,380,105 MEAN 3,771 MAX 67,900 MIN 245 CFSM 2.35 IN 31.93

PEAK DISCHARGE (BASE, 17,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	1000	10.68	20,700	6-23	1300	24.01	73,000

ALLEGHENY RIVER BASIN

177

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, on right bank 300 ft downstream from bridge on State Highway 17 at Waterboro, 0.2 mile downstream from Davis Brook, 0.4 mile upstream from Harris Brook, and 1.9 miles northeast of Kennedy.

DRAINAGE AREA.--290 sq mi.

PERIOD OF RECORD.--September 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,255.30 ft above mean sea level (Corps of Engineers bench mark). Prior to Nov. 7, 1939, nonrecording gages at site 1,300 ft upstream at various datums. Nov. 7, 1939, to Nov. 4, 1940, nonrecording gage at site 1,100 ft upstream at datum 0.79 ft higher, and Nov. 5, 1940, to May 28, 1948, nonrecording gage at site 700 ft downstream at present datum.

AVERAGE DISCHARGE.--34 years, 508 cfs (23.79 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,970 cfs June 26 (gage height, 10.16 ft); minimum, 36 cfs Oct. 4 (gage height, 2.81 ft).
Period of record: Maximum discharge, 8,600 cfs Apr. 7, 1947; maximum gage height, 11.58 ft Mar. 8, 1956; minimum discharge observed, 22 cfs Aug. 18, 1940, Sept. 27, 29, 1941.

REMARKS.--Records good. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	49	750	1,950	431	361	845	217	135	1,650	87	62
2	38	50	585	1,940	400	1,470	870	346	129	1,300	95	55
3	37	53	480	1,670	382	2,400	860	571	116	1,050	139	58
4	37	80	389	1,290	354	2,750	820	580	129	930	135	58
5	41	139	322	1,020	271	2,820	830	490	129	800	116	55
6	41	186	410	768	286	2,840	780	386	107	639	104	52
7	44	251	1,310	601	313	2,600	680	346	87	643	159	50
8	49	263	1,900	487	316	2,630	580	476	70	544	289	52
9	50	218	2,120	445	313	2,610	476	980	60	450	268	76
10	65	197	2,190	533	303	2,380	445	1,210	58	558	198	78
11	89	218	2,090	786	293	2,070	508	1,100	58	544	152	68
12	96	232	1,820	907	282	1,750	700	845	53	445	129	68
13	84	279	1,430	862	286	1,800	895	612	48	346	113	73
14	73	300	1,110	995	313	2,010	1,140	436	45	289	104	190
15	63	307	1,040	876	340	2,230	1,200	391	45	264	95	463
16	57	316	1,240	633	368	2,300	1,300	535	135	268	89	396
17	52	251	1,140	593	365	2,560	1,620	675	180	256	89	256
18	49	200	945	487	382	2,730	1,720	616	125	224	87	159
19	46	172	768	578	375	2,690	1,650	472	87	472	84	122
20	45	207	657	817	307	2,440	1,420	355	63	535	79	104
21	43	259	657	862	307	1,940	1,300	289	63	386	76	89
22	43	344	701	781	325	1,820	1,100	248	1,040	260	70	79
23	45	328	582	889	334	2,010	900	205	2,290	201	76	70
24	50	319	512	1,040	322	2,020	715	173	2,980	169	152	81
25	71	307	777	1,110	316	1,840	558	145	3,620	165	119	129
26	73	300	889	1,010	313	1,590	436	122	3,940	155	92	166
27	65	319	1,090	840	303	1,300	355	104	3,620	135	79	643
28	60	400	1,130	721	303	1,080	302	92	3,000	125	88	625
29	57	487	1,110	593	307	910	260	84	2,390	113	81	427
30	53	713	1,210	515	-----	840	228	79	2,010	104	70	549
31	52	-----	1,800	470	-----	845	-----	104	-----	92	65	-----
TOTAL	1,708	7,744	33,154	27,069	9,510	61,636	25,493	13,284	26,812	14,112	3,579	5,353
MEAN	55.1	258	1,069	873	328	1,988	850	429	894	455	115	178
MAX	96	713	2,190	1,950	431	2,840	1,720	1,210	3,940	1,650	289	643
MIN	37	49	322	445	271	361	228	79	45	92	65	50
CFSM	.19	.89	3.69	3.01	1.13	6.86	2.93	1.48	3.08	1.57	.40	.61
IN.	.22	.99	4.25	3.47	1.22	7.91	3.27	1.70	3.44	1.81	.46	.69

CAL YR 1971 TOTAL 169,313 MEAN 464 MAX 3,310 MIN 33 CFSM 1.60 IN 21.72
WTR YR 1972 TOTAL 229,454 MEAN 627 MAX 3,940 MIN 37 CFSM 2.16 IN 29.43

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-6	0800	8.45	2,900	6-26	0700	10.16	3,970
3-18	1200	8.29	2,750				

LOCATION.--Lat 42°14'20", long 79°29'50", Chautauqua County, on right bank of outlet of Mud Creek, 25 ft upstream from bridge on State Highway 17J, 0.1 mile from lake, and 1 mile south of Mayville.

DRAINAGE AREA.--189 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 1,300.00 ft above mean sea level. Prior to Dec. 21, 1956, nonrecording gage at site near mouth of Big Inlet at same datum.

EXTREMES.--Current year: Maximum gage height, 10.17 ft June 25; minimum, 6.99 ft Feb. 29, Mar. 1.
Period of record: Maximum daily gage height, 10.65 ft Mar. 9, 1956; minimum daily, 6.29 ft Nov. 17, 1953.

REMARKS.--Lake regulated for flood control by Warner Dam. Area of water surface, 20.9 sq mi.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.32	7.40	8.24	8.57	7.59	7.03	8.52	8.04	8.24	9.45	8.10	7.93
2	7.30	7.39	8.24	8.48	7.53	8.10	8.50	8.14	8.24	9.32	8.16	7.90
3	7.30	7.41	8.19	8.42	7.49	8.10	8.45	8.18	8.26	9.22	8.18	7.89
4	7.30	7.53	8.14	8.33	7.49	8.15	8.43	8.18	8.25	9.10	8.17	7.87
5	7.28	7.61	8.12	8.24	7.47	8.16	8.41	8.16	8.24	8.98	8.15	7.85
6	7.27	7.64	8.14	8.18	7.44	8.13	8.35	8.19	8.23	8.91	8.15	7.83
7	7.25	7.72	8.43	8.09	7.42	8.11	8.29	8.20	8.20	8.81	8.20	7.82
8	7.28	7.78	8.72	8.02	7.39	8.26	8.23	8.27	8.18	8.69	8.27	7.81
9	7.31	7.84	8.71	7.97	7.34	8.30	8.16	8.43	8.15	8.61	8.26	7.78
10	7.36	7.83	8.71	7.95	7.29	8.26	8.13	8.45	8.11	8.61	8.22	7.78
11	7.38	7.88	8.60	7.94	7.25	8.20	8.11	8.42	8.11	8.53	8.22	7.76
12	7.39	7.91	8.58	7.93	7.20	8.20	8.13	8.41	8.10	8.47	8.19	7.74
13	7.42	7.94	8.46	7.88	7.21	8.33	8.18	8.40	8.09	8.39	8.18	7.78
14	7.40	7.99	8.41	7.90	7.27	8.63	8.24	8.39	8.10	8.35	8.15	7.83
15	7.40	8.00	8.44	7.85	7.27	8.70	8.32	8.41	8.13	8.35	8.14	7.87
16	7.39	8.01	8.43	7.83	7.26	8.75	8.54	8.48	8.20	8.35	8.12	7.87
17	7.40	8.03	8.37	7.79	7.24	8.97	8.83	8.59	8.21	8.36	8.09	7.85
18	7.40	8.02	8.27	7.73	7.23	9.00	8.81	8.56	8.23	8.36	8.06	7.84
19	7.38	8.01	8.28	7.76	7.22	8.94	8.72	8.51	8.22	8.35	8.04	7.81
20	7.39	8.04	8.20	7.78	7.24	8.86	8.68	8.46	8.26	8.34	8.02	7.82
21	7.38	8.04	8.12	7.78	7.24	8.83	8.66	8.41	8.33	8.31	8.00	7.81
22	7.37	8.08	8.05	7.76	7.20	9.08	8.65	8.36	8.76	8.31	7.99	7.75
23	7.37	8.15	8.04	7.85	7.17	9.21	8.47	8.33	9.80	8.27	7.99	7.77
24	7.40	8.16	7.93	7.87	7.15	9.15	8.38	8.30	10.10	8.25	8.02	7.79
25	7.41	8.11	7.98	7.93	7.11	9.06	8.27	8.29	10.14	8.21	8.00	7.80
26	7.41	8.11	8.04	7.91	7.08	8.95	8.18	8.28	10.07	8.18	8.00	7.84
27	7.44	8.13	8.11	7.87	7.05	8.84	8.11	8.24	9.96	8.19	8.00	7.92
28	7.41	8.12	8.10	7.82	7.04	8.74	8.05	8.21	9.81	8.17	7.98	7.99
29	7.41	8.17	8.10	7.77	7.01	8.66	8.00	8.19	9.70	8.15	7.97	8.00
30	7.41	8.22	8.25	7.71	-----	8.62	8.01	8.21	9.59	8.14	7.96	8.01
31	7.40	-----	8.56	7.65	-----	8.56	-----	8.24	-----	8.12	7.95	-----
MEAN	7.37	7.91	8.29	7.95	7.27	8.54	8.36	8.32	8.67	8.51	8.09	7.84
MAX	7.44	8.22	8.72	8.57	7.59	9.21	8.83	8.59	10.14	9.45	8.27	8.01
MIN	7.25	7.39	7.93	7.65	7.01	7.03	8.00	8.04	8.09	8.12	7.95	7.74
CAL YR 1971	MEAN 7.75		MAX 8.72	MIN 7.12								
WTR YR 1972	MEAN 8.10		MAX 10.14	MIN 7.01								

ALLEGHENY RIVER BASIN

179

03014500 CHADAKOIN RIVER AT FALCONER, N.Y.

LOCATION.--Lat 42°06'45", long 79°12'15", Chautauqua County, on left bank 10 ft downstream from South Dow Street Bridge in Falconer, 2.1 miles upstream from mouth, and 6 miles downstream from Chautauqua Lake.

DRAINAGE AREA.--194 sq mi.

PERIOD OF RECORD.--October 1934 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,256.41 ft above mean sea level.

AVERAGE DISCHARGE.--37 years (1935-72), 337 cfs.

EXTREMES.--Current year: Maximum discharge, 1,650 cfs June 24 (gage height, 4.01 ft); minimum, 26 cfs Sept. 21-22 (gage height, 0.50 ft).

Period of record: Maximum discharge, 2,050 cfs Apr. 5, 1947 (gage height, 4.56 ft); minimum, 2.7 cfs Nov. 20, 21, 1960 (gage height, 0.15 ft); minimum daily, 3.0 cfs Nov. 20, 1960.

REMARKS.--Records good. Flow regulated by Chautauqua Lake (see station 03013990). Diurnal fluctuation caused by mills upstream from station. Monthly figures for 1951-66 water years adjusted for regulation.

REVISIONS (WATER YEARS).--WSP 803: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	34	555	948	630	440	739	123	185	1,310	86	103
2	42	34	550	942	595	560	772	189	164	1,250	81	103
3	42	37	555	931	565	700	755	289	135	1,270	75	105
4	47	65	565	893	580	788	777	260	135	1,210	73	103
5	42	65	570	882	465	821	838	229	132	1,150	73	103
6	45	67	635	832	391	827	849	171	132	1,120	73	100
7	45	67	777	761	430	816	838	145	132	1,070	116	91
8	40	65	980	711	465	865	832	203	129	1,010	86	84
9	43	63	1,030	695	460	876	777	369	129	635	121	79
10	45	63	997	695	460	876	761	435	110	744	138	77
11	47	63	1,020	700	455	854	766	425	98	788	138	75
12	37	95	975	695	450	620	722	400	95	690	135	75
13	36	113	975	690	430	635	670	400	95	505	135	86
14	34	113	915	695	405	733	570	333	93	382	135	77
15	36	171	920	685	400	876	495	302	110	218	135	67
16	36	199	948	655	396	893	410	297	91	110	135	65
17	34	199	920	620	391	997	1,110	515	88	105	145	63
18	34	199	937	610	391	1,240	1,120	620	84	103	142	63
19	34	199	854	615	387	1,160	1,090	605	84	100	142	61
20	34	192	832	620	378	1,070	1,090	570	88	110	138	61
21	34	289	827	635	382	1,020	964	540	113	126	138	47
22	36	337	816	650	435	992	959	378	964	110	103	52
23	36	333	761	665	435	959	959	218	1,500	105	103	67
24	45	328	755	680	430	931	931	218	1,600	126	103	71
25	36	333	620	711	430	909	893	218	1,590	118	100	57
26	34	333	645	695	425	909	739	157	1,580	108	98	69
27	34	373	675	690	420	904	655	126	1,530	110	98	65
28	34	400	728	680	420	865	555	126	1,470	108	98	49
29	34	415	728	680	420	832	256	132	1,400	105	95	49
30	34	525	799	670	-----	810	93	138	1,370	105	95	55
31	34	-----	854	650	-----	772	-----	132	-----	100	105	-----
TOTAL	1,186	5,769	24,718	22,281	12,921	26,550	22,985	9,263	15,426	15,101	3,438	2,222
MEAN	38.3	192	797	719	446	856	766	299	514	487	111	74.1
MAX	47	525	1,030	948	630	1,240	1,120	620	1,600	1,310	145	105
MIN	34	34	550	610	378	440	93	123	84	100	73	47

CAL YR 1971 TOTAL 115,595 MEAN 317 MAX 1,030 MIN 32
WTR YR 1972 TOTAL 161,860 MEAN 442 MAX 1,600 MIN 34

STREAMS TRIBUTARY TO LAKE ERIE

04213500 CATTARAUGUS CREEK AT GOWANDA, N.Y.

LOCATION.--Lat 42°27'50", long 78°56'10", Erie County, on right bank 380 ft downstream from bridge on State Highways 39 and 62 at Gowanda, and 4.2 miles downstream from South Branch.

DRAINAGE AREA.--432 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 738.85 ft above mean sea level (revised).

AVERAGE DISCHARGE.--32 years (1940-72), 711 cfs (22.35 inches per year).

EXTREMES.--Current year: Maximum discharge, 25,300 cfs June 23 (gage height, 12.17 ft); minimum daily, 86 cfs Oct. 21, 22; minimum gage height, 1.42 ft Oct. 2.

Period of record: Maximum discharge, 34,600 cfs Mar. 7, 1956 (gage height, 14.14 ft); minimum, about 6 cfs Aug. 21, 1941, result of regulation; minimum gage height, 0.90 ft Oct. 26, 1951; minimum daily discharge, 52 cfs Sept. 13, 1945, Aug. 1, 1955.

REMARKS.--Records good except those for winter periods and those for period of doubtful gage-height record, which are fair. Flow regulated by several industrial plants upstream from station. Diurnal fluctuation at low and medium flow caused by industrial plants at Gowanda and by powerplant 20 miles upstream from station.

REVISIONS.--WSP 1912: Drainage area. WRD N.Y. 1971: 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	110	430	1,380	370	1,700	1,370	710	318	790	225	148
2	104	115	210	978	370	10,000	1,550	774	280	591	260	144
3	108	136	210	774	370	5,040	1,190	682	253	633	288	152
4	102	154	200	675	350	2,390	1,180	619	280	675	253	152
5	103	180	180	584	170	1,720	1,020	558	268	516	222	146
6	106	192	230	420	360	1,160	888	626	229	661	207	142
7	152	240	3,440	450	410	1,230	790	879	213	1,150	276	138
8	116	219	3,240	450	390	3,940	689	2,450	201	668	327	146
9	106	160	1,360	460	320	1,960	640	2,130	195	552	250	164
10	112	170	1,060	710	290	1,310	758	1,140	198	1,090	222	150
11	108	198	1,480	969	310	933	1,020	798	193	774	207	140
12	102	198	942	814	330	1,280	1,450	647	188	552	198	138
13	96	213	640	766	350	2,050	2,460	570	185	462	195	170
14	94	246	486	1,250	420	3,940	2,580	605	207	445	193	1,450
15	97	225	1,220	600	500	2,410	1,820	619	258	577	309	1,000
16	91	213	1,370	340	480	2,110	2,750	782	631	498	216	417
17	91	182	742	440	460	3,370	3,420	1,180	322	474	216	300
18	88	164	591	560	440	2,350	1,530	806	242	417	232	253
19	90	158	516	1,500	410	1,560	1,120	598	210	428	216	264
20	90	190	522	1,010	340	1,370	1,740	504	406	350	190	242
21	86	228	774	906	390	1,780	1,290	504	464	336	178	213
22	86	284	696	612	400	4,620	969	439	4,770	309	168	201
23	91	242	400	1,280	390	2,820	888	385	18,500	296	185	190
24	109	232	560	915	380	1,590	782	341	4,900	276	385	404
25	138	225	951	700	360	1,250	661	309	2,730	264	207	578
26	127	236	1,440	580	350	1,090	612	280	1,710	257	175	380
27	120	256	1,340	520	340	978	552	260	1,100	253	198	864
28	118	296	1,570	470	320	906	486	246	790	253	201	570
29	112	355	1,030	410	310	924	445	236	689	243	185	380
30	110	706	3,130	370	-----	1,370	434	260	897	232	166	1,220
31	112	-----	3,440	370	-----	1,190	-----	370	-----	225	154	-----
TOTAL	3,274	6,723	34,400	22,263	10,680	70,341	37,084	21,307	41,827	15,247	6,904	10,856
MEAN	106	224	1,110	718	368	2,269	1,236	687	1,394	492	223	362
MAX	152	706	3,440	1,500	500	10,000	3,420	2,450	18,500	1,150	385	1,450
MIN	86	110	180	340	170	906	434	236	185	225	154	138
CFSM	.25	.52	2.57	1.66	.85	5.25	2.86	1.59	3.23	1.14	.52	.84
IN.	.28	.58	2.96	1.92	.92	6.06	3.19	1.83	3.60	1.31	.59	.93
CAL YR 1971	TOTAL 236,984	MEAN 649	MAX 6,000	MIN 86	CFSM 1.50	IN 20.41						
WTR YR 1972	TOTAL 280,906	MEAN 768	MAX 18,500	MIN 86	CFSM 1.78	IN 24.19						

PEAK DISCHARGE (BASE, 8,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-30	1900	7.24	8,020	6-23	0500	12.17	25,300
3-2	1530	9.55	14,000				
f About.							

NOTE.--Doubtful gage-height record Oct. 1 to Nov. 30.

04214500 BUFFALO CREEK AT GARDENVILLE, N.Y.

LOCATION.--Lat 42°51'16", long 78°45'22", Erie County, on left bank 300 ft downstream from bridge on Union Road in Gardenville, and 2 miles upstream from Cayuga Creek.

DRAINAGE AREA.--144 sq mi.

PERIOD OF RECORD.--October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 604.04 ft above mean sea level, unadjusted. Prior to Sept. 26, 1968, water-stage recorder at site 400 ft downstream at same datum.

AVERAGE DISCHARGE.--34 years, 188 cfs (17.73 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,000 cfs June 23 (gage height, 9.09 ft), from rating curve extended above 3,200 cfs on basis of slope-area measurement at gage height 7.07 ft; minimum, 11 cfs Sept. 13; minimum gage height, 1.15 ft Sept. 4.

Period of record: Maximum discharge, 13,000 cfs Mar. 1, 1955, Mar. 7, 1956, from rating curve extended above 3,200 cfs on basis of slope-area measurement at gage height 7.07 ft; maximum gage height, 11.90 ft Mar. 9, 1942 (ice jam); minimum discharge, 0.2 cfs Sept. 1, 1964 (gage height, 0.81 ft).

REMARKS.--Records good except those for winter periods, which are poor. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1337: 1939-52. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	17	170	378	120	1,500	390	115	98	234	27	17
2	18	17	78	270	120	5,400	415	250	85	135	29	16
3	16	21	78	220	120	1,940	325	579	72	148	50	16
4	16	25	60	190	120	701	295	238	74	210	50	16
5	15	27	300	130	130	390	273	277	68	128	36	16
6	23	29	226	90	130	190	210	200	62	143	30	16
7	21	31	1,140	80	120	440	180	179	56	120	35	14
8	20	34	464	90	110	2,180	170	277	53	91	103	14
9	22	34	252	150	110	639	150	1,210	52	108	59	16
10	29	33	333	560	100	290	259	385	50	380	45	16
11	24	47	272	540	98	190	370	210	49	320	40	15
12	22	47	186	320	94	300	400	160	48	133	37	12
13	20	50	124	240	110	539	920	138	52	89	34	12
14	18	57	93	360	190	1,440	651	133	54	72	32	16
15	17	47	569	200	250	888	365	157	59	79	32	95
16	17	41	497	170	250	754	544	268	151	133	40	46
17	16	36	180	150	230	1,520	1,300	365	83	115	33	30
18	14	31	110	140	200	761	370	193	59	72	42	25
19	14	35	86	140	160	390	259	140	53	60	40	30
20	13	99	148	150	130	380	803	118	49	54	32	25
21	13	247	343	170	130	651	456	110	52	49	25	22
22	12	180	170	200	160	1,880	282	100	410	45	21	20
23	15	84	90	600	150	782	273	91	6,790	43	18	15
24	21	80	110	310	140	390	214	83	904	40	19	52
25	31	80	178	543	130	270	186	77	533	36	23	58
26	28	88	367	140	120	210	160	72	305	34	21	48
27	23	114	379	130	120	200	145	68	193	34	20	50
28	21	173	549	130	140	190	133	66	138	33	30	59
29	18	191	278	130	230	220	123	63	118	32	25	41
30	17	417	612	130	-----	489	115	75	196	29	26	83
31	18	-----	1,480	120	-----	370	-----	115	-----	28	21	-----
TOTAL	590	2,412	9,922	7,171	4,212	26,484	10,736	6,512	10,966	3,227	1,075	911
MEAN	19.0	80.4	320	231	145	854	358	210	366	104	34.7	30.4
MAX	31	417	1,480	600	250	5,400	1,300	1,210	6,790	380	103	95
MIN	12	17	60	80	94	190	115	63	48	28	18	12
CFSM	.13	.56	2.22	1.60	1.01	5.93	2.49	1.46	2.54	.72	.24	.21
IN.	.15	.62	2.56	1.85	1.09	6.84	2.77	1.68	2.83	.83	.28	.24

CAL YR 1971 TOTAL 65,715 MEAN 180 MAX 3,800 MIN 12 CFSM 1.25 IN 16.98
WTR YR 1972 TOTAL 84,218 MEAN 230 MAX 6,790 MIN 12 CFSM 1.60 IN 21.76

PEAK DISCHARGE (BASE, 4,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-02	1400	8.89	10,000	6-23	1030	9.09	12,000

† About.

STREAMS TRIBUTARY TO LAKE ERIE

04215500 CAZENOVIA CREEK AT EBENEZER, N.Y.

LOCATION.—Lat 42°49'47", long 78°46'33", Erie County, on right bank 30 ft upstream from bridge on Ridge Road in Ebenezer, 4.4 miles upstream from mouth, and 5 miles southeast of Buffalo.

DRAINAGE AREA.—134 sq mi.

PERIOD OF RECORD.—June 1940 to current year.

GAGE.—Water-stage recorder. Datum of gage is 604.86 ft above mean sea level, unadjusted. Prior to Apr. 4, 1955, at datum 2 ft higher. Apr. 4 to Oct. 12, 1955, nonrecording gage at temporary site 1.3 miles downstream at different datum.

AVERAGE DISCHARGE.—32 years, 218 cfs (22.09 inches per year).

EXTREMES.—Current year: Maximum discharge, 12,300 cfs June 23 (gage height, 13.53 ft); minimum, 13 cfs Oct. 3, 4, 19, 20, 21, 22, Sept. 3, 7, 11, 12, 13; minimum gage height, 1.94 ft Sept. 3, 7, 11, 12, 13.

Period of record: Maximum discharge, 13,500 cfs Mar. 1, 1955 (gage height, 15.82 ft, present datum), from rating curve extended above 7,700 cfs; minimum, 2.6 cfs Nov. 7, 1953; minimum gage height, 1.87 ft June 28, 1965.

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

REVISIONS.—WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	230	452	160	2,500	418	110	105	275	19	15
2	15	17	170	314	150	5,800	460	365	83	131	21	14
3	15	20	824	255	150	1,900	337	595	70	116	28	15
4	14	26	352	190	150	680	280	220	78	134	31	15
5	15	30	650	160	160	560	230	230	61	95	23	15
6	21	32	746	150	150	400	200	168	53	108	20	14
7	23	42	1,650	220	150	520	170	165	49	100	25	14
8	22	50	740	300	140	2,030	160	310	46	78	58	15
9	23	42	385	440	130	638	150	1,210	43	81	43	15
10	38	42	500	500	130	402	211	382	41	497	30	16
11	30	62	374	370	130	303	394	215	38	305	25	14
12	24	60	230	300	130	385	504	165	38	128	24	14
13	20	83	162	350	140	578	1,480	144	39	85	23	17
14	18	92	153	440	250	1,760	861	144	41	74	26	17
15	17	65	806	290	400	938	546	161	58	74	67	131
16	16	54	506	230	350	868	1,000	144	199	113	49	44
17	15	44	190	200	300	1,410	1,300	161	90	98	32	28
18	15	36	150	180	240	749	418	137	60	58	29	25
19	15	46	160	180	180	430	295	119	49	50	28	27
20	14	162	175	200	150	382	903	110	44	43	26	26
21	14	325	363	230	160	553	448	105	53	38	21	23
22	14	205	265	290	200	1,870	285	95	1,140	34	19	20
23	19	148	148	540	190	882	265	88	6,650	32	18	17
24	24	130	157	330	180	280	203	83	1,060	29	18	85
25	33	110	297	500	170	230	179	76	602	26	22	98
26	32	110	620	270	150	210	154	70	343	25	19	67
27	24	120	446	200	140	190	137	65	211	23	19	260
28	21	170	656	190	180	200	128	63	137	23	25	140
29	19	190	314	180	300	225	119	60	113	23	22	65
30	17	446	1,100	170	-----	478	113	83	295	21	21	332
31	17	-----	1,350	160	-----	359	-----	128	-----	19	17	-----
TOTAL	620	2,975	14,869	8,781	5,410	28,710	12,348	6,171	11,889	2,936	848	1,598
MEAN	20.0	99.2	480	283	187	926	412	199	396	94.7	27.4	53.3
MAX	38	446	1,650	540	400	5,800	1,480	1,210	6,650	497	67	332
MIN	14	16	148	150	130	190	113	60	38	19	17	14
CFSM	.15	.74	3.58	2.11	1.40	6.91	3.07	1.49	2.96	.71	.20	.40
IN.	.17	.83	4.13	2.44	1.50	7.97	3.43	1.71	3.30	.82	.24	.44

CAL YR 1971 TOTAL 78,212 MEAN 214 MAX 3,100 MIN 14 CFSM 1.60 IN 21.71
WTR YR 1972 TOTAL 97,155 MEAN 265 MAX 6,650 MIN 14 CFSM 1.98 IN 26.97

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	0315	13.16	11,800	6-23	0700	13.53	12,300

LOCATION.--Lat 42°52'39", long 78°53'26", Erie County, near outer end of Buffalo River South Pier, at Buffalo.

PERIOD OF RECORD.--January 1860 to current year. Data prior to October 1960 in files of Lake Survey Center.

GAGE.--Water-stage recorder. Elevations are in feet above mean water level at Father Point, Quebec, International Great Lakes Datum (1955). Prior to Feb. 5, 1899, nonrecording gages.

EXTREMES.--Current year: Maximum elevation, 577.72 ft Jan. 25; minimum, 569.29 ft Nov. 29.

Period of record: Maximum elevation observed, 579.09 ft Nov. 3, 1955; minimum observed, 564.17 ft Mar. 10, 1964.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571.16	570.88	570.89	571.44	570.73	570.84	571.57	571.89	572.38	572.42	572.38	572.13
2	571.18	571.67	570.95	571.61	570.54	571.17	571.57	572.04	572.21	572.39	572.34	572.07
3	571.15	571.68	570.90	571.22	571.06	571.00	571.40	572.12	572.26	572.26	572.48	571.96
4	571.63	571.71	570.38	570.55	573.23	570.92	571.65	572.20	572.22	572.33	571.90	572.06
5	571.41	571.08	570.42	570.77	571.91	571.80	571.58	572.16	572.09	572.18	572.14	572.20
6	571.67	571.66	570.78	571.98	570.67	571.05	571.18	572.20	572.17	572.34	572.10	572.08
7	571.29	571.91	570.20	572.36	571.03	571.24	570.65	571.92	572.25	572.27	572.66	572.12
8	571.23	570.82	570.62	570.90	570.88	571.54	571.27	571.50	572.42	572.28	572.49	572.05
9	571.40	571.01	570.78	571.59	570.79	571.08	571.54	571.72	572.33	572.27	572.84	571.80
10	571.40	571.26	570.92	571.00	570.76	571.05	571.41	572.22	572.01	572.53	572.36	571.79
11	572.04	570.77	572.05	571.14	570.74	570.93	571.46	572.37	572.20	572.32	572.23	572.04
12	571.37	570.89	570.89	571.05	570.71	570.99	571.29	572.11	572.11	572.32	572.37	571.90
13	571.13	570.52	571.36	571.27	570.74	570.08	571.56	572.08	572.06	572.46	572.22	572.11
14	571.30	570.48	570.62	571.49	571.02	571.14	571.50	572.10	572.09	572.41	572.23	572.20
15	571.15	570.91	571.74	571.72	571.10	571.22	571.56	572.16	572.27	572.50	571.53	572.26
16	570.92	570.71	571.60	571.63	570.91	571.21	571.31	572.27	572.18	572.43	572.02	572.35
17	570.66	570.63	571.63	572.31	570.63	571.41	571.64	572.21	571.94	572.41	572.13	572.53
18	570.94	570.75	571.42	571.33	570.79	571.49	571.79	572.20	571.92	572.44	572.27	572.18
19	570.94	571.70	571.34	571.49	571.21	571.25	571.81	572.08	571.99	572.41	572.12	571.78
20	570.93	571.68	571.03	570.82	571.12	571.23	571.64	572.13	572.06	572.46	572.14	571.61
21	570.94	571.20	571.23	570.54	571.05	571.21	571.44	572.17	572.17	572.59	572.16	572.10
22	570.99	570.78	570.62	570.92	571.08	571.89	571.77	571.99	572.21	572.54	572.20	571.98
23	570.57	570.43	570.95	571.16	570.66	572.10	572.13	572.09	572.18	572.77	572.18	571.80
24	570.46	570.57	571.81	570.74	570.94	571.57	571.99	572.14	572.45	572.78	572.14	572.09
25	571.04	570.78	570.62	574.66	570.72	571.43	571.95	571.83	572.42	572.71	572.24	572.08
26	571.08	570.74	571.06	571.32	570.83	571.54	572.12	571.94	572.38	572.56	572.03	572.26
27	571.08	570.82	570.79	571.00	570.84	571.49	571.96	572.05	572.33	572.28	572.68	571.94
28	571.14	570.71	571.42	571.37	570.96	571.31	572.01	572.08	572.17	572.29	572.56	571.90
29	570.											

ST. LAWRENCE RIVER MAIN STEM

04216000 NIAGARA RIVER AT BUFFALO, N.Y.

LOCATION.--Lat 42°52'40", long 78°53'25", Erie County, at head of Niagara River at Buffalo.

DRAINAGE AREA.--264,000 sq mi.

PERIOD OF RECORD.--January 1860 to September 1960 (monthly discharge only published in WSP 1912), October 1960 to current year.
January 1926 to September 1960, daily discharges available in files of U.S. Department of Commerce.

GAGE.--Discharge determined from several powerplants at Niagara Falls and discharge over the falls. Discharge before 1926 determined from records of Corps of Engineers' gages at Buffalo and Cleveland.

AVERAGE DISCHARGE.--112 years (1860-1972), 202,000 cfs.

EXTREMES.--Period of record: Maximum daily discharge, 299,000 cfs (revised) Nov. 17, 1955; minimum daily, 90,000 cfs Jan. 13, 1964.
Maximum monthly mean discharge, 256,000 cfs May 1862 (revised); minimum monthly mean, 116,000 cfs (revised) February 1936.

REMARKS.--Records do not include water diverted from Lake Michigan by Illinois and Michigan Canal during period of its operation prior to 1910 and by Chicago Sanitary and Ship Canal, operation of which began in 1900, and from Lake Erie by Welland and New York State Canals before 1918. Records include water diverted into Lake Superior from Hudson Bay drainage by the Long Lake project, operation of which began in July 1939, and by the Ogoki project, operation of which began in July 1943. Figures of monthly mean discharge for the years 1860 to 1965 published in WSP 1912 are the official records of the U.S. Lake Survey Corps of Engineers, and have been coordinated with and concurred in by the counterpart Canadian agencies.

COOPERATION.--Provisional records of daily discharge furnished by Detroit District Corps of Engineers and Canada Department of the Environment.

REVISIONS.--WSP 1912: 1862(M), 1955(M), 1936(M). WRD N.Y. 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208,000	204,000	201,000	220,000	197,000	202,000	224,000	223,000	242,000	241,000	234,000	228,000
2	208,000	219,000	200,000	219,000	196,000	213,000	223,000	226,000	238,000	240,000	232,000	227,000
3	208,000	219,000	206,000	220,000	205,000	209,000	218,000	228,000	238,000	237,000	239,000	223,000
4	217,000	225,000	194,000	200,000	247,000	210,000	224,000	234,000	238,000	236,000	224,000	226,000
5	215,000	207,000	191,000	200,000	210,000	227,000	223,000	237,000	235,000	234,000	227,000	229,000
6	219,000	219,000	203,000	227,000	193,000	212,000	212,000	239,000	235,000	236,000	229,000	228,000
7	210,000	224,000	193,000	242,000	203,000	216,000	198,000	232,000	236,000	235,000	238,000	228,000
8	209,000	206,000	198,000	210,000	181,000	222,000	213,000	225,000	242,000	235,000	237,000	227,000
9	215,000	204,000	203,000	222,000	187,000	212,000	221,000	222,000	239,000	235,000	244,000	221,000
10	212,000	215,000	204,000	211,000	206,000	216,000	219,000	237,000	231,000	239,000	236,000	222,000
11	230,000	201,000	234,000	214,000	204,000	210,000	218,000	243,000	236,000	236,000	232,000	226,000
12	214,000	205,000	206,000	211,000	202,000	209,000	215,000	236,000	233,000	236,000	234,000	224,000
13	207,000	196,000	215,000	219,000	202,000	191,000	221,000	234,000	232,000	237,000	233,000	230,000
14	214,000	194,000	198,000	218,000	211,000	211,000	221,000	235,000	233,000	237,000	234,000	230,000
15	209,000	204,000	209,000	229,000	210,000	223,000	219,000	236,000	236,000	240,000	217,000	231,000
16	204,000	201,000	237,000	224,000	205,000	218,000	211,000	238,000	236,000	240,000	226,000	233,000
17	198,000	199,000	222,000	239,000	199,000	225,000	232,000	237,000	230,000	236,000	229,000	239,000
18	205,000	200,000	222,000	210,000	204,000	226,000	227,000	238,000	229,000	236,000	232,000	230,000
19	203,000	215,000	214,000	221,000	211,000	220,000	225,000	234,000	231,000	237,000	230,000	222,000
20	205,000	234,000	214,000	206,000	216,000	217,000	219,000	235,000	231,000	238,000	230,000	216,000
21	205,000	211,000	212,000	199,000	208,000	216,000	224,000	237,000	235,000	239,000	230,000	227,000
22	205,000	205,000	204,000	207,000	213,000	233,000	222,000	232,000	235,000	239,000	230,000	226,000
23	199,000	195,000	205,000	218,000	204,000	241,000	231,000	234,000	238,000	244,000	230,000	222,000
24	193,000	197,000	224,000	204,000	212,000	224,000	230,000	235,000	246,000	241,000	229,000	229,000
25	206,000	200,000	205,000	276,000	203,000	220,000	227,000	229,000	246,000	246,000	231,000	230,000
26	209,000	203,000	210,000	212,000	203,000	221,000	234,000	230,000	241,000	235,000	227,000	232,000
27	207,000	201,000	200,000	177,000	204,000	218,000	224,000	233,000	241,000	234,000	241,000	226,000
28	211,000	203,000	221,000	200,000	210,000	214,000	227,000	234,000	234,000	232,000	238,000	223,000
29	204,000	189,000	228,000	204,000	205,000	212,000	224,000	233,000	235,000	231,000	234,000	233,000
30	206,000	201,000	207,000	211,000	-----	228,000	224,000	237,000	240,000	230,000	228,000	234,000
31	210,000	-----	219,000	189,000	-----	220,000	-----	240,000	-----	232,000	227,000	-----
TOTAL	6,465.0M	6,196.0M	6,499.0M	6,659.0M	5,951.0M	6,736.0M	6,650.0M	7,243.0M	7,092.0M	7,344.0M	7,182.0M	6,822.0M
MEAN	208,500	206,500	209,600	214,800	205,200	217,300	221,700	233,600	236,400	236,900	231,700	227,400
MAX	230,000	234,000	237,000	276,000	247,000	241,000	234,000	243,000	246,000	246,000	244,000	239,000
MIN	193,000	189,000	191,000	177,000	181,000	191,000	198,000	222,000	229,000	230,000	217,000	216,000
CFSM	.80	.79	.81	.83	.79	.84	.85	.90	.91	.91	.89	.87
IN.	.92	.89	.93	.95	.85	.96	.95	1.04	1.01	1.05	1.03	.98
CAL YR 1971	TOTAL 77,452,000		MEAN 212,200		MAX 253,000		MIN 171,000		CFSM .82		IN 11.08	
WTR YR 1972	TOTAL 80,839,000		MEAN 220,900		MAX 276,000		MIN 177,000		CFSM .85		IN 11.57	

NIAGARA RIVER BASIN

185

04216200 SCAJAQUADA CREEK AT BUFFALO, N.Y.

LOCATION.--Lat 42°54'41", long 78°47'48", Erie County, on right bank 58 ft upstream from point where stream goes underground in concrete-lined tunnel, 86 ft upstream from Pine Ridge Road and 0.2 mile east of boundary line of city of Buffalo.

DRAINAGE AREA.--15.9 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 626.26 ft above mean sea level (city of Buffalo bench mark).

AVERAGE DISCHARGE.--15 years, 32.2 cfs.

EXTREMES.--Current year: Maximum discharge, 1,020 cfs June 23 (gage height, 7.19 ft); minimum, 6.8 cfs Nov. 14; minimum gage height, 1.59 ft Nov. 14, Sept. 18.

Period of record: Maximum discharge, 2,620 cfs Aug. 7, 1963 (gage height, 14.38 ft); minimum, 4.1 cfs Sept. 27, 1959; minimum gage height, 1.49 ft Sept. 2, 1957 (may have been lower during period of partially obstructed intake).

REMARKS.--Records fair. Discharge includes flow diverted from Lake Erie and Niagara River as sewage-plant effluent entering basin upstream from station.

COOPERATION.--Town of Cheektowaga maintains records of sewage-plant discharge.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	13	32	43	14	270	34	15	54	39	15	15
2	14	13	22	46	14	604	34	51	47	21	16	13
3	13	13	18	46	23	107	28	52	26	62	40	13
4	21	19	18	40	22	60	33	24	33	35	36	12
5	16	13	16	34	14	37	27	27	20	21	15	13
6	18	13	77	28	12	30	25	20	18	21	12	14
7	16	23	98	25	13	216	33	26	16	18	45	15
8	13	15	40	23	13	215	27	48	15	16	49	15
9	24	14	39	56	12	54	32	122	19	14	20	15
10	60	17	53	208	12	30	42	34	14	25	15	12
11	18	16	79	106	13	25	33	22	12	17	15	14
12	16	13	34	55	14	76	25	19	14	16	14	14
13	14	13	25	70	60	90	144	17	18	15	13	20
14	14	12	21	49	52	360	49	18	16	15	28	18
15	14	15	126	27	64	131	45	28	42	16	21	15
16	14	13	73	18	37	163	60	20	24	21	15	13
17	13	13	32	18	28	145	160	16	15	16	19	12
18	15	13	24	21	25	81	60	16	12	15	44	14
19	14	37	18	44	23	51	35	16	15	15	18	14
20	14	96	53	32	15	52	90	15	15	15	13	13
21	14	115	58	31	23	58	54	14	112	15	14	13
22	14	44	30	43	39	214	48	16	275	14	13	13
23	24	25	18	102	24	77	37	15	508	12	13	12
24	27	19	23	49	22	44	27	15	104	14	19	79
25	22	27	23	56	22	43	22	14	66	14	36	50
26	16	27	64	26	20	38	19	14	33	13	17	28
27	14	49	42	18	17	31	17	13	22	13	23	19
28	14	46	75	16	26	26	16	12	18	13	28	15
29	14	43	33	15	52	30	15	12	50	13	18	25
30	13	73	36	13	-----	43	14	125	93	12	15	102
31	12	-----	56	14	-----	30	-----	91	-----	14	14	-----
TOTAL	540	862	1,356	1,372	725	3,431	1,285	947	1,726	580	673	640
MEAN	17.4	28.7	43.7	44.3	25.0	111	42.8	30.5	57.5	18.7	21.7	21.3
MAX	60	115	126	208	64	604	160	125	508	62	49	102
MIN	12	12	16	13	12	25	14	12	12	12	12	12

CAL YR 1971 TOTAL 11,826 MEAN 32.4 MAX 320 MIN 11
WTR YR 1972 TOTAL 14,137 MEAN 38.6 MAX 604 MIN 12

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	1215	6.58	896	3-14	1130	5.30	640
3-7	2345	5.83	746	6-23	0515	7.19	1,020

NIAGARA RIVER BASIN

04217000 TONAWANDA CREEK AT BATAVIA, N.Y.

LOCATION.--Lat 42°59'51", long 78°11'20", Genesee County, on right bank 150 ft downstream from municipal dam, 500 ft upstream from Walnut Street Bridge in Batavia, and 5.0 miles downstream from Little Tonawanda Creek.

DRAINAGE AREA.--171 sq mi.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 876.33 ft above mean sea level.

AVERAGE DISCHARGE.--28 years, 195 cfs.

EXTREMES.--Current year: Maximum discharge, 4,770 cfs June 24 (gage height, 10.82 ft); minimum, 8.5 cfs Oct. 21; minimum gage height, 1.34 ft Oct. 5, 21.

Period of record: Maximum discharge, 7,200 cfs Mar. 31, 1960 (gage height, 12.70 ft); maximum gage height, 13.85 ft Apr. 6, 1947; minimum discharge, 0.4 cfs Aug. 5, 6, 7, 1955; minimum gage height, 0.59 ft July 26, 27, 1948.

Maximum stage known, 14.5 ft in March 1942, from records of city of Batavia.

REMARKS.--Records good. Diversion upstream from station by city of Batavia for municipal supply; sewage, which may include water from municipal and industrial wells upstream from gage, enters creek downstream from gage.

COOPERATION.--City of Batavia maintains records of diversion.

REVISIONS (WATER YEARS).--WSP 1627: 1956-57. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	12	126	483	133	140	510	138	79	380	34	16
2	15	12	57	347	125	522	585	165	75	225	32	16
3	14	12	74	280	127	2,470	440	590	71	198	42	17
4	13	13	69	212	131	1,750	365	375	61	259	52	30
5	12	20	47	179	106	965	330	360	61	168	45	22
6	17	24	69	110	108	630	281	305	49	152	37	17
7	15	21	460	140	104	500	233	241	43	209	40	14
8	15	22	410	140	97	835	233	286	40	152	79	15
9	17	24	272	145	92	1,370	201	805	41	221	67	16
10	17	23	281	331	88	850	277	905	45	213	49	17
11	16	25	259	554	83	460	380	370	41	465	40	15
12	14	34	205	485	81	410	550	259	37	198	34	12
13	13	31	145	325	87	600	715	209	37	132	34	13
14	13	39	115	280	100	625	1,450	187	42	102	35	16
15	12	40	148	220	128	710	785	190	45	115	39	49
16	12	35	480	149	141	610	580	335	115	132	39	37
17	12	33	248	131	139	820	1,110	281	85	135	31	23
18	11	29	169	148	129	1,310	805	225	53	97	32	20
19	10	29	109	319	122	865	410	179	42	77	33	22
20	9.8	42	148	430	101	565	640	155	35	67	30	22
21	11	77	218	300	99	750	1,010	142	34	61	27	20
22	11	101	230	220	121	1,370	460	129	310	55	23	17
23	12	67	107	583	123	1,890	400	110	1,970	49	21	16
24	19	56	137	514	118	755	330	97	3,760	45	22	37
25	22	64	188	449	113	435	281	88	1,480	41	27	67
26	30	58	213	239	108	355	233	77	710	43	22	50
27	22	63	380	163	103	320	198	69	365	45	24	34
28	18	79	390	170	103	286	175	63	229	43	30	32
29	16	93	340	149	109	305	158	60	165	41	30	29
30	16	135	217	144	-----	505	145	60	229	39	25	36
31	15	-----	501	137	-----	475	-----	83	-----	36	20	-----
TOTAL	466.8	1,313	6,812	8,476	3,219	24,453	14,270	7,538	10,349	4,195	1,095	747
MEAN	15.1	43.8	220	273	111	789	476	243	345	135	35.3	24.9
MAX	30	135	501	583	141	2,470	1,450	905	3,760	465	79	67
MIN	9.8	12	47	110	81	140	145	60	34	36	20	12
CAL YR 1971	TOTAL 66,614.8	MEAN 183	MAX 3,370	MIN 9.8								
WTR YR 1972	TOTAL 82,933.8	MEAN 227	MAX 3,760	MIN 9.8								

PEAK DISCHARGE (BASE, 1,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	1800	8.22	3,210	6-24	0100	10.82	4,770
3-23	0100	6.48	2,340				

04217500 TONAWANDA CREEK NEAR ALABAMA, N.Y.

LOCATION.--Lat 43°05'28", long 78°27'15", Genesee County, on right bank 15 ft downstream from bridge on Meadville Road, 0.4 mile downstream from inoperable canal feeder connecting Tonawanda and Oak Orchard Creeks, 1.1 miles upstream from small tributary, and 3.2 miles west of Alabama.

DRAINAGE AREA.--231 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 605.93 ft above mean sea level. Prior to October 1965, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--17 years, 260 cfs (15.28 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,150 cfs Mar. 4 (gage height, 13.68 ft); minimum, 17 cfs Oct. 18-19, 20-22 (gage height, 5.10 ft).

Period of record: Maximum discharge, 9,000 cfs Jan. 23, 1959 (gage height, 15.95 ft, from graph based on gage readings, ice jam); minimum daily, 7.7 cfs Sept. 14, 15, 1964.

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

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	24	178	673	230	583	733	183	140	493	44	28
2	23	24	130	480	230	1,320	788	192	123	373	41	28
3	22	24	100	362	210	3,070	696	513	117	267	38	28
4	21	25	88	301	200	5,930	554	634	103	327	47	34
5	21	25	110	260	190	3,920	497	442	91	269	52	34
6	22	28	69	251	190	2,000	416	433	82	192	46	26
7	20	37	276	265	200	1,600	339	328	70	219	48	25
8	22	34	614	262	170	2,400	333	336	62	224	64	24
9	22	32	418	228	170	1,900	298	668	62	215	88	23
10	22	36	330	313	170	1,500	342	1,170	60	205	67	23
11	24	36	386	709	160	1,300	471	601	59	447	53	23
12	21	36	303	680	160	1,200	630	374	55	294	46	24
13	21	45	214	470	170	1,200	792	288	54	177	41	24
14	21	40	162	410	190	1,300	1,420	251	54	132	38	23
15	21	60	154	370	210	1,500	1,160	285	59	116	46	23
16	19	50	383	310	210	1,400	747	458	88	140	44	50
17	19	43	475	290	230	1,300	1,050	544	168	165	45	42
18	18	40	273	300	210	1,800	1,200	388	95	128	39	34
19	18	37	174	330	210	1,730	618	288	73	102	37	33
20	18	48	176	490	200	840	747	234	62	88	38	30
21	17	81	224	558	190	941	1,250	202	57	78	36	28
22	17	117	356	444	230	1,460	764	178	212	70	33	26
23	20	100	237	648	250	2,530	581	151	1,310	62	31	25
24	25	70	170	837	250	1,330	499	131	4,130	57	30	37
25	30	72	192	547	250	702	406	116	2,870	53	30	77
26	31	68	242	500	240	567	341	103	1,070	48	33	77
27	37	72	446	450	230	490	283	93	573	51	33	57
28	30	86	469	350	250	428	248	86	361	50	36	42
29	26	101	593	290	350	441	219	80	254	48	39	39
30	24	122	348	250	-----	652	198	84	302	45	37	52
31	23	-----	394	210	-----	760	-----	144	-----	41	33	-----
TOTAL	699	1,613	8,684	12,838	6,150	48,094	18,620	9,978	12,816	5,176	1,333	1,039
MEAN	22.5	53.8	280	414	212	1,551	621	322	427	167	43.0	34.6
MAX	37	122	614	837	350	5,930	1,420	1,170	4,130	493	88	77
MIN	17	24	69	210	160	428	198	80	54	41	30	23
CFSM	.10	.23	1.21	1.79	.92	6.71	2.69	1.39	1.85	.72	.19	.15
IN.	.11	.26	1.40	2.07	.99	7.75	3.00	1.61	2.06	.83	.21	.17

CAL YR 1971 TOTAL 85,871 MEAN 235 MAX 3,160 MIN 17 CFSM 1.02 IN 13.83
WTR YR 1972 TOTAL 127,040 MEAN 347 MAX 5,930 MIN 17 CFSM 1.50 IN 20.46

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-4	0630	13.68	6,150	3-23	1200	11.44	2,770
3-10	UNKNOWN	12.94a	UNKNOWN	6-24	1930	13.16	4,920

a - Affected by ice.

NIAGARA RIVER BASIN

04218500 ELLICOTT CREEK AT WILLIAMSVILLE, N.Y.

LOCATION.--Lat 42°57'10", long 78°44'15", Erie County, on right bank at downstream side of bridge on Wehrle Drive, 0.4 mile upstream from small tributary and 0.8 mile south of Williamsville.

DRAINAGE AREA.--72.4 sq mi.

PERIOD OF RECORD.--October 1955 to September 1972 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 668.93 ft above mean sea level. Prior to Dec. 17, 1958, nonrecording gage on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--17 years, 84.8 cfs (15.91 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,980 cfs Mar. 3 (gage height, 7.19 ft); minimum, 2.1 cfs Sept. 10, 11 (gage height, 0.89 ft).

Period of record: Maximum discharge, 4,860 fs Mar. 31, 1960 (gage height, 8.99 ft); maximum gage height, 10.44 ft Mar. 7, 1956 (from graph based on gage readings); no flow for part or all of several days in August and September 1958 and July and September 1962.

REMARKS.--Records fair except those for winter periods, which are poor. Regulation by intermittent pumpage from stone quarry into stream upstream from station.

REVISIONS (WATER YEARS).--WSP 1912: 1960(M); drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	3.9	81	155	80	54	195	43	87	228	13	5.6
2	5.0	4.1	45	163	70	300	185	54	80	177	11	4.8
3	4.3	3.4	38	131	60	1,310	169	183	60	129	8.1	3.9
4	4.3	4.8	28	120	60	922	145	266	49	145	8.1	3.9
5	5.2	4.5	21	90	60	548	143	151	39	135	6.8	3.9
6	5.8	4.5	32	88	56	407	135	141	37	95	3.9	4.1
7	5.8	5.8	121	76	50	329	113	102	30	80	10	4.5
8	5.4	5.4	181	82	45	512	109	115	25	74	13	3.6
9	5.6	5.6	113	84	40	754	105	266	24	65	7.5	3.6
10	22	5.6	99	208	38	500	119	368	18	60	8.1	3.0
11	15	5.8	137	377	36	329	155	171	13	58	6.6	3.1
12	12	5.6	107	398	37	230	180	113	15	74	5.6	3.0
13	8.4	5.4	70	266	38	258	250	84	20	45	5.0	3.9
14	6.5	5.2	48	240	45	392	340	59	21	28	4.5	3.6
15	5.4	5.4	63	200	64	491	200	102	22	21	7.0	3.6
16	4.8	5.6	190	140	88	515	260	225	26	15	4.7	3.2
17	3.7	5.4	177	120	72	597	420	210	78	24	5.4	3.2
18	3.2	5.2	95	64	62	768	270	119	49	32	9.1	3.1
19	3.5	7.5	56	90	54	506	160	93	28	22	5.4	3.4
20	3.4	18	61	200	52	350	320	74	23	18	2.8	3.6
21	3.1	45	93	140	56	371	210	45	38	15	5.4	3.9
22	3.1	56	167	120	58	569	130	50	113	10	6.1	3.6
23	3.5	45	99	210	54	834	130	60	698	6.5	4.1	3.7
24	3.1	28	81	314	50	398	120	54	1,380	7.5	5.4	9.1
25	3.6	28	68	180	47	240	110	49	515	11	6.5	12
26	4.3	24	86	160	45	195	100	39	290	11	5.6	18
27	4.5	36	143	150	42	175	94	24	153	11	3.2	12
28	4.5	58	165	140	41	151	86	17	96	9.6	7.5	8.8
29	4.5	64	198	120	41	149	75	16	68	9.6	7.8	7.8
30	4.8	75	129	120	-----	195	67	37	101	3.1	5.2	17
31	4.1	-----	109	100	-----	233	-----	89	-----	6.1	5.2	-----
TOTAL	177.4	575.7	3,101	5,046	1,541	13,582	5,095	3,419	4,196	1,625.4	207.6	170.5
MEAN	5.72	19.2	100	163	53.1	438	170	110	140	52.4	6.70	5.68
MAX	22	75	198	398	88	1,310	420	368	1,380	228	13	18
MIN	3.1	3.4	21	64	36	54	67	16	13	3.1	2.8	3.0
CFSM	.08	.27	1.38	2.25	.73	6.05	2.35	1.52	1.93	.72	.09	.08
IN.	.09	.30	1.59	2.59	.79	6.98	2.62	1.76	2.16	.84	.11	.09

CAL YR 1971 TOTAL 21,714.9 MEAN 59.5 MAX 1,240 MIN 1.7 CFSM .82 IN 11.16
WTR YR 1972 TOTAL 38,736.6 MEAN 106 MAX 1,380 MIN 2.8 CFSM 1.46 IN 19.90

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	1645	7.19	1,980	6-24	0715	6.57	1,660

NIAGARA RIVER BASIN

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04219000 ERIE (BARGE) CANAL AT LOCK 30, MACEDON, N.Y.

LOCATION.--Lat 43°04'20", long 77°17'45", Wayne County, on left bank at lock 30, in Macedon, 500 ft downstream from headgate in old Erie Canal, 700 ft downstream from bridge on State Highway 350, and 2.6 miles upstream from Ganargua Creek.

PERIOD OF RECORD.--November 1919 to December 1920 (navigation seasons only), October 1950 to current year. Prior to October 1956, published as Barge Canal at lock 30, Macedon.

GAGE.--Water-stage recorder. Datum of gage is 448.80 ft above mean sea level, Barge Canal datum. Nov. 1, 1919, to Dec. 28, 1920, nonrecording gage at same site at different datum.

AVERAGE DISCHARGE.--22 years (1950-72), 211 cfs.

EXTREMES.--Period of record: Maximum daily discharge, 874 cfs Dec. 3, 1969; minimum daily, 0.8 cfs Feb. 25, 26, 1962.

REMARKS.--Records good except those for nonnavigation season, which are poor. This record represents net diversion from Niagara River basin into Oswego River basin through Erie (Barge) Canal. During the period of no navigation, Dec. 6 to May 15, discharge consists chiefly of leakage through guard gates and runoff from small areas tributary to canal upstream from station.

COOPERATION.--Records of gate openings, lockages, lock-valve openings, and elevations of water surface in Erie (Barge) Canal upstream and downstream from lock 30 furnished by New York State Department of Transportation.

REVISIONS (WATER YEARS).--WSP 1237: 1951.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	342	298	297	24	12	54	66	14	120	286	76	103
2	342	296	288	11	12	54	67	16	116	196	73	94
3	337	292	286	2.7	12	54	67	241	114	71	79	97
4	330	297	228	2.7	12	54	48	6.1	116	68	79	91
5	326	303	142	2.7	12	56	50	97	97	74	82	210
6	318	309	145	2.7	12	56	44	31	79	68	85	371
7	320	308	142	2.7	12	56	40	31	73	68	109	317
8	317	309	187	2.3	10	88	42	31	77	69	171	249
9	330	304	432	10	10	61	44	33	82	71	131	301
10	364	310	298	24	12	42	42	33	87	67	83	339
11	350	310	25	61	18	46	44	31	92	70	83	328
12	344	309	23	56	24	52	64	33	80	70	86	333
13	329	306	208	45	32	52	40	35	81	72	86	323
14	340	307	4.5	56	40	52	6.9	35	81	74	89	335
15	346	323	187	44	62	52	6.7	51	86	76	88	325
16	339	309	101	34	64	52	6.9	57	79	86	94	348
17	336	302	176	24	56	62	6.7	120	88	74	88	327
18	317	304	4.2	21	46	72	6.7	124	92	74	91	332
19	319	311	4.2	35	46	84	6.9	103	284	78	88	326
20	325	291	678	29	46	102	10	91	384	72	92	326
21	317	288	630	30	46	99	9.5	87	392	75	86	325
22	316	296	153	33	46	158	9.9	84	387	78	89	330
23	317	291	10	35	48	176	9.9	77	229	87	79	335
24	326	294	11	39	48	101	10	83	25	81	89	336
25	313	297	24	79	48	81	10	88	152	81	88	339
26	324	289	24	28	48	66	9.5	90	25	67	94	327
27	318	288	24	25	52	52	13	107	87	74	88	320
28	313	292	11	24	52	46	13	103	27	68	94	317
29	308	288	10	20	52	44	13	97	64	80	82	313
30	307	304	11	13	-----	50	14	88	204	83	82	324
31	301	-----	11	9.9	-----	70	-----	105	-----	79	85	-----
TOTAL	10,131	9,025	4,774.9	825.7	990	2,144	820.6	2,222.1	3,900	2,637	2,809	8,741
MEAN	327	301	154	26.6	34.1	69.2	27.4	71.7	130	85.1	90.6	291
MAX	364	323	678	79	64	176	67	241	392	286	171	371
MIN	301	288	4.2	2.3	10	42	6.7	6.1	25	67	73	91

CAL YR 1971 TOTAL 80,092.5 MEAN 219 MAX 740 MIN 1.5
 WTR YR 1972 TOTAL 49,020.3 MEAN 134 MAX 678 MIN 2.3

04221500 GENESEE RIVER AT SCIO, N.Y.

LOCATION.--Lat 42°09'50", long 77°58'50", Allegany County, on left bank 0.4 mile upstream from Vandermark Creek and 0.5 mile south of Scio.

DRAINAGE AREA.--308 sq mi.

PERIOD OF RECORD.--June 1916 to September 1972 (destroyed by flood of June 1972).

GAGE.--Water-stage recorder. Datum of gage is 1,438.83 ft above mean sea level. Prior to Aug. 11, 1938, nonrecording gage and Aug. 11 to Oct. 11, 1938, water-stage recorder, at same site at datum 1.0 ft higher.

AVERAGE DISCHARGE.--56 years, 382 cfs (16.84 inches per year).

EXTREMES.--Current year: Maximum discharge, 41,000 cfs June 23 (gage height, 14.12 ft, from floodmarks), from rating curve extended as explained below; minimum daily, 23 cfs Oct. 23.

Period of record: Maximum discharge, 41,000 cfs June 23, 1972 (gage height, 14.12 ft, from floodmarks), from rating curve extended above 9,300 cfs on basis of contracted-opening measurement of peak flow at Wellsville; minimum, 5.8 cfs Sept. 4, 1939; minimum gage height, 0.02 ft Sept. 2, 1962.

REMARKS.--Records good except those for winter periods, which are fair, and those for the period June to September, which are poor. Subsequent to destruction of gage in flood of June 1972, discharge estimated on basis of record at Wellsville and intervening-area study.

REVISIONS (WATER YEARS).--WSP 1307: 1916. WSP 1727: 1918-19 (M), 1936 (M), 1942 (M), 1946-48 (M), 1950-53 (M), 1955 (M). WRD N.Y. 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	43	90	945	210	420	720	305	305	820	100	48
2	33	46	80	780	220	4,400	855	330	198	1,000	110	37
3	31	63	78	634	230	5,300	770	460	176	800	120	42
4	30	56	76	528	190	2,200	715	520	178	880	100	36
5	29	56	72	480	150	1,500	600	634	181	620	60	40
6	30	53	100	310	170	980	560	504	145	580	120	52
7	32	54	639	320	190	1,100	500	508	133	500	350	44
8	35	58	1,400	310	170	2,580	460	648	118	470	280	34
9	30	50	729	330	160	1,300	420	2,180	114	420	200	32
10	31	54	580	360	140	960	460	1,670	143	520	140	30
11	32	63	500	552	130	800	520	1,100	116	410	130	33
12	35	61	401	516	130	920	598	870	103	370	110	38
13	33	68	345	639	140	1,190	925	715	100	280	98	220
14	31	67	287	1,080	150	1,230	1,080	670	96	230	92	480
15	30	63	450	520	170	870	985	643	200	270	86	92
16	29	74	540	290	160	895	1,460	835	540	300	100	84
17	28	65	373	420	150	1,450	2,220	1,100	210	230	120	56
18	27	61	327	460	140	1,130	1,260	825	140	180	92	70
19	26	68	293	560	150	880	1,010	643	140	130	72	78
20	26	87	287	480	140	800	1,480	594	250	130	74	52
21	25	85	308	390	120	1,030	1,060	568	19,000	150	76	50
22	24	84	260	330	130	1,920	885	450	16,000	100	76	47
23	23	62	180	747	120	1,550	855	380	26,000	58	70	54
24	27	62	220	639	120	1,080	706	324	6,400	52	62	56
25	100	74	227	1,170	120	860	621	281	3,300	32	68	72
26	120	72	281	580	110	680	524	243	1,700	66	60	100
27	88	73	331	450	120	600	453	215	1,300	96	76	110
28	60	79	411	360	180	560	404	192	1,000	58	60	90
29	53	86	359	300	230	560	359	176	940	74	56	110
30	47	92	985	260	-----	720	320	165	1,200	45	50	120
31	44	-----	1,940	220	-----	660	-----	215	-----	80	42	-----
TOTAL	1,223	1,979	13,149	15,960	4,540	41,125	23,785	18,963	80,426	9,951	3,250	2,407
MEAN	39.5	66.0	424	515	157	1,327	793	612	2,681	321	105	80.2
MAX	120	92	1,940	1,170	230	5,300	2,220	2,180	26,000	1,000	350	480
MIN	23	43	72	220	110	420	320	165	96	32	42	30
CFSM	.13	.21	1.38	1.67	.51	4.31	2.57	1.99	8.70	1.04	.34	.26
IN.	.15	.24	1.59	1.93	.55	4.97	2.87	2.29	9.71	1.20	.39	.29
CAL YR 1971	TOTAL 113,338	MEAN 311	MAX 4,720	MIN 14	CFSM 1.01	IN 13.69						
WTR YR 1972	TOTAL 216,758	MEAN 592	MAX 26,000	MIN 23	CFSM 1.92	IN 26.18						

PEAK DISCHARGE (BASE, 3,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	2200	9.45	9,500	6-23	10300	14.12	41,000
6-21	11000	12.3	29,000				

/ About.

NOTE.--No gage-height record June 14 to Sept. 30.

STREAMS TRIBUTARY TO LAKE ONTARIO

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04221991 CANEADEA CREEK AT CANEADEA DAM, N.Y.

LOCATION.--Lat 42°22'49", long 78°11'00", Allegany County, in control structure of Caneadea Dam at outlet of Rushford Lake, and 2.4 miles upstream from mouth.

DRAINAGE AREA.--60.7 sq mi.

PERIOD OF RECORD.--October 1968 to current year. July 1928 to current year in files of Rochester Gas & Electric Corp.

GAGE.--Water-stage recorder. Elevation of gage is 1,440 ft above mean sea level (furnished by Rochester Gas & Electric Corp.).

REMARKS.--Outflow from Rushford Lake (capacity, 1,106,000,000 cu ft) used for power generation. Discharge computed by orifice and/or weir formula. Flow regulated by gates at dam completed in 1928. Area of water surface, 0.89 sq mi.

COOPERATION.--Records furnished by Rochester Gas & Electric Corp.

MONTHEND ELEVATIONS, CONTENTS, AND MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	RUSHFORD LAKE			Observed discharge MEAN	# Adjusted for change in contents in Rushford Lake		
	/ Elevation FT	Contents CU FT	Change in contents CFS		MEAN	CFSM	IN.
October	1,418.5	662.17	-9.94	18.8	8.84	.15	.17
November	1,419.0	670.38	+3.17	43.3	46.5	.77	.85
December	1,422.9	739.76	+25.9	127	153	2.52	2.90
CAL YR 1971			-6.57	85.5	78.9	1.30	17.66
January	1,418.7	665.45	-27.7	124	96.6	1.59	1.83
February	1,398.4	373.16	-117	269	152	2.50	2.71
March	1,418.3	658.80	+107	221	328	5.40	6.23
April	1,426.6	809.83	+58.3	0	58.3	.96	1.07
May	1,438.0	1,058.05	+92.7	20.3	113	1.86	2.15
June	1,439.6	1,096.33	+14.8	212	227	3.74	4.17
July	1,439.1	1,084.41	-4.45	41.6	37.1	.61	.71
August	1,438.8	1,077.24	-2.68	16.7	14.1	.23	.27
September	1,436.8	1,029.37	-18.5	47.9	29.5	.49	.54
WTR YR 1972			+10.8	94.5	105	1.73	23.60

/ Elevation at 2400 hrs last day of month.

Adjustments made by Geological Survey.

NOTE.--All figures of contents expressed in millions.

04223000 GENESEE RIVER AT PORTAGEVILLE, N.Y.

LOCATION.--Lat 42°34'10", long 78°02'45", Wyoming County, on left bank at Portageville, 300 ft downstream from small tributary, 350 ft downstream from abandoned bridge piers, and 0.7 mile upstream from Upper Falls.

DRAINAGE AREA.--981 sq mi.

PERIOD OF RECORD.--August 1908 to current year. Prior to December 1945 published as "at St. Helena". Records published for both sites December 1945 to September 1950.

GAGE.--Water-stage recorder. Datum of gage is 1,082.60 ft above mean sea level (levels by Corps of Engineers). Prior to Aug. 24, 1911, nonrecording gage and Aug. 24, 1911, to Sept. 30, 1946, water-stage recorder, at site 8 miles downstream at different datum.

AVERAGE DISCHARGE.--64 years, 1,214 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, about 90,000 cfs June 23 (gage height, 35.25 ft from high-water mark), from rating curve extended as explained below; minimum, 84 cfs Oct. 22 (gage height, 2.82 ft).

Period of record: Maximum discharge, about 90,000 cfs June 23, 1972 (gage height, 35.25 ft, from high-water mark), from rating curve extended above 25,000 cfs on basis of contracted-opening measurement of 71,000 cfs at highway bridge 0.4 mile upstream and contracted-opening measurement of 98,200 cfs 0.7 mile downstream from gage; minimum discharge, 18 cfs Oct. 5, 17, 1913 (gage height, 1.70 ft, site and datum then in use).

REVISIONS.--The figures of maximum discharge for some water years have been revised, as shown in the following table. They supersede figures published in the water-supply papers or state report indicated:

WSP/WRD N.Y.	Water Year	Date	Discharge (cfs)	Gage height (feet)
1174, 1677	1950	Mar. 29, 1950	35,800	19.28
1207, 1677, 1727	1951	Nov. 26, 1950	35,800	19.26
1437, 1677, 1727	1956	Mar. 7, 1956	43,300	21.70
1627, 1677, 1727	1959	Jan. 22, 1959	37,600	19.85
1912	1964	Mar. 5, 1964	39,400	20.44
WRD N.Y. 1967	1967	Sept. 29, 1967	47,300	22.94

REMARKS.--Records good except those for winter periods and those after May 25, which are poor. Some seasonal regulation by Rushford Lake since July 1928. Diurnal fluctuation at low flow caused by powerplant. Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake.

REVISIONS (WATER YEARS).--WSP 264: 1908. WSP 564: 1916(M). WRD N.Y. 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	430	128	640	3,370	600	780	2,830	873	1,800	3,000	190	120
2	167	131	480	2,460	680	7,000	3,150	1,170	1,000	1,800	250	130
3	116	133	360	2,010	720	13,600	2,670	2,030	720	2,100	240	100
4	116	162	270	1,600	640	6,000	2,400	1,800	600	3,500	250	110
5	126	187	250	1,300	460	4,300	2,100	2,160	940	1,700	210	110
6	114	181	320	900	490	2,800	1,940	1,620	560	1,500	130	120
7	123	190	2,170	860	540	2,500	1,700	1,630	410	1,700	190	150
8	138	199	5,980	880	480	7,690	1,600	2,600	400	1,800	780	130
9	102	196	3,040	860	440	4,400	1,400	8,700	360	1,400	620	100
10	121	199	2,250	1,100	410	2,700	1,600	6,020	350	1,600	390	100
11	116	229	2,050	2,100	400	2,000	1,700	3,280	350	1,600	300	98
12	112	242	1,640	2,400	410	2,000	2,310	2,430	320	1,200	300	100
13	109	274	1,220	1,900	470	3,480	4,070	1,960	310	1,000	240	130
14	107	313	972	4,280	480	4,850	5,060	1,700	320	1,100	220	760
15	100	302	1,460	2,100	580	3,500	3,610	1,730	390	760	200	1,900
16	98	270	2,760	880	600	2,940	4,520	2,650	2,300	1,600	190	290
17	96	249	1,730	680	490	6,190	8,890	2,860	1,200	1,900	210	270
18	94	226	1,280	1,200	520	4,920	4,380	2,210	640	700	250	190
19	94	217	980	1,500	640	3,360	3,150	1,790	1,300	1,800	200	250
20	90	263	960	1,800	500	2,970	3,880	1,510	1,200	380	150	270
21	88	313	1,000	1,400	440	3,540	3,910	1,620	16,000	580	160	170
22	86	329	860	1,200	580	7,140	2,630	1,310	60,000	360	160	180
23	90	288	580	1,900	560	6,850	2,510	1,060	72,000	230	160	160
24	102	267	620	2,250	580	3,770	2,140	891	21,000	180	160	190
25	175	263	760	3,560	600	2,700	1,910	754	9,400	150	140	190
26	159	267	980	2,400	620	2,200	1,580	660	5,100	140	160	240
27	167	372	1,480	1,200	560	1,900	1,350	600	3,300	280	150	340
28	190	410	1,560	920	580	1,940	1,180	560	2,400	160	190	380
29	162	464	1,420	800	620	1,900	1,050	420	1,900	150	150	310
30	141	578	2,290	660	-----	2,560	945	560	3,600	160	150	400
31	136	-----	7,470	580	-----	2,580	-----	1,500	-----	98	130	-----
TOTAL	4,065	7,842	49,832	51,050	15,690	125,060	82,165	60,658	210,170	34,628	7,220	7,988
MEAN	131	261	1,607	1,647	541	4,034	2,739	1,957	7,006	1,117	233	266
MAX	430	578	7,470	4,280	720	13,600	8,890	8,700	72,000	3,500	780	1,900
MIN	86	128	250	580	400	780	945	420	310	98	130	98

CAL YR 1971 TOTAL 377,656 MEAN 1,035 MAX 15,000 MIN 61
WTR YR 1972 TOTAL 656,368 MEAN 1,793 MAX 72,000 MIN 86

PEAK DISCHARGE (BASE, 15,000 CFS).--Mar. 3 (0200) 17,700 cfs (12.72 ft); June 23 (about 1200) about 90,000 cfs (35.25 ft).

NOTE.--No gage-height record May 25 to Sept. 30.

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, N.Y.

LOCATION.--Lat 42°44'00", long 77°54'40", Livingston County, at Mount Morris Dam on Genesee River, 2.0 miles northwest of Mount Morris, 5 miles upstream from Canaseraga Creek, and 40 miles upstream from mouth.

DRAINAGE AREA.--1,075 sq mi.

PERIOD OF RECORD.--January 1952 to current year. Prior to October 1970, published as Mount Morris Reservoir near Mount Morris.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Apr. 8, 1952, reference point at same site and datum.

EXTREMES.--Current year: Maximum elevation, 755.46 ft June 25 (contents, 322,600 acre-ft); minimum, 586.33 ft May 30 (contents, 853 acre-ft).

Period of record: Maximum elevation, 755.46 ft June 25, 1972 (contents, 322,600 acre-ft); minimum, 584.80 ft Feb. 8, 1967, Apr. 30, June 24, 25, Nov. 6-9, 14-15, 1968 (contents, 574 acre-ft).

REMARKS.--Lake is formed by a concrete gravity-type dam with overflow spillway, completed by Corps of Engineers in 1951 for flood control; first used for flood regulation on Nov. 24, 1951. Usable capacity, 336,800 acre-ft between elevation 585.0 ft (sill of conduits) and 760.0 ft (crest of spillway). Dead storage, 609 acre-ft. Discharge is controlled by the operation of nine gates. Water is stored during high flows and released when downstream conditions warrant.

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WSP 1437: 1955. WRD N.Y. 1967: Drainage area.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Furnished by Corps of Engineers in 1953)

586.00	782	630.00	30,500
588.00	1,210	640.00	43,700
590.00	1,730	660.00	78,200
595.00	3,410	680.00	119,800
600.00	5,610	700.00	166,300
605.00	8,250	720.00	217,600
610.00	11,600	760.00	337,400
620.00	19,800		

ELEVATION, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	607.17	591.87	601.14	623.64	592.72	589.54	668.04	592.30	595.44	743.06	604.73	597.68
2	606.54	589.20	602.65	624.69	590.20	601.34	664.96	591.82	594.64	740.67	600.27	596.86
3	604.89	589.01	603.10	625.06	590.19	636.80	661.92	594.26	594.97	737.26	599.20	595.88
4	603.04	589.15	603.12	627.68	589.92	648.09	658.29	594.34	597.45	736.92	599.59	594.77
5	601.16	589.70	602.38	629.42	587.99	653.49	654.48	594.84	598.79	734.38	600.04	593.75
6	599.14	590.01	601.56	627.39	587.08	656.48	650.83	594.04	598.61	730.50	600.33	592.64
7	598.06	590.09	603.21	624.14	588.56	656.28	646.14	592.91	597.88	726.59	600.45	590.62
8	598.04	590.16	617.59	621.06	589.07	658.89	641.85	595.21	597.96	722.77	600.75	589.05
9	598.22	590.19	625.16	617.36	588.66	664.45	636.86	611.06	597.83	718.79	602.03	589.49
10	598.19	590.24	627.52	614.09	588.45	666.52	632.36	629.88	597.69	714.38	600.76	589.25
11	598.27	592.90	628.84	612.71	588.40	667.36	629.82	636.25	598.20	710.35	600.49	589.01
12	598.28	596.88	629.77	614.11	588.44	667.78	626.61	638.00	598.87	706.04	600.07	588.94
13	598.26	596.45	629.61	614.19	588.57	669.38	624.86	637.16	599.16	701.15	599.26	589.08
14	598.24	595.52	627.17	616.95	588.71	672.14	627.76	635.65	599.50	695.78	598.59	591.31
15	598.17	595.20	624.31	619.79	588.76	675.44	628.55	633.59	599.94	690.37	599.02	598.13
16	598.04	594.55	623.76	617.39	588.96	675.84	628.52	630.54	602.04	684.87	599.34	601.12
17	597.93	593.25	623.25	612.79	588.88	677.04	634.44	628.76	605.73	680.66	599.69	601.94
18	597.77	591.55	621.09	608.13	588.79	679.47	638.43	626.10	605.77	675.97	600.46	602.26
19	597.60	590.76	618.09	605.83	589.04	679.96	637.85	620.49	604.22	670.73	601.15	602.48
20	597.45	590.73	614.66	605.84	588.67	679.54	636.40	612.38	603.11	665.17	601.32	602.44
21	597.24	591.79	610.80	604.76	587.62	679.26	636.95	601.38	609.11	658.47	601.16	600.76
22	597.01	593.21	606.95	602.37	588.76	680.45	635.55	591.92	669.88	652.41	600.87	599.79
23	596.83	594.27	601.60	601.06	588.71	684.96	633.28	590.75	721.10	646.25	600.50	599.87
24	596.72	593.94	604.36	604.95	588.74	686.30	630.59	589.34	750.53	642.57	600.08	599.98
25	597.06	593.53	593.54	607.60	588.78	685.92	626.86	588.51	755.13	639.20	599.62	600.56
26	597.50	593.03	594.18	613.94	588.78	684.90	621.40	587.85	754.70	635.68	599.16	601.01
27	596.86	593.50	596.76	611.82	588.64	683.31	614.66	587.32	752.45	632.00	598.86	601.39
28	596.36	595.53	597.52	609.32	588.58	680.66	607.44	586.89	749.32	627.97	598.76	602.04
29	595.96	597.23	598.65	605.27	588.84	677.34	598.16	586.55	745.75	623.59	598.71	599.46
30	595.21	598.94	597.71	601.26	-----	674.24	593.12	587.20	743.35	618.59	598.70	596.26
31	594.19	-----	614.14	595.45	-----	671.41	-----	591.68	-----	612.38	598.37	-----
MEAN	598.56	592.75	610.78	613.55	588.88	666.60	634.23	605.77	641.30	683.08	600.08	596.59
MAX	607.17	598.94	629.77	629.42	592.72	686.30	668.04	638.00	755.13	743.06	604.73	602.48
MIN	594.19	589.01	593.54	595.45	587.08	589.54	593.12	586.55	594.64	612.38	598.37	588.94
(#)	2,900	5,554	21,680	3,243	1,496	97,775	2,622	3,422	284,390	10,676	4,694	4,881
(#)	-111	+45	+262	-300	-30	+1,566	-1,600	+13	+4,722	-4,450	-97	+3.1

CAL YR 1971 MEAN 602.46 MAX 660.40 MIN 587.10 # +27
WTR YR 1972 MEAN 619.55 MAX 755.13 MIN 586.55 # -6.7

* Contents, in acre-feet, at end of month.

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

STREAMS TRIBUTARY TO LAKE ONTARIO

04225000 CANASERAGA CREEK NEAR DANSVILLE, N.Y.

LOCATION.--Lat 42°33'36", long 77°42'57", Livingston County, on left bank 200 ft upstream from bridge on State Highway 245 (Ossian Street), 0.5 mile downstream from Mill Creek, and 1 mile west of Dansville.

DRAINAGE AREA.--153 sq mi. October 1917 to September 1919, October 1938 to September 1940, 155 sq mi.

PERIOD OF RECORD.--July 1910 to December 1912, July 1915 to June 1917, October 1917 to September 1919 (published as "at Cumminsville"), March 1919 to September 1968, July 1970 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 640.00 ft above mean sea level (levels by New York State Conservation Commission). Prior to Oct. 19, 1920, nonrecording gage at or within 1 mile of present site at various datums. Oct. 19, 1920, to Sept. 30, 1938, Oct. 9, 1940, to Sept. 30, 1968, July 1970 to present, water-stage recorder at present site and datum, and Oct. 1, 1938, to Oct. 8, 1940, at site 0.9 mile downstream at datum 15.70 ft lower.

AVERAGE DISCHARGE.--55 years (1910-12, 1915-16, 1917-19, 1920-68, 1971-72), 151 cfs (13.40 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,600 cfs June 23 (gage height, 14.85 ft, from floodmarks), from rating curve extended as explained below; minimum, 20 cfs Oct. 2, 20 (gage height, 5.07 ft).

Period of record: Maximum discharge at present site, 9,600 cfs June 23, 1972 (gage height, 14.85 ft, from floodmarks), from rating curve extended on basis of contracted-opening measurement of peak flow; minimum daily, 3 cfs Apr. 28, 1912.

REVISIONS.--The maximum discharge for the water year 1967 has been revised to 4,510 cfs Sept. 28, 1967 (gage height, 10.74 ft), superseding figure published in WRD N.Y. 1967.

REMARKS.--Records fair.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for high-water period in the 1967 water year, superseding figures published in WRD N.Y. 1967, 1968, are given below:

Sept. 28, 1967..... 793

Sept. 29, 1967..... 1,670

Month	Cfs-days	Mean	Maximum	Minimum	Per square mile	Runoff in inches
September 1967	3,750	125	1,670	20	.82	.91
WAT YR 1967	42,095	115	1,670	16	.75	10.23
CAL YR 1967	56,597	155	1,670	20	1.01	13.76

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	25	48	205	72	160	362	134	315	481	83	42
2	21	27	36	167	74	1,500	401	155	229	373	91	41
3	21	26	39	139	76	1,050	325	233	184	716	96	42
4	29	27	35	120	72	600	300	268	170	646	80	42
5	24	27	36	100	62	460	268	335	148	443	74	42
6	22	26	50	76	58	350	250	229	120	443	72	41
7	27	30	198	88	56	410	220	259	107	340	80	42
8	26	28	330	84	54	978	200	462	96	295	81	43
9	25	27	161	86	52	480	190	1,530	91	237	72	43
10	26	30	126	120	50	320	190	882	91	254	67	39
11	25	33	120	210	48	290	205	507	86	213	64	38
12	24	31	103	202	52	340	263	351	82	213	64	37
13	23	31	83	277	56	373	597	290	78	250	63	47
14	21	30	70	390	64	449	541	263	110	268	61	107
15	21	32	134	160	72	362	413	268	440	272	60	91
16	22	30	177	94	74	419	597	455	200	390	55	55
17	22	29	117	100	72	660	786	362	140	281	58	49
18	22	28	92	120	68	514	481	277	120	209	57	47
19	21	30	78	150	64	420	379	233	110	188	54	78
20	21	31	80	130	50	380	462	250	110	357	52	61
21	21	32	86	110	60	560	379	263	3,000	373	50	51
22	21	32	76	100	66	900	300	213	4,720	213	50	46
23	22	30	72	150	64	590	295	188	4,560	181	49	43
24	39	30	70	150	62	410	250	167	1,600	161	50	57
25	41	33	70	140	62	300	245	145	1,260	151	50	60
26	35	33	84	140	60	260	213	126	810	136	46	50
27	29	37	101	110	58	230	177	107	562	117	61	55
28	27	39	110	100	66	210	161	98	413	110	51	51
29	27	42	96	84	72	213	148	91	335	103	49	46
30	26	58	150	80	-----	310	139	98	604	94	46	151
31	26	-----	280	76	-----	320	-----	315	-----	89	45	-----
TOTAL	778	944	3,308	4,258	1,816	14,818	9,737	9,554	20,891	8,597	1,931	1,637
MEAN	25.1	31.5	107	137	62.6	478	325	308	696	277	62.3	54.6
MAX	41	58	330	390	76	1,500	786	1,530	4,720	716	96	151
MIN	21	25	35	76	48	160	139	91	78	89	45	37
CFSM	.16	.21	.70	.90	.41	3.12	2.12	2.01	4.55	1.81	.41	.36
IN.	.19	.23	.80	1.04	.44	3.60	2.37	2.32	5.08	2.09	.47	.40

CAL YR 1971 TOTAL 49,992 MEAN 137 MAX 1,740 MIN 19 CFSM .90 IN 12.15
WTR YR 1972 TOTAL 78,269 MEAN 214 MAX 4,720 MIN 21 CFSM 1.40 IN 19.03

PEAK DISCHARGE (BASE, 2,000 CFS).--Mar. 2 (1715) 2,460 cfs (8.95 ft); June 23 (0245) 9,600 cfs (14.85 ft).

STREAMS TRIBUTARY TO LAKE ONTARIO

195

04227500 GENESEE RIVER NEAR MOUNT MORRIS, N.Y.

LOCATION.--Lat 42°46'00", long 77°50'21", Livingston County, on right bank at Jones Bridge, 0.8 mile downstream from Canaseraga Creek and 2.8 miles northeast of Mount Morris.

DRAINAGE AREA.--1,417 sq mi.

PERIOD OF RECORD.--May 1903 to April 1906, August 1908 to April 1914, July 1915 to current year. Prior to 1968, published as "at Jones Bridge."

GAGE.--Water-stage recorder. Datum of gage is 540.00 ft above mean sea level (levels by New York State Conservation Commission). Prior to Sept. 11, 1915, nonrecording gage on bridge at datum 2.73 ft lower.

AVERAGE DISCHARGE.--62 years (1908-13, 1915-72), 1,608 cfs.

EXTREMES.--Current year: Maximum discharge, 17,800 cfs June 24 (gage height, 24.50 ft); minimum, 66 cfs Nov. 12-13 (gage height, 1.02 ft).

Period of record: Maximum discharge, 55,100 cfs May 17, 1916 (gage height, 25.44 ft); minimum, 12 cfs July 23, 1955 (gage height, 0.22 ft, partially obstructed intake); minimum daily, 30 cfs Aug. 8, 1909.

REMARKS.--Records fair. Diurnal fluctuation at low flow caused by powerplants. Flow regulated to some extent by Rushford Lake (see station 04221991) since July 1928 and, at high flows, since November 1951 by Mount Morris Lake (see station 04244000). Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake and Mount Morris Lake.

REVISIONS (WATER YEARS).--WSP 1277: 1952. WSP 1387: 1913. WSP 1437: 1955. WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	530	259	468	3,000	1,200	1,600	7,150	1,990	2,100	6,100	2,290	303
2	520	209	460	2,950	1,100	3,900	7,130	1,910	2,100	8,520	1,100	289
3	500	182	480	1,870	1,190	5,800	6,940	2,300	1,400	8,520	800	285
4	481	198	480	388	1,170	4,300	6,760	2,570	1,200	5,010	660	279
5	459	226	470	1,500	1,000	3,500	6,560	2,900	1,200	8,620	600	259
6	414	238	486	2,800	900	3,600	6,350	2,560	1,000	9,150	660	253
7	241	247	550	2,600	800	5,000	6,110	2,210	800	9,190	760	253
8	169	253	1,230	2,400	840	6,400	5,870	2,830	700	8,890	900	206
9	169	256	1,610	2,300	920	5,200	5,620	4,900	600	8,650	1,100	238
10	169	272	1,590	2,500	900	4,000	4,550	2,430	500	8,460	800	232
11	172	253	1,580	2,730	880	3,700	4,040	2,460	500	8,290	600	192
12	174	79	1,610	2,800	900	3,500	4,520	3,340	500	8,260	560	203
13	169	352	2,170	2,740	1,100	3,200	4,920	3,790	500	8,550	560	215
14	167	396	2,900	2,600	1,300	3,000	5,180	3,650	500	8,710	440	310
15	162	405	2,850	2,400	1,300	3,600	4,960	4,120	700	8,650	400	545
16	164	392	3,010	2,200	1,400	4,950	5,020	4,830	1,200	8,450	400	427
17	162	364	2,900	2,200	1,300	6,060	6,060	5,030	1,800	8,270	400	405
18	162	340	2,790	2,100	1,200	5,690	5,680	5,120	1,300	7,860	280	400
19	162	289	2,650	2,100	1,200	5,070	5,440	5,480	1,200	7,560	332	423
20	159	289	2,560	2,000	1,000	4,850	5,500	4,940	1,400	7,660	352	595
21	154	344	2,410	2,000	900	4,870	5,500	4,220	2,200	7,970	352	742
22	157	360	2,250	2,000	900	5,400	5,240	2,460	5,640	7,630	336	515
23	159	384	1,900	2,000	960	5,420	5,120	1,900	13,200	6,160	332	320
24	167	348	1,300	2,260	960	5,030	4,890	1,400	16,500	3,730	332	380
25	198	348	920	2,590	960	4,810	4,980	1,200	15,200	3,570	340	436
26	226	344	1,040	2,500	1,000	4,650	5,020	1,100	13,800	3,470	320	409
27	269	344	1,500	2,400	960	5,040	4,310	980	12,000	3,330	332	400
28	259	372	1,720	2,360	940	5,830	3,560	920	10,400	3,170	324	676
29	253	400	1,780	2,300	920	6,210	2,850	860	9,100	3,010	324	1,060
30	247	445	1,730	2,100	-----	6,250	2,130	860	6,680	2,830	313	814
31	238	-----	2,920	1,700	-----	6,610	-----	900	-----	2,600	306	-----
TOTAL	7,632	9,188	52,314	70,388	30,100	147,040	157,960	86,160	125,920	210,840	17,605	12,064
MEAN	246	306	1,688	2,271	1,038	4,743	5,265	2,779	4,197	6,801	568	402
MAX	530	445	3,010	3,000	1,400	6,610	7,150	5,480	16,500	9,190	2,290	1,060
MIN	154	79	460	388	800	1,600	2,130	860	500	2,600	280	192

CAL YR 1971 TOTAL 560,539 MEAN 1,536 MAX 7,740 MIN 65
WTR YR 1972 TOTAL 927,211 MEAN 2,533 MAX 16,500 MIN 79

STREAMS TRIBUTARY TO LAKE ONTARIO

04227980 CONESUS LAKE NEAR LAKEVILLE, N.Y.

LOCATION.--Lat 42°47'39", long 77°43'15", Livingston County, on west shore of Conesus Lake at Geneseo Water Works Pumping Station, 300 ft east of State Highway 256, and 3.0 miles south of Lakeville.

DRAINAGE AREA.--69.7 sq mi.

PERIOD OF RECORD.--July 1963 to current year. Since 1930 in files of village of Geneseo.

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft above mean sea level. Prior to Oct. 1, 1970, nonrecording gage at site 200 ft downstream at datum 3.41 ft lower.

EXTREMES.--Current year: Maximum gage height, 22.50 ft June 24; minimum, 16.94 ft Nov. 29, Dec. 4, 5-6.

Period of record: Maximum gage height, 22.50 ft June 24, 1972; minimum observed, 16.33 ft (present datum) Nov. 3-8, 1963.

REMARKS.--Lake level maintained by plank and pile dam at outlet. Area of water surface, 5.08 sq mi. Daily average of about 2 cfs diverted from lake for water supply for Avon, Geneseo, and Lakeville Water District.

REVISIONS.--WRD N.Y. 1967: Drainage area.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.50	17.16	16.98	17.44	17.76	17.76	19.66	19.35	19.23	21.48	18.66	18.05
2	17.50	17.16	16.97	17.47	17.75	18.09	19.65	19.32	19.23	21.33	18.64	18.02
3	17.49	17.15	16.96	17.49	17.74	18.57	19.62	19.30	19.22	21.20	18.65	18.00
4	17.49	17.14	16.95	17.51	17.77	18.74	19.59	19.29	19.19	21.08	18.61	17.97
5	17.48	17.12	16.95	17.53	17.76	18.85	19.55	19.31	19.15	20.96	18.57	17.93
6	17.46	17.09	16.97	17.53	17.75	18.90	19.52	19.29	19.11	20.86	18.53	17.91
7	17.44	17.10	17.00	17.53	17.75	18.93	19.50	19.28	19.07	20.79	18.55	17.88
8	17.41	17.08	17.02	17.52	17.74	19.12	19.45	19.30	19.02	20.67	18.54	17.86
9	17.40	17.06	17.04	17.52	17.72	19.22	19.40	19.50	19.00	20.55	18.51	17.84
10	17.38	17.05	17.07	17.52	17.71	19.24	19.37	19.64	18.95	20.47	18.47	17.81
11	17.37	17.03	17.09	17.56	17.69	19.23	19.35	19.67	18.90	20.36	18.43	17.78
12	17.34	17.02	17.09	17.60	17.68	19.21	19.35	19.65	18.86	20.26	18.41	17.76
13	17.33	17.01	17.10	17.63	17.70	19.21	19.45	19.61	18.83	20.15	18.39	17.75
14	17.31	17.00	17.10	17.69	17.74	19.24	19.58	19.59	18.83	20.06	18.38	17.78
15	17.30	17.02	17.14	17.71	17.74	19.27	19.62	19.57	18.85	19.98	18.38	17.77
16	17.28	17.01	17.19	17.70	17.73	19.30	19.66	19.61	18.96	19.89	18.35	17.75
17	17.27	17.01	17.20	17.69	17.72	19.49	19.88	19.73	18.96	19.81	18.33	17.73
18	17.26	17.00	17.20	17.68	17.71	19.62	19.96	19.80	18.95	19.73	18.31	17.72
19	17.24	17.00	17.20	17.68	17.73	19.66	19.88	19.80	18.94	19.65	18.29	17.73
20	17.23	17.00	17.20	17.69	17.78	19.66	19.92	19.78	18.93	19.56	18.26	17.71
21	17.21	17.00	17.21	17.70	17.77	19.68	19.96	19.76	19.02	19.48	18.24	17.69
22	17.20	16.99	17.20	17.71	17.76	19.78	19.92	19.71	19.73	19.40	18.21	17.66
23	17.20	16.97	17.20	17.72	17.75	19.91	19.74	19.66	21.92	19.32	18.19	17.63
24	17.22	16.97	17.19	17.75	17.74	19.94	19.66	19.59	22.49	19.24	18.18	17.64
25	17.25	16.98	17.19	17.77	17.74	19.92	19.60	19.53	22.41	19.16	18.16	17.65
26	17.24	16.97	17.20	17.79	17.75	19.87	19.59	19.46	22.23	19.08	18.14	17.64
27	17.23	16.96	17.22	17.78	17.75	19.82	19.58	19.39	22.02	19.00	18.14	17.63
28	17.21	16.96	17.24	17.79	17.74	19.76	19.52	19.33	21.80	18.92	18.15	17.60
29	17.20	16.96	17.25	17.79	17.74	19.71	19.46	19.26	21.60	18.85	18.12	17.59
30	17.18	16.98	17.30	17.78	-----	19.70	19.40	19.22	21.59	18.78	18.09	17.62
31	17.18	-----	17.40	17.77	-----	19.68	-----	19.24	-----	18.72	18.07	-----
MEAN	17.32	17.03	17.13	17.65	17.74	19.33	19.61	19.50	19.83	19.96	18.35	17.77
MAX	17.50	17.16	17.40	17.79	17.78	19.94	19.96	19.80	22.49	21.48	18.66	18.05
MIN	17.18	16.96	16.95	17.44	17.68	17.76	19.35	19.22	18.83	18.72	18.07	17.59
CAL YR 1971	MEAN 18.30		MAX 20.51		MIN 16.95							
WTR YR 1972	MEAN 18.44		MAX 22.49		MIN 16.95							

STREAMS TRIBUTARY TO LAKE ONTARIO

197

04228500 GENESEE RIVER AT AVON, N.Y.

LOCATION.--Lat 42°55'04", long 77°45'27", Livingston County, on right bank 250 ft downstream from bridge on U.S. Highway 20 (State Highway 5), 0.3 mile west of Avon, and 0.8 mile downstream from Conesus Creek.

DRAINAGE AREA.--1,667 sq mi.

PERIOD OF RECORD.--August 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--17 years, 1,815 cfs.

EXTREMES.--Current year: Maximum discharge, 16,500 cfs June 25 (gage height, 40.67 ft); minimum, 117 cfs Nov. 13 (gage height, 14.01 ft).

Period of record: Maximum discharge, 16,500 cfs June 25, 1972 (gage height, 40.67 ft); minimum, 56 cfs Oct. 5, 1955 (gage height, 13.73 ft, from graph based on gage readings).

REMARKS.--Records fair except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by powerplants. Flow regulated to some extent by Rushford Lake (see station 04221991) and at high flows, by Mount Morris Lake (see station 04224000) and by Conesus Lake (see station 04227980). Monthly figures of discharge and runoff August 1955 to September 1965 adjusted for change in contents in Rushford Lake and Mount Morris Lake.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	575	273	528	2,880	1,500	1,400	7,370	1,610	1,850	8,020	2,330	384
2	589	296	500	2,900	1,300	2,500	7,530	1,530	2,100	7,800	1,550	372
3	565	228	520	2,700	1,400	5,000	7,350	2,360	1,590	9,530	1,030	369
4	541	208	560	1,180	1,300	4,500	7,070	2,800	1,120	6,970	765	363
5	521	222	540	600	1,100	3,500	6,840	2,980	985	7,730	678	354
6	500	252	580	2,500	920	3,000	6,570	2,980	1,010	9,240	660	336
7	422	276	600	3,280	840	4,300	6,290	2,390	978	9,690	696	327
8	239	276	854	2,900	860	6,000	6,050	2,550	792	9,430	774	321
9	176	286	1,470	2,590	940	5,400	5,790	5,680	720	9,060	1,000	279
10	176	286	1,610	2,430	920	4,600	5,530	4,490	675	8,840	1,120	300
11	182	317	1,600	2,680	900	4,000	4,070	2,810	627	8,710	816	294
12	182	235	1,600	2,910	920	3,800	4,660	2,960	531	8,360	687	261
13	182	129	1,670	2,830	1,100	3,900	5,220	3,790	540	8,430	669	270
14	179	409	2,510	3,280	1,400	3,400	6,050	3,750	546	8,660	657	297
15	176	456	2,680	3,100	1,400	3,100	5,490	3,720	549	8,720	528	474
16	170	460	2,810	2,400	1,500	4,500	5,210	4,790	711	8,630	477	522
17	173	439	2,800	2,200	1,400	6,600	6,440	6,110	1,240	8,420	471	444
18	179	398	2,700	2,200	1,300	7,400	6,310	5,660	1,230	8,040	471	429
19	179	368	2,590	2,300	1,300	6,000	5,830	5,830	1,170	7,650	387	432
20	179	317	2,500	2,300	1,100	5,200	5,880	5,370	1,150	7,390	453	459
21	173	337	2,400	2,200	1,000	5,200	6,240	4,670	1,200	7,740	456	702
22	163	402	2,280	2,100	1,000	6,000	5,740	3,260	3,870	7,700	453	651
23	179	398	2,090	2,200	1,100	7,210	5,540	2,080	11,500	7,180	435	474
24	192	398	1,790	2,300	1,100	6,120	5,260	1,710	15,400	4,550	429	384
25	218	398	1,100	2,400	1,100	5,460	4,960	1,460	16,200	3,500	432	441
26	232	395	1,100	2,500	1,100	5,130	5,150	1,280	14,900	3,370	426	471
27	276	388	1,320	2,500	1,100	5,050	4,820	1,130	13,700	3,250	423	438
28	307	402	1,740	2,300	1,100	5,720	3,930	1,020	12,500	3,100	435	441
29	296	436	1,820	2,200	1,200	6,400	3,310	921	10,700	2,940	417	831
30	286	490	1,820	2,000	-----	6,670	2,330	858	9,910	2,770	417	943
31	279	-----	2,270	1,800	-----	6,760	-----	982	-----	2,580	399	-----
TOTAL	8,686	10,175	50,952	74,660	33,200	153,820	168,830	93,531	129,994	218,000	20,941	13,063
MEAN	280	339	1,644	2,408	1,145	4,962	5,628	3,017	4,333	7,032	676	435
MAX	589	490	2,810	3,280	1,500	7,400	7,530	6,110	16,200	9,690	2,330	943
MIN	163	129	500	600	840	1,400	2,330	858	531	2,580	387	261

CAL YR 1971 TOTAL 602,674 MEAN 1,651 MAX 9,430 MIN 64
WTR YR 1972 TOTAL 975,852 MEAN 2,666 MAX 16,200 MIN 129

LOCATION.—Lat 42°45'44", long 77°30'21", Ontario County, on east shore of Honeoye Lake, at Trident Marina on East Shore Road, 1.9 miles south of U.S. Highway 20A, and 2.0 miles southeast of Honeoye.

PERIOD OF RECORD.--July to December 1963. Occasional readings January to August 1964. October 1964 to current year.

EXTREMES.--Current year: Maximum gage height, 6.91 ft June 23; minimum, 2.36 ft Oct. 21-22.

REMARKS.--Area of water surface, 2.71 sq mi.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.50	2.44	2.71	3.21	3.09	2.92	3.70	3.56	3.49	5.28	2.91	2.84
2	2.49	2.46	2.71	3.22	3.06	3.35	3.71	3.55	3.46	5.12	2.90	2.83
3	2.49	2.47	2.71	3.22	3.05	3.88	3.69	3.52	3.42	5.03	2.94	2.82
4	2.50	2.48	2.71	3.21	3.07	4.08	3.67	3.50	3.39	4.97	2.93	2.81
5	2.50	2.47	2.73	3.21	3.04	4.22	3.65	3.50	3.34	4.84	2.89	2.80
6	2.48	2.47	2.76	3.20	3.03	4.31	3.63	3.48	3.30	4.73	2.86	2.79
7	2.47	2.47	2.80	3.17	3.01	4.32	3.61	3.45	3.25	4.60	2.87	2.78
8	2.46	2.46	2.86	3.15	2.99	4.38	3.56	3.46	3.20	4.47	2.85	2.78
9	2.46	2.46	2.90	3.13	2.96	4.34	3.52	3.67	3.17	4.35	2.82	2.77
10	2.44	2.46	2.97	3.12	2.94	4.25	3.49	3.77	3.11	4.27	2.78	2.77
11	2.43	2.46	2.99	3.14	2.91	4.14	3.49	3.78	3.08	4.17	2.76	2.76
12	2.41	2.46	3.01	3.16	2.89	4.06	3.50	3.75	3.04	4.07	2.73	2.75
13	2.41	2.46	3.01	3.18	2.92	4.00	3.63	3.72	3.01	3.98	2.72	2.77
14	2.40	2.47	3.01	3.23	2.97	3.96	3.79	3.70	3.02	3.91	2.74	2.85
15	2.39	2.50	3.07	3.22	2.97	3.92	3.87	3.67	3.04	3.86	2.78	2.90
16	2.38	2.50	3.10	3.19	2.96	3.87	3.91	3.70	3.24	3.81	2.77	2.90
17	2.38	2.51	3.10	3.15	2.95	3.92	4.04	3.96	3.25	3.75	2.77	2.91
18	2.39	2.52	3.09	3.13	2.93	3.94	4.06	3.96	3.23	3.71	2.77	2.90
19	2.38	2.55	3.07	3.13	2.95	3.91	4.04	3.93	3.22	3.61	2.77	2.91
20	2.38	2.56	3.06	3.13	3.00	3.85	4.05	3.91	3.21	3.55	2.77	2.91
21	2.37	2.58	3.05	3.13	2.98	3.84	4.06	3.91	3.51	3.49	2.77	2.90
22	2.37	2.59	3.03	3.12	2.96	3.94	4.04	3.87	4.56	3.42	2.77	2.89
23	2.38	2.59	3.01	3.14	2.94	4.04	4.01	3.82	6.39	3.36	2.78	2.88
24	2.41	2.59	3.00	3.15	2.93	4.04	3.96	3.76	6.49	3.29	2.79	2.90
25	2.44	2.61	2.97	3.21	2.91	4.00	3.92	3.69	6.25	3.24	2.80	2.93
26	2.44	2.62	2.99	3.21	2.91	3.94	3.86	3.63	6.09	3.19	2.80	2.94
27	2.45	2.64	3.01	3.19	2.90	3.88	3.79	3.56	5.91	3.14	2.87	2.94
28	2.45	2.63	3.04	3.18	2.88	3.82	3.74	3.50	5.66	3.09	2.87	2.95
29	2.44	2.64	3.03	3.16	2.87	3.77	3.68	3.44	5.44	3.03	2.86	2.96
30	2.44	2.70	3.07	3.14	-----	3.75	3.62	3.41	5.40	2.99	2.85	2.98
31	2.45	-----	3.18	3.11	-----	3.71	-----	3.48	-----	2.95	2.85	-----
MEAN	2.43	2.53	2.96	3.17	2.96	3.95	3.78	3.66	4.01	3.91	2.82	2.86
MAX	2.50	2.70	3.18	3.23	3.09	4.38	4.06	3.96	6.49	5.28	2.94	2.98
MIN	2.37	2.44	2.71	3.11	2.87	2.92	3.49	3.41	3.01	2.95	2.72	2.75
CAL YR 1971	MEAN 3.03		MAX 4.71		MIN 2.32							
WTR YR 1972	MEAN 3.25		MAX 6.49		MIN 2.37							

STREAMS TRIBUTARY TO LAKE ONTARIO

199

04229000 CANADICE OUTLET NEAR HEMLOCK, N.Y.

LOCATION.--Lat 42°44'27", long 77°34'20", Ontario County, upstream from weir, 60 ft downstream from dam at outlet of Canadice Lake, 3.6 miles upstream from point of diversion to Hemlock Lake, and 4 miles southeast of Hemlock.

DRAINAGE AREA.--12.4 sq mi.

PERIOD OF RECORD.--April 1903 to current year. Prior to October 1966, published as Canadice Lake Outlet.

GAGE.--Nonrecording gage read once daily and whenever control gate is changed. Datum of gage is 1,093.00 ft above mean sea level (furnished by city of Rochester).

AVERAGE DISCHARGE.--69 years, 11.6 cfs (unadjusted).

REMARKS.--Outflow from Canadice Lake diverted into Hemlock Lake for Rochester water supply. Flow regulated by gates at dam and augmented by pumping. Discharge computed by weir formula and from pumping records.

COOPERATION.--Records furnished by Department of Public Works, City of Rochester.

REVISIONS (WATER YEARS).--WRD N.Y. 1967: Drainage area. WRD N.Y. 1968: 1967.

MONTHEND ELEVATIONS, CONTENTS, AND MONTHLY DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	CANADICE LAKE			Observed discharge MEAN	# Adjusted for change in contents in Canadice Lake		
	# Elevation FT	Contents CU FT	Change in contents CFS		MEAN	CFSM	IN.
October	1,092.16	287.48	-1.25	1.56	.30	.02	.03
November	1,092.12	286.36	-.43	78.0	77.6	6.26	6.98
December	1,092.74	303.72	+6.48	4.35	10.8	.87	1.01
CAL YR 1971			-5.08	12.9	7.81	.63	8.55
January	1,094.08	341.40	+14.1	3.17	17.2	1.39	1.60
February	1,093.93	337.04	-1.74	9.36	7.62	.61	.66
March	1,097.09	434.97	+36.6	12.6	49.1	3.96	4.57
April	1,098.46	480.64	+17.6	17.2	34.8	2.81	3.13
May	1,098.86	494.24	+5.08	7.76	12.8	1.04	1.19
June	1,098.93	496.62	+.92	2.28	3.20	.26	.29
July	1,098.61	485.74	-4.06	2.30	-1.77	-.14	-.16
August	1,098.58	484.72	-.38	0	-.38	-.03	-.04
September	1,098.54	483.36	-.52	0	-.52	-.04	-.05
WTR YR 1972			+6.09	11.4	17.5	1.41	19.2

Elevation at 2400 hrs last day of month.

Adjustments by Geological Survey. Negative figures indicate that natural losses from Canadice Lake exceeded inflow.

NOTE.--All figures of contents expressed in millions.

STREAMS TRIBUTARY TO LAKE ONTARIO

04230380 OATKA CREEK AT WARSAW, N.Y.

LOCATION.--Lat 42°44'39", long 78°08'16", Wyoming County, on right bank 400 ft downstream from bridge on Court St., Warsaw.

DRAINAGE AREA.--41.9 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 987.15 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--8 years (1964-72), 48.8 cfs (15.82 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,010 cfs June 23 (gage height, 9.75 ft), from rating curve extended as explained below; minimum, 3.2 cfs Oct. 20-23 (gage height, 1.49 ft).

Period of record: Maximum discharge, 4,010 cfs June 23, 1972 (gage height, 9.75 ft), from rating curve extended above 1,770 cfs on basis of slope-area measurement of peak flow; minimum, 0.90 cfs Aug. 1, 1965; minimum recorded gage height, 1.44 ft Aug. 30, Aug. 31 to Sept. 2, Sept. 23, 24, 1969, Aug. 15-17, 1970.

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

REVISIONS.--WRD N.Y. 1966: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	4.7	24	100	33	50	185	40	40	110	9.8	5.3
2	4.3	4.7	21	68	35	410	157	83	34	60	15	4.9
3	3.9	6.1	19	55	36	384	119	74	25	75	14	5.7
4	3.9	12	16	49	29	224	110	65	23	66	14	6.5
5	5.1	15	21	42	28	140	86	72	20	49	11	5.7
6	4.7	10	47	40	27	96	72	49	18	72	9.8	5.3
7	5.1	13	179	64	25	154	66	58	17	90	30	4.9
8	5.1	13	120	64	24	377	60	135	15	56	23	4.9
9	4.7	11	77	68	23	160	64	369	19	42	16	6.5
10	5.1	12	80	96	22	88	76	127	17	97	13	5.3
11	4.7	19	107	110	21	92	148	77	16	60	11	4.9
12	4.7	16	55	77	23	100	183	58	15	40	9.8	4.5
13	4.7	23	40	164	25	120	491	51	16	33	9.8	4.9
14	4.3	18	31	130	35	140	259	54	18	32	13	29
15	3.9	19	149	48	37	120	175	54	39	33	14	14
16	3.5	16	103	37	34	140	286	62	51	33	9.8	7.5
17	3.5	13	49	46	31	200	263	112	22	28	11	6.1
18	3.5	11	35	50	31	160	137	83	18	23	12	7.0
19	3.5	13	36	140	29	140	112	52	17	21	9.8	9.8
20	3.2	23	38	80	25	130	222	46	25	20	7.5	8.2
21	3.2	35	60	64	22	360	129	48	67	17	7.0	6.5
22	3.2	27	43	84	20	250	104	36	761	15	6.5	5.7
23	3.9	21	34	160	18	200	97	30	1,510	14	7.5	5.3
24	15	24	39	82	19	150	83	27	268	14	9.8	12
25	20	18	43	66	21	110	72	24	177	25	7.5	24
26	9.4	19	105	48	22	90	58	22	112	20	9.0	13
27	6.7	22	75	46	23	74	50	21	78	15	13	11
28	5.6	25	118	41	27	66	46	20	58	14	11	9.8
29	4.7	27	55	39	32	66	42	18	52	12	7.5	8.3
30	5.6	34	143	37	-----	138	39	40	177	11	6.5	35
31	5.6	-----	175	35	-----	152	-----	72	-----	11	5.7	-----
TOTAL	169.0	524.5	2,137	2,230	777	5,081	3,991	2,079	3,725	1,208	354.3	281.5
MEAN	5.45	17.5	68.9	71.9	26.8	164	133	67.1	124	39.0	11.4	9.38
MAX	20	35	179	164	37	410	491	369	1,510	110	30	35
MIN	3.2	4.7	16	35	18	50	39	18	15	11	5.7	4.5
CFSM	.13	.42	1.64	1.72	.64	3.91	3.17	1.60	2.96	.93	.27	.22
IN.	.15	.47	1.90	1.98	.69	4.51	3.54	1.85	3.31	1.07	.31	.25

CAL YR 1971 TOTAL 17,217.5 MEAN 47.2 MAX 593 MIN 2.9 CFSM 1.13 IN 15.29
WTR YR 1972 TOTAL 22,557.3 MEAN 61.6 MAX 1,510 MIN 3.2 CFSM 1.47 IN 20.03

PEAK DISCHARGE (BASE, 690 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	1430	5.78	700	4-16	2030	4.86	721
4-13	1115	5.15	822	6-23	0245	9.75	4,010

/ About

04230500 OATKA CREEK AT GARBUTT, N.Y.

LOCATION.--Lat 43°00'36", long 77°47'30", Monroe County, on right bank 40 ft downstream from bridge on Union Street in Garbutt, 1.5 miles west of Scottsville, and 4.0 miles upstream from mouth.

DRAINAGE AREA.--204 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 560.89 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--27 years, 197 cfs (13.11 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,840 cfs June 24 (gage height, 6.89 ft); minimum, 6.0 cfs Feb. 5 (gage height, 1.90 ft, result of freezeup; minimum daily, 27 cfs Nov. 5, 13-14.

Period of record: Maximum discharge, 7,050 cfs Mar. 31, 1960 (gage height, 8.64 ft); minimum, 3.3 cfs Sept. 11, 12, 1958; minimum gage height, 1.88 ft June 19, 1959, result of regulation; minimum daily discharge, 13 cfs Oct. 30 to Nov. 1, 1966.

REMARKS.--Records good.

REVISIONS.--WRD N.Y. 1966: Drainage area. WRD N.Y. 1971: 1960(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	28	53	203	157	131	676	253	270	534	77	45
2	30	28	53	327	147	188	689	270	249	532	80	45
3	30	28	45	283	147	630	656	540	217	516	80	50
4	31	28	47	233	144	734	570	483	188	497	83	46
5	31	27	42	191	120	930	516	461	164	391	77	45
6	31	28	44	120	140	708	461	417	144	316	72	44
7	31	29	63	100	110	626	395	360	131	330	81	44
8	31	28	105	110	110	879	370	365	119	417	98	44
9	31	28	206	120	100	1,010	345	695	116	397	99	44
10	30	28	188	130	100	1,040	375	900	128	332	89	43
11	30	28	164	221	100	851	455	795	108	408	76	42
12	30	28	153	336	98	606	488	488	102	389	69	41
13	30	27	147	332	98	588	650	385	97	282	64	43
14	30	27	113	370	116	600	1,030	336	94	218	68	43
15	30	33	111	380	122	600	1,110	332	91	212	82	41
16	29	30	135	406	138	606	689	360	102	212	72	40
17	29	29	214	395	144	754	823	558	125	199	71	41
18	29	28	229	174	141	1,150	1,010	624	119	174	66	40
19	29	29	164	188	138	1,300	656	494	94	154	62	43
20	29	31	111	229	119	1,080	682	355	77	140	57	42
21	28	33	116	283	110	975	788	304	80	128	56	40
22	28	33	119	249	110	1,360	695	287	130	120	54	40
23	31	31	122	309	110	1,820	570	261	1,500	110	53	40
24	34	39	105	411	120	1,470	516	241	3,170	102	52	68
25	41	81	97	406	120	858	450	225	2,190	98	52	59
26	33	42	113	350	120	594	395	210	1,020	95	50	52
27	30	34	131	327	110	528	350	203	618	94	50	58
28	29	36	191	203	110	499	313	195	417	94	52	49
29	29	37	221	195	110	499	287	184	322	86	49	45
30	29	51	233	181	-----	606	270	181	464	80	49	58
31	28	-----	191	160	-----	669	-----	237	-----	76	47	-----
TOTAL	942	987	4,026	7,922	3,509	24,889	17,280	11,999	12,646	7,733	2,087	1,375
MEAN	30.4	32.9	130	256	121	803	576	387	422	249	67.3	45.8
MAX	41	81	233	411	157	1,820	1,110	900	3,170	534	99	68
MIN	28	27	42	100	98	131	270	181	77	76	47	40
CFSM	.15	.16	.64	1.25	.59	3.94	2.82	1.90	2.07	1.22	.33	.22
IN.	.17	.18	.73	1.44	.64	4.54	3.15	2.19	2.31	1.41	.38	.25
CAL YR 1971	TOTAL 76,721	MEAN 210	MAX 2,310	MIN 27	CFSM 1.03	IN 13.99						
WTR YR 1972	TOTAL 95,395	MEAN 261	MAX 3,170	MIN 27	CFSM 1.28	IN 17.40						

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-23	0400	5.31	1,860	6-24	1500	6.89	3,840

STREAMS TRIBUTARY TO LAKE ONTARIO

04231000 BLACK CREEK AT CHURCHVILLE, N.Y.

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, on right bank at east end of Carrol Street in Churchville, 100 ft downstream from main-line tracks of Penn Central Transportation Co., and 0.3 mile downstream from Black Creek Dam.

DRAINAGE AREA.--123 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 552.45 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--27 years, 106 cfs (11.70 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,270 cfs Mar. 23 (gage height, 5.53 ft); minimum, 9.3 cfs Oct. 17, 21, 22 (gage height, 1.44 ft).

Period of record: Maximum discharge, 4,880 cfs Mar. 31, 1960 (gage height, 9.44 ft); minimum, 0.22 cfs Aug. 19, 1970; minimum gage height, 0.93 ft Aug. 5-7, Sept. 15, 1959.

REMARKS.--Records fair. Prior to May 1952, small diversion by Penn Central Transportation Co. and slight regulation by pumping operations above station. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	52	89	32	80	478	127	168	278	16	16
2	14	15	33	108	30	120	445	139	132	310	20	15
3	19	15	32	107	34	160	403	190	109	265	26	16
4	13	14	28	106	34	370	343	241	85	260	26	16
5	13	13	23	92	30	680	286	265	68	243	23	15
6	13	13	50	68	27	540	250	215	57	188	21	13
7	12	14	120	74	24	392	213	192	49	125	27	14
8	11	13	130	64	27	520	208	186	44	137	41	16
9	12	14	110	63	25	760	198	265	44	208	48	16
10	13	15	110	104	23	860	208	375	42	168	37	14
11	13	15	120	166	21	660	255	337	39	139	27	13
12	12	15	110	226	19	470	310	217	36	112	25	13
13	12	15	80	296	31	415	384	168	34	88	23	14
14	12	15	64	270	70	438	513	150	33	68	27	15
15	11	24	98	230	110	415	503	248	37	60	41	15
16	11	28	160	140	140	428	357	363	48	67	38	14
17	10	26	180	110	150	540	400	255	48	71	29	13
18	10	22	140	72	160	740	538	248	37	57	27	12
19	11	24	91	110	130	1,000	378	206	29	48	24	14
20	10	28	97	150	130	860	366	164	25	41	21	15
21	9.8	41	117	150	70	753	576	143	25	38	19	14
22	10	41	125	154	60	980	513	127	92	33	17	12
23	13	32	74	185	76	1,130	366	112	403	28	16	12
24	22	27	95	243	82	995	324	100	517	25	17	27
25	46	28	84	272	78	629	263	88	587	25	22	61
26	42	30	86	180	78	452	217	81	413	24	26	71
27	30	42	96	86	70	363	186	74	215	24	22	45
28	24	50	120	74	64	313	162	67	125	22	21	30
29	18	48	130	58	68	321	144	62	81	21	21	25
30	16	57	120	52	-----	409	134	100	180	19	19	36
31	15	-----	74	42	-----	506	-----	232	-----	18	18	-----
TOTAL	491.8	749	2,949	4,141	1,893	17,299	9,921	5,737	3,802	3,210	785	622
MEAN	15.9	25.0	95.1	134	65.3	558	331	185	127	104	25.3	20.7
MAX	46	57	180	296	160	1,130	576	375	587	310	48	71
MIN	9.8	13	23	42	19	80	134	62	25	18	16	12
CFSM	.13	.20	.77	1.09	.53	4.54	2.69	1.50	1.03	.85	.21	.17
IN.	.15	.23	.89	1.25	.57	5.23	3.00	1.74	1.15	.97	.24	.19

CAL YR 1971 TOTAL 51,718.9 MEAN 142 MAX 2,290 MIN 9.3 CFSM 1.15 IN 15.64
WTR YR 1972 TOTAL 51,599.8 MEAN 141 MAX 1,130 MIN 9.8 CFSM 1.15 IN 15.61

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-10	0400	5.04	1,080	3-23	1830	5.53	1,270
3-19	0730	5.19	1,190				

04232000 GENESEE RIVER AT ROCHESTER, N.Y.

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, on right bank 40 ft downstream from plant 5 of Rochester Gas and Electric Corp., 100 ft upstream from Driving Park Avenue Bridge at Rochester, and 6.1 miles upstream from mouth.

DRAINAGE AREA.--2,457 sq mi.

PERIOD OF RECORD.--April 1904 to September 1918, December 1919 to current year. Published as "at Driving Park Avenue" 1919-68.

GAGE.--Water-stage recorder. Datum of gage is 246.24 ft above mean sea level (formerly published as 247 ft, Barge Canal datum). April 1904 to December 1910, nonrecording gage and December 1910 to September 1918, water-stage recorder at site 5 miles upstream at datum 506.85 ft, Barge Canal datum. December 1919 to Apr. 4, 1927, water-stage recorder in plant 5, and Apr. 4, 1927, to June 19, 1956, at present site at datum 250 ft, Barge Canal datum.

AVERAGE DISCHARGE.--65 years (1905-18, 1920-72), 2,696 cfs (14.90 inches per year).

EXTREMES.--Current year: Maximum discharge, 29,600 cfs June 25 (gage height, 15.89 ft); minimum, 169 cfs Feb. 9 (gage height, 0.84 ft, result of regulation).

Period of record: Maximum discharge, 48,300 cfs Mar. 30, 1916 (gage height, 15.3 ft, site and datum then in use); maximum at present site, 34,400 cfs Mar. 19, 1942; maximum gage height, 17.08 ft Apr. 2, 1940 (present datum); minimum discharge, less than 10 cfs, occurred during low-water periods when powerplant was shut down; minimum daily, 91 cfs Jan. 9, 29, Feb. 1, 8, 1961.

Maximum discharge known, about 54,000 cfs Mar. 18, 1865.

REMARKS.--Records good. Extensive diurnal fluctuation caused by powerplants upstream from station. New York State Erie (Barge) Canal crosses river 5.4 miles upstream from station. Water diverted by the canal from Lake Erie is discharged into river from the west, the canal again diverting a smaller amount of water from river to the east. Additional regulation is provided by Rushford Lake and Mount Morris Lake. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	828	766	1,200	2,830	2,010	1,900	9,530	3,190	3,570	13,100	3,460	1,060
2	1,000	827	1,460	3,460	1,680	3,200	9,890	3,380	3,740	10,600	2,840	956
3	965	805	1,130	3,380	1,800	6,290	9,620	4,480	3,500	11,500	2,050	998
4	907	573	1,660	2,440	1,680	6,590	9,040	4,720	2,600	10,500	1,730	956
5	754	702	1,410	1,130	1,460	4,920	8,560	4,930	2,270	8,870	1,540	920
6	906	772	2,140	1,890	1,180	4,340	8,190	5,100	2,270	11,000	1,490	810
7	850	847	2,480	2,650	1,070	5,000	7,750	4,260	2,260	11,500	1,730	635
8	759	848	1,090	3,020	1,060	8,370	7,320	4,160	1,900	11,200	1,590	707
9	608	723	1,940	2,940	1,150	8,240	6,930	7,720	1,810	10,800	1,990	671
10	614	879	1,690	2,990	1,310	6,700	6,920	8,920	1,840	10,500	2,130	635
11	646	796	2,130	3,340	1,030	5,730	5,460	5,930	1,750	10,400	1,840	640
12	629	807	1,940	3,750	1,180	4,930	5,940	5,010	1,490	10,000	1,380	619
13	683	661	2,280	3,800	1,300	4,820	6,950	5,550	1,500	9,680	1,520	730
14	590	729	2,410	4,150	1,790	4,700	8,960	5,660	1,720	9,790	1,570	479
15	641	1,090	2,760	4,170	1,850	4,190	8,380	5,340	1,560	9,840	1,630	734
16	630	892	3,170	2,530	2,030	5,160	7,470	6,850	1,730	9,840	1,470	932
17	638	957	3,490	2,310	1,830	9,020	8,860	8,960	2,550	9,660	1,280	790
18	634	1,000	3,220	2,340	1,900	12,400	9,100	9,460	2,560	9,110	1,180	890
19	649	1,060	2,910	3,160	1,570	10,900	8,210	8,730	2,320	8,750	1,200	790
20	631	883	2,750	2,930	1,360	9,360	8,100	7,760	1,880	8,390	1,140	631
21	618	972	2,660	2,910	1,480	9,110	9,070	6,830	2,200	8,540	1,280	1,050
22	632	1,020	2,490	2,520	1,210	10,600	8,370	5,550	5,720	8,620	1,180	1,060
23	654	1,040	2,450	3,170	1,280	12,400	7,790	3,820	15,700	8,410	1,200	820
24	963	901	2,150	3,210	1,390	10,700	7,090	3,590	22,500	5,840	1,280	1,240
25	651	926	1,600	3,420	1,380	8,710	6,100	3,000	24,900	4,360	1,120	1,100
26	803	1,090	1,320	2,680	1,480	7,430	5,760	2,810	24,900	4,260	1,240	1,230
27	709	1,080	1,530	2,660	1,440	6,860	6,380	2,640	23,800	4,150	1,020	739
28	890	844	2,160	2,400	1,360	7,230	5,770	2,080	21,100	4,100	1,190	810
29	803	1,080	2,190	2,320	1,420	8,060	4,830	2,230	17,700	3,780	1,230	1,330
30	828	1,120	2,390	2,310	-----	8,050	4,080	2,280	16,000	3,690	1,170	1,750
31	827	-----	2,370	2,170	-----	8,950	-----	2,500	-----	3,460	1,200	-----
TOTAL	22,940	26,690	66,570	88,980	42,680	224,560	226,420	157,440	219,340	264,240	47,870	26,712
MEAN	740	890	2,147	2,870	1,472	7,244	7,547	5,079	7,311	8,524	1,544	890
MAX	1,000	1,120	3,490	4,170	2,030	12,400	9,890	9,460	24,900	13,100	3,460	1,750
MIN	590	573	1,090	1,130	1,030	1,900	4,080	2,080	1,490	3,460	1,020	479

CAL YR 1971 TOTAL 940,269 MEAN 2,576 MAX 16,100 MIN 443
WTR YR 1972 TOTAL 1,414,442 MEAN 3,865 MAX 24,900 MIN 479

STREAMS TRIBUTARY TO LAKE ONTARIO

04232050 ALLEN CREEK NEAR ROCHESTER, N.Y.

LOCATION.--Lat 43°07'49", long 77°31'08", Monroe County, on right bank 525 ft downstream from Penn Central Transportation Co. bridge, near Rochester, about 1 mile upstream from Irondequoit Creek.

DRAINAGE AREA.--30.1 sq mi, flow from 2.1 sq mi not contributing.

PERIOD OF RECORD.--November 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 323.54 ft above mean sea level.

AVERAGE DISCHARGE.--12 years (1960-72), 29.5 cfs.

EXTREMES.--Current year: Maximum discharge, 1,280 cfs June 23 (gage height, 4.82 ft), from rating curve extended above 400 cfs; minimum, 4.3 cfs Aug. 22 (gage height, 1.99 ft).

Period of record: Maximum discharge, 5,040 cfs Mar. 30, 1960 (gage height, 6.06 ft), from rating curve extended above 1,300 cfs; minimum daily, 1.7 cfs Jan. 24, 1963; minimum gage height, 1.16 ft Feb. 19, 1962.

REMARKS.--Records fair except those for winter periods, which are poor. Discharge includes undetermined diversion from Erie (Barge) Canal upstream from station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	27	34	22	8.5	50	48	35	37	75	21	19
2	26	28	31	25	8.4	140	49	69	31	43	25	18
3	25	28	28	25	8.8	117	36	80	29	58	27	19
4	32	27	14	24	9.0	66	37	45	28	47	46	19
5	29	28	9.0	19	11	40	31	59	27	37	20	19
6	27	27	65	16	10	30	29	51	27	33	18	18
7	27	31	63	14	7.0	56	33	49	27	31	57	17
8	27	28	29	14	5.6	100	29	71	27	38	36	21
9	28	27	27	17	5.2	74	32	198	32	33	17	21
10	27	28	37	58	5.0	38	39	73	27	50	13	19
11	27	28	25	65	7.0	30	62	51	27	41	30	19
12	27	28	16	49	8.0	45	44	43	27	37	30	19
13	29	28	13	67	13	67	147	40	27	33	30	21
14	28	27	12	60	17	80	62	45	27	31	61	21
15	28	39	68	30	24	73	47	41	33	35	88	19
16	28	30	47	20	23	93	56	42	30	61	45	19
17	28	28	25	8.0	22	296	104	39	26	35	30	18
18	27	28	18	10	21	184	43	36	24	32	19	25
19	27	33	15	34	20	104	31	34	25	30	17	28
20	27	33	25	21	14	90	100	34	25	30	15	20
21	27	40	32	19	12	102	52	34	38	28	13	20
22	27	38	18	17	10	310	48	33	260	27	5.9	19
23	33	35	12	35	9.0	113	47	31	760	58	20	18
24	60	32	13	35	10	59	33	30	255	30	21	107
25	40	35	12	30	12	46	26	30	64	39	37	56
26	30	37	26	18	10	43	28	29	41	21	21	29
27	29	39	23	17	10	38	40	30	40	20	23	25
28	29	38	33	16	20	36	39	30	36	17	22	21
29	28	35	23	14	24	47	37	30	31	16	20	21
30	28	48	19	12	-----	68	36	51	264	16	19	81
31	28	-----	21	11	-----	51	-----	60	-----	16	19	-----
TOTAL	899	958	833.0	822.0	364.5	2,686	1,445	1,523	2,352	1,098	865.9	796
MEAN	29.0	31.9	26.9	26.5	12.6	86.6	48.2	49.1	78.4	35.4	27.9	26.5
MAX	60	48	68	67	24	310	147	198	760	75	88	107
MIN	16	27	9.0	8.0	5.0	30	26	29	24	16	5.9	17

CAL YR 1971 TOTAL 12,179.8 MEAN 33.4 MAX 510 MIN 7.0
WTR YR 1972 TOTAL 14,642.4 MEAN 40.0 MAX 760 MIN 5.0

PEAK DISCHARGE (BASE, 450 CFS).--June 23 (0715) 1,280 cfs (4.82 ft).

STREAMS TRIBUTARY TO LAKE ONTARIO

205

04232100 STERLING CREEK AT STERLING, N.Y.

LOCATION.--Lat 43°19'31", long 76°38'51", Cayuga County, on right bank at Sterling, 25 ft downstream from bridge on State Highway 104A, 1.8 miles southwest of Sterling Valley and 1.9 miles upstream from Sterling Valley Creek.

DRAINAGE AREA.--44.4 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 264.69 ft above mean level.

AVERAGE DISCHARGE.--15 years, 59.8 cfs (18.29 inches per year).

EXTREMES.--Current year: Maximum discharge, 683 cfs May 3 (gage height, 4.02 ft); minimum, 3.0 cfs Oct. 3 (gage height, 1.67 ft).
Period of record: Maximum discharge, 1,490 cfs Apr. 4, 1960 (gage height, 5.13 ft); minimum, 0.32 cfs Sept. 14, 1966 (gage height, 1.50 ft).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	4.4	89	81	35	53	455	52	37	173	10	11
2	4.0	4.8	68	57	32	85	588	68	43	148	14	8.8
3	3.5	5.7	55	53	32	138	446	427	37	247	15	8.4
4	3.5	6.2	48	52	37	148	404	441	32	250	14	8.4
5	3.5	6.2	37	49	32	98	292	377	27	171	14	7.5
6	4.0	5.7	53	65	32	117	225	261	24	120	16	7.5
7	6.2	7.0	131	49	32	107	166	210	21	81	29	7.0
8	5.3	7.5	124	47	32	136	146	176	18	70	45	7.5
9	4.8	7.0	111	41	31	151	129	284	29	57	41	8.8
10	4.8	7.9	113	47	30	146	124	231	26	55	29	7.9
11	5.3	14	94	59	30	124	179	189	20	51	23	7.0
12	5.3	12	73	66	30	111	222	117	16	47	20	7.5
13	4.8	12	62	87	40	129	333	102	15	42	17	7.5
14	7.5	12	55	129	90	122	377	96	14	41	15	7.9
15	6.2	13	70	131	94	113	333	98	26	41	15	7.9
16	5.7	12	90	179	83	111	307	131	89	37	13	7.5
17	4.4	8.4	74	141	83	173	299	113	49	33	13	7.5
18	4.4	7.9	71	59	70	219	216	107	34	33	15	6.6
19	4.0	7.9	60	80	65	210	158	96	27	33	14	7.0
20	3.5	9.5	57	89	64	235	171	89	26	25	12	6.6
21	3.5	23	60	78	60	207	156	81	92	22	11	6.2
22	3.5	51	57	94	50	432	166	73	314	19	9.5	6.2
23	3.0	44	62	166	56	582	222	63	348	17	9.5	5.7
24	4.0	41	51	136	54	475	171	55	395	16	12	10
25	7.9	37	63	120	50	399	136	47	325	23	7.0	12
26	6.6	35	60	94	49	325	105	37	235	27	4.8	11
27	5.7	40	66	122	48	250	85	31	156	22	56	10
28	5.7	52	89	71	43	176	71	25	117	18	131	8.8
29	5.3	56	83	62	44	171	53	21	71	15	23	8.4
30	4.8	111	76	60	-----	280	55	18	179	12	17	20
31	4.4	-----	68	51	-----	348	-----	28	-----	12	13	-----
TOTAL	149.5	661.1	2,270	2,615	1,428	6,371	6,790	4,144	2,842	1,958	677.8	254.1
MEAN	4.82	22.0	73.2	84.4	49.2	206	226	134	94.7	63.2	21.9	8.47
MAX	7.9	111	131	179	94	582	588	441	395	250	131	20
MIN	3.0	4.4	37	41	30	53	53	18	14	12	4.8	5.7
CFSM	.11	.50	1.65	1.90	1.11	4.64	5.09	3.02	2.13	1.42	.49	.19
IN.	.13	.55	1.90	2.19	1.20	5.34	5.69	3.47	2.38	1.64	.57	.21

CAL YR 1971 TOTAL 24,153.5 MEAN 66.2 MAX 731 MIN 2.1 CFSM 1.49 IN 20.24
WTR YR 1972 TOTAL 30,160.5 MEAN 82.4 MAX 588 MIN 3.0 CFSM 1.86 IN 25.27

PEAK DISCHARGE (BASE, 630 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-22	2130	3.97	653	5-03	1830	4.02	683
4-02	0200	3.98	659				

STREAMS TRIBUTARY TO LAKE ONTARIO

04232400 SENECA LAKE AT WATKINS GLEN, N.Y.

LOCATION.--Lat 42°23'00", long 76°52'05", Schuyler County, on east bank about 300 ft from lake on shorter of two boat slips at Watkins Glen.

DRAINAGE AREA.--704 sq mi.

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 438.41 ft above mean sea level (440.00 ft Barge Canal datum).

EXTREMES.--Current year: Maximum gage height, 10.47 ft June 25; minimum, 4.99 ft Mar. 1.

Period of record: Maximum gage height, 10.47 ft June 25, 1972; minimum daily, 4.48 ft Jan. 5, 1962.

REMARKS.--Area of water surface, 67.6 sq mi. Diversion from Susquehanna River basin enters lake through Keuka Lake Outlet at Dresden. For table of diversion, see station 01528700. Lake regulated by taintor gates on Seneca River at lock 4, Waterloo, for operation of Erie (Barge) Canal and power generation by New York State Electric & Gas Corp.

REVISIONS.--WRD N.Y. 1970: Drainage area.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.44	6.36	6.12	6.40	5.91	5.07	7.39	7.15	7.27	10.35	8.07	6.49
2	6.44	6.36	6.06	6.46	5.85	5.22	7.41	7.11	7.28	10.26	8.06	6.51
3	6.49	6.34	6.01	6.48	5.77	5.68	7.42	7.11	7.29	10.27	8.04	6.55
4	6.40	6.33	6.02	6.49	5.75	5.71	7.42	7.12	7.34	10.35	8.10	6.57
5	6.46	6.29	5.97	6.51	5.72	5.77	7.40	7.11	7.38	10.26	7.96	6.50
6	6.46	6.22	5.98	6.44	5.70	5.78	7.39	7.05	7.38	10.17	7.79	6.51
7	6.47	6.27	6.09	6.42	5.68	5.79	7.40	7.06	7.39	10.11	7.75	6.50
8	6.46	6.30	6.16	6.45	5.62	5.93	7.35	7.09	7.37	10.02	7.75	6.48
9	6.37	6.23	6.20	6.40	5.58	6.01	7.28	7.41	7.37	9.89	7.66	6.59
10	6.41	6.19	6.22	6.44	5.55	6.07	7.24	7.62	7.43	9.80	7.56	6.54
11	6.42	6.22	6.23	6.46	5.50	6.07	7.22	7.64	7.40	9.76	7.47	6.45
12	6.36	6.20	6.24	6.47	5.43	6.13	7.21	7.64	7.37	9.68	7.34	6.53
13	6.37	6.19	6.26	6.50	5.47	6.22	7.24	7.61	7.35	9.57	7.32	6.51
14	6.33	6.15	6.24	6.58	5.46	6.27	7.37	7.59	7.33	9.51	7.21	6.56
15	6.37	6.17	6.23	6.61	5.41	6.34	7.34	7.59	7.31	9.48	7.22	6.59
16	6.35	6.20	6.30	6.60	5.41	6.37	7.41	7.59	7.43	9.43	7.09	6.50
17	6.36	6.20	6.29	6.55	5.36	6.55	7.51	7.61	7.47	9.39	6.96	6.54
18	6.34	6.15	6.31	6.50	5.30	6.73	7.49	7.58	7.48	9.28	6.96	6.58
19	6.30	6.13	6.29	6.48	5.44	6.86	7.48	7.54	7.45	9.17	6.95	6.65
20	6.31	6.13	6.30	6.43	5.50	6.93	7.51	7.53	7.40	9.15	6.85	6.63
21	6.27	6.16	6.29	6.42	5.40	7.03	7.52	7.54	7.67	9.08	6.75	6.51
22	6.27	6.18	6.29	6.28	5.47	7.22	7.50	7.52	8.76	9.01	6.69	6.60
23	6.31	6.17	6.18	6.32	5.35	7.46	7.52	7.47	10.12	8.95	6.65	6.56
24	6.33	6.12	6.20	6.28	5.33	7.53	7.51	7.42	10.42	8.88	6.64	6.47
25	6.34	6.17	6.24	6.24	5.29	7.51	7.50	7.39	10.44	8.78	6.58	6.52
26	6.40	6.15	6.25	6.22	5.27	7.48	7.45	7.33	10.42	8.70	6.59	6.54
27	6.37	6.14	6.26	6.15	5.17	7.45	7.41	7.27	10.38	8.60	6.61	6.56
28	6.33	6.15	6.27	6.12	5.14	7.42	7.35	7.20	10.30	8.47	6.65	6.57
29	6.39	6.14	6.24	6.06	5.12	7.36	7.30	7.17	10.22	8.42	6.64	6.46
30	6.35	6.17	6.29	6.01	-----	7.37	7.23	7.18	10.31	8.26	6.59	6.58
31	6.29	-----	6.41	5.95	-----	7.39	-----	7.21	-----	8.15	6.55	-----
MEAN	6.37	6.21	6.21	6.38	5.48	6.54	7.39	7.37	8.22	9.39	7.20	6.54
MAX	6.49	6.36	6.41	6.61	5.91	7.53	7.52	7.64	10.44	10.35	8.10	6.65
MIN	6.27	6.12	5.97	5.95	5.12	5.07	7.21	7.05	7.27	8.15	6.55	6.45
CAL YR 1971	MEAN 6.43		MAX 7.46	MIN 5.17								
WTR YR 1972	MEAN 6.95		MAX 10.44	MIN 5.07								

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LOCATION.--Lat 42°24'22", long 77°13'08", Steuben County, on left bank of Keuka Inlet 300 ft from mouth at Hammondsport.

DRAINAGE AREA.--182 sq mi.

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 710.00 ft above mean sea level.

EXTREMES.--Current year: Maximum gage height, 9.35 ft June 24; minimum, 2.18 ft Dec. 25.

Period of record: Maximum gage height, 9.35 ft June 24, 1972; minimum daily, 1.40 ft Feb. 2, 3, 1961.

REMARKS.--Lake regulated by village of Penn Yan; prior to July 1962, by New York State Electric and Gas Corp. Area of water surface, 18.3 sq mi. During each year, a large part of flow from 45.5 sq mi of drainage area of Mud Creek (Susquehanna River basin) is diverted into Keuka Lake for power development. For table of diversion, see station 01528700.

REVISIONS.--WRD N.Y. 1968: Drainage area.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.40	2.97	2.72	2.53	2.41	2.56	4.41	4.76	4.89	8.77	6.01	4.19
2	3.34	2.96	2.69	2.56	2.38	2.81	4.46	4.80	4.84	8.66	5.95	4.13
3	3.31	2.97	2.66	2.58	2.36	3.26	4.47	4.86	4.81	8.62	5.90	4.08
4	3.24	2.94	2.65	2.58	2.35	3.53	4.47	4.92	4.82	8.61	5.87	4.00
5	3.23	2.94	2.59	2.59	2.34	3.45	4.45	4.97	4.83	8.49	5.74	3.95
6	3.19	2.89	2.59	2.54	2.33	3.42	4.45	4.96	4.78	8.38	5.63	3.89
7	3.19	2.90	2.64	2.51	2.30	3.42	4.46	4.99	4.75	8.26	5.57	3.80
8	3.15	2.89	2.68	2.50	2.27	3.51	4.42	5.03	4.68	8.14	5.55	3.74
9	3.11	2.87	2.68	2.44	2.26	3.58	4.37	5.39	4.66	8.02	5.48	3.71
10	3.10	2.85	2.66	2.44	2.25	3.57	4.36	5.57	4.64	7.92	5.41	3.63
11	3.02	2.86	2.66	2.44	2.25	3.55	4.35	5.57	4.57	7.84	5.32	3.56
12	3.02	2.84	2.65	2.46	2.25	3.55	4.35	5.56	4.51	7.72	5.27	3.53
13	2.98	2.86	2.61	2.48	2.32	3.57	4.42	5.53	4.52	7.62	5.21	3.49
14	2.98	2.84	2.60	2.54	2.35	3.59	4.53	5.51	4.51	7.58	5.17	3.49
15	2.98	2.84	2.60	2.53	2.35	3.59	4.54	5.49	4.51	7.51	5.18	3.46
16	2.98	2.86	2.63	2.49	2.36	3.62	4.59	5.48	4.58	7.46	5.07	3.40
17	2.98	2.84	2.62	2.45	2.36	3.77	4.74	5.49	4.59	7.37	4.99	3.33
18	2.96	2.82	2.59	2.44	2.37	3.92	4.77	5.46	4.55	7.27	4.92	3.33
19	2.95	2.81	2.56	2.44	2.45	3.98	4.78	5.43	4.53	7.18	4.87	3.34
20	2.93	2.80	2.53	2.44	2.49	4.00	4.82	5.39	4.50	7.14	4.80	3.27
21	2.92	2.80	2.51	2.45	2.47	4.04	4.85	5.36	5.29	7.10	4.72	3.20
22	2.91	2.80	2.50	2.40	2.49	4.18	4.84	5.32	7.17	7.02	4.65	3.21
23	2.93	2.79	2.44	2.46	2.48	4.38	4.84	5.28	9.08	6.92	4.60	3.17
24	2.96	2.76	2.40	2.47	2.50	4.42	4.83	5.24	9.33	6.83	4.57	3.16
25	2.97	2.78	2.40	2.47	2.51	4.43	4.82	5.20	9.28	6.72	4.52	3.19
26	3.00	2.75	2.39	2.50	2.52	4.41	4.78	5.11	9.17	6.63	4.47	3.18
27	2.98	2.74	2.39	2.48	2.51	4.40	4.75	5.03	9.03	6.53	4.44	3.21
28	2.98	2.72	2.38	2.48	2.52	4.39	4.70	4.97	8.88	6.43	4.43	3.19
29	2.99	2.73	2.36	2.46	2.53	4.37	4.72	4.91	8.74	6.32	4.38	3.13
30	2.97	2.74	2.44	2.44	-----	4.39	4.74	4.85	8.84	6.23	4.33	3.20
31	2.96	-----	2.55	2.42	-----	4.40	-----	4.85	-----	6.12	4.26	-----
MEAN	3.05	2.84	2.56	2.48	2.39	3.81	4.60	5.20	5.93	7.46	5.07	3.51
MAX	3.40	2.97	2.72	2.59	2.53	4.43	4.85	5.57	9.33	8.77	6.01	4.19
MIN	2.91	2.72	2.36	2.40	2.25	2.56	4.35	4.76	4.50	6.12	4.26	3.

STREAMS TRIBUTARY TO LAKE ONTARIO

04232482 KEUKA LAKE OUTLET AT DRESDEN, N.Y.

LOCATION.--Lat 42°40'49", long 76°57'15", Yates County, on right bank at upstream side of bridge on Milo Street in Dresden, and 0.4 mile upstream from mouth.

DRAINAGE AREA.--207 sq mi.

PERIOD OF RECORD.--April 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 446.67 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 188 cfs.

EXTREMES.--Current year: Maximum discharge, 4,000 cfs June 22 (gage height, 8.37 ft), from rating curve extended as explained below; minimum, 31 cfs Sept. 25 (gage height, 0.33 ft).

Period of record: Maximum discharge, 4,000 cfs June 22, 1972 (gage height, 8.37 ft), from rating curve extended above 2,100 cfs on basis of contracted-opening measurement at Mays Mills, adjusted for intervening area; minimum daily, 12 cfs July 16, 1967.

REMARKS.--Records fair. Flow regulated by village of Penn Yan. During each year a large part of flow from 45.5 sq mi of Mud Creek drainage area (Susquehanna River basin) is diverted into Keuka Lake (Oswego River basin) for power development. For table of diversion, see sta 01528700.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	37	117	78	177	72	485	94	365	1,400	551	391
2	251	37	151	70	175	876	495	92	350	1,300	543	379
3	242	36	151	150	180	429	465	102	342	1,300	543	363
4	175	36	146	210	180	350	456	187	342	1,400	551	355
5	131	36	146	210	180	320	447	342	338	1,300	547	344
6	121	35	158	200	170	310	438	330	334	1,200	543	333
7	117	35	172	190	170	330	438	451	323	1,200	539	325
8	106	34	182	190	160	447	429	588	320	1,100	471	318
9	106	34	172	190	160	377	429	990	320	1,000	467	304
10	100	34	193	195	110	342	433	742	312	1,000	455	298
11	98	34	198	229	56	320	433	615	305	1,000	451	291
12	94	34	185	223	52	320	424	577	248	940	447	284
13	64	34	177	210	60	330	654	577	115	900	439	284
14	36	33	172	190	78	338	571	577	115	880	451	281
15	35	44	170	180	62	350	545	571	115	920	487	278
16	35	53	220	160	54	520	604	560	117	825	471	271
17	34	53	270	250	50	637	530	566	113	780	463	268
18	34	53	270	200	49	535	465	540	111	739	455	255
19	33	53	240	195	49	440	485	555	111	708	443	249
20	33	53	230	165	47	420	604	621	111	840	431	243
21	32	51	220	160	46	470	593	604	912	730	427	173
22	32	65	210	163	52	686	577	555	2,200	672	399	52
23	35	83	210	167	43	530	560	540	2,070	703	351	36
24	110	83	200	185	48	465	535	530	1,630	640	359	32
25	72	84	200	190	47	451	535	515	1,540	627	387	39
26	38	84	220	170	46	442	530	485	1,520	627	383	47
27	38	86	200	170	46	433	510	475	1,450	609	411	50
28	38	87	190	180	45	429	346	465	1,390	595	391	48
29	38	89	180	190	48	442	95	460	1,320	587	367	46
30	37	101	130	190	-----	495	94	456	1,430	571	359	48
31	37	-----	96	180	-----	490	-----	424	-----	563	379	-----
TOTAL	2,603	1,611	5,776	5,630	2,640	13,396	14,205	15,186	20,269	27,656	13,961	6,685
MEAN	84.0	53.7	186	182	91.0	432	474	490	676	892	450	223
MAX	251	101	270	250	180	876	654	990	2,200	1,400	551	391
MIN	32	33	96	70	43	72	94	92	111	563	351	32
CAL YR 1971	TOTAL	70,589	MEAN	193	MAX	1,160	MIN	30				
WTR YR 1972	TOTAL	129,618	MEAN	354	MAX	2,200	MIN	32				

04233000 CAYUGA INLET NEAR ITHACA, N.Y.

LOCATION.--Lat 42°23'35", long 76°32'43", Tompkins County, on left bank 0.8 mile upstream from Enfield (formerly Butternut) Creek and 5 miles south of Ithaca.

DRAINAGE AREA.--35.2 sq mi.

PERIOD OF RECORD.--March 1937 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 437.16 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--35 years, 37.8 cfs (14.58 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,800 cfs June 23 (gage height, 8.10 ft), from rating curve extended as explained below; minimum, 4.6 cfs part of each day Oct. 1-3, 5, 6, 18-22; minimum gage height, 0.54 ft Dec. 5.

Period of record: Maximum discharge, 4,800 cfs June 23, 1972 (gage height, 8.10 ft), from rating curve extended above 1,600 cfs on basis of slope-area measurements at gage heights 5.5 and 7.58 ft; minimum, 1.7 cfs July 22, 1955; minimum gage height, 0.42 ft Aug. 30, 31, Sept. 1, 2, 1939, July 22, 1955.

REMARKS.--Records good except those for winter periods and those for period of doubtful gage-height record, which are poor.

REVISIONS: WRD N.Y. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	5.1	15	46	18	43	138	41	56	130	17	10
2	4.8	6.0	12	39	17	700	153	46	38	120	18	9.9
3	4.9	5.9	12	33	17	255	114	60	31	120	25	9.9
4	5.1	5.8	11	29	19	140	98	85	41	170	30	10
5	5.0	5.5	9.2	29	16	109	83	85	33	110	19	9.7
6	5.5	5.4	24	32	18	76	76	63	28	74	16	9.4
7	6.5	8.4	69	24	17	72	71	69	25	63	58	9.3
8	5.7	7.3	77	22	16	103	61	165	22	55	33	9.3
9	7.1	6.4	50	22	15	70	60	648	23	50	22	9.4
10	8.6	6.6	39	21	15	54	63	343	23	46	18	9.1
11	8.4	6.8	31	31	14	47	71	186	20	46	16	8.7
12	7.4	7.1	25	37	14	74	83	133	18	44	16	8.6
13	6.7	6.7	23	61	16	79	170	105	19	46	15	13
14	6.1	6.2	20	66	20	66	158	103	18	100	15	14
15	5.7	8.2	39	35	25	57	132	94	18	63	21	13
16	5.5	8.1	41	30	20	89	161	125	76	72	15	11
17	5.4	7.7	29	27	16	197	169	118	33	62	15	9.6
18	5.0	7.1	25	30	15	156	116	87	24	50	15	10
19	4.8	7.3	23	35	13	114	95	75	22	36	13	12
20	4.8	8.8	22	29	15	100	151	79	19	34	12	11
21	4.8	8.8	20	25	22	134	115	77	99	33	12	9.7
22	4.7	9.6	18	27	19	461	106	62	1,690	31	11	9.2
23	4.8	8.8	17	63	17	252	112	53	1,200	33	15	8.8
24	6.5	8.4	16	42	16	147	87	55	396	38	21	12
25	7.3	9.2	16	56	16	111	76	45	223	32	19	12
26	6.5	9.6	24	28	15	94	64	40	150	27	18	10
27	5.8	11	25	23	15	80	57	36	110	22	17	10
28	5.5	13	26	22	16	71	51	33	90	21	14	9.8
29	5.3	15	23	21	19	82	47	31	90	19	13	9.5
30	5.1	19	53	19	-----	114	43	30	240	17	12	13
31	5.1	-----	72	19	-----	116	-----	42	-----	16	11	-----
TOTAL	179.4	248.8	906.2	1,023	491	4,263	2,981	3,214	4,875	1,780	572	310.9
MEAN	5.79	8.29	29.2	33.0	16.9	138	99.4	104	163	57.4	18.5	10.4
MAX	8.6	19	77	66	25	700	170	648	1,690	170	58	14
MIN	4.7	5.1	9.2	19	13	43	43	30	18	16	11	8.6
CF5M	.16	.24	.83	.94	.48	3.92	2.82	2.95	4.63	1.63	.53	.30
IN.	.19	.26	.96	1.08	.52	4.51	3.15	3.40	5.15	1.88	.60	.33
CAL YR 1971	TOTAL 13,476.1	MEAN 36.9	MAX 600	MIN 3.5	CF5M 1.05	IN 14.24						
WTR YR 1972	TOTAL 20,844.3	MEAN 57.0	MAX 1,690	MIN 4.7	CF5M 1.62	IN 22.03						

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	1545	4.64	1,500	6-22	0900	6.90	3,520
3-22	1615	3.27	855	6-23	0115	8.10	4,800
5-9	0545	3.17	805				

NOTE.--Doubtful gage-height record June 26 to July 26.

STREAMS TRIBUTARY TO LAKE ONTARIO

04233500 CAYUGA LAKE AT ITHACA, N.Y.

LOCATION.--Lat 42°26'45", long 76°30'45", Tompkins County, on left bank of natural channel 40 ft upstream from flood-control channel of Cayuga Inlet, at north end of Taughannock Boulevard, and 1 mile upstream from mouth, at Ithaca.

DRAINAGE AREA.--1,564 sq mi (Cayuga Lake portion, 785 sq mi).

PERIOD OF RECORD.--August 1905 to December 1909, August 1956 to current year in reports of Geological Survey. January 1910 to September 1925 in reports of State Engineer and Surveyor.

GAGE.--Water-stage recorder. Datum of gage is 376.57 ft above mean sea level (378.00 ft Barge Canal datum). Prior to September 1925, nonrecording gage at several sites within 1 mile of present site. Prior to October 1968 at datum 2.0 ft higher.

EXTREMES.--Current year: Maximum gage height, 9.76 ft June 26; minimum, 2.12 ft Feb. 21.

Period of record (1905-25 and since 1956): Maximum gage height, 9.76 ft June 26, 1972; minimum daily, 1.07 ft (present datum) Mar. 28, 1960.

REMARKS.--Lake regulated at Mud Lock by New York State Department of Transportation. Area of water surface, 66.9 sq mi. Seneca River (Cayuga and Seneca Canal) enters lake 0.5 mile upstream from Mud Lock and is included in first drainage area given above.

REVISIONS.--WRD N.Y. 1967: Drainage area.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.03	4.90	4.40	3.84	2.87	2.42	6.08	6.14	5.72	9.50	6.14	5.53
2	5.03	4.88	4.39	3.83	2.80	2.84	6.18	6.11	5.75	9.38	6.13	5.47
3	5.05	4.86	4.37	3.80	2.70	3.59	6.24	6.17	5.72	9.37	6.12	5.46
4	4.95	4.84	4.39	3.79	2.73	3.74	6.25	6.24	5.77	9.40	6.27	5.42
5	5.02	4.77	4.29	3.80	2.66	3.95	6.24	6.34	5.91	9.27	6.14	5.28
6	5.01	4.64	4.32	3.65	2.60	4.07	6.25	6.32	5.92	9.16	6.03	5.23
7	5.06	4.73	4.59	3.61	2.57	4.09	6.27	6.40	5.97	9.08	6.01	5.16
8	4.99	4.74	4.69	3.54	2.47	4.25	6.24	6.46	5.91	8.96	6.11	5.13
9	4.90	4.64	4.71	3.33	2.39	4.30	6.14	6.89	5.93	8.82	6.06	5.22
10	5.00	4.58	4.67	3.34	2.34	4.32	6.08	7.21	6.02	8.68	6.03	5.12
11	4.98	4.61	4.72	3.33	2.31	4.28	6.06	7.23	5.94	8.60	5.92	5.02
12	4.95	4.55	4.69	3.29	2.27	4.32	6.05	7.18	5.87	8.45	5.83	5.07
13	4.91	4.54	4.71	3.27	2.32	4.38	6.08	7.09	5.87	8.29	5.82	5.01
14	4.90	4.47	4.65	3.38	2.36	4.40	6.33	7.02	5.85	8.23	5.75	5.08
15	4.95	4.45	4.58	3.36	2.32	4.46	6.31	6.99	5.87	8.17	5.79	5.07
16	4.93	4.50	4.70	3.25	2.37	4.44	6.37	6.93	6.17	8.09	5.66	5.01
17	4.94	4.45	4.67	3.09	2.35	4.65	6.55	6.89	6.27	7.99	5.57	5.01
18	4.91	4.38	4.64	3.08	2.32	4.87	6.54	6.82	6.22	7.80	5.54	5.02
19	4.89	4.36	4.46	3.12	2.49	4.98	6.55	6.75	6.15	7.66	5.58	5.10
20	4.88	4.35	4.40	3.09	2.56	5.02	6.61	6.67	6.11	7.55	5.56	5.01
21	4.85	4.38	4.38	3.12	2.34	5.08	6.63	6.61	6.35	7.40	5.53	4.86
22	4.87	4.42	4.39	2.97	2.40	5.33	6.58	6.52	7.74	7.26	5.53	4.98
23	4.90	4.36	4.13	3.08	2.29	5.80	6.63	6.41	9.35	7.11	5.58	4.88
24	4.91	4.26	4.07	3.08	2.34	5.99	6.64	6.29	9.71	6.98	5.69	4.79
25	4.92	4.33	4.04	3.11	2.36	6.03	6.63	6.17	9.73	6.77	5.70	4.89
26	4.98	4.29	3.94	3.12	2.40	6.07	6.55	6.05	9.72	6.72	5.67	4.89
27	4.94	4.22	3.88	3.05	2.34	6.05	6.50	5.95	9.63	6.50	5.61	4.93
28	4.93	4.25	3.91	3.04	2.36	6.03	6.39	5.84	9.51	6.38	5.68	4.91
29	4.99	4.23	3.85	2.99	2.40	5.98	6.32	5.69	9.38	6.35	5.67	4.76
30	4.92	4.34	3.84	2.96	-----	5.98	6.21	5.54	9.48	6.25	5.64	4.93
31	4.84	-----	3.96	2.91	-----	6.05	-----	5.65	-----	6.19	5.58	-----
MEAN	4.95	4.51	4.37	3.30	2.45	4.77	6.35	6.47	6.98	7.95	5.80	5.07
MAX	5.06	4.90	4.72	3.84	2.87	6.07	6.64	7.23	9.73	9.50	6.27	5.53
MIN	4.84	4.22	3.84	2.91	2.27	2.42	6.05	5.54	5.72	6.19	5.53	4.76

CAL YR 1971 MEAN 6.43 MAX 6.72 MIN 2.43
WTR YR 1972 MEAN 5.26 MAX 9.73 MIN 2.27

04234000 FALL CREEK NEAR ITHACA, N.Y.

LOCATION.--Lat 42°27'12", long 76°28'23", Tompkins County, on left bank in Forest Home, 0.2 mile east of Ithaca, 0.5 mile upstream from Cornell University dam, and 2.2 miles upstream from mouth.

DRAINAGE AREA.--126 sq mi.

PERIOD OF RECORD.--July 1908 to June 1909 (gage heights only), February 1925 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 794.81 ft above mean sea level (levels by Corps of Engineers). July 1908 to June 1909, nonrecording gage at bridge 1.2 miles downstream at different datum.

AVERAGE DISCHARGE.--47 years (1925-72), 181 cfs.

EXTREMES.--Current year: Maximum discharge, 4,660 cfs June 23 (gage height, 5.38 ft); maximum gage height, 8.20 ft Mar. 2 (ice jam); minimum discharge, 13 cfs Oct. 21; minimum gage height, 0.35 ft Oct. 21, July 13.

Period of record: Maximum discharge, 15,500 cfs July 8, 1935 (gage height, 9.52 ft), from average of computed flow over each of four dams; maximum gage height, 11.16 ft Feb. 21, 1971 (ice jam); minimum discharge, about 3 cfs Aug. 25, 1927, result of regulation; minimum daily, 3.6 cfs Aug. 17, 1965.

REMARKS.--Records good except those for winter periods, which are fair. Diversion from point about 1 mile above station by Cornell University for water supply and at several sites for irrigation purposes. Records of diversion from Fall Creek are in files of Cornell University.

REVISIONS (WATER YEARS).--WSP 874: 1935-38. WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	19	108	322	110	170	583	181	346	427	59	30
2	20	19	62	269	110	1,000	710	214	273	290	70	30
3	19	22	52	243	110	1,430	550	285	174	288	110	28
4	17	24	62	211	88	690	450	438	556	405	220	27
5	17	23	27	190	74	551	358	489	481	251	105	27
6	16	21	100	120	110	400	321	280	254	220	78	27
7	15	24	753	160	92	346	297	323	208	203	147	26
8	17	26	771	140	84	416	269	525	177	188	181	27
9	18	24	435	147	82	346	254	2,060	200	203	114	28
10	17	23	371	181	80	264	284	1,180	201	194	84	27
11	19	29	338	253	80	227	351	601	157	200	72	24
12	22	37	274	280	84	253	501	424	136	156	63	24
13	25	29	222	272	110	293	940	342	136	150	62	25
14	23	29	184	460	160	306	1,040	349	136	197	59	41
15	22	39	313	180	194	261	721	419	124	158	62	51
16	20	54	510	100	185	276	770	354	821	158	53	36
17	21	41	273	130	130	611	1,030	311	496	178	52	30
18	19	34	210	160	120	597	735	350	249	132	53	27
19	17	32	150	210	100	370	563	267	200	123	48	31
20	17	44	187	214	60	289	772	236	173	164	44	31
21	16	47	183	170	70	351	660	271	388	120	39	27
22	14	68	157	130	100	1,370	464	224	3,500	103	38	24
23	15	51	82	280	88	1,350	620	190	3,890	118	40	23
24	17	41	140	280	98	618	421	169	1,910	99	47	30
25	19	51	200	276	100	432	365	155	955	86	41	58
26	25	57	243	120	98	365	297	140	633	81	44	41
27	29	57	328	120	94	314	257	128	450	78	41	40
28	23	67	337	120	92	285	224	121	351	73	40	39
29	21	82	266	110	112	294	207	114	291	67	36	33
30	19	115	320	110	-----	488	188	106	592	63	31	43
31	18	-----	585	100	-----	478	-----	144	-----	57	29	-----
TOTAL	600	1,229	8,243	6,058	3,015	15,441	15,202	11,390	18,458	5,230	2,162	955
MEAN	19.4	41.0	266	195	104	498	507	367	615	169	69.7	31.8
MAX	29	115	771	460	194	1,430	1,040	2,060	3,890	427	220	58
MIN	14	19	27	100	60	170	188	106	124	57	29	23

CAL YR 1971 TOTAL 67,300 MEAN 184 MAX 1,850 MIN 12
WTR YR 1972 TOTAL 87,983 MEAN 240 MAX 3,890 MIN 14

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-2	2230	4.56	3,180	5-9	0800	3.98	2,310
3-22	2030	4.06	2,420	6-23	0530	5.38	4,660

STREAMS TRIBUTARY TO LAKE ONTARIO

04234500 CANANDAIGUA LAKE AT CANANDAIGUA, N.Y.

LOCATION.--Lat 42°52'19", long 77°16'22", Ontario County, at south end of city pier at northern end of Canandaigua Lake, 1 mile southeast of Canandaigua.

DRAINAGE AREA.--184 sq. mi.

PERIOD OF RECORD.--November 1939 to current year. December 1927 to November 1939, records for site on west side of E. T. Waldorf's boathouse collected by, and in files of, city of Canandaigua.

GAGE.--Water-stage recorder. Datum of gage is 681.17 ft above mean sea level. Prior to June 26, 1946, nonrecording gage at E.T. Waldorf's boathouse at same datum.

EXTREMES.--Current year: Maximum gage height, 10.94 ft June 24; minimum, 5.43 ft Dec. 4, 7.
Period of record: Maximum gage height, 10.94 ft June 24, 1972; minimum daily, 4.45 ft Jan. 30, 1942.

REMARKS.--Lake elevation regulated by gates on east and west outlets by city of Canandaigua. West outlet, which usually carries most of lake outflow, is an artificial canal 1.5 miles long which discharges into Canandaigua Outlet; control is gate structure with one lift gate manually operated, with vertical readings to set gate opening. Gate is 10 ft wide, with maximum lift of 6 ft; elevation of sill, 3.2 ft, gage datum. East outlet is at head of natural outlet channel from lake; flow regulated above about 3.8 ft, gage datum, by two gates at highway bridge 0.5 mile downstream. Each gate is 18.67 ft wide, with maximum lift of 3.75 ft; elevation of sill, 3.77 ft, gage datum. Water diverted for municipal supply by villages of Newark and Palmyra. Records of diversion in files of city of Canandaigua. Area of water surface, 16.6 sq mi.

REVISIONS.--WRD N.Y. 1967: Drainage area. WRD N.Y. 1971.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.10	5.78	5.53	6.22	6.68	6.83	7.87	7.63	7.68	10.32	7.34	6.68
2	6.10	5.80	5.52	6.22	6.68	7.00	7.87	7.61	7.64	10.21	7.31	6.66
3	6.08	5.77	5.52	6.24	6.68	7.36	7.85	7.61	7.59	10.11	7.34	6.63
4	6.11	5.77	5.49	6.25	6.73	7.51	7.82	7.63	7.53	10.07	7.28	6.61
5	6.07	5.74	5.52	6.28	6.72	7.60	7.79	7.66	7.46	9.97	7.26	6.59
6	6.07	5.76	5.57	6.31	6.70	7.65	7.74	7.68	7.42	9.86	7.21	6.57
7	6.02	5.69	5.55	6.32	6.71	7.69	7.71	7.66	7.35	9.75	7.19	6.56
8	6.01	5.65	5.59	6.31	6.70	7.82	7.66	7.69	7.37	9.61	7.12	6.54
9	6.03	5.64	5.62	6.39	6.68	7.90	7.61	7.90	7.36	9.49	7.08	6.49
10	5.99	5.63	5.69	6.32	6.66	7.92	7.58	8.07	7.31	9.40	6.99	6.49
11	6.01	5.60	5.70	6.36	6.65	7.91	7.56	8.11	7.33	9.26	6.94	6.49
12	5.96	5.59	5.71	6.44	6.65	7.88	7.54	8.10	7.34	9.15	6.89	6.46
13	5.97	5.56	5.71	6.46	6.67	7.87	7.64	8.09	7.32	9.05	6.83	6.47
14	5.94	5.56	5.70	6.50	6.75	7.86	7.79	8.08	7.35	8.94	6.80	6.51
15	5.92	5.58	5.80	6.51	6.75	7.83	7.78	8.06	7.39	8.88	6.79	6.54
16	5.90	5.56	5.81	6.51	6.74	7.81	7.81	8.08	7.46	8.76	6.81	6.53
17	5.90	5.57	5.82	6.52	6.74	7.87	7.88	8.18	7.47	8.66	6.80	6.54
18	5.90	5.57	5.82	6.52	6.74	7.97	7.88	8.17	7.48	8.57	6.78	6.49
19	5.88	5.58	5.84	6.53	6.76	7.97	7.90	8.14	7.48	8.52	6.77	6.46
20	5.88	5.58	5.85	6.54	6.85	7.95	7.92	8.13	7.52	8.38	6.76	6.47
21	5.84	5.55	5.85	6.56	6.84	7.95	7.94	8.14	7.86	8.28	6.77	6.48
22	5.83	5.53	5.83	6.66	6.83	8.04	7.95	8.12	8.78	8.18	6.76	6.43
23	5.81	5.53	5.89	6.59	6.83	8.16	7.95	8.09	10.42	8.10	6.76	6.42
24	5.83	5.53	5.87	6.65	6.81	8.17	7.93	8.05	10.90	8.00	6.75	6.45
25	5.86	5.52	5.84	6.70	6.81	8.14	7.90	7.97	10.88	7.92	6.74	6.45
26	5.85	5.52	5.88	6.68	6.83	8.10	7.86	7.92	10.75	7.82	6.74	6.45
27	5.87	5.54	5.91	6.69	6.83	8.04	7.82	7.86	10.61	7.72	6.77	6.43
28	5.85	5.50	5.93	6.70	6.82	7.98	7.77	7.79	10.45	7.63	6.75	6.43
29	5.82	5.51	5.95	6.69	6.82	7.94	7.72	7.74	10.32	7.55	6.71	6.48
30	5.81	5.53	6.01	6.69	-----	7.92	7.67	7.70	10.35	7.48	6.70	6.45
31	5.83	-----	6.11	6.69	-----	7.89	-----	7.68	-----	7.41	6.69	-----
MEAN	5.94	5.61	5.76	6.49	6.75	7.82	7.79	7.91	8.34	8.81	6.92	6.51
MAX	6.11	5.80	6.11	6.70	6.85	8.17	7.95	8.18	10.90	10.32	7.34	6.68
MIN	5.81	5.50	5.49	6.22	6.65	6.83	7.54	7.61	7.31	7.41	6.69	6.42
CAL YR 1971	MEAN 6.56		MAX 8.30	MIN 5.49								
WTR YR 1972	MEAN 7.05		MAX 10.90	MIN 5.49								

STREAMS TRIBUTARY TO LAKE ONTARIO

213

04235000 CANANDAIGUA OUTLET AT CHAPIN, N.Y.

LOCATION.--Lat 42°55'00", long 77°14'00", Ontario County, on left bank at Chapin, 500 ft upstream from bridge on State Highway 88, and 3 miles downstream from Canandaigua Lake.

DRAINAGE AREA.--195 sq mi.

PERIOD OF RECORD.--November 1939 to current year. Prior to October 1964, published as Canandaigua Lake Outlet.

GAGE.--Water-stage recorder. Datum of gage is 673.6 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--32 years (1940-72), 144 cfs.

EXTREMES.--Current year: Maximum discharge, 1,710 cfs June 24 (gage height, 5.62 ft); minimum, 9.3 cfs Oct. 14, 15; minimum gage height, 1.51 ft Jan. 5, 6.

Period of record: Maximum discharge, 1,710 cfs June 24, 1972 (gage height, 5.62 ft); minimum, 4.6 cfs Sept. 17, 1948; minimum gage height, 1.12 ft Mar. 12, 1965, Feb. 23, 1967.

REMARKS.--Records fair. Flow regulated by Canandaigua Lake (see station 04234500), from which water is diverted for municipal supply by villages of Newark, Palmyra, and Gorham. Monthly runoff adjusted for change in contents in Canandaigua Lake from October 1945 to September 1966.

REVISIONS (WATER YEARS): WRD N.Y. 1967: 1966; drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	42	38	56	84	210	580	484	560	1,320	379	46
2	21	44	29	38	82	210	580	450	540	1,250	379	44
3	19	41	39	30	80	200	580	446	520	1,270	376	49
4	19	42	44	26	81	200	560	383	500	1,260	356	53
5	17	41	44	22	82	190	560	376	500	1,220	350	56
6	17	42	63	23	80	190	560	343	444	1,180	341	58
7	16	42	72	30	72	200	560	343	263	1,140	341	56
8	14	39	44	41	74	280	560	364	109	1,110	335	46
9	14	39	39	39	74	360	560	508	74	1,070	326	49
10	13	38	46	62	76	450	540	483	65	1,040	317	48
11	13	36	49	104	78	446	540	471	65	1,000	332	48
12	13	36	36	82	76	496	540	464	65	953	326	46
13	12	35	33	81	76	586	560	459	61	917	320	46
14	10	34	30	76	86	592	560	463	46	895	323	46
15	9.3	39	57	54	96	617	560	460	53	881	299	44
16	12	35	56	92	105	685	540	462	70	832	155	41
17	12	35	37	140	96	652	540	542	60	796	107	41
18	11	34	33	78	93	620	540	568	58	760	70	41
19	24	35	32	56	88	600	560	561	58	733	54	42
20	61	35	34	52	80	620	560	541	36	706	49	41
21	60	38	39	53	90	620	560	500	284	679	48	41
22	54	38	36	62	96	660	570	500	1,010	645	48	35
23	54	34	33	74	110	660	581	490	1,440	629	48	41
24	56	35	33	74	100	660	565	490	1,680	597	56	46
25	56	34	33	86	110	640	551	480	1,630	577	61	46
26	51	35	38	94	100	640	542	470	1,550	549	61	42
27	49	38	40	96	130	620	532	480	1,420	521	61	41
28	49	38	45	76	150	620	523	490	1,260	502	61	41
29	49	38	41	98	180	600	513	520	1,160	488	58	41
30	44	56	43	100	-----	600	505	540	1,400	470	56	48
31	44	-----	71	94	-----	600	-----	560	-----	432	46	-----
TOTAL	914.3	1,148	1,307	2,089	2,725	15,324	16,582	14,691	16,981	26,422	6,139	1,363
MEAN	29.5	38.3	42.2	67.4	94.0	494	553	474	566	852	198	45.4
MAX	61	56	72	140	180	685	581	568	1,680	1,320	379	58
MIN	9.3	34	29	22	72	190	505	343	36	432	46	35

CAL YR 1971 TOTAL 65,223.3 MEAN 179 MAX 769 MIN 9.3
WTR YR 1972 TOTAL 105,685.3 MEAN 289 MAX 1,680 MIN 9.3

NOTE.--No gage-height record Mar. 18 to Apr. 21.

STREAMS TRIBUTARY TO LAKE ONTARIO

04235150 FLINT CREEK AT POTTER, N.Y.

LOCATION.--Lat 42°42'09", long 77°12'25", Yates County, on left bank 30 ft downstream from bridge on State Highway 364 at Potter, 0.1 mile downstream from unnamed tributary, and 0.5 mile upstream from Nettle Valley Creek.

DRAINAGE AREA.--31.0 sq mi.

PERIOD OF RECORD.--March 1964 to September 1968, October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 883.93 ft above mean sea level.

AVERAGE DISCHARGE.--6 years (1965-68, 1971-72), 28.4 cfs (12.44 inches per year).

EXTREMES.--Maximum discharge during year, 5,040 cfs June 23 (gage height, 10.15 ft, from floodmarks), from rating curve extended above 700 cfs; minimum, 1.5 cfs Oct. 3-4 (gage height, 1.84 ft).

Period of record: Maximum discharge, 5,040 cfs June 23, 1972 (gage height, 10.15 ft, from floodmarks), from rating curve extended above 700 cfs; minimum daily, 0.02 cfs Sept. 23-27, 1964; minimum gage height, 1.58 ft Sept. 2, 1966.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.5	9.2	64	14	17	77	34	34	156	9.4	3.0
2	1.8	2.8	6.7	41	12	82	96	36	28	89	11	3.0
3	1.6	2.8	5.9	34	12	406	88	48	22	74	16	3.4
4	1.5	2.8	5.9	29	11	200	73	79	20	90	18	2.8
5	1.8	2.8	6.2	25	9.6	150	66	94	18	64	12	2.8
6	1.9	2.8	5.7	16	8.0	110	56	82	15	50	9.4	2.6
7	2.2	2.8	18	17	7.6	86	48	67	14	45	9.4	3.0
8	2.9	3.1	43	17	7.4	82	42	73	12	40	10	3.0
9	2.5	2.9	51	15	7.0	84	37	232	13	35	9.1	2.6
10	2.3	2.9	36	18	7.0	120	35	295	12	32	8.0	2.6
11	2.5	3.2	31	29	6.8	110	50	149	11	29	7.0	2.5
12	2.5	3.6	23	37	7.0	98	66	98	9.9	27	6.4	4.0
13	2.2	3.2	19	39	8.0	86	70	75	9.5	24	6.4	10
14	2.0	3.2	15	61	8.8	78	110	65	11	31	7.0	6.4
15	1.9	4.0	14	74	9.6	70	120	62	12	43	15	4.0
16	1.9	5.0	34	41	11	66	100	79	20	41	10	3.4
17	1.9	4.2	27	25	16	112	96	99	13	40	9.4	3.6
18	1.9	3.8	17	24	11	136	110	82	9.5	31	8.7	7.0
19	1.8	3.6	13	31	14	119	80	66	8.6	26	7.7	5.4
20	1.8	3.8	14	33	13	86	78	68	7.6	23	6.4	4.5
21	1.8	4.2	15	28	12	91	76	78	89	29	5.8	4.3
22	1.8	4.0	13	25	11	152	74	65	2,020	25	4.8	4.3
23	1.8	3.8	8.2	28	10	309	78	53	2,890	20	4.5	5.8
24	2.8	3.4	10	30	10	165	72	45	1,050	16	4.5	6.1
25	6.2	3.8	8.4	42	9.6	111	67	39	550	18	4.3	5.1
26	5.0	3.8	12	35	9.4	80	58	34	207	19	4.0	4.8
27	4.2	4.5	25	24	9.6	67	50	30	108	15	6.4	5.1
28	3.6	5.4	24	28	10	58	45	26	64	13	5.8	4.3
29	3.1	6.2	20	22	12	54	40	23	55	12	4.5	10
30	2.9	9.2	21	17	-----	63	36	21	100	10	3.8	7.4
31	2.8	-----	52	15	-----	69	-----	26	-----	9.8	3.2	-----
TOTAL	76.9	114.1	603.2	964	294.4	3,517	2,094	2,323	7,433.1	1,176.8	247.9	136.8
MEAN	2.48	3.80	19.5	31.1	10.2	113	69.8	74.9	248	38.0	8.00	4.56
MAX	6.2	9.2	52	74	16	406	120	295	2,890	156	18	10
MIN	1.5	2.5	5.7	15	6.8	17	35	21	7.6	9.8	3.2	2.5
CFSM	.08	.12	.63	1.00	.33	3.65	2.25	2.42	8.00	1.23	.26	.15
IN.	.09	.14	.72	1.16	.35	4.22	2.51	2.79	8.92	1.41	.30	.16

CAL YR 1971 TOTAL 9,979.61 MEAN 27.3 MAX 617 MIN .40 CFSM .88 IN 11.98
WTR YR 1972 TOTAL 18,981.20 MEAN 51.9 MAX 2,890 MIN 1.5 CFSM 1.67 IN 22.78

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-4	0115	6.91	827	5-9	2045	6.01	388
3-23	1200	5.95	372	6-23	0600	10.15	5,040

04235250 FLINT CREEK AT PHELPS, N.Y.

LOCATION.--Lat 42°57'28", long 77°04'06", Ontario County, on right bank 25 ft downstream from bridge on Eagle Street at Phelps, and 1.1 mile upstream from Canandaigua Outlet.

DRAINAGE AREA.--102 sq mi.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 523.14 ft above mean sea level.

AVERAGE DISCHARGE.--13 years, 80.5 cfs (10.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,820 cfs June 24 (gage height, 5.75 ft); minimum, 2.5 cfs Oct. 20 (gage height, 1.32 ft).
Period of record: Maximum discharge, 2,940 cfs Mar. 30, 1960 (gage height, 5.83 ft); maximum gage height, 6.20 ft Mar. 17, 1963 (ice jam); no flow for many days 1962-65, 1969.

REMARKS.--Records poor. Small diversion during periods of low ground-water level by Phelps Cement Products, Inc., located about a quarter of a mile upstream. Inversion from Canandaigua Lake since 1967 for municipal supply of village of Gorham; presently not exceeding 0.3 cfs.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	8.5	67	260	37	60	350	77	104	610	36	11
2	5.2	9.5	47	220	32	400	370	93	89	452	42	10
3	5.1	10	44	150	31	900	310	148	64	447	54	10
4	5.4	11	31	120	27	500	260	240	56	512	60	10
5	5.5	11	27	78	23	350	220	266	49	346	45	9.7
6	4.7	11	99	54	22	310	190	240	42	256	36	9.6
7	4.6	9.8	266	60	21	270	160	202	35	255	35	9.0
8	4.5	10	170	62	20	250	140	208	31	212	38	9.1
9	5.2	7.3	140	52	19	270	130	647	30	182	36	9.2
10	5.8	7.6	140	84	18	380	170	566	29	162	34	8.3
11	5.4	9.0	120	150	18	320	235	458	27	145	30	8.2
12	4.9	9.1	110	180	21	280	249	411	25	115	26	8.0
13	4.5	8.9	87	200	23	260	435	329	23	92	24	9.2
14	4.3	8.8	66	300	25	240	478	246	23	127	60	17
15	3.9	11	123	150	30	230	405	205	28	170	101	30
16	3.8	14	210	90	35	250	396	222	73	130	66	21
17	3.6	13	149	70	70	470	466	266	54	120	47	15
18	3.3	11	96	84	36	600	367	227	38	94	39	12
19	3.2	11	62	100	45	460	312	178	30	72	32	11
20	2.9	11	66	98	43	400	309	143	25	64	26	10
21	3.1	14	68	84	40	420	293	186	426	80	21	14
22	3.1	21	62	86	38	820	268	169	1,750	68	19	11
23	3.3	18	32	100	36	700	282	127	2,450	60	17	10
24	5.8	19	41	110	34	520	234	98	2,670	52	16	14
25	12	18	33	180	32	420	194	81	2,290	58	15	17
26	12	18	58	100	31	370	158	67	1,680	60	14	16
27	15	25	76	80	32	282	128	58	1,000	56	14	15
28	12	39	130	90	33	221	108	52	620	52	15	13
29	10	47	120	60	40	235	94	46	400	48	15	12
30	8.9	84	110	50	-----	300	83	44	900	40	13	27
31	8.6	-----	210	40	-----	320	-----	57	-----	38	12	-----
TOTAL	185.2	505.5	3,060	3,542	912	11,808	7,794	6,357	15,061	5,175	1,038	386.3
MEAN	5.97	16.9	98.7	114	31.4	381	260	205	502	167	33.5	12.9
MAX	15	84	266	300	70	900	478	647	2,670	610	101	30
MIN	2.9	7.3	27	40	18	60	83	44	23	38	12	8.0
CFSM	.06	.17	.97	1.12	.31	3.74	2.55	2.01	4.92	1.64	.33	.13
IN.	.07	.18	1.12	1.29	.33	4.31	2.84	2.32	5.49	1.89	.38	.14
CAL YR 1971	TOTAL 34,670.6	MEAN 95.0	MAX 1,400	MIN 1.6	CFSM .93	IN 12.64						
WTR YR 1972	TOTAL 55,824.0	MEAN 153	MAX 2,670	MIN 2.9	CFSM 1.50	IN 20.36						

PEAK DISCHARGE (BASE, 800 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-3	0230	5.27	f 1,600	6-24	1500	5.75	2,820
3-22	1830	4.60	f 1,200	6-30	0630	4.70	1,380

f About

STREAMS TRIBUTARY TO LAKE ONTARIO

04235396 OWASCO LAKE NEAR AUBURN, N.Y.

LOCATION.--Lat 42°53'56", long 76°32'17", Cayuga County, on west side of breakwater at city of Auburn water intake and pumping station, 1 mile south of city limits of Auburn, and 1.8 miles upstream from State dam.

DRAINAGE AREA.--205 sq mi.

PERIOD OF RECORD.--October 1967 to current year. Gage-height records since 1912 collected by, and in files of, city of Auburn.

GAGE.--Distance from reference mark to water surface measured once daily by employees of city of Auburn Water Division. Reference mark at elevation 715.48 ft above mean sea level.

EXTREMES.--Current year: Maximum observed gage height, 12.50 ft June 25; minimum observed, 5.84 ft Nov. 13, 14, 17, 18.
Period of record: Maximum observed gage height, 12.50 ft June 25, 1972; minimum observed, 5.17 ft Mar. 10-14, 1969.
Maximum gage height observed since 1912, 12.53 ft Mar. 23, 1936, Apr. 9, 1940.

REMARKS.--Lake elevation regulated by gates on outlet at State dam. Area of water surface, 10.6 sq mi.

COOPERATION.--Records furnished by city of Auburn.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.87	5.93	6.09	9.05	7.71	7.00	8.40	7.80	8.30	9.75	7.61	7.78
2	6.83	5.95	6.13	8.97	7.63	7.04	8.51	7.72	8.50	9.35	7.60	7.75
3	6.78	5.95	6.11	8.94	7.55	7.85	8.57	7.70	8.56	9.35	7.68	7.70
4	6.74	5.94	6.18	8.95	7.49	8.03	8.55	7.70	8.67	9.20	7.82	7.65
5	6.72	5.91	6.20	8.95	7.36	8.13	8.50	7.80	8.97	9.11	7.79	7.60
6	6.70	5.91	6.31	8.95	7.28	8.13	8.45	7.75	9.06	8.89	7.69	7.57
7	6.69	5.90	6.52	8.94	7.20	8.13	8.39	7.75	8.97	8.75	7.60	7.55
8	6.66	5.88	6.87	8.89	7.11	8.10	8.29	7.70	8.95	8.65	7.71	7.49
9	6.68	5.86	7.12	8.89	7.04	8.10	8.16	7.93	8.90	8.62	7.70	7.48
10	6.65	5.86	7.30	8.83	7.05	8.05	8.09	8.38	8.84	8.59	7.61	7.43
11	6.65	5.86	7.47	8.83	7.10	7.98	8.00	8.48	8.78	8.62	7.55	7.38
12	6.64	5.86	7.60	8.88	7.10	7.90	8.07	8.41	8.75	8.74	7.54	7.33
13	6.62	5.84	7.72	8.93	7.13	7.82	8.15	8.34	8.67	8.75	7.50	7.32
14	6.55	5.84	7.78	9.07	7.26	7.78	8.59	8.25	8.62	8.75	7.49	7.35
15	6.49	5.86	7.90	9.13	7.31	7.73	8.71	8.21	8.60	9.04	7.56	7.54
16	6.39	5.85	8.18	9.13	7.33	7.65	8.77	8.18	10.94	8.95	7.61	7.55
17	6.31	5.84	8.30	9.10	7.37	7.70	8.90	8.25	9.20	8.82	7.67	7.51
18	6.27	5.84	8.34	9.09	7.41	7.82	8.94	8.21	10.84	8.79	7.67	7.50
19	6.20	5.86	8.38	9.08	7.44	7.84	8.86	8.13	9.45	8.83	7.65	7.48
20	6.16	5.86	8.47	8.91	7.63	7.80	8.80	8.05	9.40	8.88	7.64	7.47
21	6.08	5.85	8.50	8.85	7.68	7.75	8.83	8.03	9.45	8.80	7.64	7.47
22	6.06	5.89	8.55	8.62	7.62	7.87	8.74	7.96	11.60	8.65	7.63	7.41
23	6.01	5.92	8.57	8.52	7.55	8.47	8.74	7.87	11.74	8.51	7.63	7.40
24	5.98	5.93	8.59	8.47	7.48	8.68	8.66	7.97	12.00	8.36	7.65	7.42
25	6.02	5.93	8.55	8.38	7.39	8.67	8.53	8.02	12.10	8.36	7.65	7.45
26	6.11	5.94	8.60	8.31	7.28	8.60	8.42	8.05	11.51	8.20	7.63	7.49
27	6.12	5.99	8.68	8.20	7.18	8.50	8.30	8.07	11.13	8.13	7.62	7.51
28	6.03	5.95	8.77	8.10	7.10	8.40	8.18	8.07	10.65	7.98	7.80	7.51
29	6.00	5.96	8.88	8.00	7.02	8.30	8.02	8.10	10.00	7.87	7.80	7.54
30	5.98	6.05	8.92	7.87	-----	8.30	7.93	8.12	9.95	7.75	7.80	7.55
31	5.95	-----	9.05	7.80	-----	8.34	-----	8.17	-----	7.65	7.80	-----
MEAN	6.39	5.90	7.76	8.73	7.34	8.01	8.47	8.04	9.70	8.67	7.66	7.51
MAX	6.87	6.05	9.05	9.13	7.71	8.68	8.94	8.48	12.10	9.75	7.82	7.78
MIN	5.95	5.84	6.09	7.80	7.02	7.00	7.93	7.70	8.30	7.65	7.49	7.32

CAL YR 1971 MEAN 7.44 MAX 9.82 MIN 5.59
WTR YR 1972 MEAN 7.85 MAX 12.10 MIN 5.84

NOTE.--Add 704.38 ft to obtain elevations above mean sea level.

STREAMS TRIBUTARY TO LAKE ONTARIO

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04235500 OWASCO OUTLET NEAR AUBURN, N.Y.

LOCATION.--Lat 42°56'48", long 76°35'56", Cayuga County, on left bank 2.5 miles downstream from center of Auburn, and 4 miles downstream from State dam at outlet of Owasco Lake.

DRAINAGE AREA.--206 sq mi.

PERIOD OF RECORD.--November 1912 to current year. Prior to October 1966, published as "Owasco Lake Outlet".

GAGE.--Water-stage recorder and concrete control. Datum of gage is 533.92 ft above mean sea level.

AVERAGE DISCHARGE.--59 years (1913-72), 282 cfs.

EXTREMES.--Current year: Maximum discharge 3,250 cfs June 23 (gage height, 6.28 ft); minimum, 11 cfs Sept. 29 (gage height, 1.27 ft).
Period of record: Maximum discharge, 3,250 cfs June 23, 1972 (gage height, 6.28 ft); minimum, about 2 cfs Dec. 5, 1936; minimum gage height, 1.27 ft Sept. 29, 1972; minimum daily discharge, 5 cfs Nov. 11, 1934.

REMARKS.--Records fair. Diurnal fluctuation caused by mills in Auburn; seasonal regulation at State dam. Diversion from Owasco Lake (see station 04235396) by city of Auburn for municipal water supply; sewage returns to outlet upstream from station. Water-quality records for the current year are published in Part 2 of this report for station 04235505 below Auburn, 2.0 miles downstream.

REVISIONS (WATER YEARS).--WSP 824: 1913-14, 1916, 1920(M), 1922(M), 1928(M), 1929, 1932(M). WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	58	63	633	416	358	850	640	57	1,710	85	106
2	197	60	50	605	448	455	888	563	38	1,500	106	73
3	91	49	31	420	474	648	888	542	127	1,430	100	182
4	99	43	28	310	474	708	888	535	156	1,370	190	175
5	108	40	49	305	455	730	685	598	197	1,270	416	130
6	67	36	72	305	549	730	956	640	390	964	383	163
7	68	36	70	300	514	730	895	633	474	693	370	160
8	70	31	63	286	514	715	828	633	468	556	396	93
9	40	31	61	305	248	708	783	753	468	487	383	59
10	32	33	63	281	33	693	708	858	435	244	352	201
11	30	30	60	286	32	670	663	865	416	76	262	138
12	28	31	56	300	30	640	670	843	409	122	160	103
13	165	30	52	320	35	612	745	813	396	514	156	46
14	237	28	38	330	32	598	956	798	390	549	124	46
15	241	42	49	305	30	598	1,080	775	429	805	57	88
16	241	86	74	310	108	612	1,120	760	556	820	17	85
17	209	76	185	310	30	648	1,090	783	648	487	16	83
18	193	76	141	300	29	678	1,120	768	648	334	28	85
19	217	81	115	626	27	678	1,080	738	633	124	94	83
20	201	72	134	933	26	663	1,070	715	619	212	96	76
21	102	84	137	843	85	663	1,050	693	1,230	481	98	78
22	79	79	155	805	328	790	1,030	663	2,080	723	80	73
23	79	74	205	738	422	918	1,000	278	3,020	663	66	78
24	89	74	205	723	435	956	940	38	3,200	262	66	103
25	81	70	197	678	448	940	903	29	3,030	244	68	95
26	58	70	213	633	429	903	850	90	2,760	455	66	73
27	39	70	217	584	409	873	805	119	2,490	535	73	14
28	65	67	237	542	370	843	768	122	2,260	481	100	13
29	63	68	241	507	358	813	723	122	2,060	442	119	44
30	60	74	350	481	-----	828	678	130	1,900	403	116	108
31	60	-----	534	461	-----	835	-----	124	-----	253	124	-----
TOTAL	3,379	1,699	4,145	14,765	7,788	22,234	26,710	16,661	31,984	19,209	4,767	2,854
MEAN	109	56.6	134	476	269	717	890	537	1,066	620	154	95.1
MAX	241	86	534	933	549	956	1,120	865	3,200	1,710	416	201
MIN	28	28	28	281	26	358	663	29	38	76	16	13
CAL YR 1971	TOTAL	99,509	MEAN	273	MAX	1,390	MIN	28				
WTR YR 1972	TOTAL	156,195	MEAN	427	MAX	3,200	MIN	13				

STREAMS TRIBUTARY TO LAKE ONTARIO

04236000 SKANEATELES LAKE AT SKANEATELES, N.Y.

LOCATION.--Lat 42°56'42", long 76°25'46", Onondaga County, on east side of breakwater, enclosed in city of Syracuse boat house, at Skaneateles.

DRAINAGE AREA.--72.7 sq mi.

PERIOD OF RECORD.--October 1967 to current year. Gage-height records since September 1890 collected by, and in files of, city of Syracuse.

GAGE.--Nonrecording gages read once daily by employees of Syracuse Water Division. Datum of gage is 800.00 ft above mean sea level (levels by Syracuse Department of Engineering).

EXTREMES.--Current year: Maximum observed gage height, 65.20 ft June 25, 26; minimum observed, 59.83 ft Dec. 5.

Period of record (since 1890): Maximum observed gage height, 65.20 ft June 25, 26, 1972; minimum observed, 57.15 ft Nov. 15, 1965.

REMARKS.--Lake elevation regulated by gates at outlet by Syracuse Water Division. Area of water surface, 13.6 sq mi.

COOPERATION.--Records furnished by city of Syracuse.

GAGE HEIGHT, IN FEET, AT 0800, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61.06	60.39	59.90	60.34	60.43	60.38	61.84	63.01	63.18	65.15	63.19	61.86
2	61.05	60.40	59.90	60.36	60.41	60.40	61.92	63.01	63.21	65.05	63.11	61.82
3	61.02	60.36	59.88	60.39	60.42	60.80	61.98	63.05	63.25	65.00	63.14	61.77
4	61.01	60.33	59.85	60.40	60.46	60.85	62.01	63.02	63.38	64.96	63.07	61.72
5	60.97	60.31	59.83	60.40	60.45	60.91	62.06	63.07	63.39	64.97	63.03	61.68
6	60.96	60.30	59.85	60.40	60.44	60.93	62.08	63.04	63.38	64.92	62.95	61.67
7	60.93	60.25	59.90	60.40	60.41	60.94	62.10	63.12	63.36	64.88	62.88	61.62
8	60.92	60.21	59.95	60.35	60.41	60.98	62.11	63.07	63.32	64.84	62.86	61.60
9	60.91	60.19	59.97	60.45	60.40	61.00	62.12	63.22	63.34	64.70	62.82	61.57
10	60.87	60.16	60.00	60.34	60.38	61.01	62.12	63.29	63.31	64.75	62.68	61.54
11	60.85	60.14	60.01	60.38	60.36	61.02	62.13	63.30	63.26	64.68	62.59	61.52
12	60.84	60.12	60.05	60.39	60.35	61.03	62.18	63.29	63.23	64.62	62.52	61.48
13	60.80	60.11	60.05	60.40	60.31	61.03	62.22	63.28	63.20	64.54	62.44	61.44
14	60.76	60.08	60.05	60.44	60.36	61.04	62.41	63.27	63.16	64.52	62.37	61.46
15	60.74	60.09	60.07	60.46	60.35	61.08	62.43	63.26	63.13	64.52	62.38	61.57
16	60.70	60.05	60.13	60.47	60.35	61.08	62.60	63.27	63.60	64.55	62.32	61.55
17	60.67	60.04	60.15	60.50	60.34	61.10	62.75	63.29	63.67	64.48	62.23	61.54
18	60.66	60.02	60.15	60.46	60.33	61.19	62.85	63.28	63.66	64.40	62.17	61.50
19	60.63	60.00	60.16	60.46	60.32	61.20	62.89	63.25	63.66	64.32	62.08	61.49
20	60.61	60.00	60.18	60.44	60.34	61.20	62.95	63.23	63.67	64.24	62.07	61.48
21	60.58	59.99	60.16	60.43	60.45	61.22	63.05	63.28	63.67	64.16	62.06	61.45
22	60.55	59.98	60.11	60.45	60.47	61.25	63.09	63.22	64.22	64.08	62.02	61.44
23	60.52	59.97	60.13	60.46	60.41	61.50	63.14	63.18	64.63	64.00	62.02	61.38
24	60.51	59.96	60.16	60.49	60.40	61.58	63.14	63.14	65.17	63.92	61.98	61.36
25	60.52	59.95	60.17	60.50	60.40	61.63	63.12	63.09	65.20	63.85	61.96	61.42
26	60.50	59.93	60.18	60.50	60.38	61.65	63.11	63.09	65.20	63.76	61.93	61.44
27	60.50	59.92	60.17	60.49	60.39	61.67	63.08	63.08	65.17	63.64	61.91	61.42
28	60.50	59.90	60.18	60.49	60.39	61.68	63.06	63.05	65.15	63.54	61.96	61.40
29	60.45	59.89	60.21	60.48	60.37	61.69	63.03	63.04	65.09	63.46	61.92	61.38
30	60.43	59.90	60.22	60.49	-----	61.72	63.03	63.06	65.13	63.39	61.90	61.44
31	60.42	-----	60.32	60.46	-----	61.79	-----	63.10	-----	63.29	61.88	-----
MEAN	60.72	60.10	60.07	60.43	60.39	61.18	62.55	63.16	63.87	64.36	62.40	61.53
MAX	61.06	60.40	60.32	60.50	60.47	61.79	63.14	63.30	65.20	65.15	63.19	61.86
MIN	60.42	59.89	59.83	60.34	60.31	60.38	61.84	63.01	63.13	63.29	61.88	61.36

CAL YR 1971 MEAN 61.47 MAX 63.04 MIN 59.83
WTR YR 1972 MEAN 61.73 MAX 65.20 MIN 59.83

NOTE.--Add 800 ft to obtain elevations above mean sea level.

04237500 SENECA RIVER AT BALDWINVILLE, N.Y.

LOCATION (revised).--Lat 43°09'26", long 76°19'56", Onondaga County, on left bank 200 ft downstream from bridge on State Highways 31 and 48 in Baldwinsville, and 400 ft downstream from navigation dam at lock 24 of New York State Erie (Barge) Canal system.

DRAINAGE AREA.--3,136 sq mi.

PERIOD OF RECORD.--November 1949 to current year in reports of Geological Survey. November 1898 to December 1908 prior to construction of Erie (Barge) Canal, not equivalent to later records at same site because of extensive development of Erie (Barge) Canal system. January 1909 to September 1925 (gage heights only) in reports of State Engineer and surveyor.

GAGE.--Water-stage recorder. Datum of gage is 362.60 ft above mean sea level, Barge Canal datum. Prior to Dec. 31, 1908, non-recording gage at same site at different datum. Auxiliary water-stage recorder 1,500 ft downstream from base gage at same datum.

AVERAGE DISCHARGE.--22 years (1950-72), 3,249 cfs.

EXTREMES.--Current year: Maximum daily discharge, 17,200 cfs June 28; maximum gage height, 9.21 ft June 30; minimum daily discharge, 609 cfs Oct. 13; minimum gage height, 1.13 ft Aug. 21.

Period of record: Maximum daily discharge, 17,200 cfs Apr. 4, 1960, June 28, 1972; maximum gage height, 9.21 ft Apr. 4, 1960, June 30, 1972; minimum daily discharge, 237 cfs Nov. 10, 1957; minimum gage height, 0.81 ft Aug. 10, 1952, Oct. 2, 1969.

REMARKS.--Records fair. Discharge from 1898 to 1908 determined on basis of head on dam, flow through ten mills nearby, lockages at Oswego Canal lock, estimated leakage of dam, wheel gates, flumes, and penstocks; not adjusted for inflow from Lake Erie through Erie (Barge) Canal. Discharge since November 1949, computed by using fall as determined by auxiliary water-stage recorder, represents total discharge at Baldwinsville and includes flow in Erie (Barge) Canal.

A large amount of natural storage and some artificial regulation is afforded by many large lakes and the Erie (Barge) Canal system in river basin. Large diurnal fluctuations at low and medium flows caused by powerplants above station. Seneca River basin receives water from Erie (Barge) Canal through lock 32 near Pittsford. During part of year, entire flow from 45.5 sq mi of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin (see station 01528700). Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records of lockages at lock 24 furnished by New York Department of Transportation (since November 1949).

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	940	1,440	2,640	5,040	4,600	2,590	9,780	7,160	4,180	17,000	6,150	2,430
2	967	1,620	2,610	5,140	4,330	2,540	9,970	6,620	3,570	17,000	5,900	2,380
3	1,010	1,250	2,510	5,110	4,150	3,940	10,000	6,930	3,360	16,500	6,220	2,380
4	1,030	1,100	2,210	4,950	4,060	4,870	9,930	7,190	3,320	16,600	6,410	2,390
5	1,020	1,100	1,960	4,800	3,960	5,410	9,630	8,120	3,270	16,800	6,440	2,360
6	1,080	1,540	1,870	4,570	3,810	5,610	9,240	7,720	3,220	16,100	6,280	2,250
7	1,070	1,680	2,520	4,480	3,710	5,740	8,940	7,410	3,350	14,800	6,170	2,090
8	1,030	1,230	3,860	4,340	3,160	5,790	5,180	7,030	3,040	14,200	6,080	1,900
9	978	1,130	4,660	3,560	3,470	5,670	8,320	7,070	2,660	13,900	6,050	1,270
10	982	1,250	4,730	4,290	2,910	5,620	8,130	8,870	2,570	13,600	6,040	1,380
11	996	1,450	4,650	4,590	2,860	5,500	8,200	9,750	2,520	13,800	5,920	1,340
12	921	1,320	4,040	4,740	2,650	5,380	8,300	9,970	2,470	13,400	5,770	1,340
13	609	1,270	3,870	5,120	2,430	5,190	7,350	9,910	2,140	12,700	5,740	1,450
14	919	1,270	4,010	5,590	2,290	5,150	9,050	9,660	2,040	12,200	5,580	1,780
15	1,370	1,620	4,090	5,690	2,400	5,110	9,410	9,460	2,150	12,000	5,370	1,740
16	1,120	1,730	4,740	3,820	2,740	4,990	9,510	9,360	2,340	11,900	5,280	987
17	981	1,360	5,020	4,510	3,010	5,250	9,570	9,330	2,560	11,800	5,180	1,410
18	981	1,550	5,080	4,740	3,140	6,160	9,390	9,340	2,860	11,500	5,070	1,460
19	977	1,620	4,900	4,960	3,120	6,800	9,310	9,310	3,540	11,100	4,460	1,100
20	946	1,570	4,750	5,260	2,920	7,110	9,210	9,090	4,040	10,700	3,230	1,020
21	1,020	1,300	4,620	5,180	2,680	7,160	8,980	8,810	5,060	10,300	2,020	1,040
22	1,010	1,830	4,550	5,300	2,630	7,740	8,970	8,560	7,220	9,910	2,370	1,140
23	930	2,000	4,660	5,410	2,760	8,370	9,180	8,350	10,400	9,700	2,360	1,260
24	891	1,930	4,650	5,560	2,800	10,200	9,130	7,980	12,800	9,620	2,310	1,350
25	988	1,870	4,440	5,980	2,860	10,700	8,890	7,530	14,800	9,530	2,280	1,540
26	1,070	1,800	4,340	5,150	2,910	10,700	8,600	6,950	16,200	9,350	2,320	1,720
27	1,070	1,730	3,280	4,410	2,910	10,400	9,220	6,710	16,900	8,520	2,390	1,660
28	1,060	1,840	3,790	4,340	2,910	9,900	7,910	6,510	17,200	8,630	2,420	1,610
29	973	1,970	4,470	4,570	2,720	9,460	7,000	6,300	17,000	7,820	2,480	1,560
30	997	2,390	4,880	4,510	-----	9,400	7,410	6,050	16,900	7,290	2,470	1,240
31	1,120	-----	5,040	4,770	-----	9,560	-----	4,730	-----	6,750	2,440	-----
TOTAL	31,056	46,760	123,440	150,480	90,900	208,010	263,710	247,780	193,680	375,020	139,200	48,577
MEAN	1,002	1,559	3,982	4,854	3,134	6,710	8,790	7,993	6,456	12,100	4,490	1,619
MAX	1,370	2,390	5,080	5,980	4,600	10,700	10,000	9,970	17,200	17,000	6,440	2,430
MIN	609	1,100	1,870	3,560	2,290	2,540	5,180	4,730	2,040	6,750	2,020	987
CAL YR 1971	TOTAL	1,365,036	MEAN	3,740	MAX	14,600	MIN	84				
WTR YR 1972	TOTAL	1,918,613	MEAN	5,242	MAX	17,200	MIN	609				

STREAMS TRIBUTARY TO LAKE ONTARIO

04238500 ONONDAGA RESERVOIR NEAR NEDROW, N.Y.

LOCATION.--Lat 42°55'51", long 76°10'24", Onondaga County, at Onondaga Dam on Onondaga Creek, 3.5 miles southwest of Nedrow, 4 miles south of Syracuse, and 12.6 miles upstream from Onondaga Lake.

DRAINAGE AREA.--67.7 sq mi.

PERIOD OF RECORD.--June 1949 to September 1952 (monthly elevations and contents), October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum elevation, 480.43 ft June 24 (contents, 3,670 acre-ft); minimum, 460.08 ft Oct. 19-25 (contents, 0.4 acre-ft).

Period of record: Maximum elevation, 485.9 ft Apr. 1, 1960 (contents, 5,960 acre-ft); no contents at times.

REMARKS.--Reservoir is formed by a rolled earthfill dam, completed by Corps of Engineers in August 1949 for flood control; first used for flood regulation about a year prior to completion. Usable capacity, 18,200 acre-ft between elevations 457.0 ft (conduit invert at intake) and 504.5 ft (crest of spillway). No dead storage. The flood-control works consist of a pressure conduit and a side-channel spillway and are not provided with gates. Water is stored during high flows and released gradually. Storage includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin.

COOPERATION.--Capacity curve furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-feet)

460.00	0	472.00	1,160
462.00	15	475.00	1,980
464.00	50	478.00	2,880
466.00	135	481.00	3,860
469.00	510		

ELEVATION (*), IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.11	60.10	60.50	61.21	60.90	60.28	63.01	62.01	62.00	64.21	60.74	60.55
2	60.11	60.10	60.50	61.22	60.80	60.89	63.19	61.92	63.09	63.70	60.72	60.52
3	60.10	60.10	60.50	61.22	60.80	65.10	63.33	61.90	62.96	63.07	60.75	60.49
4	60.10	60.10	60.50	61.21	60.70	67.53	63.34	61.92	63.41	63.54	60.83	60.45
5	60.10	60.10	60.50	61.20	60.70	66.91	63.29	61.98	65.22	63.32	60.84	60.43
6	60.09	60.10	60.50	61.20	60.60	64.04	63.17	61.98	64.66	62.89	60.80	60.39
7	60.09	60.10	60.60	61.20	60.50	63.05	63.05	61.97	63.00	62.57	60.79	60.36
8	60.09	60.10	60.62	61.20	60.50	62.86	62.89	62.00	62.27	62.40	61.26	60.34
9	60.09	60.10	60.65	61.20	60.50	62.95	62.72	62.57	62.22	62.26	61.21	60.32
10	60.09	60.10	60.67	61.20	60.50	62.80	62.63	63.73	62.32	62.11	61.11	60.30
11	60.09	60.10	60.70	61.14	60.40	62.60	62.60	64.08	62.09	62.14	61.02	60.28
12	60.09	60.10	60.71	61.19	60.40	62.47	62.67	63.73	61.80	62.07	60.94	60.26
13	60.09	60.10	60.71	61.21	60.40	62.38	62.80	63.21	61.60	61.93	60.86	60.24
14	60.10	60.10	60.74	61.37	60.30	62.33	63.52	62.87	61.46	61.89	60.79	60.35
15	60.10	60.20	60.80	61.44	60.30	62.27	63.99	62.78	61.37	62.10	60.83	60.68
16	60.09	60.20	60.82	61.41	60.30	62.20	64.10	62.77	68.27	62.12	60.81	60.66
17	60.09	60.30	60.82	61.39	60.33	62.44	64.27	62.80	73.85	62.06	60.76	60.62
18	60.09	60.30	60.82	61.36	60.34	62.84	64.42	62.77	72.50	61.84	60.73	60.61
19	60.09	60.30	60.82	61.35	60.34	62.93	64.29	62.65	67.86	61.62	60.70	60.62
20	60.08	60.30	60.83	61.36	60.30	62.74	64.09	62.45	63.12	61.46	60.67	60.61
21	60.08	60.30	60.83	61.35	60.28	62.66	64.15	62.40	62.70	61.34	60.64	60.59
22	60.08	60.30	60.82	61.32	60.29	63.00	64.03	62.31	68.61	61.23	60.59	60.57
23	60.08	60.40	60.83	61.33	60.28	64.88	64.00	62.06	76.26	61.14	60.56	60.56
24	60.08	60.40	60.85	61.36	60.28	66.15	63.97	61.77	80.11	61.07	60.53	60.58
25	60.08	60.50	60.88	61.36	60.27	65.65	63.74	61.60	79.84	61.01	60.51	60.74
26	60.10	60.50	60.93	61.30	60.27	63.82	63.31	61.45	77.35	61.01	60.49	60.80
27	60.11	60.50	60.97	61.30	60.26	63.25	62.95	61.33	73.97	61.02	60.48	60.80
28	60.11	60.50	61.00	61.30	60.25	62.93	62.66	61.21	70.08	60.98	60.69	60.78
29	60.11	60.50	61.02	61.20	60.25	62.74	62.41	61.10	65.14	60.91	60.68	60.76
30	60.10	60.60	61.10	61.10	-----	62.75	62.18	61.01	63.62	60.85	60.64	60.80
31	60.10	-----	61.19	61.00	-----	62.90	-----	60.98	-----	60.79	60.59	-----
MEAN	60.09	60.25	60.77	61.26	60.43	63.30	63.36	62.24	66.76	61.96	60.76	60.54
MAX	60.11	60.60	61.19	61.44	60.90	67.53	64.42	64.08	80.11	64.21	61.26	60.80
MIN	60.08	60.10	60.50	61.00	60.25	60.28	62.18	60.98	61.37	60.79	60.48	60.24
(+)	6.0	3.0	7.0	5.0	1.3	29.2	16.2	6.4	53.3	3.8	2.8	4.5
(#)	+0.9	-0.5	+0.6	-0.3	-0.7	+4.5	-2.2	-1.6	+7.9	-8.1	-0.2	+0.3

CAL YR 1971 MEAN 61.10 MAX 68.32 MIN 60.08 ≠ 0
WTR YR 1972 MEAN 61.81 MAX 80.11 MIN 60.08 ≠ +0.1

* Add 400 feet to obtain elevations above mean sea level.

+ Contents, in acre feet, at end of period.

Change in contents, equivalent in cfs.

NOTE.--No gage-height record Oct. 29 to Dec. 7.

STREAMS TRIBUTARY TO LAKE ONTARIO

221

04239000 ONONDAGA CREEK AT DORWIN AVENUE, SYRACUSE, N.Y.

LOCATION.--Lat 42°59'00", long 76°09'04", Onondaga County, on left bank 550 ft upstream from bridge on Dorwin Avenue, at Syracuse, and 4 miles downstream from Onondaga Reservoir.

DRAINAGE AREA.--88.5 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 413.59 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--21 years, 116 cfs.

EXTREMES.--Current year: Maximum discharge, 3,200 cfs June 23 (gage height, 6.12 ft, backwater from tree) from rating curve extended as explained below; minimum, 21 cfs Oct. 4, 20, 21, 22 (gage height, 1.43 ft).

Period of record: Maximum discharge, 3,200 cfs June 23, 1972 (gage height, 6.12 ft, backwater from tree) from rating curve extended above 1,400 cfs; minimum daily, 5.5 cfs Aug. 17, 1965; minimum gage height, 1.15 ft Sept. 16, 1959.

REMARKS.--Records fair. High flows regulated by Onondaga Reservoir (see station 04238500). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin. The adjusted and unadjusted yearly means are the same for each year of record.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	25	65	160	66	109	388	139	672	382	66	44
2	25	29	48	139	65	705	431	151	498	266	86	42
3	24	33	45	134	65	899	371	185	223	289	124	40
4	22	30	46	113	66	852	306	218	648	351	127	43
5	23	28	39	105	66	560	248	246	705	243	88	39
6	23	27	58	96	60	269	222	179	369	207	69	37
7	31	32	216	90	60	216	214	202	215	191	112	36
8	27	32	156	90	64	328	194	228	180	194	209	36
9	26	29	113	90	60	273	187	596	263	175	91	41
10	29	30	108	107	60	228	196	627	207	195	73	37
11	31	41	112	170	58	185	271	404	164	201	65	35
12	29	36	94	180	56	171	318	254	143	156	61	34
13	26	37	80	194	56	181	429	212	137	137	59	38
14	25	35	69	317	89	187	568	201	132	149	57	117
15	24	36	124	150	92	167	470	213	225	239	101	106
16	25	37	190	130	100	182	439	336	1,020	188	64	53
17	25	33	117	90	96	443	494	294	852	156	59	51
18	23	31	93	100	77	424	419	221	732	123	60	72
19	22	33	75	168	76	276	316	184	506	108	59	93
20	21	42	82	150	72	212	385	194	219	102	54	53
21	21	42	93	124	70	250	412	209	535	98	46	45
22	21	59	87	111	68	733	340	167	1,250	94	44	42
23	23	46	84	207	64	861	425	142	1,510	91	44	40
24	25	40	84	168	62	725	326	129	1,180	84	44	97
25	36	42	130	168	60	450	254	121	1,080	106	43	153
26	53	43	124	115	57	265	212	112	957	131	42	84
27	35	48	153	168	55	225	190	110	826	103	57	67
28	30	59	170	85	56	203	172	107	665	82	130	57
29	27	59	141	80	64	214	159	105	370	71	62	51
30	25	94	126	74	-----	352	146	102	407	65	51	125
31	25	-----	216	70	-----	372	-----	224	-----	60	47	-----
TOTAL	828	1,188	3,338	4,143	1,960	11,517	9,502	6,812	16,890	5,037	2,294	1,808
MEAN	26.7	39.6	108	134	67.6	372	317	220	563	162	74.0	60.3
MAX	53	94	216	317	100	899	568	627	1,510	382	209	153
MIN	21	25	39	70	55	109	146	102	132	60	42	34

CAL YR 1971 TOTAL 49,180 MEAN 135 MAX 1,110 MIN 21 ≠ 135
WTR YR 1972 TOTAL 65,317 MEAN 178 MAX 1,510 MIN 21 ≠ 178

≠ Adjusted for change in contents in Onondaga Reservoir.

STREAMS TRIBUTARY TO LAKE ONTARIO

04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, N.Y.

LOCATION.--Lat 43°03'27", long 76°09'46", Onondaga County, on right bank, 250 feet upstream from bridge on Spencer Street in Syracuse, 1,000 ft upstream from Erie (Barge) Canal terminal and 1.0 mile upstream from mouth.

DRAINAGE AREA.--109 sq mi.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. September 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 362.44 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, about 3,400 cfs June 23; maximum gage height, 8.09 ft June 23 (backwater from Onondaga Lake); minimum discharge, 36 cfs Oct. 20, 21, Dec. 5 (gage height, 2.34 ft).

Period of record: Maximum discharge, about 3,400 cfs June 23, 1972; maximum gage height, 8.09 ft June 23, 1972 (backwater from Onondaga Lake); minimum discharge, 36 cfs Oct. 20, 21, Dec. 5, 1972 (gage height, 2.34 ft).

REVISIONS.--The maximum discharge for the water year 1971 has been revised to 1,640 cfs Mar. 15, 1971 (gage height, 6.74 ft), superseding figure published in WRD N.Y. 1971.

REMARKS.--Records good except those for period of backwater from Onondaga Lake, which are fair. High flows regulated by Onondaga Reservoir (see station 04238500). Discharge includes minor diversion from Gate House Pond in headwaters of West Branch Tioughnioga River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	43	92	187	106	203	475	246	591	400	124	83
2	44	62	71	171	105	717	529	270	469	370	187	79
3	43	50	63	169	106	822	499	310	260	450	183	74
4	48	47	66	152	112	748	454	353	517	400	183	78
5	41	45	52	142	97	571	397	394	608	310	148	72
6	44	43	112	110	105	326	367	354	383	270	134	71
7	50	54	226	132	106	291	348	354	253	250	169	69
8	48	50	187	118	99	392	318	340	234	270	255	69
9	48	44	146	116	99	337	299	700	313	240	148	71
10	57	51	136	144	97	268	299	682	248	270	124	69
11	58	60	140	199	96	248	372	553	208	250	112	66
12	51	55	126	217	94	260	397	472	189	210	112	63
13	47	54	108	227	112	268	517	436	180	170	108	103
14	44	52	97	322	154	265	608	406	176	250	126	148
15	44	55	164	170	144	246	556	454	350	320	150	136
16	43	54	213	114	140	253	538	487	1,040	250	114	85
17	44	51	148	130	108	457	584	445	836	220	105	79
18	43	47	124	144	100	454	529	386	738	200	114	101
19	41	58	103	201	96	340	436	345	565	180	106	120
20	38	55	112	192	80	283	487	332	307	160	101	83
21	40	80	116	163	80	315	505	329	703	140	96	72
22	40	83	116	140	80	724	484	275	1,580	140	94	69
23	40	69	80	231	80	843	550	234	1,800	130	96	64
24	65	57	108	208	80	748	493	203	1,400	130	94	183
25	60	58	150	208	80	562	433	185	1,200	160	92	183
26	74	63	147	116	86	430	380	169	1,000	170	92	116
27	55	69	180	134	90	386	345	158	800	150	118	101
28	48	78	193	130	100	340	310	150	600	138	183	88
29	45	97	173	124	116	318	283	144	450	126	110	87
30	44	124	160	120	-----	427	258	158	500	120	92	178
31	43	-----	232	112	-----	454	-----	222	-----	116	87	-----
TOTAL	1,478	1,808	4,141	5,043	2,948	13,296	13,050	10,546	18,498	6,960	3,957	2,860
MEAN	47.7	60.3	134	163	102	429	435	340	617	225	128	95.3
MAX	74	124	232	322	154	843	608	700	1,800	450	255	183
MIN	38	43	52	110	80	203	258	144	176	116	87	63

CAL YR 1971 TOTAL 37,284 MEAN 102 MAX 1,120 MIN 38
WTR YR 1972 TOTAL 84,585 MEAN 231 MAX 1,800 MIN 38

NOTE.--Backwater from Onondaga Lake June 23 to July 27.

STREAMS TRIBUTARY TO LAKE ONTARIO

223

04240100 HARBOR BROOK AT SYRACUSE, N.Y.

LOCATION.--Lat 43°02'08", long 76°11'17", Onondaga County, on right bank 145 ft downstream from bridge on Velasco Road at Syracuse, and about 3 miles upstream from mouth.

DRAINAGE AREA.--9.63 sq mi.

PERIOD OF RECORD.--June 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 394.79 ft above mean sea level.

AVERAGE DISCHARGE.--13 years, 8.20 cfs (11.56 inches per year).

EXTREMES.--Current year: Maximum discharge, 458 cfs June 23 (gage height, 7.45 ft) from rating curve extended as explained below; minimum, 2.8 cfs Oct. 30, 31, Nov. 1, 3-6 (gage height, 3.73 ft).

Period of record: Maximum discharge, 458 cfs June 23, 1972 (gage height, 7.45 ft) from rating curve extended above 180 cfs; minimum daily, 1.8 cfs Sept. 22, 24, 1964, Aug. 29 to Sept. 3, Sept. 10-13, Oct. 8-10, 1966.

REMARKS.--Records poor. Flow includes some sewage and storm sewer inflow, some originating outside the basin.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	2.9	3.6	4.5	5.3	13	24	11	19	26	7.4	5.3
2	3.5	3.5	3.5	4.9	5.2	60	22	13	12	21	12	3.9
3	3.4	2.9	3.4	4.9	5.3	22	19	19	11	31	8.6	4.2
4	3.5	2.8	3.4	4.9	5.5	16	18	19	12	21	7.4	3.9
5	3.4	2.9	3.4	4.9	5.3	16	16	15	10	18	6.8	3.9
6	3.5	2.8	5.9	4.7	5.3	12	15	14	10	16	7.1	3.9
7	3.5	3.4	5.3	4.7	5.3	12	15	16	9.5	15	7.7	4.2
8	3.3	3.0	3.8	4.9	5.3	16	13	19	11	14	6.5	4.7
9	3.4	3.0	3.9	5.0	5.2	13	13	41	11	13	6.2	4.2
10	3.7	3.3	3.9	5.9	5.0	12	13	21	9.3	23	6.8	4.2
11	3.2	3.2	5.2	7.5	5.0	11	19	17	9.0	15	6.8	4.2
12	3.2	3.1	4.7	5.5	5.0	11	17	15	9.0	12	6.8	4.2
13	3.1	3.2	4.4	16	5.9	12	29	14	8.8	11	6.8	6.2
14	3.0	3.2	3.9	12	7.5	12	20	14	8.5	11	8.6	4.5
15	2.9	3.3	9.5	7.1	5.9	12	20	26	42	14	5.0	3.9
16	3.0	3.1	4.5	5.9	4.9	12	19	31	41	11	4.7	3.9
17	3.0	3.1	4.1	5.3	4.7	22	19	21	17	10	4.7	3.9
18	2.9	3.0	4.1	5.3	4.7	20	15	16	15	9.8	5.3	4.2
19	2.9	3.5	3.9	11	4.7	14	14	14	15	9.5	4.5	4.2
20	2.9	3.1	4.4	6.3	4.5	13	21	15	15	9.2	4.7	4.2
21	2.9	4.5	4.2	5.9	4.5	17	16	15	112	9.2	4.7	3.9
22	2.9	3.7	4.2	7.1	4.5	88	24	13	136	8.9	4.5	3.9
23	2.9	3.8	4.1	13	4.5	38	21	13	139	12	4.7	3.9
24	3.8	3.5	4.5	7.9	4.5	23	17	12	59	8.6	4.7	9.2
25	3.3	3.5	4.4	9.5	4.7	20	15	12	49	11	4.5	5.0
26	3.1	3.6	4.9	7.5	4.7	18	14	11	38	8.3	4.5	4.2
27	2.9	3.6	4.9	6.7	4.7	17	13	11	32	8.0	5.6	4.5
28	2.9	3.5	5.5	6.7	4.9	16	13	11	27	7.4	5.0	4.7
29	2.9	3.8	4.5	5.5	5.2	17	12	11	23	7.1	4.7	5.0
30	2.9	4.2	4.7	5.5	-----	24	12	13	55	6.8	8.6	7.7
31	2.9	-----	4.5	5.3	-----	22	-----	13	-----	7.1	7.4	-----
TOTAL	98.2	100.0	139.2	211.8	147.7	631	518	506	965.1	404.9	193.3	137.8
MEAN	3.17	3.33	4.49	6.83	5.09	20.4	17.3	16.3	32.2	13.1	6.24	4.59
MAX	3.8	4.5	9.5	16	7.5	88	29	41	139	31	12	9.2
MIN	2.9	2.8	3.4	4.5	4.5	11	12	11	8.5	6.8	4.5	3.9
CFSM	.33	.35	.47	.71	.53	2.12	1.80	1.69	3.34	1.36	.65	.48
IN.	.38	.39	.54	.82	.57	2.44	2.00	1.95	3.73	1.56	.75	.53

CAL YR 1971	TOTAL 3,569.5	MEAN 9.78	MAX 148	MIN 2.6	CFSM 1.02	IN 13.79
WTR YR 1972	TOTAL 4,053.0	MEAN 11.1	MAX 139	MIN 2.8	CFSM 1.15	IN 15.66

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-02	1545	6.24	164	6-15	2045	6.80	270
3-22	1630	6.42	194	6-23	0015	7.45	458

STREAMS TRIBUTARY TO LAKE ONTARIO

04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE, N.Y.

LOCATION.--Lat 43°03'22", long 76°11'07", Onondaga County, on left bank, 250 feet downstream from culvert on Hiawatha Boulevard, in Syracuse, 3,000 feet upstream from mouth.

DRAINAGE AREA.--11.3 sq mi.

PERIOD OF RECORD.--Occasional measurements, water years 1958-70. October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 365.86 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 474 cfs June 21 (gage height, 6.55 ft), from rating extended as explained below; minimum, 2.6 cfs Nov. 9 (gage height, 0.40 ft).

Period of record: Maximum discharge, 474 cfs June 21, 1972 (gage height, 6.55 ft), from rating extended above 160 cfs on basis of step-backwater computations; minimum, 1.0 cfs June 25, 1971; minimum gage height, 0.40 ft Nov. 9, 1971.

REMARKS.--Records fair. Flow includes some sewage and storm sewer inflow, some originating outside the basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	5.6	8.6	6.9	7.7	35	39	17	28	60	14	9.9
2	7.4	11	8.0	7.2	7.4	109	41	22	18	45	20	9.5
3	7.6	4.3	8.0	8.9	7.4	39	32	29	16	54	15	9.2
4	8.0	4.0	7.2	8.8	8.0	25	31	28	17	40	14	9.6
5	7.0	4.3	6.7	7.4	7.7	24	27	23	16	32	13	9.3
6	7.5	4.9	21	7.2	7.4	20	26	24	16	30	12	9.3
7	6.8	9.3	12	6.7	8.0	21	30	27	16	28	14	9.3
8	5.6	4.6	7.2	6.5	7.4	30	24	32	19	27	12	11
9	7.4	4.3	7.7	7.3	7.4	23	23	68	18	26	12	9.9
10	12	8.6	17	11	7.4	21	23	35	15	43	12	10
11	8.1	7.4	7.5	13	7.4	20	39	26	14	24	12	10
12	6.9	5.3	6.5	11	7.7	21	27	23	14	21	11	11
13	6.9	7.3	6.5	21	13	21	51	23	15	21	11	10
14	8.2	5.1	7.4	17	26	20	30	23	15	21	14	10
15	8.2	7.4	20	10	17	21	32	41	109	26	11	9.6
16	7.4	5.3	8.2	8.6	12	21	32	46	54	21	11	9.6
17	7.4	5.1	6.7	8.4	11	34	34	28	20	19	11	9.6
18	7.4	5.1	6.2	8.9	12	33	25	22	18	18	12	9.6
19	6.9	9.7	5.6	16	12	26	23	21	18	18	11	10
20	6.7	4.3	8.0	10	12	24	34	22	18	16	10	9.6
21	6.5	16	7.2	9.7	12	29	24	21	230	16	11	9.0
22	6.5	8.6	6.7	11	15	143	38	19	206	16	11	8.8
23	7.9	8.0	5.9	16	14	66	31	18	183	22	11	8.7
24	13	5.6	7.9	11	14	37	25	18	72	15	11	18
25	8.8	6.9	6.7	14	14	31	22	17	56	21	11	11
26	5.6	8.4	9.4	10	14	28	21	16	50	15	11	9.5
27	4.9	8.0	8.4	9.3	14	26	19	16	54	14	13	9.2
28	4.9	7.4	11	9.5	15	25	19	16	62	14	11	8.6
29	4.6	12	7.4	8.6	17	25	18	16	80	13	10	9.6
30	4.6	15	7.7	8.4	-----	41	18	21	90	13	9.9	15
31	4.9	-----	7.4	8.0	-----	34	-----	21	-----	13	10	-----
TOTAL	222.8	218.8	271.7	317.3	334.9	1,073	858	779	1,557	762	371.9	303.4
MEAN	7.19	7.29	8.76	10.2	11.5	34.6	28.6	25.1	51.9	24.6	12.0	10.1
MAX	13	16	21	21	26	143	51	68	230	60	20	18
MIN	4.6	4.0	5.6	6.5	7.4	20	18	16	14	13	9.9	8.6
CFSM	.64	.65	.78	.90	1.02	3.06	2.53	2.22	4.59	2.18	1.06	.89
IN.	.73	.72	.89	1.04	1.10	3.53	2.82	2.56	5.13	2.51	1.22	1.00

CAL YR 1971 TOTAL 5,508.7 MEAN 15.1 MAX 135 MIN 3.8 CFSM 1.34 IN 18.13
WTR YR 1972 TOTAL 7,069.8 MEAN 19.3 MAX 230 MIN 4.0 CFSM 1.71 IN 23.27

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-02	1730	5.20	266	6-21	2000	6.55	474
6-15	1800	5.86	364				

LOCATION.--Lat 42°55'15", long 76°19'47", Onondaga County, on right bank 25 ft upstream from bridge on Schuyler road, 0.9 mile north of Marietta, and 1.8 miles downstream from Otisco Lake.

EXTREMES.--Current year: Maximum discharge, 1,030 cfs June 23 (gage height, 8.65 ft); minimum daily, 2.6 cfs Oct. 30, Nov. 1, 3, 4; minimum gage height, 0.91 ft Oct. 1, 2.
Period of record: Maximum discharge, 1,030 cfs June 23, 1972 (gage height, 8.65 ft); minimum, 0.80 cfs Sept. 13, 18, 19, 1966; minimum daily, 0.80 cfs Sept. 13, 18, 19, 1966.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1966(M), 1968, 1969.

CAL YR 1971	TOTAL	14,709.9	MEAN	40.3	MAX	341	MIN	2.6
WTR YR 1972	TOTAL	21,557.7	MEAN	58.9	MAX	931	MIN	2.6

STREAMS TRIBUTARY TO LAKE ONTARIO

04240200 NINEMILE CREEK AT CAMILLUS, N.Y.

LOCATION.--Lat 43°02'21", long 76°18'30", Onondaga County, on right bank 150 ft downstream from highway bridge on State Highway 5 (Main Street) in Camillus, 7.2 miles upstream from Onondaga Lake.

DRAINAGE AREA.--84.3 sq mi.

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 398.56 ft above mean sea level.

AVERAGE DISCHARGE.--14 years, 102 cfs.

EXTREMES.--Current year: Maximum discharge, 1,930 cfs June 23 (gage height, 8.73 ft); minimum, 26 cfs Oct. 23, 31, Nov. 1, 6, 7; minimum gage height, 1.30 ft Dec. 5.

Period of record: Maximum discharge, 2,760 cfs Mar. 30, 1960 (gage height, 8.25 ft); maximum gage height, 8.73 ft June 23, 1972; minimum discharge, 16 cfs Sept. 30, Oct. 1, 2, 1961; minimum gage height, 1.13 ft Dec. 10, 1964, Jan. 7, 18, 19, 1967.

REMARKS.--Records fair. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	27	67	89	62	79	377	182	200	451	105	65
2	36	34	57	78	62	329	401	183	181	368	140	64
3	34	33	54	72	63	610	367	250	158	367	159	64
4	34	29	54	68	63	212	344	275	260	381	137	64
5	33	27	49	68	62	166	314	281	258	312	112	62
6	33	26	84	65	63	128	297	214	281	279	104	61
7	34	31	172	67	63	119	287	231	250	250	108	60
8	33	30	96	65	62	187	264	240	222	185	120	59
9	33	31	72	65	61	180	252	471	245	166	105	60
10	36	36	69	73	58	157	252	417	212	201	101	57
11	36	46	66	106	58	149	269	356	186	192	96	57
12	32	41	61	105	57	148	287	320	170	162	95	56
13	30	40	57	118	61	155	374	291	159	165	95	60
14	30	39	53	157	72	208	410	279	152	164	96	64
15	30	39	103	81	69	206	370	275	178	194	96	63
16	30	41	122	66	70	208	385	302	929	219	77	57
17	29	39	76	69	64	327	433	297	585	171	75	57
18	28	40	64	69	63	321	379	264	469	153	75	64
19	28	43	58	102	61	255	356	233	403	146	72	59
20	28	50	59	91	60	232	390	228	342	141	70	56
21	28	55	66	80	62	253	394	232	914	137	68	54
22	28	64	66	75	61	687	376	202	1,460	110	68	53
23	27	53	55	113	57	673	431	179	1,660	110	68	52
24	31	49	60	97	58	430	354	149	1,300	105	69	84
25	37	50	71	99	57	376	324	137	973	124	68	84
26	34	51	71	67	57	342	291	127	821	130	68	64
27	30	54	79	69	57	317	260	117	630	99	76	59
28	29	64	106	67	57	293	234	109	522	109	78	55
29	28	66	87	66	59	288	213	104	447	106	69	53
30	27	88	77	65	-----	372	197	105	519	103	66	92
31	27	-----	131	64	-----	365	-----	143	-----	102	66	-----
TOTAL	971	1,316	2,362	2,536	1,779	8,772	9,882	7,193	15,086	5,902	2,802	1,859
MEAN	31.3	43.9	76.2	81.8	61.3	283	329	232	503	190	90.4	62.0
MAX	38	88	172	157	72	687	433	471	1,660	451	159	92
MIN	27	26	49	64	57	79	197	104	152	99	66	52
CAL YR 1971	TOTAL 49,276	MEAN 135	MAX 1,210	MIN 26								
WTR YR 1972	TOTAL 60,460	MEAN 165	MAX 1,660	MIN 26								

STREAMS TRIBUTARY TO LAKE ONTARIO

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04240300 NINEMILE CREEK AT LAKELAND, N.Y.

LOCATION.--Lat 43°04'51", long 76°13'36", Onondaga County, on left bank, 25 ft downstream from bridge on State Highway 48, 0.6 mile downstream from Geddes Brook, and 0.7 mile upstream from mouth.

DRAINAGE AREA.--115 sq mi.

PERIOD OF RECORD.--Occasional measurements, water years 1959-70. November 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 375 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 2,290 cfs June 23 (gage height, 8.58 ft); minimum daily, 68 cfs Oct. 23, Nov. 1.
Period of record: Maximum discharge, 2,290 cfs June 23, 1972 (gage height, 8.58 ft); minimum daily, 68 cfs Oct. 23, Nov. 1, 1971.

REMARKS.--Records poor. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	68	175	193	118	239	470	270	368	600	213	113
2	84	74	142	172	122	504	420	310	344	500	222	112
3	82	80	115	160	122	794	430	400	296	500	270	107
4	84	80	114	154	121	473	440	440	366	520	250	104
5	86	80	100	146	120	422	450	400	390	450	210	109
6	84	74	138	133	130	335	440	340	395	400	190	113
7	88	72	265	136	130	277	420	400	368	380	200	143
8	86	74	191	136	130	354	380	560	344	300	220	126
9	84	76	158	120	132	331	370	700	380	270	190	126
10	90	76	162	147	133	298	370	660	356	350	180	120
11	90	80	148	195	126	271	400	600	318	330	170	133
12	86	90	126	215	121	275	450	540	292	270	170	144
13	82	96	112	214	127	287	500	500	282	270	170	170
14	80	90	104	297	158	312	580	460	270	270	160	160
15	80	86	180	203	154	323	580	450	318	340	160	153
16	78	86	241	142	152	333	620	500	1,000	390	139	133
17	78	84	181	136	139	456	640	500	800	280	136	123
18	78	85	175	138	127	492	580	420	640	260	136	136
19	76	94	158	189	139	435	560	380	540	240	123	129
20	76	102	169	189	128	420	600	370	500	220	103	116
21	73	128	174	170	136	431	600	370	1,300	210	98	102
22	71	160	168	154	142	744	580	320	1,810	170	99	98
23	68	140	134	219	176	1,150	660	270	2,110	150	116	91
24	76	127	145	207	183	700	540	240	1,500	150	126	145
25	82	124	160	215	183	600	490	220	1,200	190	125	154
26	77	122	160	145	170	540	430	200	980	200	122	122
27	72	130	197	122	162	500	390	190	840	140	137	104
28	70	145	233	128	164	490	340	180	700	160	148	94
29	70	154	215	120	175	470	310	170	580	150	132	94
30	70	205	201	114	-----	520	290	220	700	150	126	150
31	70	-----	231	112	-----	500	-----	294	-----	140	123	-----
TOTAL	2,461	3,082	5,172	5,121	4,120	14,276	14,330	11,874	20,287	8,950	4,964	3,724
MEAN	79.4	103	167	165	142	461	478	383	676	289	160	124
MAX	90	205	265	297	183	1,150	660	700	2,110	600	270	170
MIN	68	68	100	112	118	239	290	170	270	140	98	91
CAL YR 1971	TOTAL 88,074	MEAN 241	MAX 1,600	MIN 68								
WTR YR 1972	TOTAL 98,361	MEAN 269	MAX 2,110	MIN 68								

STREAMS TRIBUTARY TO LAKE ONTARIO

04240495 ONONDAGA LAKE AT LIVERPOOL, N.Y.

LOCATION.--Lat 43°06'01", long 76°12'34", Onondaga County, on north shore of Onondaga Lake at Onondaga Park Marina basin, 200 ft southwest of Onondaga Lake Parkway, 1.9 miles upstream from outlet of lake.

DRAINAGE AREA.--285 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Barge Canal datum is at 0.99 ft).

EXTREMES.--Current year: Maximum elevation, 369.21 ft June 30; minimum, 362.18 ft Sept. 10.

Period of record: Maximum elevation, 369.21 ft June 30, 1972; minimum, 362.18 ft Sept. 10, 1972.

REMARKS.--Records fair.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362.75	363.04	363.21	363.14	362.84	362.93	365.52	365.01	363.23	369.14	363.40	362.65
2	362.73	363.17	363.19	363.14	362.94	363.16	365.67	364.87	363.11	368.93	363.43	362.63
3	362.74	363.16	362.67	363.14	362.94	363.83	365.71	365.06	363.07	368.77	363.53	362.60
4	362.76	363.06	362.48	363.14	362.94	363.99	365.67	365.39	363.14	368.74	363.41	362.60
5	362.80	363.03	362.36	363.04	362.94	364.10	365.57	365.63	363.28	368.56	363.32	362.59
6	362.89	363.03	362.25	362.94	362.94	364.03	365.45	365.59	363.39	368.34	363.24	362.56
7	362.94	363.19	362.51	362.94	363.04	363.51	365.31	365.51	363.14	368.09	363.17	362.50
8	362.93	363.18	362.96	362.74	363.04	363.33	365.14	365.38	363.04	367.81	363.15	362.46
9	362.91	363.07	363.26	362.64	363.14	363.27	364.96	365.58	363.18	367.50	363.21	362.39
10	362.92	362.97	363.22	362.44	363.16	363.17	364.79	365.91	363.17	367.25	363.23	362.30
11	362.92	362.84	363.10	362.79	363.06	363.07	364.72	366.04	363.06	367.06	363.19	362.71
12	362.91	362.82	362.93	362.90	362.94	362.98	364.75	366.11	362.97	366.79	363.04	362.83
13	362.83	362.74	362.78	363.03	362.85	362.90	364.88	366.08	362.86	366.56	363.03	362.70
14	362.78	362.71	362.84	363.38	362.81	362.88	365.20	365.97	362.79	366.45	363.03	362.74
15	362.93	362.75	363.02	363.44	362.79	362.89	365.34	365.88	362.97	366.33	363.01	362.79
16	363.81	362.87	363.25	363.14	362.84	362.84	365.48	365.92	363.64	366.25	363.05	362.73
17	362.95	362.92	363.33	362.74	362.94	362.98	365.62	365.88	363.93	366.14	363.03	362.61
18	362.92	362.90	363.38	362.74	363.02	363.38	365.65	365.77	363.87	365.97	362.99	362.58
19	362.91	362.98	363.33	362.90	363.13	363.77	365.62	365.68	363.77	365.73	362.85	362.55
20	362.91	362.99	363.28	363.06	363.16	363.98	365.68	365.58	363.54	365.47	362.56	362.43
21	362.92	363.00	363.19	363.12	363.09	363.93	365.77	365.48	363.91	365.03	362.40	362.49
22	362.93	363.12	363.10	363.09	363.01	364.22	365.77	365.32	365.45	364.75	362.44	362.60
23	362.92	363.05	362.99	363.19	362.97	365.17	366.00	365.16	366.79	364.71	362.52	362.57
24	362.91	362.95	363.00	363.30	363.03	365.60	366.00	364.97	367.80	364.71	362.40	362.65
25	362.95	362.86	362.98	363.54	363.06	365.78	365.89	364.72	368.42	364.70	362.33	362.70
26	362.98	362.81	362.94	363.14	363.07	365.80	365.75	364.41	368.85	364.62	362.48	362.51
27	362.98	362.77	362.90	362.74	363.03	365.71	365.59	364.08	369.08	364.50	362.58	362.39
28	362.98	362.79	362.93	362.34	362.99	365.51	365.42	363.79	369.13	364.31	362.71	362.34
29	362.97	362.84	363.27	362.34	362.95	365.31	365.28	363.55	369.05	364.05	362.72	362.50
30	362.95	363.06	363.43	362.34	-----	365.30	365.13	363.42	369.14	363.86	362.69	362.63
31	362.96	-----	363.24	362.54	-----	365.40	-----	363.38	-----	363.59	362.67	-----
MEAN	362.93	362.96	363.01	362.94	362.99	364.02	365.44	365.20	364.76	366.28	362.93	362.58
MAX	363.81	363.19	363.43	363.54	363.16	365.80	366.00	366.11	369.14	369.14	363.53	362.83
MIN	362.73	362.71	362.25	362.34	362.79	362.84	364.72	363.38	362.79	363.59	362.33	362.30
CAL YR 1971	MEAN 363.46		MAX 367.41		MIN 362.25							
WTR YR 1972	MEAN 363.84		MAX 369.14		MIN 362.25							

STREAMS TRIBUTARY TO LAKE ONTARIO

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04242500 EAST BRANCH FISH CREEK AT TABERG, N.Y.

LOCATION.--Lat 43°18'06", long 75°37'09", Oneida County, on left bank at downstream side of bridge on Main Street at Taberg, just downstream from Furnace Creek, 300 ft upstream from bridge on State Highway 69, 2.8 miles upstream from confluence of East and West Branches near Blossvale.

DRAINAGE AREA.--188 sq mi.

PERIOD OF RECORD.--April 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 490.12 ft above mean sea level. Prior to May 20, 1969, at datum 1.00 ft higher.

AVERAGE DISCHARGE.--49 years, 530 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 14,500 cfs June 22 (gage height, 11.71 ft); minimum, 23 cfs Sept. 7 (gage height, 0.73 ft).

Period of record: Maximum discharge, 14,500 cfs June 22, 1972 (gage height, 11.71 ft); minimum, 4.9 cfs Aug. 15, 16, 1949.

REMARKS.--Records fair except those for winter periods, which are poor. Diversion above station for municipal supply by cities of Rome and Oneida. Diurnal fluctuation at low flow caused by diversion and small power operations upstream.

REVISIONS (WATER YEARS).--WSP 604: 1924. WSP 759: Drainage area. WSP 1034: 1944. WSP 1054: 1923-45.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	115	314	409	280	226	778	3,180	1,140	1,100	150	123
2	110	259	206	383	260	318	858	3,940	1,030	652	160	99
3	98	324	224	366	230	413	765	8,180	573	598	376	90
4	98	254	218	353	210	412	640	5,290	486	882	348	92
5	138	268	184	312	170	506	532	3,130	412	556	234	84
6	157	265	205	236	230	504	477	2,320	286	430	173	80
7	275	391	371	249	240	460	425	2,860	218	356	344	77
8	233	454	538	264	281	420	396	2,180	335	313	775	71
9	190	302	662	280	297	400	381	2,460	1,630	289	556	139
10	217	280	1,030	283	315	370	390	1,930	866	320	368	135
11	278	277	1,670	309	296	360	431	1,470	445	604	267	99
12	440	252	1,500	330	282	350	480	1,220	315	450	222	86
13	503	300	924	334	278	340	898	1,080	259	320	198	121
14	318	303	588	450	305	340	1,440	1,110	226	352	296	148
15	231	260	685	411	317	340	1,730	1,270	566	372	324	119
16	184	257	1,640	326	315	340	1,900	2,330	2,180	500	219	98
17	159	309	1,390	293	299	370	2,680	2,180	906	440	175	89
18	143	318	808	276	280	400	3,130	1,950	456	306	246	115
19	130	655	442	329	262	390	3,330	1,140	365	243	310	279
20	120	1,220	415	430	234	380	3,910	1,010	365	219	225	137
21	111	810	430	395	212	390	3,300	826	2,320	207	158	102
22	106	601	326	327	215	500	2,870	622	10,900	195	129	92
23	104	429	239	531	201	880	2,580	468	3,910	556	111	74
24	116	265	398	637	211	946	2,310	370	2,110	1,120	119	170
25	201	278	620	699	206	932	2,270	300	1,330	592	99	261
26	242	263	602	583	208	855	2,150	250	1,010	677	95	193
27	200	267	570	560	218	785	2,070	214	691	500	111	201
28	166	281	1,230	430	217	706	2,150	186	530	328	515	158
29	145	289	1,240	370	207	635	2,380	163	430	252	480	129
30	136	351	724	320	-----	671	2,760	160	684	207	267	465
31	121	-----	491	309	-----	693	-----	552	-----	173	170	-----
TOTAL	5,797	10,897	20,884	11,784	7,276	15,632	50,411	54,341	36,974	14,109	8,220	4,126
MEAN	187	363	674	380	251	504	1,680	1,753	1,232	455	265	138
MAX	503	1,220	1,670	699	317	946	3,910	8,180	10,900	1,120	775	465
MIN	98	115	184	236	170	226	381	160	218	173	95	71
(#)	25.0	25.0	24.7	25.3	25.4	26.0	25.2	24.6	25.0	24.4	26.2	26.2
CAL YR 1971	TOTAL 203,484	MEAN 557	MAX 4,340	MIN 15	# 22.8							
WTR YR 1972	TOTAL 240,451	MEAN 657	MAX 10,900	MIN 71	# 23.9							

PEAK DISCHARGE (BASE, 4,900 CFS)

* Diversions, in cubic feet per second, by cities of Rome and Oneida for water supply (figures supplied by respective cities).

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-03	0300	8.99	9,280	6-22	0730	11.71	14,500

STREAMS TRIBUTARY TO LAKE ONTARIO

04243500 ONEIDA CREEK AT ONEIDA, N.Y.

LOCATION.--Lat 43°05'51", long 75°38'22", Madison County, on right bank 70 ft upstream from bridge on Sconondoa Street, at Oneida, and 500 ft downstream from Sconondoa Creek.

DRAINAGE AREA.--113 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 409.33 ft above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--23 years, 151 cfs (18.15 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,260 cfs June 22 (gage height, 14.61 ft); minimum, 27 cfs Oct. 21 (gage height, 1.53 ft).

Period of record: Maximum discharge, 9,260 cfs June 22, 1972 (gage height, 14.61 ft); minimum, 12 cfs Aug. 5, 6, 1962, Oct. 28, 1964; minimum gage height, 1.30 ft Aug. 3, 6, 1955, Aug. 17, 1964.

REMARKS.--Records fair except those for winter periods, which are poor. Occasional regulation of flow by small mills above station.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	33	139	203	110	478	557	191	566	453	58	46
2	29	34	101	164	110	3,030	569	217	260	298	69	44
3	29	38	94	155	110	1,400	430	225	169	303	125	44
4	31	35	85	137	110	700	360	358	860	308	135	49
5	31	34	72	130	110	450	295	375	378	232	83	45
6	31	33	191	131	120	350	285	246	230	204	71	43
7	35	56	737	189	120	500	270	303	185	181	129	41
8	32	54	425	156	130	600	237	323	171	171	313	42
9	31	42	340	168	130	500	246	1,120	430	163	121	48
10	46	43	388	179	130	350	250	653	234	263	88	43
11	59	68	349	266	120	320	443	385	179	248	75	40
12	46	55	262	255	120	310	408	295	153	177	68	39
13	38	67	201	363	120	300	1,080	248	145	147	67	82
14	33	61	160	426	140	310	812	234	135	139	156	243
15	32	59	310	202	180	320	806	258	313	155	185	167
16	31	59	362	157	220	540	806	620	1,570	131	97	88
17	31	52	217	176	220	700	854	468	470	121	83	69
18	31	48	174	198	200	500	629	330	288	105	84	91
19	31	49	149	238	180	450	508	244	232	92	74	142
20	30	63	150	215	170	600	836	241	195	86	64	78
21	29	58	166	182	160	900	551	253	265	83	59	66
22	29	77	151	191	160	1,700	569	202	3,800	77	54	60
23	30	77	140	343	150	1,040	731	175	1,660	88	54	54
24	32	69	161	232	140	542	460	157	833	118	106	162
25	49	76	255	250	140	385	365	141	560	103	70	187
26	55	82	235	124	140	323	303	129	435	96	67	140
27	42	91	278	120	140	278	265	120	338	76	63	114
28	37	147	354	120	140	250	234	108	283	67	91	90
29	34	151	246	120	200	278	214	101	246	63	61	81
30	33	217	192	120	-----	458	195	97	581	58	55	105
31	34	-----	205	120	-----	536	-----	204	-----	58	50	-----
TOTAL	1,092	2,028	7,289	6,030	4,220	19,398	14,568	9,021	16,164	4,864	2,875	2,543
MEAN	35.2	67.6	235	195	146	626	486	291	539	157	92.7	84.8
MAX	59	217	737	426	220	3,030	1,080	1,120	3,800	453	313	243
MIN	29	33	72	120	110	250	195	97	135	58	50	39
CFSM	.31	.60	2.08	1.73	1.29	5.54	4.30	2.58	4.77	1.39	.82	.75
IN.	.36	.67	2.40	1.99	1.39	6.39	4.80	2.97	5.32	1.60	.95	.84

CAL YR 1971 TOTAL 64,023 MEAN 175 MAX 2,520 MIN 27 CFSM 1.55 IN 21.08
WTR YR 1972 TOTAL 90,092 MEAN 246 MAX 3,800 MIN 29 CFSM 2.18 IN 29.66

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-02	1900	12.95	5,880	6-16	0500	10.81	3,490
3-22	2245	8.92	2,210	6-22	0930	14.61	9,260

STREAMS TRIBUTARY TO LAKE ONTARIO

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04245000 LIMESTONE CREEK AT FAYETTEVILLE, N.Y.

LOCATION.--Lat 43°01'48", long 76°00'49", Onondaga County, on left bank 100 ft downstream from bridge on Genesee Street at Fayetteville, and 8 miles upstream from mouth.

DRAINAGE AREA.--85.5 sq mi, not including 14.0 sq mi of Middle Branch Tioughnioga Creek basin, flow from which may be completely diverted into Limestone Creek basin through De Ruyter Reservoir, and 0.8 sq mi in closed basin.

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

GAGE.--Water-stage recorder. Datum of gage is 427.62 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--32 years (1940-72), 137 cfs.

EXTREMES.--Current year: Maximum discharge, 3,800 cfs June 23 (gage height, 7.56 ft); minimum, 19 cfs Oct. 31, (gage height, 1.36 ft).

Period of record: Maximum discharge, 7,010 cfs Mar. 28, 1950 (gage height, 7.78 ft), from rating curve extended above 3,500 cfs; maximum gage height, 7.95 ft Mar. 5, 1964; minimum discharge, 1.4 cfs Aug. 19, 1969.

REMARKS.--Records fair. Canal diverts water from Limestone Creek about 3 miles above station and returns water to creek about 400 ft above station. Flow regulated by De Ruyter Reservoir.

REVISIONS (WATER YEARS).--WSP 954: 1941. WSP 1912: 1958(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	21	98	170	79	128	425	167	660	615	69	37
2	37	24	75	155	77	1,380	480	179	308	328	83	35
3	37	25	64	147	79	1,070	356	191	200	415	106	35
4	38	22	68	128	97	485	300	215	824	415	104	38
5	38	22	49	118	93	360	242	273	730	259	75	38
6	38	19	91	95	93	263	233	179	300	224	65	35
7	43	22	444	114	88	230	218	209	239	203	102	34
8	41	29	325	102	81	324	197	230	203	200	203	34
9	40	24	263	99	77	277	197	755	300	209	86	34
10	43	24	282	126	73	221	212	595	206	300	69	32
11	50	33	282	197	73	194	312	292	164	284	61	31
12	50	33	199	200	69	194	332	233	142	179	58	38
13	45	39	156	242	75	194	605	203	133	158	58	43
14	40	42	129	340	97	212	765	197	126	161	59	104
15	39	36	234	133	93	188	520	218	545	233	63	102
16	37	36	256	106	99	191	605	440	1,440	158	53	51
17	37	36	133	123	77	475	670	470	590	142	51	49
18	39	33	111	123	76	384	500	308	292	121	54	65
19	37	33	90	203	76	259	388	239	236	111	54	126
20	37	40	102	164	76	215	555	245	206	106	47	67
21	37	47	111	133	76	259	520	266	630	99	46	53
22	37	64	97	118	76	1,050	388	203	2,680	95	43	47
23	36	56	67	245	78	1,110	545	170	2,310	97	41	46
24	39	47	106	185	80	445	340	152	1,040	93	43	106
25	49	56	170	188	81	304	280	142	700	111	40	173
26	54	60	150	93	81	263	239	126	545	116	40	95
27	49	64	191	93	77	233	218	114	384	88	43	81
28	44	77	230	97	77	218	200	106	316	81	65	71
29	40	93	164	93	81	242	188	99	266	75	46	63
30	33	135	155	90	-----	396	173	97	650	71	41	133
31	22	-----	249	83	-----	364	-----	304	-----	67	38	-----
TOTAL	1,246	1,292	5,141	4,503	2,355	12,128	11,203	7,617	17,365	5,814	2,006	1,896
MEAN	40.2	43.1	166	145	81.2	391	373	246	579	188	64.7	63.2
MAX	54	135	444	340	99	1,380	765	755	2,680	615	203	173
MIN	22	19	49	83	59	128	173	97	126	67	38	31

CAL YR 1971 TOTAL 52,730 MEAN 144 MAX 1,610 MIN 19
WTR YR 1972 TOTAL 72,566 MEAN 198 MAX 2,680 MIN 19

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-02	2300	6.26	2,680	6-15	2300	7.05	3,340
3-23	0030	4.97	1,690	6-23	0100	7.56	3,800

STREAMS TRIBUTARY TO LAKE ONTARIO

04245200 BUTTERNUT CREEK NEAR JAMESVILLE, N.Y.

LOCATION (revised).--Lat 42°56'02", long 76°03'44", Onondaga County, on left bank 15 ft downstream from bridge on Walberger Road, 125 ft downstream from tributary from Stebbins Gulf, 2.2 miles upstream from Jamesville Reservoir, and 4 miles south of Jamesville.

DRAINAGE AREA.--32.2 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955-58. July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 717.93 ft above mean sea level.

AVERAGE DISCHARGE.--14 years, 45.3 cfs (19.10 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,120 cfs June 21 (gage height, 7.15 ft); maximum gage height, 7.54 ft Mar. 2; minimum discharge, 3.1 cfs Sept. 11, 12; minimum gage height, 3.50 ft Oct. 5.6.

Period of record: Maximum discharge, 1,260 cfs Mar. 5, 1964 (gage height, 6.29 ft); maximum gage height, 7.54 ft Mar. 2, 1972; minimum discharge, 2.0 cfs Sept. 27, 1959 (gage height, 2.26 ft).

REMARKS.--Records poor.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	8.1	24	86	39	40	168	79	263	144	21	5.2
2	8.1	9.8	18	63	37	356	176	84	118	109	34	4.5
3	7.6	10	15	55	35	508	147	93	102	155	61	4.8
4	8.1	9.2	14	49	34	362	127	100	444	133	48	6.0
5	7.6	8.1	13	46	33	235	108	93	195	102	18	4.8
6	9.8	8.1	38	68	32	188	99	77	129	91	13	4.5
7	13	11	131	61	30	157	95	95	109	90	70	4.1
8	9.8	10	95	49	30	124	86	118	102	88	117	4.5
9	9.2	8.7	77	44	29	100	88	245	129	73	41	4.8
10	11	10	80	49	28	109	88	168	95	109	20	3.7
11	12	14	82	60	27	95	117	122	81	84	16	3.3
12	13	11	63	63	27	73	120	102	75	64	14	3.3
13	10	16	52	99	28	60	218	91	72	59	13	6.0
14	9.2	11	41	107	40	72	235	91	68	84	15	86
15	8.7	12	84	82	28	61	186	102	138	93	37	30
16	8.1	13	86	80	25	68	213	113	444	64	13	9.7
17	8.1	11	55	66	25	140	238	104	159	50	12	14
18	8.1	9.2	46	62	19	111	180	84	111	39	15	43
19	7.6	10	40	70	19	82	159	75	93	32	11	66
20	7.6	13	41	50	19	72	206	81	79	30	9.0	19
21	7.6	14	46	46	19	131	164	81	206	30	7.7	11
22	8.1	19	37	61	18	464	151	64	770	23	6.4	9.0
23	8.1	14	46	95	18	305	157	57	655	22	6.0	7.7
24	10	13	53	66	17	172	129	50	353	19	6.4	59
25	18	15	63	64	17	140	115	48	233	46	6.0	91
26	21	14	63	56	16	126	102	45	184	28	5.2	37
27	13	16	70	54	16	113	95	45	149	19	27	27
28	10	22	84	50	16	106	88	45	127	16	41	19
29	9.2	25	63	46	16	118	84	41	113	14	12	20
30	9.2	44	66	45	-----	155	81	39	195	12	8.4	86
31	8.1	-----	95	42	-----	151	-----	144	-----	11	6.4	-----
TOTAL	308.7	409.2	1,781	1,934	737	4,994	4,220	2,776	5,991	1,933	730.5	693.9
MEAN	9.96	13.6	57.5	62.4	25.4	161	141	89.5	200	62.4	23.6	23.1
MAX	21	44	131	107	40	508	238	245	770	155	117	91
MIN	7.6	8.1	13	42	16	40	81	39	68	11	5.2	3.3
CFSM	.31	.42	1.79	1.94	.79	5.00	4.38	2.78	6.21	1.94	.73	.72
IN.	.36	.47	2.06	2.23	.85	5.77	4.88	3.21	6.92	2.23	.84	.80

CAL YR 1971 TOTAL 18,332.6 MEAN 50.2 MAX 583 MIN 6.0 CFSM 1.56 IN 21.18
WTR YR 1972 TOTAL 26,508.3 MEAN 72.4 MAX 770 MIN 3.3 CFSM 2.25 IN 30.62

PEAK DISCHARGE (BASE, 550 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-02	1730	7.54	1,080	6-16	0130	7.40	980
3-22	1730	6.94	710	6-21	1930	7.15	1,120

STREAMS TRIBUTARY TO LAKE ONTARIO

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04245236 MEADOW BROOK AT HURLBURT ROAD, SYRACUSE, N.Y.

LOCATION.--Lat 43°02'30", long 76°06'02", Onondaga County, on right bank, 170 ft downstream from culvert at intersection of Hurlburt Road and Meadowbrook Drive, 2.3 miles upstream from mouth on Butternut Creek.

DRAINAGE AREA.--2.90 sq mi.

PERIOD OF RECORD.--December 1970 to current year.

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

EXTREMES.--Current year: Maximum discharge, 179 cfs May 15 (gage height, 3.64 ft), from rating curve extended as explained below; minimum, 0.02 cfs, Sept. 11; minimum gage height, 0.27 ft Oct. 8.

Period of record: Maximum discharge, 179 cfs May 15, 1972 (gage height, 3.64 ft), from rating curve extended above 52 cfs on basis of step-backwater computation; minimum, 0.02 cfs Sept. 11, 1972; minimum gage height, 0.27 ft Oct. 8, 1971.

REMARKS.--Records poor. Flow includes some storm sewer inflow, some originating outside the basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.23	.35	.54	.40	35	2.5	1.0	12	1.7	.80	.13
2	.14	5.8	.30	.63	.40	50	2.4	11	1.3	.90	5.8	.12
3	.15	.12	.29	.63	.40	7.2	1.4	3.9	.80	8.1	2.7	.11
4	.40	.14	.29	.63	.35	3.7	1.6	2.6	1.5	.90	.71	.10
5	.17	.12	.26	.50	.35	3.1	1.2	1.2	.80	.71	.46	.10
6	.23	.13	27	.36	.35	2.1	1.5	2.4	.76	.54	.35	.09
7	.17	5.1	1.4	.41	.35	6.7	3.1	1.4	.76	.61	.60	.08
8	.07	.04	.58	.37	.40	11	1.2	4.7	1.8	.54	.34	.21
9	.06	.07	1.4	.54	.40	3.1	1.0	8.3	3.4	.54	.33	.21
10	.12	3.2	.58	4.8	.40	1.9	1.0	.76	.71	12	.33	.04
11	.07	1.2	.67	10	.45	1.9	4.7	.61	.66	.61	.32	.06
12	.05	.22	.35	5.3	.70	4.7	1.4	.54	.61	.54	.31	.06
13	.04	.65	.33	26	6.4	3.9	12	.51	.66	.56	.30	.78
14	.04	.16	.96	2.9	6.7	2.1	1.7	.56	.66	.89	1.2	.37
15	.04	.45	20	.76	8.4	4.6	2.6	19	27	5.8	.35	.33
16	.04	.25	.88	.67	.97	7.0	2.4	8.8	5.7	.71	.33	.29
17	.04	.18	.90	.67	.50	11	1.7	1.4	1.0	.66	.30	.30
18	.04	.14	.67	1.7	.71	5.7	1.3	.90	.90	.76	.54	.31
19	.04	4.6	.46	6.1	.94	3.9	1.3	.85	.80	.71	.31	.32
20	.04	.22	1.2	.71	7.8	3.9	1.7	1.3	1.0	.71	.25	.33
21	.04	16	.97	.37	4.8	8.3	.61	.80	44	.71	.26	.30
22	.19	1.6	.46	2.8	.97	14	2.9	.76	37	.71	.24	.30
23	.22	.76	.35	1.9	.50	4.4	.85	.76	15	6.1	.79	.30
24	1.1	.31	1.8	1.1	.46	2.4	.76	.76	3.1	.66	.46	10
25	.82	.46	.50	1.6	1.5	2.1	.85	.76	2.9	17	.30	.78
26	.22	.97	2.9	.63	.69	1.8	.90	.66	1.4	.61	.16	.32
27	.17	.76	1.5	.54	.71	1.5	.95	.66	1.0	.60	.64	.35
28	.21	.63	2.4	.50	1.1	1.5	.95	.66	.85	.63	.34	.32
29	.23	14	.67	.45	1.3	1.8	.95	.61	.66	.63	.32	.58
30	.29	8.1	.58	.40	-----	2.8	1.0	1.5	15	.63	.15	2.1
31	.31	-----	.97	.40	-----	1.8	-----	4.4	-----	.63	.14	-----
TOTAL	5.89	66.61	71.97	74.91	49.40	214.9	58.42	84.06	183.73	67.40	20.43	19.69
MEAN	.19	2.22	2.32	2.42	1.70	6.93	1.95	2.71	6.12	2.17	.66	.66
MAX	1.1	16	27	26	8.4	50	12	19	44	17	5.8	10
MIN	.04	.04	.26	.36	.35	1.5	.61	.51	.61	.54	.14	.04
CFSM	.07	.77	.80	.83	.59	2.39	.67	.93	2.11	.75	.23	.23
IN.	.08	.85	.92	.96	.63	2.76	.75	1.08	2.36	.86	.26	.25
CAL YR 1971	TOTAL 643.24		MEAN 1.76		MAX 58	MIN .04	CFSM .61	IN 8.25				
WTR YR 1972	TOTAL 917.41		MEAN 2.51		MAX 50	MIN .04	CFSM .87	IN 11.77				

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
3-02	1300	2.90	120	6-15	2000	3.30	152
5-15	2030	3.64	179	6-21	1900	3.35	156

STREAMS TRIBUTARY TO LAKE ONTARIO

04246000 ONEIDA LAKE AT BREWERTON, N.Y.

LOCATION.--Lat 43°14'24", long 76°08'30", Onondaga County, at west end of Oneida Lake, 100 ft west of bridge on U.S. Highway 11, at Brewerton.

DRAINAGE AREA.--1,382 sq mi, at dam at Caughdenoy.

PERIOD OF RECORD.--November 1951 to current year. April 1904 to September 1925 in reports of State Engineer and Surveyor, published as Oneida River at Brewerton.

GAGE.--Water-stage recorder. Datum of gage is 362.00 ft above mean sea level, Barge Canal datum.

EXTREMES.--Current year: Maximum gage height, 11.84 ft June 26; minimum, 6.46 ft Mar. 1.

Period of record: Maximum gage height, 11.84 ft June 26, 1972; minimum daily, 5.42 ft Feb. 18, 19, 1961.

REMARKS.—Elevation of lake surface regulated by Tainter-gate dam on Oneida River at Caughdenoy and gates on Oneida Canal and Erie (Barge) Canal. Lake volume below 369 ft elevation, 49,600 million cu ft. Area of water surface, 79.8 sq mi; axes, 20.9 mi by 5.5 mi; shoreline length, 54.7 mi.

REVISIONS--WRD N.Y. 1967: Drainage area.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.62	8.31	8.55	7.81	7.00	6.53	8.41	10.31	8.79	11.17	8.78	8.60
2	8.53	8.36	8.54	7.80	6.97	6.57	8.55	10.33	8.96	11.09	8.85	8.61
3	8.49	8.35	8.40	7.77	6.96	6.82	8.64	10.49	9.09	10.94	8.79	8.52
4	8.48	8.24	8.37	7.72	6.91	6.95	8.72	10.74	9.19	10.84	8.76	8.47
5	8.37	8.41	8.46	7.66	6.87	7.05	8.71	10.87	9.26	10.76	8.78	8.47
6	8.35	8.41	8.28	7.61	6.85	7.12	8.67	10.92	9.27	10.58	8.77	8.46
7	8.28	8.24	8.20	7.53	6.80	7.21	8.61	10.85	9.19	10.41	8.76	8.49
8	8.35	8.35	8.27	7.47	6.78	7.23	8.53	10.86	9.20	10.22	8.69	8.46
9	8.41	8.43	8.26	7.41	6.75	7.31	8.45	10.87	9.17	10.06	8.64	8.40
10	8.34	8.39	8.38	7.34	6.71	7.34	8.39	10.83	9.13	9.88	8.62	8.40
11	8.29	8.44	8.14	7.29	6.68	7.37	8.39	10.75	9.11	9.75	8.65	8.43
12	8.27	8.47	8.37	7.28	6.66	7.35	8.43	10.67	9.09	9.64	8.62	8.36
13	8.39	8.50	8.23	7.27	6.63	7.35	8.54	10.57	9.01	9.48	8.58	8.44
14	8.37	8.63	8.33	7.31	6.63	7.41	8.72	10.44	8.94	9.35	8.62	8.40
15	8.38	8.65	8.40	7.30	6.64	7.40	8.94	10.32	8.88	9.23	8.68	8.41
16	8.38	8.53	8.11	7.28	6.63	7.41	9.14	10.31	9.10	9.13	8.70	8.42
17	8.40	8.56	8.20	7.24	6.66	7.41	9.32	10.27	9.26	9.05	8.70	8.37
18	8.39	8.60	8.19	7.20	6.67	7.46	9.59	10.24	9.35	8.98	8.65	8.43
19	8.38	8.57	8.30	7.13	6.68	7.52	9.79	10.18	9.38	8.84	8.63	8.40
20	8.38	8.63	8.15	7.14	6.70	7.56	10.05	10.10	9.31	8.79	8.63	8.48
21	8.36	8.68	7.98	7.12	6.72	7.58	10.30	9.91	9.37	8.73	8.62	8.48
22	8.33	8.73	7.83	7.13	6.67	7.64	10.57	9.76	10.05	8.76	8.59	8.30
23	8.30	8.75	7.93	7.10	6.68	7.83	10.64	9.62	11.28	8.71	8.57	8.38
24	8.67	8.95	7.69	7.14	6.64	8.00	10.68	9.46	11.61	8.79	8.58	8.46
25	8.45	8.72	7.73	7.10	6.63	8.12	10.67	9.34	11.78	8.87	8.56	8.45
26	8.32	8.64	7.74	7.16	6.62	8.18	10.65	9.16	11.80	8.82	8.57	8.46
27	8.42	8.70	7.74	7.16	6.61	8.22	10.58	8.99	11.71	8.89	8.59	8.45
28	8.34	8.52	7.67	7.14	6.58	8.21	10.51	8.85	11.59	8.89	8.52	8.53
29	8.35	8.66	7.71	7.12	6.55	8.22	10.43	8.71	11.44	8.88	8.56	8.55
30	8.37	8.51	8.01	7.07	-----	8.26	10.37	8.65	11.34	8.88	8.58	8.45
31	8.45	-----	7.80	7.03	-----	8.31	-----	8.68	-----	8.86	8.60	-----
MEAN	8.39	8.53	8.13	7.32	6.72	7.51	9.40	10.07	9.82	9.52	8.65	8.45
MAX	8.67	8.95	8.55	7.81	7.00	8.31	10.68	10.92	11.80	11.17	8.85	8.61
MIN	8.27	8.24	7.67	7.03	6.55	6.53	8.39	8.65	8.79	8.71	8.52	8.30
CAL YR 1971	MEAN 8.37		MAX 9.98	MIN 6.16								
WTR YR 1972	MEAN 8.55		MAX 11.80	MIN 6.53								

04246500 ONEIDA RIVER AT CAUGHDENY, N.Y.

LOCATION.--Lat 43°14'49", long 76°10'12", Oswego County, on left bank at point of diversion to New York State Erie (Barge) Canal, 1.6 miles downstream from Oneida Lake, and 2.6 miles upstream from navigation dam at Caughdeny.

DRAINAGE AREA.--1,382 sq mi; 1902-9, 1,439 sq mi.

PERIOD OF RECORD.--September 1902 to December 1909 (published as "near Euclid"), January 1910 to December 1912, and October 1947 to current year in reports of Geological Survey. September 1902 to December 1902 and January 1910 to September 1925 in reports of State Engineer and Surveyor.

GAGE.--Base gage: Water-stage recorder. Datum of gage is 362.00 ft above mean sea level, Barge Canal datum. Prior to June 5, 1907, headwater readings, and June 5, 1907, to Dec. 31, 1909, nonrecording gage readings at former Oak Orchard State Dam 5.5 miles downstream at different datum. Jan. 1, 1910, to Dec. 31, 1912, nonrecording gage at site 2.5 miles downstream from present site, at different datum. From Oct. 9, 1947, to Nov. 7, 1951, water-stage recorder at site 2.5 miles downstream at present datum.

Auxiliary gage: Water-stage recorder at site 2.5 miles downstream, 350 ft upstream from navigation dam, at present datum (base gage site 1947-51).

Supplementary gage: Water-stage recorder at site 2.6 miles downstream, 180 ft downstream from navigation dam, at present datum.

AVERAGE DISCHARGE.--35 years (1902-12, 1947-72), 2,457 cfs.

EXTREMES.--Current year: Maximum daily discharge, 10,100 cfs June 25; minimum daily, 717 cfs Sept. 3, 5.

1947-72: Maximum daily discharge, 10,100 cfs June 25, 1972; minimum daily, 62 cfs July 29, 1950.

Period of record: Maximum daily discharge, 13,800 cfs Mar. 25-27, 1903; minimum daily, 52 cfs Oct. 24, 1910.

REMARKS.--Records fair.

Jan. 1, 1910, to Dec. 31, 1912: Flow over dam computed on basis of coefficient determined for model of dam of same general type; flow through gate and diversion through lock culverts estimated by theoretical calculations.

1947-72: Record represents total discharge at Caughdeny, including flow in Oneida and Erie (Barge) Canals. Considerable seasonal regulation by operation of gates in Oneida and Erie (Barge) Canals. A large amount of natural storage by Oneida Lake. Occasional large diurnal fluctuations caused by seiche in Oneida Lake. Water may be diverted into or received from Mohawk River basin through summit level of Erie (Barge) Canal between New London and Utica. Nearly all of flow from 14 sq mi of Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin.

COOPERATION.--Records of gate openings, lockages, and elevations of water surface in Erie (Barge) Canal above and below lock 23, furnished by New York State Department of Transportation.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,400	741	2,870	3,740	2,660	2,080	4,700	8,010	2,130	8,940	2,060	765
2	2,380	770	2,770	3,720	2,640	2,110	4,910	8,030	2,330	8,860	2,010	733
3	2,320	760	3,340	3,700	2,650	2,410	5,070	8,340	2,210	8,640	2,020	717
4	2,330	740	3,770	3,640	2,530	2,600	5,190	8,790	2,320	8,490	2,020	726
5	1,890	738	3,810	3,550	2,470	2,720	5,170	9,020	3,020	8,420	2,080	717
6	1,080	735	3,700	3,490	2,470	2,810	5,080	9,120	3,670	8,160	2,050	718
7	765	756	3,660	3,370	2,400	2,960	5,020	8,960	3,650	7,930	1,890	728
8	776	762	3,680	3,290	2,380	2,950	5,010	9,020	4,250	7,680	2,180	720
9	788	763	3,680	3,210	2,330	3,070	5,000	9,050	4,770	7,430	2,620	721
10	777	755	3,730	3,120	2,290	3,110	4,930	8,920	4,730	7,140	2,590	724
11	775	740	3,570	3,070	2,260	3,170	4,670	8,780	4,750	6,910	2,450	730
12	770	746	3,740	3,050	2,230	3,150	4,740	8,640	4,710	6,740	1,960	738
13	770	750	4,020	3,040	2,200	3,140	4,930	8,490	4,660	6,480	1,980	723
14	780	744	4,600	3,080	2,180	3,230	5,200	8,220	4,100	6,270	1,990	723
15	802	744	4,700	3,070	2,210	3,210	5,580	8,020	3,620	6,030	2,110	748
16	807	866	4,230	3,050	2,190	3,220	5,900	7,970	4,360	5,900	2,070	753
17	820	1,290	4,400	3,000	2,230	3,210	6,170	7,910	5,160	5,760	2,050	749
18	806	1,170	4,380	2,940	2,260	3,270	6,670	7,840	5,230	4,960	2,080	741
19	815	964	4,550	2,840	2,250	3,370	7,010	7,740	5,280	4,320	2,100	732
20	823	962	4,310	2,860	2,270	3,440	7,450	7,610	5,580	2,940	2,070	737
21	813	1,800	4,070	2,830	2,300	3,470	7,930	7,250	5,930	1,850	2,040	730
22	798	2,410	3,780	2,850	2,220	3,560	8,420	6,990	7,190	1,840	2,050	730
23	804	2,870	3,960	2,800	2,260	3,810	8,570	6,760	9,520	1,720	1,450	743
24	802	2,970	3,590	2,860	2,210	4,060	8,610	6,490	9,940	1,760	894	752
25	776	2,840	3,710	2,780	2,190	4,250	8,610	6,280	10,100	1,740	869	781
26	754	2,840	3,690	2,870	2,170	4,320	8,590	5,960	10,000	2,030	830	773
27	753	2,850	3,700	2,880	2,170	4,390	8,470	5,690	9,850	2,180	826	768
28	754	2,810	3,600	2,860	2,130	4,400	8,340	5,450	9,620	2,170	820	773
29	747	2,880	3,650	2,830	2,100	4,410	8,190	5,240	9,400	2,190	809	773
30	748	2,850	4,090	2,760	-----	4,470	8,090	3,370	9,230	2,120	782	762
31	751	-----	3,720	2,710	-----	4,560	-----	2,280	-----	2,080	783	-----
TOTAL	31,974	43,616	119,070	95,860	66,850	104,930	192,220	230,240	171,310	159,680	54,533	22,228
MEAN	1,031	1,454	3,841	3,092	2,305	3,385	6,407	7,427	5,710	5,151	1,759	741
MAX	2,400	2,970	4,700	3,740	2,660	4,560	8,610	9,120	10,100	8,940	2,620	781
MIN	747	735	2,770	2,710	2,100	2,080	4,670	2,280	2,130	1,720	782	717
CAL YR 1971	TOTAL	924,704	MEAN	2,533	MAX	7,320	MIN	240				
WTR YR 1972	TOTAL	1,292,511	MEAN	3,531	MAX	10,100	MIN	717				

STREAMS TRIBUTARY TO LAKE ONTARIO

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, N.Y.

LOCATION.--Lat 43°27'06", long 76°30'20", Oswego County, on right bank at lock 7 in Oswego, 0.8 mile upstream from mouth.

DRAINAGE AREA.--5,098 sq mi.

PERIOD OF RECORD.--October 1900 to April 1906, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1307. Prior to January 1904, published as "above Minetto" or "near Minetto". January 1904 to April 1906, published as "at Battle Island". Records for April 1897 to September 1900, published in WSP 65 and for October 1927 to September 1928 published in WSP 664, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 246.00 ft above mean sea level, Barge Canal datum. Prior to 1933, nonrecording gage at site about 6 miles upstream at different datum.

AVERAGE DISCHARGE.--39 years (1933-72), 6,374 cfs.

EXTREMES.--Current year: Maximum daily discharge, 32,300 cfs June 27; maximum gage height, 11.87 ft June 29, 30; minimum daily, 1,560 cfs Oct. 14; minimum gage height, 1.27 ft Nov. 6.

Period of record: Maximum discharge, 37,500 cfs Mar. 28, 1936, includes mean daily discharge of canals; maximum gage height, 13.46 ft Apr. 10, 1940; minimum discharge (river only), 30 cfs Nov. 6, 1944; minimum daily, 274 cfs Oct. 10, 1969; minimum gage height, 0.97 ft Aug. 24, 1934.

REMARKS.--Records good. This record represents total discharge at Oswego and includes flow in Hydraulic and Oswego (Barge) Canals. Prior to 1933, flow in Oswego (Barge) Canals not included. A large amount of natural storage and some artificial regulation is afforded by the many large lakes and the Erie (Barge) and Oswego (Barge) Canal systems in the river basin. Large diurnal fluctuations at low and medium flow by powerplants above station. Oswego River basin receives water from Erie (Barge) Canal through lock 32 near Pittsford. Water may be diverted into or received from Mohawk River basin through summit levels of Erie (Barge) Canal between New London and Utica. During part of year entire flow from 45.5 sq mi of Mud Creek drainage area may be diverted from Chemung River basin into Lake Keuka in Oswego River basin. Nearly all of flow from 14 sq mi of the Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin.

COOPERATION.--Records of lockages at lock 7 furnished by New York State Department of Transportation, record of elevations of Lake Ontario by Corps of Engineers, daily discharge records for High Dam by Niagara Mohawk Power Corp.

REVISIONS.--WRD N.Y. 1967: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,400	2,020	6,530	9,060	6,930	5,940	18,900	17,500	8,200	32,200	8,510	3,510
2	3,370	2,620	7,300	9,010	7,280	6,210	19,800	17,400	7,660	31,400	7,670	3,420
3	3,280	2,680	8,000	9,420	7,520	7,990	19,700	19,900	6,180	30,800	8,740	3,270
4	3,250	2,090	7,360	9,350	7,070	9,920	19,500	20,500	6,280	30,200	8,750	3,170
5	2,830	2,220	7,490	9,370	7,110	10,400	18,800	20,800	6,780	29,500	8,980	3,320
6	2,040	2,180	7,610	9,250	7,350	11,100	18,600	20,700	7,900	28,500	8,560	3,150
7	2,100	2,570	7,730	8,910	7,060	11,800	18,000	20,300	8,340	27,300	8,410	3,120
8	2,130	2,780	8,100	8,510	6,820	11,000	17,400	19,800	7,860	26,100	8,530	3,060
9	2,150	2,210	9,330	8,550	5,420	10,900	16,800	20,300	8,670	24,300	9,010	2,940
10	2,020	2,300	10,300	8,070	5,990	10,700	16,300	21,100	8,630	23,400	8,640	2,170
11	2,120	2,870	10,000	8,330	6,600	10,600	16,200	21,100	8,490	22,500	8,720	1,970
12	2,080	2,780	9,650	8,560	5,980	10,500	16,500	21,000	8,170	21,500	8,290	3,060
13	1,820	2,420	8,930	9,120	5,830	10,400	17,300	20,900	7,850	21,100	7,500	2,940
14	1,560	2,450	9,340	9,990	5,610	10,400	18,400	20,600	7,200	20,700	7,920	2,840
15	2,020	2,430	9,910	10,100	5,530	10,300	18,800	20,300	6,070	20,100	7,230	2,860
16	2,250	2,760	10,300	9,020	5,820	10,100	19,100	20,200	8,680	19,700	7,060	2,970
17	2,220	3,050	10,400	8,570	6,090	10,400	19,600	20,200	11,700	19,200	7,280	2,880
18	2,090	2,950	10,500	8,670	6,280	10,800	19,900	19,900	11,500	18,700	7,280	2,840
19	2,020	3,140	10,500	8,960	6,150	12,000	19,800	19,500	11,400	17,600	7,010	2,720
20	2,040	3,180	10,400	9,100	5,950	12,700	20,000	19,200	11,300	16,300	6,560	2,600
21	1,960	3,250	10,000	9,120	6,130	13,400	20,400	18,600	12,500	13,400	4,300	2,770
22	1,930	4,040	9,430	9,130	6,070	14,000	20,300	18,000	18,000	12,700	3,670	2,840
23	2,020	6,210	9,520	9,350	6,050	17,200	20,500	17,500	23,100	12,000	3,980	2,900
24	1,990	5,780	9,360	9,700	5,770	18,100	21,100	16,600	26,100	12,100	3,710	2,880
25	2,110	5,620	9,450	10,100	6,050	18,500	20,900	16,000	29,900	12,300	3,190	3,290
26	2,080	5,390	9,370	10,300	6,050	18,400	20,500	15,100	31,700	12,100	3,260	3,150
27	2,040	5,340	9,300	8,700	5,930	18,100	19,800	14,200	32,300	12,000	3,140	2,700
28	2,120	5,200	8,800	7,750	6,020	17,700	19,200	13,300	32,200	11,500	4,080	2,600
29	2,040	5,480	8,740	7,910	6,080	17,200	18,700	12,700	31,900	10,900	3,700	2,680
30	1,990	6,010	9,750	8,060	-----	17,600	18,200	10,400	32,100	9,750	3,740	2,970
31	2,050	-----	9,730	7,650	-----	18,200	-----	8,280	-----	9,670	3,530	-----
TOTAL	69,120	104,020	283,130	277,690	182,540	392,560	569,000	561,880	438,660	609,520	200,950	87,590
MFAN	2,230	3,467	9,133	8,958	6,294	12,660	18,970	18,130	14,620	19,660	6,482	2,920
MAX	3,400	6,210	10,500	10,300	7,520	18,500	21,100	21,100	32,300	32,200	9,010	3,510
MIN	1,560	2,020	6,530	7,650	5,420	5,940	16,200	8,280	6,070	9,670	3,140	1,970
CFSM	.44	.68	1.79	1.76	1.23	2.48	3.72	3.56	2.87	3.86	1.27	.57
IN.	.50	.76	2.07	2.03	1.33	2.86	4.15	4.10	3.20	4.45	1.47	.64

CAL YR 1971 TOTAL 2,717,050 MEAN 7,444 MAX 22,600 MIN 1,460 CFSM 1.46 IN 19.83
WTR YR 1972 TOTAL 3,776,660 MEAN 10,320 MAX 32,300 MIN 1,560 CFSM 2.02 IN 27.56

LAKE ONTARIO

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04249010 LAKE ONTARIO AT OSWEGO, N.Y.

LOCATION.--Lat 43°27'51", long 76°30'42", Oswego County, in southwest corner of Port of Oswego Authority building at mouth of Oswego River at Oswego.

PERIOD OF RECORD.--January 1860 to current year. Data prior to October 1960 in files of Lake Survey Center.

GAGE.--Water-stage recorder. Elevations are in feet above mean water level at Father Point, Quebec, International Great Lakes Datum (1955). Prior to Jan. 1, 1933, nonrecording gages.

EXTREMES.--Current year: Maximum elevation, 247.49 ft July 23; minimum, 242.96 ft Dec. 10.

Period of record: Maximum elevation observed, 248.96 ft June 6, 1952; minimum observed, 240.94 ft Dec. 23, 1934.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244.35	243.95	243.62	243.73	244.22	244.29	244.84	245.88	246.43	246.63	246.60	246.05
2	244.37	243.93	243.57	243.85	244.12	244.45	244.89	245.95	246.40	246.63	246.54	246.04
3	244.33	243.94	243.62	243.90	244.10	244.49	244.94	245.99	246.39	246.69	246.63	246.03
4	244.30	243.99	243.50	243.84	244.81	244.38	244.99	246.05	246.43	246.68	246.57	245.98
5	244.36	243.79	243.36	243.91	244.58	244.62	245.02	246.10	246.43	246.71	246.53	245.95
6	244.42	243.80	243.40	243.84	244.29	244.57	245.03	246.07	246.41	246.68	246.48	245.88
7	244.45	243.99	243.50	244.05	244.40	244.34	245.05	246.17	246.43	246.64	246.50	245.82
8	244.33	243.86	243.53	243.86	244.39	244.67	245.09	246.17	246.38	246.63	246.60	245.90
9	244.23	243.73	243.49	243.80	244.33	244.52	245.08	246.22	246.44	246.59	246.66	245.92
10	244.30	243.83	243.46	243.88	244.31	244.51	245.02	246.23	246.47	246.63	246.67	245.82
11	244.32	243.78	243.67	243.91	244.27	244.38	245.04	246.24	246.41	246.64	246.56	245.77
12	244.31	243.71	243.57	243.87	244.22	244.46	245.04	246.23	246.36	246.61	246.51	245.74
13	244.20	243.65	243.76	243.95	244.29	244.40	245.10	246.19	246.35	246.66	246.47	245.66
14	244.25	243.57	243.58	244.00	244.45	244.38	245.24	246.18	246.31	246.69	246.48	245.70
15	244.21	243.58	243.55	244.14	244.42	244.51	245.28	246.24	246.29	246.72	246.39	245.67
16	244.20	243.61	243.86	244.04	244.47	244.50	245.36	246.29	246.32	246.81	246.31	245.61
17	244.13	243.53	243.79	244.01	244.30	244.59	245.48	246.31	246.34	246.80	246.32	245.57
18	244.08	243.49	243.82	243.91	244.23	244.71	245.46	246.31	246.29	246.76	246.34	245.58
19	244.06	243.54	243.66	244.11	244.47	244.63	245.53	246.35	246.26	246.76	246.33	245.57
20	244.03	243.54	243.72	244.04	244.62	244.59	245.63	246.35	246.22	246.73	246.30	245.39
21	244.01	243.72	243.88	244.08	244.33	244.57	245.62	246.36	246.26	246.80	246.25	245.32
22	244.00	243.75	243.86	243.95	244.56	244.68	245.55	246.38	246.47	246.79	246.22	245.42
23	244.01	243.60	243.62	244.14	244.27	244.81	245.69	246.35	246.41	246.82	246.23	245.27
24	243.91	243.46	243.86	244.05	244.38	244.86	245.76	246.36	246.49	246.85	246.22	245.19
25	243.98	243.56	243.74	244.57	244.28	244.88	245.79	246.35	246.50	246.87	246.23	245.20
26	243.98	243.54	243.76	244.40	244.39	244.97	245.80	246.32	246.51	246.91	246.19	245.17
27	243.91	243.48	243.68	244.27	244.32	244.86	245.84	246.32	246.52	246.83	246.16	245.23
28	243.95	243.60	243.83	244.31	244.35	244.84	245.86	246.31	246.52	246.82	246.25	245.11
29	243.95	243.45	243.86	244.25	244.33	244.79	245.88	246.28	246.52	246.75	246.22	245.11
30	243.93	243.69	243.72	244.31	-----	244.80	245.89	246.27	246.62	246.66	246.19	245.35
31	243.91	-----	243.82	244.25	-----	244.84	-----	246.38	-----	246.60	246.10	-----
MEAN	244.15	243.69	243.67	244.04	244.36	244.61	245.36	246.23	246.41	246.72	246.39	245.60
MAX	244.45	243.99	243.88	244.57	244.81	244.97	245.89	246.38	246.62	246.91	246.67	246.05
MIN	243.91	243.45	243.36	243.73	244.10	244.29	244.84	245.88	246.22	246.59	246.10	245.11
CAL YR 1971	MEAN 244.63		MAX 245.67	MIN 243.36								
WTR YR 1972	MEAN 245.10		MAX 246.91	MIN 243.36								

STREAMS TRIBUTARY TO LAKE ONTARIO

04250750 SANDY CREEK NEAR ADAMS, N.Y.

LOCATION.--Lat 43°48'48", long 76°04'30", Jefferson County, on left bank 250 ft upstream from highway bridge on Liberty Street (revised), 0.2 mile downstream from tributary, 2.5 miles downstream from Adams, and 10.0 miles upstream from mouth.

DRAINAGE AREA.--128 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 523.71 ft above mean sea level.

AVERAGE DISCHARGE.--15 years, 241 cfs (25.57 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,510 cfs July 16 (gage height, 7.61 ft); minimum, 19 cfs Oct. 23, 24 (gage height, 1.13 ft).
Period of record: Maximum discharge, 11,800 cfs Apr. 4, 1963 (gage height, 11.01 ft), from rating curve extended above 5,500 cfs on basis of slope-area measurement of peak flow; minimum, 1.5 cfs Sept. 17, 18, 1963, Aug. 19, 1964; minimum daily, 2.2 cfs Sept. 7, 11, 1960, Sept. 17, 1963, Aug. 16, Sept. 22, 1964.

REMARKS.--Records good except those for winter periods, which are poor. Moderate diurnal fluctuation at low flow caused by mills above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	22	273	200	200	250	739	330	832	793	135	38
2	32	22	157	200	210	400	917	471	505	368	120	35
3	27	22	199	160	210	800	743	1,310	259	982	138	33
4	26	57	182	130	190	960	580	839	191	886	120	33
5	31	160	128	110	180	960	434	818	198	458	98	31
6	32	131	169	110	170	760	381	523	136	311	86	28
7	36	292	424	120	170	660	325	505	113	236	110	26
8	36	202	495	130	160	800	293	399	107	183	567	28
9	33	113	608	150	190	920	286	343	255	148	254	42
10	33	107	1,300	170	240	840	321	285	207	185	176	36
11	39	142	1,370	200	260	740	448	238	154	451	131	30
12	56	134	695	220	230	660	607	207	113	232	112	26
13	45	173	454	280	280	550	1,500	179	96	163	104	25
14	37	151	339	440	260	336	2,140	165	86	576	116	27
15	33	134	369	280	220	297	1,850	179	87	520	124	26
16	29	207	909	210	210	279	1,990	466	274	2,250	94	24
17	27	188	505	170	220	392	2,060	370	131	916	86	22
18	25	173	354	190	200	489	1,720	285	84	492	100	30
19	24	253	200	280	150	399	1,660	214	68	329	103	46
20	23	543	220	560	130	325	1,570	174	60	261	79	34
21	22	426	250	350	120	309	1,070	162	94	217	65	27
22	21	383	200	300	110	900	812	141	2,490	188	57	23
23	20	253	160	900	110	1,370	863	118	1,050	279	51	22
24	20	189	140	700	110	925	661	102	813	546	50	26
25	23	189	240	560	120	700	521	87	459	382	47	33
26	30	176	220	350	130	557	438	78	377	337	43	31
27	31	183	210	280	170	470	375	69	277	460	44	38
28	29	246	855	240	190	394	354	61	213	337	80	36
29	26	246	413	220	210	360	337	55	166	250	79	30
30	23	396	180	210	-----	535	331	90	574	197	55	86
31	22	-----	140	200	-----	587	-----	667	-----	160	44	-----
TOTAL	931	5,913	12,358	8,620	5,350	18,924	26,326	9,930	10,469	14,093	3,468	972
MEAN	30.0	197	399	278	184	610	878	320	349	455	112	32.4
MAX	56	543	1,370	900	280	1,370	2,140	1,310	2,490	2,250	567	86
MIN	20	22	128	110	110	250	286	55	60	148	43	22
CFSM	.23	1.54	3.12	2.17	1.44	4.77	6.86	2.50	2.73	3.55	.88	.25
IN.	.27	1.72	3.59	2.51	1.55	5.50	7.65	2.89	3.04	4.10	1.01	.28

CAL YR 1971 TOTAL 97,841.3 MEAN 268 MAX 2,500 MIN 6.0 CFSM 2.09 IN 28.44
WTR YR 1972 TOTAL 117,354.0 MEAN 321 MAX 2,490 MIN 20 CFSM 2.51 IN 34.11

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
6-22	1000	7.17	4,070	7-16	0730	7.61	4,510

STREAMS TRIBUTARY TO LAKE ONTARIO

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04252000 BLACK RIVER CANAL (FLOWING SOUTH) NEAR BOONVILLE, N.Y.

LOCATION.--Lat 43°27'21", long 75°19'27", Oneida County, on left bank at former lock 69, 200 ft downstream from bridge on State Highway 46, 2.0 miles south of Boonville.

PERIOD OF RECORD.--September 1915 to current year (canal seasons only prior to October 1942 and since October 1957).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,105.56 ft above mean sea level. Prior to June 7, 1929, station was operated as a slope station on summit level of canal. Auxiliary water-stage recorder with concrete control on right bank of Lansing Kill spillway, 100 ft downstream from spillway and headgate, 600 ft upstream from lock 70, and 0.3 mile upstream from lock 69.

EXTREMES.--1915 to current year: Maximum daily discharge recorded, 323 cfs Nov. 1915; practically no flow at times when no water is being diverted.

REMARKS.--Records fair above 1 cfs and poor below. This record shows combined flow in Black River Canal and Lansing Kill spillway, and represents total diversion from Black River at Forestport, through Forestport feeder, into Mohawk River basin. Discharge during periods when no water was diverted, made up of leakage through headgates and runoff from area draining into canal above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	34	.68			-	.21	.97	32	6.8	1.9	5.2
2	35	38	.68			-	.21	1.3	22	3.6	2.3	5.2
3	36	42	.68			-	.16	20	13	4.3	4.7	4.5
4	35	38	.68			-	.21	5.8	11	7.0	4.9	3.9
5	35	38	.68			-	.16	2.2	9.1	3.9	3.3	3.1
6	36	37	.61			-	.16	.86	6.9	2.2	2.8	3.6
7	37	38	.73			-	.16	1.1	5.8	1.8	7.3	3.4
8	37	38	.79			-	.21	.91	6.2	1.9	9.8	3.9
9	37	24	.72			-	.21	1.2	23	1.7	8.4	4.3
10	38	8.9	-			-	.21	1.0	17	2.2	7.9	3.7
11	39	8.3	-			-	.27	.91	10	3.6	7.3	3.2
12	39	8.1	-			-	.27	.81	6.8	2.2	7.4	3.4
13	37	9.7	-			-	.29	.91	5.8	1.8	7.3	3.4
14	36	9.2	-			-	.42	1.1	5.3	1.9	7.3	3.4
15	35	5.1	-			-	.33	2.6	7.2	3.1	7.3	2.9
16	37	3.3	-			-	.61	5.8	30	7.7	6.9	2.6
17	40	2.8	-			-	9.0	7.8	15	7.7	6.6	1.9
18	34	2.8	-			-	15	3.1	7.9	4.7	7.2	1.6
19	34	3.0	-			-	10	.81	5.3	3.6	7.2	3.4
20	33	4.8	-			-	16	.79	5.5	2.9	6.9	2.3
21	33	4.3	-			-	4.2	.66	11	2.8	6.3	1.6
22	34	2.3	-			-	1.8	.59	66	2.8	6.0	1.4
23	34	.96	-			-	2.4	.79	18	3.2	5.8	1.1
24	34	.96	-			-	1.4	4.5	11	3.4	5.8	1.3
25	34	.81	-			-	1.2	10	6.3	3.7	5.6	1.4
26	34	.81	-			-	1.1	11	4.3	4.4	5.8	1.2
27	34	.81	-			.11	1.0	11	3.2	4.0	6.4	1.5
28	33	.76	-			.11	1.0	10	2.6	3.0	6.4	1.5
29	34	.76	-			.16	.87	9.8	2.2	2.6	5.8	.99
30	34	.76	-		-----	.16	.93	9.8	4.3	2.3	5.3	.54
31	34	-----	-		-----	.16	-----	16	-----	2.1	5.3	-----
TOTAL	1,098	406.23	-	-	-	-	69.99	144.11	373.7	108.9	189.2	81.43
MEAN	35.4	13.5	-	-	-	-	2.33	4.65	12.5	3.51	6.10	2.71
MAX	40	42	-	-	-	-	16	20	66	7.7	9.8	5.2
MIN	33	.76	-	-	-	-	.16	.59	2.2	1.7	1.9	.54

STREAMS TRIBUTARY TO LAKE ONTARIO

04252500 BLACK RIVER NEAR BOONVILLE, N.Y.

LOCATION.--Lat 43°30'42", long 75°18'25", Oneida County, on left bank at downstream side of highway bridge on Moose River Road, 0.8 mile upstream from Sugar River and 2 miles northeast of Boonville.

DRAINAGE AREA.--295 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 935.50 ft above mean sea level. Prior to Sept. 27, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--61 years, 676 cfs.

EXTREMES.--Current year: Maximum discharge, 11,700 cfs May 3 (gage height, 10.65 ft); minimum, 212 cfs Nov. 16, 17; minimum gage height, 4.06 ft Sept. 8; minimum daily, 218 cfs Nov. 17.

Period of record: Maximum discharge, 12,400 cfs Mar. 28, 1913 (gage height, about 12.5 ft, from floodmarks); minimum observed, about 5 cfs Aug. 26, 1918 (gage height, 2.40 ft); minimum daily, 7 cfs Aug. 26, 1918.

REMARKS.--Records good except those for winter periods, which are fair. Occasional regulation by several headwater reservoirs. Forestport feeder diverts water from State Pond at Forestport 9 miles upstream. That portion of diverted water which does not pass Black River Canal (flowing south), see station 04252000, returns to Black River below station through Mill Creek sluiceway. Slight diurnal fluctuation at medium and low flow caused by mill above station.

REVISIONS (WATER YEARS).--WSP 759: Drainage area. WSP 784: 1934. WSP 1084: 1912(M), 1913, 1917-1919(M), 1922(M), 1924(M), 1926(M), 1928(M), 1930(M), 1933(M). WSP 1307: 1914(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	409	268	445	590	540	440	916	3,780	2,250	1,080	378	292
2	341	341	352	673	540	470	978	4,580	2,260	920	386	274
3	334	530	395	640	540	980	923	8,490	1,350	908	718	256
4	334	495	540	612	600	1,200	825	8,890	1,040	1,540	800	250
5	348	475	620	535	600	1,300	712	6,540	968	1,170	625	247
6	338	436	427	404	580	1,300	695	4,180	800	884	500	235
7	363	455	490	410	580	1,200	651	3,590	665	701	586	229
8	359	485	596	420	580	1,100	612	3,480	655	600	696	247
9	359	450	618	420	540	1,000	590	3,180	1,570	568	675	327
10	387	445	760	430	500	900	590	3,000	1,680	635	630	306
11	470	422	1,380	430	500	860	612	2,210	1,070	1,050	541	268
12	505	334	1,910	450	500	760	601	1,700	842	1,020	478	247
13	515	352	1,400	500	520	720	819	1,450	740	818	442	253
14	475	367	963	580	520	680	1,520	1,340	680	767	473	299
15	440	334	897	540	520	660	1,660	1,560	645	767	532	302
16	436	261	1,740	520	520	700	1,740	2,140	1,760	1,070	433	277
17	418	218	2,130	540	520	800	2,550	2,210	2,090	1,030	382	265
18	400	224	1,330	600	500	1,100	3,460	1,720	1,290	830	398	271
19	387	282	806	660	470	1,300	3,700	1,450	1,010	696	442	478
20	395	530	799	660	450	1,300	4,450	1,260	1,110	620	394	464
21	436	806	780	640	440	1,200	4,630	1,090	1,160	532	342	342
22	418	736	651	600	440	1,300	3,780	938	2,910	482	309	280
23	404	590	470	640	440	1,930	3,460	806	3,270	734	292	259
24	391	436	612	820	440	1,910	3,060	712	2,280	1,000	286	280
25	395	465	660	900	440	1,560	2,790	655	1,900	902	286	346
26	391	445	680	940	440	1,230	2,680	586	1,390	908	274	342
27	383	445	695	880	440	1,010	2,390	550	1,050	745	274	382
28	359	450	760	720	440	871	2,400	523	878	610	374	386
29	334	465	780	620	440	812	2,610	496	789	523	464	338
30	306	495	780	580	-----	884	3,090	478	866	451	386	625
31	289	-----	590	560	-----	910	-----	884	-----	406	323	-----
TOTAL	12,119	13,037	26,056	18,514	14,580	32,387	59,494	74,468	40,968	24,967	14,119	9,367
MEAN	391	435	841	597	503	1,045	1,983	2,402	1,366	805	455	312
MAX	515	806	2,130	940	600	1,930	4,630	8,890	3,270	1,540	800	625
MIN	289	218	352	404	440	440	590	478	645	406	274	229

CAL YR 1971 TOTAL 303,409 MEAN 831 MAX 4,360 MIN 161
WTR YR 1972 TOTAL 340,076 MEAN 929 MAX 8,890 MIN 218

PEAK DISCHARGE (BASE, 3,900 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-21	0200	8.74	4,990	5-03	2115	10.65	11,700

STREAMS TRIBUTARY TO LAKE ONTARIO

241

04253500 MIDDLE BRANCH MOOSE RIVER AT OLD FORGE, N.Y.

LOCATION.--Lat 43°42'50", long 74°58'10", Herkimer County, on left bank in Old Forge, 150 ft downstream from bridge on State Highway 28, 250 ft downstream from dam on First Lake (revised), and 1.2 miles upstream from North Branch Moose River.

DRAINAGE AREA.--52.1 sq mi.

PERIOD OF RECORD.--October 1911 to current year. Monthly discharge only for October 1911, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 1,690.63 ft above mean sea level. Prior to Oct. 10, 1963, nonrecording gage at site 150 ft downstream at same datum. From Oct. 10, 1963, to Jan. 11, 1966, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--61 years, 104 cfs.

EXTREMES.--Current year: Maximum daily discharge, 750 cfs June 17; maximum gage height observed, 4.80 ft June 17; minimum daily discharge, 6.0 cfs Apr. 19.

Period of record: Maximum daily discharge, 862 cfs Mar. 23, 1921, from rating curve extended above 450 cfs; minimum daily, 0.04 cfs Mar. 20, 21, 24, 1968.

REMARKS.--Records good except those for period of backwater from North Branch Moose River, which are poor. Flow regulated by Fulton Chain of Lakes since about 1880, now by dams on First Lake (formerly Old Forge Lake) at Old Forge and on Sixth Lake at Inlet (combined capacity, about 1.2 billion cu ft with 12-inch flashboards at Old Forge).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	137	118	151	105	180	150	9.0	201	120	74	126
2	34	139	118	151	107	180	150	9.0	230	120	63	57
3	82	142	118	151	109	180	150	250	230	120	54	60
4	164	142	118	151	115	170	150	300	197	139	55	61
5	164	142	116	151	111	170	150	250	120	208	55	45
6	164	142	118	150	111	170	150	9.0	116	295	55	26
7	164	142	118	148	109	170	140	9.0	115	188	55	26
8	164	142	118	147	109	170	140	80	116	172	57	26
9	164	144	118	144	104	170	140	92	116	120	55	26
10	162	144	118	144	110	170	140	50	118	37	56	26
11	160	144	118	143	112	170	140	20	115	61	56	25
12	162	144	118	142	111	170	140	19	116	88	56	172
13	162	142	118	142	130	170	140	25	120	186	56	227
14	160	142	120	140	190	170	140	25	93	257	57	227
15	160	140	120	136	190	170	140	25	69	245	99	225
16	158	110	120	128	190	160	140	56	154	250	139	223
17	158	69	120	139	190	160	140	97	750	250	137	223
18	156	69	113	134	190	160	60	93	426	245	139	223
19	156	69	110	126	190	160	6.0	100	426	245	88	155
20	153	69	118	118	190	160	9.0	104	381	155	55	113
21	153	69	123	103	190	160	9.0	123	343	71	55	110
22	153	70	123	103	190	160	9.0	124	387	72	40	100
23	151	70	123	103	190	160	9.0	97	471	78	17	106
24	149	70	138	103	190	160	9.0	74	582	78	19	109
25	149	69	149	103	190	160	9.0	72	582	77	30	109
26	149	70	149	104	180	150	9.0	72	540	76	75	107
27	149	70	149	107	180	150	8.0	74	510	77	95	107
28	147	70	149	111	180	150	8.0	36	454	76	178	103
29	147	99	149	113	180	150	8.0	13	420	77	184	107
30	142	116	150	113	-----	150	9.0	13	257	76	182	109
31	139	-----	151	109	-----	150	-----	42	-----	75	178	-----
TOTAL	4,514	3,287	3,906	4,008	4,443	5,080	2,602.0	2,362.0	8,755	4,334	2,514	3,359
MEAN	146	110	126	129	153	164	86.7	76.2	292	140	81.1	112
MAX	164	144	151	151	190	180	150	300	750	295	184	227
MIN	34	69	110	103	104	150	6.0	9.0	69	37	17	25

CAL YR 1971 TOTAL 42,537.6 MEAN 117 MAX 476 MIN 8.0
WTR YR 1972 TOTAL 49,164.0 MEAN 134 MAX 750 MIN 6.0

NOTE.--Doubtful or no gage-height record June 16 to July 12.

STREAMS TRIBUTARY TO LAKE ONTARIO

04256000 INDEPENDENCE RIVER AT DONNATTSBURG, N.Y.

LOCATION.--Lat 43°44'50", long 75°20'05", Lewis County, on right bank at downstream side of highway bridge on Donnattsburg Road at Donnattsburg, 1.2 miles downstream from Chase Lake Outlet, 4.2 miles northeast of Glenfield, and 5.0 miles upstream from mouth.

DRAINAGE AREA.--91.7 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 972.84 ft above mean sea level. Prior to Sept. 16, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--30 years, 183 cfs (27.08 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,630 cfs May 3 (gage height, 7.81 ft); minimum, 31 cfs Sept. 24 (gage height, 3.06 ft).
Period of record: Maximum discharge, 3,450 cfs May 20, 1969 (gage height, 8.72 ft) from rating curve extended above 2,000 cfs; minimum observed, 18 cfs Sept. 17, 1948, Aug. 4, 5, 1949 (gage height, 2.85 ft).

REMARKS.--Records good except those for winter periods, which are poor. Water-quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	42	98	120	170	70	231	581	498	267	61	49
2	40	43	104	120	150	70	255	645	889	236	56	42
3	38	55	137	120	130	80	248	2,050	455	199	67	37
4	38	81	127	110	110	110	217	1,870	283	261	79	36
5	36	106	200	110	110	180	189	1,370	233	225	67	34
6	37	111	205	110	100	170	172	913	183	173	58	33
7	40	172	102	110	110	150	155	675	149	140	69	32
8	43	222	120	110	110	140	145	615	133	113	97	34
9	44	175	134	110	120	130	134	472	205	95	107	38
10	44	139	214	100	130	120	132	391	239	93	95	41
11	57	118	498	100	140	110	137	321	188	173	79	40
12	84	104	763	100	150	100	137	270	151	181	69	35
13	102	98	406	100	160	96	211	239	126	126	64	34
14	88	88	290	110	170	96	418	222	113	109	69	34
15	72	86	245	130	150	96	534	280	105	107	75	35
16	60	86	310	220	120	100	625	349	577	140	69	36
17	54	100	422	300	100	120	811	398	740	153	65	35
18	48	113	317	350	90	170	1,040	357	328	120	70	34
19	44	161	200	200	86	190	1,140	293	199	95	79	35
20	42	335	191	150	88	170	1,330	236	158	80	72	34
21	40	335	177	140	90	160	1,260	219	161	72	61	35
22	39	251	146	150	92	170	925	191	587	65	53	34
23	37	191	110	120	92	300	729	158	769	84	46	32
24	37	145	130	130	90	387	635	137	548	149	45	33
25	42	129	130	150	84	418	562	120	426	144	49	37
26	51	113	130	250	80	368	521	98	353	128	48	37
27	60	104	120	400	76	280	481	86	321	156	49	41
28	57	100	130	350	72	239	464	75	248	140	62	37
29	51	96	150	310	70	214	498	68	197	107	93	36
30	46	102	170	250	-----	197	543	63	188	86	82	48
31	44	-----	150	200	-----	205	-----	137	-----	69	61	-----
TOTAL	1,559	4,001	6,626	5,330	3,240	5,406	14,879	13,899	9,750	4,286	2,116	1,098
MEAN	50.3	133	214	172	112	174	496	448	325	138	68.3	36.6
MAX	102	335	763	400	170	418	1,330	2,050	889	267	107	49
MIN	36	42	98	100	70	70	132	63	105	65	45	32
CFSM	.55	1.45	2.33	1.88	1.22	1.90	5.41	4.89	3.54	1.50	.74	.40
IN.	.63	1.62	2.69	2.16	1.31	2.19	6.04	5.64	3.96	1.74	.86	.45

CAL YR 1971 TOTAL 69,773 MEAN 191 MAX 1,410 MIN 23 CFSM 2.08 IN 28.30
WTR YR 1972 TOTAL 72,190 MEAN 197 MAX 2,050 MIN 32 CFSM 2.15 IN 29.29

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-21	0200	6.42	1,480	5-03	1730	7.81	2,630

04256500 STILLWATER RESERVOIR NEAR BEAVER RIVER, N.Y.

LOCATION.--Lat 43°53'50", long 75°03'05", Herkimer County, in gatehouse at Stillwater Dam on Beaver River, 2.5 miles upstream from Moshier Creek and 7.5 miles west of Beaver River Post Office.

DRAINAGE AREA.--172 sq mi.

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, compiled in WSP 824.

GAGE.--Nonrecording gage read once daily and prior to reservoir gate changes. Datum of gage is at mean sea level, adjustment of 1912.

EXTREMES.--Current year: Maximum observed elevation, 1,679.40 ft June 25 (contents, 4,742,000,000 cu ft); minimum observed, 1,659.50 ft Apr. 13 (contents, 764,000,000 cu ft).

Period of record: Maximum observed elevation, 1,680.08 ft May 20, 1969 (contents, 4,939,000,000 cu ft); minimum observed since first filling, 1,644.80 ft Mar. 25-27, 1949 (contents, 8,000,000 cu ft).

REMARKS.--Reservoir originally formed about 1885; enlarged at various times and in 1924 enlarged to a usable capacity of 4,623,000,000 cu ft 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, 90,000,000 cu ft, 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 furnished by Board of Hudson River-Black River Regulating District.

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

1,658.0	604
1,660.0	821
1,665.0	1,518
1,670.0	2,431
1,675.0	3,556
1,680.0	4,916

ELEVATION, IN FEET, AT 0800, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70.15	67.38	67.28	71.02	69.24	63.28	60.87	70.55	78.98	79.02	77.97	76.19
2	70.18	67.25	67.25	71.15	69.11	63.09	60.79	71.32	79.28	78.93	77.85	76.14
3	70.23	67.14	67.22	71.28	68.94	63.10	60.71	72.69	79.34	78.85	77.69	76.10
4	70.26	67.03	67.27	71.27	68.92	63.03	60.69	74.06	79.34	78.87	77.58	76.04
5	70.05	66.98	67.33	71.28	68.77	63.01	60.68	75.07	79.33	78.85	77.45	76.00
6	69.87	66.87	67.40	71.25	68.61	62.98	60.56	75.82	79.25	78.79	77.30	75.94
7	69.67	66.82	67.40	71.22	68.46	62.88	60.54	76.41	79.17	78.70	77.21	75.90
8	69.47	66.75	67.38	71.27	68.30	62.78	60.34	77.00	79.08	78.61	77.08	75.85
9	69.46	66.69	67.39	71.34	68.11	62.61	60.15	77.17	79.05	78.51	76.98	75.84
10	69.49	66.59	67.46	71.42	67.93	62.41	59.98	77.42	79.03	78.41	76.85	75.80
11	69.56	66.50	67.69	71.40	67.75	62.17	59.81	77.63	78.94	78.44	76.71	75.74
12	69.38	66.40	68.07	71.26	67.55	61.94	59.65	77.80	78.86	78.47	76.59	75.69
13	69.23	66.45	68.39	71.14	67.38	61.78	59.50	77.93	78.77	78.44	76.44	75.56
14	69.05	66.51	68.59	71.08	67.14	61.61	59.73	78.03	78.74	78.43	76.45	75.48
15	68.89	66.57	68.72	70.98	66.95	61.50	59.98	78.18	78.71	78.44	76.45	75.40
16	68.86	66.47	68.84	70.88	66.73	61.39	60.67	78.34	78.87	78.50	76.43	75.30
17	68.91	66.38	69.14	70.76	66.46	61.32	61.45	78.50	79.02	78.52	76.41	75.20
18	68.94	66.28	69.44	70.63	66.18	61.33	62.39	78.70	79.05	78.51	76.39	75.14
19	68.72	66.21	69.64	70.52	65.91	61.33	63.30	78.77	79.04	78.46	76.38	75.08
20	68.52	66.43	69.84	70.42	65.70	61.29	64.42	78.80	79.02	78.42	76.36	74.98
21	68.31	66.67	69.90	70.34	65.46	61.22	65.41	78.80	79.01	78.34	76.32	74.88
22	68.12	66.81	69.96	70.21	65.21	61.09	66.16	78.80	79.19	78.29	76.28	74.76
23	68.09	66.86	69.97	70.11	64.98	61.29	66.81	78.80	79.34	78.33	76.24	74.70
24	68.14	66.86	70.05	70.02	64.75	61.43	67.36	78.80	79.38	78.42	76.28	74.60
25	68.17	66.92	70.23	69.92	64.52	61.50	67.85	78.80	79.40	78.47	76.21	74.54
26	67.94	67.02	70.35	69.88	64.31	61.49	58.30	78.74	79.39	78.48	76.19	74.47
27	67.76	67.11	70.49	69.81	64.09	61.42	68.71	78.73	79.34	78.46	76.15	74.40
28	67.56	67.18	70.53	69.71	63.85	61.31	69.09	78.72	79.26	78.38	76.20	74.32
29	67.35	67.27	70.63	69.61	63.56	61.19	69.49	78.69	79.17	78.30	76.25	74.23
30	67.33	67.29	70.73	69.49	-----	61.07	69.94	78.66	79.10	78.22	76.24	74.23
31	67.36	-----	70.89	69.37	-----	60.97	-----	78.72	-----	78.08	76.21	-----
MEAN	68.87	66.79	68.89	70.65	66.72	61.90	63.18	77.30	79.12	78.51	76.68	75.28
MAX	70.26	67.38	70.89	71.42	69.24	63.28	69.94	78.80	79.40	79.02	77.97	76.19
MIN	67.33	66.21	67.22	69.37	63.56	60.97	59.50	70.55	78.71	78.08	76.15	74.23
(#)	1,925	1,908	2,635	2,286	1,267	931	2,502	4,594	4,640	4,346	3,860	3,375
(#)	-215	-6.57	+271	-130	-407	-125	+606	+781	+17.7	-110	-181	-187

CAL YR 1971 MEAN 70.77 MAX 79.68 MIN 60.62 # -19.7

WTR YR 1972 MEAN 71.18 MAX 79.40 MIN 59.50 # +27.7

* Contents in millions of cubic feet, at 2400 on last day of month by interpolation.

Change in contents, equivalent in cubic feet per second.

NOTE.--Add 1,600 to obtain elevations above mean sea level.

STREAMS TRIBUTARY TO LAKE ONTARIO

04257000 BEAVER RIVER BELOW STILLWATER DAM, NEAR BEAVER RIVER, N.Y.

LOCATION.--Lat 43°53'50", long 75°03'05", Herkimer County, in gatehouse at Stillwater Dam, 2.5 miles upstream from Moshier Creek and 7.5 miles west of Beaver River Post Office.

DRAINAGE AREA.--172 sq mi.

PERIOD OF RECORD.--May 1908 to current year. Published as "at State dam, near Beaver River" prior to June 1924.

GAGE.--Nonrecording gage read once daily and after reservoir gate changes. Datum of gage is at mean sea level, adjustment of 1912. Prior to June 1, 1924, nonrecording gage at present site and datum. June 1, 1924, to Nov. 14, 1929, nonrecording gage at site 1,000 ft downstream at same datum.

AVERAGE DISCHARGE.--64 years, 363 cfs (unadjusted).

EXTREMES.--Current year: Maximum daily discharge, 955 cfs June 25; minimum daily, 14 cfs Apr. 16-19.

Period of record: Maximum discharge, about 3,700 cfs May 3, 1926; practically no flow at times when gates in dam were closed.

REMARKS.--Records poor. Flow regulated by Stillwater Reservoir (see station 04256500). Discharge determined from ratings for gates and spillway of Stillwater Dam applied to log of reservoir elevation and gate operation.

COOPERATION.--Records of gate openings and reservoir elevations furnished by Board of Hudson River-Black River Regulating District.

REVISIONS (WATER YEARS).--WSP 714: Drainage area. WRD N.Y. 1967: 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	564	251	258	20	511	232	522	16	388	914	630	235
2	21	366	258	20	550	231	526	16	590	911	705	235
3	21	366	189	191	569	231	457	16	673	739	719	234
4	368	365	20	276	568	442	419	16	673	655	620	234
5	541	365	20	276	567	548	419	16	673	653	617	234
6	540	364	179	276	566	548	418	16	671	652	616	234
7	538	363	259	201	563	547	467	16	667	650	615	234
8	470	362	259	20	561	594	519	468	663	648	614	234
9	117	362	259	20	560	632	520	800	661	645	613	234
10	21	361	257	191	558	687	513	375	661	642	612	233
11	364	361	260	429	556	681	509	307	659	543	610	233
12	533	261	155	504	555	598	506	309	655	492	609	374
13	532	20	20	502	594	528	504	311	500	492	359	395
14	531	20	91	502	613	527	506	313	418	492	235	322
15	401	247	266	501	611	461	178	317	417	492	235	322
16	21	361	266	501	663	427	14	320	420	493	235	322
17	21	361	110	499	688	425	14	325	424	494	235	321
18	358	360	20	499	684	425	14	523	426	494	235	321
19	525	264	20	498	679	422	14	632	426	493	235	321
20	523	20	187	497	675	420	15	633	426	492	235	321
21	521	20	270	496	671	477	15	633	524	491	235	320
22	353	240	271	500	610	527	15	530	667	489	235	320
23	20	344	208	513	580	528	15	418	770	489	235	319
24	20	250	20	518	576	532	15	418	948	488	368	319
25	355	20	20	517	571	534	15	418	955	488	312	318
26	521	20	20	517	568	536	15	380	951	536	235	318
27	519	20	189	516	346	536	15	323	934	560	234	318
28	517	20	274	515	235	535	15	322	923	596	235	317
29	371	179	274	514	233	533	16	322	919	637	235	316
30	20	258	248	513	-----	531	16	321	916	635	235	120
31	20	-----	20	512	-----	529	-----	322	-----	632	235	-----
TOTAL	10,247	7,171	5,167	12,054	16,281	15,404	7,206	10,152	19,598	18,127	12,378	8,578
MEAN	331	239	167	389	561	497	240	327	653	585	399	286
MAX	564	366	274	518	688	687	526	800	955	914	719	395
MIN	20	20	20	20	233	231	14	16	388	488	234	120

CAL YR 1971 TOTAL 153,296.0 MEAN 420 MAX 2,850 MIN 6.0
WTR YR 1972 TOTAL 142,363.0 MEAN 389 MAX 955 MIN 14

STREAMS TRIBUTARY TO LAKE ONTARIO

245

04258000 BEAVER RIVER AT CROGHAN, N.Y.

LOCATION.--Lat 43°53'50", long 75°24'16", Lewis County, on left bank 1,200 ft upstream from Black Creek and 0.5 mile west of Croghan.

DRAINAGE AREA.--294 sq mi.

PERIOD OF RECORD.--September 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 806.20 ft above mean sea level.

AVERAGE DISCHARGE.--42 years, 565 cfs.

EXTREMES.--Current year: Maximum discharge, 2,090 cfs May 4 (gage height, 4.71 ft); minimum, 36 cfs Dec. 26, 27 (gage height, 0.98 ft); minimum daily, 37 cfs Dec. 26.

Period of record: Maximum discharge, 5,100 cfs May 21, 1969 (gage height, 6.98 ft); minimum, 11 cfs Jan. 22, 29, Feb. 4, 1967 (gage height, 0.63 ft); minimum daily, 22 cfs July 18, 1965.

REMARKS.--Records good. 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.

REVISIONS.--WSP 759: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	435	500	554	91	717	720	937	647	577	1,110	834	285
2	292	265	444	88	820	791	986	1,140	741	1,070	834	402
3	424	285	443	404	687	879	925	1,410	839	1,170	757	378
4	610	382	290	472	646	778	877	1,840	849	1,250	719	470
5	519	995	84	475	718	714	760	1,760	882	1,010	682	278
6	352	613	250	426	560	702	751	1,260	780	890	588	262
7	514	485	255	437	604	714	793	1,030	822	921	729	298
8	472	532	314	264	864	824	725	1,020	746	908	878	265
9	421	395	345	70	624	811	587	994	700	826	823	282
10	357	475	392	294	644	824	578	614	692	868	771	276
11	325	455	503	445	754	817	600	767	935	958	699	258
12	437	505	690	468	710	695	637	794	720	852	659	276
13	534	364	826	570	732	726	833	867	715	599	388	287
14	458	203	709	690	731	732	1,010	508	814	722	351	313
15	634	404	312	521	749	726	955	489	705	723	438	369
16	428	369	595	405	717	648	803	666	620	844	361	371
17	285	318	431	545	765	575	1,700	678	534	902	345	366
18	431	342	389	685	749	714	1,240	771	490	686	314	348
19	523	348	174	665	660	824	1,170	748	498	680	336	364
20	330	313	437	630	715	811	1,140	889	525	753	324	310
21	364	331	488	827	786	886	1,140	795	604	793	317	398
22	475	311	418	585	806	980	1,150	994	1,170	518	330	321
23	250	303	423	699	809	1,070	1,150	840	1,460	559	308	350
24	155	378	330	850	763	932	975	600	1,040	726	269	369
25	292	123	83	522	786	897	782	744	1,070	985	456	419
26	450	53	37	749	725	762	638	579	1,070	969	329	327
27	292	41	403	674	500	834	469	320	1,020	1,050	283	376
28	288	132	334	581	714	852	462	290	1,010	885	340	363
29	288	324	391	578	720	888	471	293	723	873	349	330
30	324	348	451	687	-----	899	484	437	1,160	834	292	114
31	399	-----	380	593	-----	889	-----	331	-----	830	288	-----
TOTAL	12,358	10,892	12,175	15,990	20,775	24,914	25,728	25,115	24,511	26,764	15,391	9,825
MEAN	399	363	393	516	716	804	858	810	817	863	496	328
MAX	634	995	826	850	864	1,070	1,700	1,840	1,460	1,250	878	470
MIN	155	41	37	70	500	575	462	290	490	518	269	114

CAL YR 1971 TOTAL 234,618 MEAN 643 MAX 3,640 MIN 37
WTR YR 1972 TOTAL 224,438 MEAN 613 MAX 1,840 MIN 37

STREAMS TRIBUTARY TO LAKE ONTARIO

04260500 BLACK RIVER AT WATERTOWN, N.Y.

LOCATION.--Lat 43°59'08", long 75°55'30", Jefferson County, on downstream side of right abutment of Vanduzee Street Bridge at Watertown, 3.5 miles upstream from Philomel Creek.

DRAINAGE AREA.--1,876 sq mi.

PERIOD OF RECORD.--July 1920 to current year.

GAGE.--Water-stage recorder. Datum of gage is 374.88 ft above mean sea level. Prior to Sept. 3, 1921, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--52 years, 3,846 cfs.

EXTREMES.--Current year: Maximum discharge, 30,900 cfs May 5 (gage height, 10.46 ft); minimum, 359 cfs Oct. 31 (gage height, 0.69 ft); minimum daily, 1,190 cfs Oct. 31.

Period of record: Maximum discharge, 36,700 cfs Apr. 5, 1963 (gage height, 11.57 ft); minimum, 10 cfs Sept. 2, 1934 (gage height, -0.19 ft); minimum daily, 137 cfs Sept. 4, 1939.

Maximum discharge known, about 39,700 cfs Apr. 23, 1869 (from New York State Museum Bulletin 85).

REMARKS.--Records fair. Flow regulated by Stillwater Reservoir (see station 04256500), Fulton Chain of Lakes (see station 04253500), and other reservoirs. Extensive diurnal fluctuation at low and medium flow caused by mills and powerplants in and above Watertown. During canal season, water is diverted out of basin through Forestport feeder and Black River Canal (flowing south), see station 04252000. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 759: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,790	1,460	2,060	3,360	3,180	1,980	6,370	9,590	3,500	8,120	2,780	2,220
2	1,630	1,430	1,870	2,880	3,340	2,070	7,050	11,000	6,170	7,520	2,580	1,850
3	1,250	1,210	1,770	2,720	3,050	2,770	7,810	14,800	6,880	7,050	2,550	1,790
4	1,510	1,650	1,850	2,910	2,650	3,640	7,890	22,700	7,190	8,090	2,730	1,630
5	1,490	2,220	1,860	2,770	2,420	4,200	6,750	29,700	6,880	7,460	3,130	1,720
6	1,430	2,720	1,420	2,560	3,190	4,820	5,700	28,700	6,080	6,660	2,900	1,490
7	1,330	2,250	1,680	2,630	2,930	4,600	4,930	23,300	4,950	5,880	2,570	1,380
8	1,540	2,620	2,180	2,230	2,950	4,710	4,550	18,300	4,100	4,950	3,060	1,200
9	1,480	2,610	2,990	2,180	3,110	5,000	4,240	15,000	3,620	4,050	3,800	1,240
10	1,410	2,420	4,040	1,840	3,150	4,840	4,000	13,300	4,680	3,690	3,690	1,610
11	1,540	2,240	5,840	2,200	2,880	4,770	4,380	12,200	5,250	4,930	3,240	1,570
12	1,700	2,200	6,830	2,560	2,860	4,150	4,760	11,200	4,880	5,480	2,870	1,390
13	2,160	2,060	6,830	2,650	2,500	3,930	6,310	9,940	4,120	5,480	2,480	1,350
14	2,940	1,910	6,780	3,270	2,510	3,770	9,490	8,470	3,480	5,030	2,040	1,250
15	2,370	1,830	6,060	3,650	2,440	3,600	11,000	7,190	3,180	5,200	2,480	1,520
16	2,170	1,850	5,800	3,680	2,360	3,400	12,200	7,160	3,520	5,880	2,330	1,500
17	1,810	1,930	6,300	3,280	2,450	3,230	13,200	8,190	5,500	5,980	2,180	1,300
18	1,720	1,830	6,160	2,740	2,500	3,500	15,400	9,380	6,440	5,630	2,040	1,720
19	1,730	1,900	5,760	2,980	2,280	3,950	17,600	9,450	7,050	4,930	2,040	1,530
20	1,640	2,580	4,710	3,520	2,160	4,230	19,600	8,820	6,800	4,210	2,070	1,600
21	1,430	3,400	4,140	3,640	2,120	4,620	21,100	7,910	6,390	3,690	2,000	1,880
22	1,460	3,730	3,490	3,470	2,150	5,080	21,400	6,990	12,700	3,100	1,850	1,700
23	1,420	3,580	2,710	3,330	2,170	6,000	19,200	6,220	15,400	2,940	1,600	1,470
24	1,200	2,750	2,360	3,880	2,160	6,470	16,400	5,200	17,100	4,680	1,490	1,360
25	1,440	2,220	2,380	3,910	2,230	6,770	14,200	3,940	15,700	4,950	1,480	1,410
26	1,520	1,920	3,040	4,060	2,120	7,140	12,500	3,420	13,600	4,950	1,730	1,560
27	1,660	1,840	2,980	4,850	2,210	7,200	11,200	2,810	11,800	6,140	1,670	1,540
28	1,480	1,730	3,640	4,450	1,820	7,080	10,200	2,390	10,200	5,450	1,670	1,720
29	1,390	2,100	4,320	4,390	1,940	6,740	9,590	2,370	8,540	4,390	3,060	1,800
30	1,280	2,220	4,250	4,090	-----	6,500	9,350	2,330	7,520	3,620	3,710	1,800
31	1,190	-----	4,010	3,560	-----	6,180	-----	2,640	-----	3,110	2,820	-----
TOTAL	50,110	66,410	120,110	100,240	73,830	146,940	318,370	324,610	223,220	163,240	76,640	47,100
MEAN	1,616	2,214	3,875	3,234	2,546	4,740	10,610	10,470	7,441	5,266	2,472	1,570
MAX	2,940	3,730	6,830	4,850	3,340	7,200	21,400	29,700	17,100	8,120	3,800	2,220
MIN	1,190	1,210	1,420	1,840	1,820	1,980	4,000	2,330	3,180	2,940	1,480	1,200

CAL YR 1971 TOTAL 1,533,062 MEAN 4,200 MAX 20,100 MIN 505
WTR YR 1972 TOTAL 1,710,820 MEAN 4,674 MAX 29,700 MIN 1,190

PEAK DISCHARGE (BASE, 17,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-22	0545	8.71	22,200	6-24	1415	7.70	17,400
5-05	1445	10.46	30,900				

Lakes & Reservoirs in Streams Tributary to Lake Ontario

- 04221990 Rushford Lake--Lat 42°22'49", long 78°11'00", Allegany County, at Caneadea Dam, 2.3 miles upstream from Caneadea Creek mouth. Lake is formed by Caneadea Dam completed in 1928 with capacity of 1,104,000 cubic feet and is used for power generation. (See station 04221991 for monthly mean discharges supplied by Rochester Gas & Electric Corp.)
- 04224000 Mount Morris Lake near Mount Morris, N.Y. (see station for daily mean elevations, skeleton capacity table, and monthly contents).
- 04227980 Conesus Lake near Lakeville, N.Y. (see station for daily mean gage heights).
- 04228845 Honeoye Lake near Honeoye, N.Y. (see station for daily mean gage heights).
- 04229000 Canadice Outlet near Hemlock, N.Y. (see station for observed and adjusted monthly mean discharges in cfs).
- 04232400 Seneca Lake at Watkins Glen, N.Y. (see station for daily mean gage heights).
- 04232450 Keuka Lake at Hommondsport, N.Y. (see station for daily mean gage heights).
- 04233500 Cayuga Lake at Ithaca, N.Y. (see station for daily mean gage heights).
- 04234500 Canandaigua Lake at Canandaigua, N.Y. (see station for daily mean gage heights).
- 04235396 Owasco Lake near Auburn, N.Y. (see station for daily gage heights at 0800 hrs).
- 04236000 Skaneateles Lake at Skaneateles, N.Y. (see station for daily gage heights at 0800 hrs).
- 04238500 Onondaga Reservoir near Nedrow, N.Y. (see station for daily mean elevations, skeleton capacity table, monthly contents, and change in contents).
- 04253300 Sixth Lake--Lat 43°44'43", long 74°46'58", Hamilton County, on dam at outlet of Sixth Lake at Inlet, 11.2 miles upstream from dam at Old Forge. Drainage area sq mi. Period of record, November 1911 to current year. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Hudson River-Black River Regulating District). Extremes for current year: Maximum contents observed, 306,200,000 cu ft June 17, 18 (elevation, 1,786.30 ft); minimum observed, 77,300,000 cu ft Apr. 13 (elevation, 1,778.85 ft). Extremes for period of record: Maximum contents observed, 332,000,000 cu ft Oct. 3, 1945 (elevation, 1,787.1 ft); minimum observed, less than 900,000 cu ft Nov. 18, 1943 (water level below elevation 1,775.6 ft).
- The Sixth and Seventh Lakes of Fulton Chain Lakes are partially formed and controlled by the concrete dam at Inlet, while the Eighth Lake is upstream and at approximately 5 feet higher elevation. Storage began around 1881. The present structure is a concrete dam with control gates which were installed in 1938. Usable capacity, 296,600,000 cu ft 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, the records collected, furnished, and stored by Board of Hudson River-Black River Regulating district.
- 04253400 First Lake (formerly published as Old Forge Reservoir)--Lat 43°42'44", long 74°58'12", Herkimer County, at dam on Middle Branch Moose River, 100 ft downstream from bridge on State Highway 28 at Old Forge, 11.2 miles downstream from dam on Sixth Lake outlet at Inlet. Drainage area 52.1 sq mi. Period of record, November 1911 to current year. Nonrecording gage read daily about 0800. Datum of gage is 1,700.15 ft above mean sea level (levels by Board of Hudson River-Black River Regulating District). Extremes for current year: Maximum contents observed, 1,019,000,000 cu ft June 17 (gage height, 7.78 ft); minimum observed, 174,000,000 cu ft Apr. 12 (gage height, 1.20 ft). Extremes for period of record: Maximum contents observed, 1,019,000,000 cu ft June 17, 1972 (gage height, 7.78 ft); minimum observed, 6,500,000 cu ft Nov. 3, 1939 (gage height, -0.35 ft).
- The First through Fifth Lakes of Fulton Chain Lakes are partially formed and controlled by a concrete dam with twelve-inch flash boards. 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, 895,600,000 cu ft with flashboards (gage height, 6.89 ft). Usable capacity without flashboards, 764,300,000 cu ft (gage height, 5.91 ft); no dead storage below minimum operating level. Figures given herein represent total contents. The dam is operated, records collected, furnished, and stored by Board of Hudson River-Black River Regulating District.
- 04256500 Stillwater Reservoir near Beaver River, N.Y. (see station for daily elevations, skeleton capacity table, monthly contents, and change in contents).

MONTHEND GAGE HEIGHTS AND CONTENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	Elevation (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)	Gage height (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)
	04253300 Sixth Lake †			04253400 First Lake †		
Sept. 30.....	1,785.17	270.1		6.45	836.0	
Oct. 31.....	1,784.86	260.3	- 3.66	4.66	601.8	- 87.4
Nov. 30.....	1,783.30	211.5	-18.8	4.65	600.5	- 0.50
Dec. 31.....	1,782.28	179.9	-11.8	4.96	640.8	+ 15.0
CAL YR 1971.....			+ 0.61			+ 1.44
Jan. 31.....	1,782.40	183.3	+ 1.27	4.17	538.1	- 38.3
Feb. 29.....	1,781.33	151.1	-12.9	2.31	307.3	- 92.1
Mar. 31.....	1,779.73	103.2	-17.9	1.61	223.2	- 31.4
Apr. 30.....	1,783.15	206.8	+40.0	4.05	523.0	+116
May 31.....	1,785.63	284.8	+29.1	6.95	903.5	+142
June 30.....	1,785.45	279.0	- 2.24	6.90	897.0	- 2.51
July 31.....	1,785.60	283.8	+ 1.79	6.81	884.4	- 4.70
Aug. 31.....	1,785.75	288.6	+ 1.79	6.89	895.6	+ 4.18
Sept. 30.....	1,785.10	267.9	- 7.99	5.75	743.5	- 58.7
WTR YR 1972.....			- 0.07			- 2.93

NOTE: All figures of contents expressed in millions.

STREAMS TRIBUTARY TO LAKE ONTARIO

Diversions affecting streams in Streams Tributary to Lake Ontario

Some water is diverted from Tonawanda Creek, Niagara basin, into Erie (Barge) Canal which can end up in Lake Ontario by way of the Oswego basin.

Diversions from Niagara River basin into Oswego River through Erie (Barge) Canal (see station 04219000).

Diversions from Fall Creek by Cornell University (see station 04234000).

Diversions from Canandaigua Lake for municipal supply of Newark and Palmyra (see station 04234500).

Diversions from East Branch Fish Creek for municipal supply for Rome and Oneida (see station 04242500).

Diversions from Gate House Pond, West Branch of Tioughnioga River basin to Onondaga Creek (see station 04239000).

Diversions from Tioughnioga River basin into DeRuyter Reservoir, Oswego River basin (see station 04246500).

Diversions from Black River, tributary to Lake Ontario through Black River Canal into Mohawk River, Hudson River basin (see station 04252000).

ST. LAWRENCE RIVER BASIN

249

04261000 OSWEGATCHIE RIVER AT CRANBERRY LAKE, N.Y.

LOCATION.--Lat 44°13'15", long 74°51'00", St. Lawrence County, on right bank 900 ft downstream from dam at outlet of Cranberry Lake, at village of Cranberry Lake.

DRAINAGE AREA.--144 sq mi.

PERIOD OF RECORD.--May 1923 to current year. Prior to October 1958, published as East Branch Oswegatchie River at Cranberry Lake.

GAGE.--Water-stage recorder. Datum of gage is 1,458.23 ft above mean sea level. Prior to Oct. 1, 1938, nonrecording gage at site 80 ft upstream at same datum.

AVERAGE DISCHARGE.--49 years, 283 cfs (unadjusted).

EXTREMES.--Current year: Maximum daily discharge, 852 cfs May 9; minimum daily, 179 cfs Dec. 10.

Period of record: Maximum discharge, 1,940 cfs May 13, 1943 (gage height, 7.70 ft); minimum daily, 3 cfs Apr. 9-16, 1931.

REMARKS.--Records good. Since 1867, flow regulated by Cranberry Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	192	188	196	196	480	542	242	220	572	336	214
2	196	192	188	196	196	480	538	242	314	572	223	217
3	196	190	188	196	196	480	538	398	484	572	223	223
4	196	190	188	196	196	480	533	676	484	572	223	248
5	196	192	188	196	196	480	533	735	488	572	223	365
6	196	190	188	196	196	480	529	822	488	568	223	365
7	198	190	188	196	196	476	525	834	484	512	223	361
8	198	190	194	196	196	476	521	840	484	405	223	339
9	196	190	188	196	196	472	517	852	488	405	223	289
10	198	190	179	194	196	472	508	846	488	405	223	289
11	198	190	181	194	196	468	504	846	488	405	223	286
12	198	190	181	194	196	468	500	760	488	355	223	286
13	198	190	181	194	194	464	500	521	460	217	223	298
14	198	190	183	194	194	464	500	314	405	217	223	289
15	198	190	183	196	194	460	504	314	405	217	220	286
16	198	188	185	196	194	456	453	286	405	217	217	265
17	198	188	188	196	194	456	259	220	405	217	212	207
18	196	188	188	194	192	456	320	217	480	217	212	204
19	194	188	188	194	192	453	538	217	572	217	212	204
20	192	188	190	194	194	453	550	214	572	220	214	204
21	194	188	190	194	194	474	559	214	572	220	214	204
22	192	188	190	194	218	559	568	214	572	220	212	204
23	192	188	190	196	504	559	572	242	568	223	212	204
24	192	188	190	196	500	559	581	317	568	223	214	204
25	192	188	190	196	496	559	581	314	568	223	214	204
26	192	185	190	196	492	555	586	314	572	283	220	204
27	192	185	190	196	492	555	586	286	568	398	217	204
28	192	185	192	196	488	550	496	217	568	398	212	204
29	192	185	192	196	484	546	265	217	572	398	212	204
30	192	188	192	196	-----	546	236	214	572	398	214	207
31	192	-----	196	196	-----	542	-----	217	-----	398	214	-----
TOTAL	6,048	5,664	5,827	6,056	7,768	15,378	14,942	13,162	14,802	11,036	6,877	7,482
MEAN	195	189	188	195	268	496	498	425	493	356	222	249
MAX	198	192	196	196	504	559	586	852	572	572	336	365
MIN	192	185	179	194	192	453	236	214	220	217	212	204
CAL YR 1971	TOTAL	113,797	MEAN	312	MAX	1,490	MIN	179				
WTR YR 1972	TOTAL	115,042	MEAN	314	MAX	852	MIN	179				

ST. LAWRENCE RIVER BASIN

04262500 WEST BRANCH OSWEGATCHIE RIVER NEAR HARRISVILLE, N.Y.

LOCATION.--Lat 44°11'08", long 75°19'52", Lewis County, on right bank just downstream from highway bridge, 0.5 mile northeast of Geers Corners, 1.5 miles downstream from Big Creek, and 4.0 miles downstream from Harrisville.

DRAINAGE AREA.--258 sq mi.

PERIOD OF RECORD.--July 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 738.51 ft above mean sea level. Prior to Nov. 30, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--56 years, 498 cfs (26.21 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,510 cfs May 4 (gage height, 7.56 ft); minimum, 76 cfs Sept. 23, 24 (gage height, 1.44 ft); minimum daily, 78 cfs Sept. 23, 24.
Period of record: Maximum discharge, 6,920 cfs Jan. 9, 1930 (gage height, 9.6 ft); minimum, 25 cfs Sept. 1, 1934 (gage height, 0.86 ft).

REMARKS.--Records fair. Diurnal fluctuation, principally during low flow, caused by pulp mill at Harrisville, not evident this year.

REVISIONS (WATER YEARS).--WSP 759: Drainage area. WSP 784: 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	102	229	472	272	195	791	1,350	573	725	264	186
2	137	104	232	430	255	233	906	1,580	988	785	231	167
3	127	100	221	380	241	418	951	2,340	1,160	714	236	160
4	117	112	215	330	256	597	893	4,190	1,040	919	247	160
5	113	124	187	300	240	669	840	4,140	896	1,030	224	152
6	115	144	178	270	240	714	716	3,390	726	869	199	118
7	115	161	207	250	240	672	663	2,570	550	644	190	98
8	125	193	271	244	230	643	556	2,110	442	500	248	102
9	128	197	357	230	230	665	487	1,770	581	398	328	114
10	132	189	550	243	230	640	468	1,430	907	345	301	123
11	143	189	870	252	230	571	508	1,200	1,020	489	267	115
12	167	187	1,180	265	220	511	528	1,030	853	617	238	107
13	184	182	1,310	277	212	464	695	879	643	587	216	102
14	178	176	1,140	362	232	423	1,270	753	508	497	208	99
15	164	170	892	479	272	389	1,780	689	430	464	226	94
16	150	176	843	445	286	364	2,110	743	521	629	232	90
17	141	199	957	360	278	382	2,510	901	741	798	215	87
18	135	219	958	329	258	499	2,870	1,060	655	720	207	86
19	122	251	814	360	240	559	3,030	1,120	506	544	212	98
20	113	382	666	445	232	535	3,120	1,060	428	442	209	94
21	106	516	541	442	233	499	3,060	878	398	378	193	86
22	101	520	547	384	230	524	2,670	704	894	324	175	82
23	98	459	544	466	220	777	2,270	572	1,210	404	155	78
24	95	347	367	604	220	951	1,950	469	1,290	612	156	78
25	102	341	380	652	210	1,030	1,760	386	1,280	605	178	87
26	115	288	366	649	200	1,010	1,550	329	1,160	518	180	117
27	118	249	355	583	200	939	1,400	291	980	523	166	107
28	124	237	408	477	196	839	1,280	264	789	504	164	103
29	119	236	557	396	193	732	1,230	242	629	439	172	100
30	112	234	567	341	-----	699	1,240	226	555	373	199	124
31	106	-----	528	299	-----	721	-----	307	-----	313	194	-----
TOTAL	3,952	6,984	17,437	12,016	6,796	18,864	44,102	38,973	23,353	17,709	6,630	3,314
MEAN	127	233	562	388	234	609	1,470	1,257	778	571	214	110
MAX	184	520	1,310	652	286	1,030	3,120	4,190	1,290	1,030	328	186
MIN	95	100	178	230	193	195	468	226	398	313	155	78
CFSM	.49	.90	2.18	1.50	.91	2.36	5.70	4.87	3.02	2.21	.83	.43
IN.	.57	1.01	2.51	1.73	.98	2.72	6.36	5.62	3.37	2.55	.96	.48

CAL YR 1971 TOTAL 187,908 MEAN 515 MAX 4,000 MIN 71 CFSM 2.00 IN 27.09
WTR YR 1972 TOTAL 200,130 MEAN 547 MAX 4,190 MIN 78 CFSM 2.12 IN 28.86

PEAK DISCHARGE (BASE, 3,300 CFS)

DATE TIME G.H. DISCHARGE
5-04 2300 7.56 4,510

251

LOCATION.--Lat 44°35'58", long 75°22'45", St. Lawrence County, on right bank 1.5 miles downstream from Beaver Creek and 2.5 miles upstream from Heuvelton.

PERIOD OF RECORD.--June 1916 to current year.

GAGE.--Water-stage recorder. Datum of gage is 288.85 ft above mean sea level. Prior to Sept. 16, 1916, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum discharge, 9,000 cfs Apr. 19 (gage height, 6.63 ft); minimum, 318 cfs Oct. 27, Sept. 27 (gage height, 0.98 ft).

Period of record: Maximum discharge, 19,600 cfs Apr. 6, 1960 (gage height, 10.36 ft); minimum recorded, 130 cfs Aug. 17, 1949 (gage height, 0.47 ft).

REVISIONS.--WSP 759: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	728	544	947	1,100	965	780	3,360	3,420	1,180	2,410	1,050	915
2	611	414	851	1,100	960	780	4,000	3,560	1,740	2,560	1,170	762
3	504	424	783	1,000	940	800	4,700	4,230	2,490	2,390	1,100	768
4	511	433	720	980	900	1,100	5,160	5,030	2,630	2,580	943	673
5	499	489	677	920	880	1,300	5,010	6,310	2,440	2,800	941	597
6	543	529	656	900	840	1,500	4,650	7,230	1,990	2,760	940	532
7	612	435	601	840	840	1,700	4,010	7,590	1,820	2,540	776	582
8	642	471	936	800	820	1,900	3,440	7,490	1,680	2,220	845	695
9	572	495	1,100	780	820	2,000	3,040	6,830	1,800	1,660	1,170	709
10	591	519	1,780	709	820	2,200	2,830	5,900	2,160	1,330	1,300	770
11	534	580	2,990	835	820	2,190	3,230	4,960	2,590	1,370	1,200	737
12	506	591	3,390	1,190	820	2,040	4,070	4,210	2,640	1,570	1,050	528
13	563	585	3,400	1,310	794	1,930	4,740	3,400	2,340	1,600	1,020	610
14	667	572	3,240	1,710	822	1,830	5,910	3,030	2,210	1,640	879	683
15	706	581	2,970	1,850	863	1,920	7,570	2,690	1,930	1,700	801	761
16	587	564	3,190	1,630	1,200	1,780	8,530	2,400	1,970	2,530	992	696
17	661	558	3,260	1,340	1,410	1,520	8,790	2,530	1,820	4,300	1,040	732
18	581	558	3,090	1,090	1,230	1,660	8,870	2,670	1,460	3,640	922	680
19	497	743	2,630	1,480	1,110	1,930	8,970	2,800	1,240	2,740	845	467
20	566	757	1,840	1,670	983	2,100	8,940	2,540	1,130	2,080	922	526
21	563	820	1,770	1,530	860	2,140	8,770	2,460	1,360	1,700	805	481
22	504	970	1,980	1,420	766	2,140	8,470	2,110	2,570	1,340	789	434
23	422	1,020	1,730	1,860	895	2,530	8,030	1,830	4,820	1,150	871	525
24	425	1,290	1,400	2,520	800	3,200	7,410	1,540	5,130	1,010	1,020	523
25	424	1,130	1,880	2,560	780	3,600	6,690	1,370	4,650	1,180	957	425
26	418	961	1,370	2,530	780	3,570	5,970	1,260	4,000	1,610	913	361
27	342	768	1,130	1,930	780	3,510	5,350	1,050	3,560	1,790	930	386
28	438	729	899	1,670	780	3,260	4,840	990	3,120	1,790	1,350	502
29	573	844	1,290	1,380	780	3,030	4,370	954	2,610	1,710	2,220	454
30	653	851	1,310	1,180	-----	2,960	3,800	810	2,140	1,460	1,660	509
31	731	-----	1,180	1,080	-----	3,060	-----	868	-----	1,090	1,150	-----
TOTAL	17,174	20,225	54,990	42,894	26,058	65,960	173,520	104,062	73,220	62,250	32,571	18,023
MEAN	554	674	1,774	1,384	899	2,128	5,784	3,357	2,441	2,008	1,051	601
MAX	731	1,290										

ST. LAWRENCE RIVER MAIN STEM

04264331 ST. LAWRENCE RIVER AT CORNWALL, ONTARIO - NEAR MASSENA, N.Y.

LOCATION.--Lat 45°00'22", long 74°47'43", Stormont County Ontario - St. Lawrence County N.Y. at Robert Moses - Robert H. Saunders power dam on Lake St. Lawrence at the International Boundary at Cornwall, Ontario, 2.9 miles upstream from Grass River, 6.2 miles upstream from Raquette River, and 5.9 miles northeast of Massena, N.Y.

DRAINAGE AREA.--299,000 sq mi.

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.

DETERMINATION OF DISCHARGE.--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. These gages, prior to August 1956 were gages of the Canadian Hydrographic Service and from August 1956 to June 1958 the Hydro-Electric Power Commission of Ontario. Discharge in the reach of river at Cornwall, Ont. - near Massena, N.Y. is considered to be the same as discharge at Ogdensburg, N.Y. when adjusted for storage in Lake St. Lawrence.

AVERAGE DISCHARGE.--112 years (1860-1972), 239,600 cfs.

EXTREMES.--Current year: Maximum daily discharge, 312,000 cfs Sept. 8; minimum daily, 200,000 cfs Jan. 1, 2, 8, 9, 15, 16, Feb. 11-13. 1917-72: Maximum daily discharge, 315,000 cfs May 13, 1952; minimum daily, 139,000 cfs Feb. 7, 1936. Period of record: Maximum monthly discharge, 314,000 cfs May 1870; minimum monthly, 154,000 cfs February 1936.

REMARKS.--Flow regulated since July 1958 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, operation of which began in 1900. They 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. Water-quality records for the current year are published in Part 2 of this report.

COOPERATION.--Records of daily discharge furnished by Buffalo District, Corps of Engineers through International St. Lawrence River Board of Control.

REVISIONS (WATER YEARS).--WSP 1437: 1870, 1871, 1881, 1883-1884, 1890.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265,000	257,000	233,000	200,000	238,000	239,000	260,000	284,000	294,000	310,000	310,000	310,000
2	262,000	257,000	233,000	200,000	238,000	246,000	280,000	284,000	294,000	310,000	310,000	310,000
3	262,000	257,000	233,000	228,000	238,000	246,000	280,000	284,000	295,000	310,000	310,000	310,000
4	262,000	257,000	231,000	228,000	238,000	230,000	280,000	284,000	295,000	311,000	310,000	306,000
5	262,000	257,000	231,000	228,000	210,000	230,000	290,000	284,000	295,000	310,000	310,000	310,000
6	262,000	256,000	231,000	228,000	210,000	244,000	291,000	289,000	294,000	310,000	310,000	310,000
7	262,000	256,000	231,000	228,000	238,000	244,000	290,000	289,000	297,000	310,000	310,000	311,000
8	262,000	256,000	231,000	200,000	234,000	244,000	263,000	289,000	295,000	310,000	310,000	312,000
9	260,000	256,000	231,000	200,000	228,000	244,000	263,000	289,000	294,000	310,000	310,000	310,000
10	260,000	256,000	231,000	228,000	228,000	244,000	263,000	289,000	294,000	311,000	310,000	310,000
11	260,000	256,000	231,000	228,000	200,000	250,000	262,000	289,000	294,000	310,000	310,000	310,000
12	260,000	256,000	231,000	228,000	200,000	250,000	270,000	289,000	294,000	310,000	310,000	310,000
13	260,000	250,000	231,000	228,000	200,000	250,000	240,000	292,000	294,000	310,000	310,000	310,000
14	260,000	250,000	231,000	228,000	228,000	250,000	240,000	292,000	294,000	310,000	310,000	311,000
15	260,000	250,000	230,000	200,000	240,000	250,000	269,000	292,000	294,000	310,000	310,000	309,000
16	256,000	250,000	231,000	200,000	240,000	250,000	269,000	292,000	294,000	310,000	310,000	311,000
17	256,000	250,000	231,000	228,000	245,000	250,000	269,000	292,000	300,000	310,000	310,000	310,000
18	256,000	250,000	241,000	228,000	245,000	257,000	269,000	292,000	300,000	310,000	310,000	310,000
19	256,000	250,000	241,000	228,000	230,000	257,000	269,000	292,000	300,000	310,000	310,000	309,000
20	256,000	237,000	241,000	228,000	230,000	257,000	269,000	294,000	300,000	310,000	310,000	310,000
21	256,000	237,000	241,000	228,000	240,000	260,000	269,000	294,000	300,000	310,000	310,000	311,000
22	256,000	237,000	241,000	210,000	240,000	265,000	279,000	294,000	300,000	309,000	310,000	309,000
23	256,000	237,000	241,000	210,000	240,000	265,000	279,000	294,000	309,000	310,000	310,000	310,000
24	256,000	237,000	241,000	238,000	240,000	265,000	279,000	294,000	310,000	310,000	310,000	311,000
25	256,000	237,000	242,000	238,000	240,000	265,000	279,000	294,000	310,000	310,000	310,000	310,000
26	256,000	237,000	242,000	238,000	225,000	265,000	279,000	294,000	311,000	310,000	310,000	310,000
27	256,000	233,000	242,000	238,000	225,000	266,000	279,000	294,000	310,000	310,000	310,000	310,000
28	256,000	233,000	242,000	238,000	239,000	275,000	279,000	294,000	311,000	310,000	310,000	311,000
29	256,000	233,000	230,000	210,000	239,000	275,000	284,000	294,000	310,000	310,000	310,000	310,000
30	257,000	233,000	230,000	210,000	-----	275,000	284,000	294,000	310,000	310,000	310,000	310,000
31	257,000	-----	230,000	238,000	-----	277,000	-----	294,000	-----	310,000	310,000	-----
TOTAL	8,017.0M	7,418.0M	7,277.0M	6,888.0M	6,686.0M	7,885.0M	8,176.0M	9,015.0M	8,992.0M	9,611.0M	9,610.0M	9,301.0M
MEAN	258,600	247,300	234,700	222,200	230,600	254,400	272,500	290,800	299,700	310,000	310,000	310,000
MAX	265,000	257,000	242,000	238,000	245,000	277,000	291,000	294,000	311,000	311,000	310,000	312,000
MIN	256,000	233,000	230,000	200,000	200,000	230,000	240,000	284,000	294,000	309,000	310,000	306,000
CAL YR 1971	TOTAL 94,260,000		MEAN 258,200		MAX 287,000		MIN 220,000					
WTR YR 1972	TOTAL 98,876,000		MEAN 270,200		MAX 312,000		MIN 200,000					

ST. LAWRENCE RIVER BASIN

253

04265000 GRASS RIVER AT PYRITES, N.Y.

LOCATION.--Lat 44°31'28", long 75°11'48", St. Lawrence County, on left bank 1,000 ft downstream from lower bridge in Pyrites, and 0.5 mile upstream from Harrison Creek.

DRAINAGE AREA.--335 sq mi.

PERIOD OF RECORD.--August 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 350.61 ft above mean sea level.

AVERAGE DISCHARGE.--48 years, 590 cfs (23.92 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,660 cfs May 5 (gage height, 9.03 ft); minimum, 36 cfs Oct. 21 (gage height, 0.86 ft); minimum daily, 134 cfs Sept. 24.

Period of record: Maximum discharge, about 8,300 cfs Nov. 18, 1927 (gage height, 13.0 ft, from floodmark); minimum daily, 59 cfs Aug. 29 to Sept. 1, 1934.

REMARKS.--Records good except those for winter periods, which are poor. Diurnal fluctuation at low flow caused by powerplant above station.

REVISIONS.--WSP 759: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	187	270	520	450	210	820	1,300	1,000	495	359	256
2	238	184	270	460	420	250	900	1,500	1,500	526	325	216
3	218	184	270	410	400	350	980	3,180	1,300	477	359	199
4	209	184	270	360	390	560	1,000	4,320	1,000	890	443	190
5	199	190	270	330	370	660	960	4,530	900	977	402	190
6	202	206	280	290	350	780	860	3,710	700	730	325	195
7	224	228	418	270	340	940	800	3,130	548	539	344	176
8	261	258	634	260	320	780	720	2,880	490	414	469	163
9	272	247	710	250	300	720	660	2,250	683	340	643	191
10	254	218	1,030	240	290	720	580	1,670	890	333	584	212
11	268	241	1,750	260	270	660	520	1,320	870	508	460	199
12	344	247	2,170	270	250	620	580	1,200	730	575	371	180
13	340	244	1,800	290	250	560	660	1,100	593	465	329	163
14	307	244	1,240	370	280	500	1,000	900	495	473	336	156
15	272	238	910	500	380	460	1,500	800	435	517	435	157
16	244	251	1,110	560	490	420	1,800	720	521	1,200	435	155
17	228	311	1,360	490	580	400	2,200	1,000	652	1,550	371	147
18	212	340	1,190	420	520	470	2,400	1,500	566	1,020	348	143
19	202	379	805	410	490	560	2,700	1,800	508	593	340	168
20	193	521	740	470	450	620	3,100	1,400	482	435	329	186
21	182	575	640	480	430	560	3,200	900	443	375	286	167
22	173	512	540	450	390	560	2,800	800	720	348	247	147
23	168	431	500	480	350	740	2,500	660	805	548	238	139
24	168	329	460	560	310	940	2,100	540	679	855	282	134
25	176	325	430	660	270	1,100	2,000	470	647	955	311	136
26	212	307	400	800	250	1,200	1,800	390	580	1,000	282	158
27	241	289	380	700	230	1,100	1,700	330	562	1,310	329	175
28	238	293	420	620	230	1,000	1,600	300	521	1,220	473	176
29	218	300	540	560	220	900	1,400	260	465	840	399	162
30	199	275	600	520	-----	860	1,300	350	460	584	348	231
31	190	-----	580	490	-----	780	-----	500	-----	435	300	-----
TOTAL	7,120	8,738	22,987	13,750	10,270	20,980	45,140	45,710	20,745	21,527	11,502	5,267
MEAN	230	291	742	444	354	677	1,505	1,475	692	694	371	176
MAX	344	575	2,170	800	580	1,200	3,200	4,530	1,500	1,550	643	256
MIN	168	184	270	240	220	210	520	260	435	333	238	134
CFSM	.69	.87	2.21	1.33	1.06	2.02	4.49	4.40	2.07	2.07	1.11	.53
IN.	.79	.97	2.55	1.53	1.14	2.33	5.01	5.08	2.30	2.39	1.28	.58

CAL YR 1971 TOTAL 263,863 MEAN 723 MAX 5,000 MIN 129 CFSM 2.16 IN 29.30
WTR YR 1972 TOTAL 233,736 MEAN 639 MAX 4,530 MIN 134 CFSM 1.91 IN 25.96

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE TIME G.H. DISCHARGE

5-05 0315 9.03 4,660

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	851	502	737	1,410	965	1,020	1,270	3,470	2,670	3,790	1,600	754
2	818	439	750	1,370	901	1,130	1,280	3,890	2,610	3,680	1,450	722
3	804	375	746	1,280	840	1,270	1,260	4,960	2,720	3,580	1,310	660
4	805	315	705	1,210	859	1,250	1,260	5,990	2,760	3,550	1,180	606
5	697	334	711	1,220	884	1,260	1,260	7,030	2,750	3,450	1,120	462
6	688	318	713	1,250	856	1,240	1,220	7,850	2,690	3,320	1,110	409
7	512	377	742	1,220	807	1,220	1,210	8,130	2,600	3,170	1,090	417
8	586	479	786	1,130	703	1,290	1,160	8,310	2,540	3,020	1,040	440
9	720	632	777	1,110	756	1,320	1,160	8,250	2,520	2,880	1,020	440
10	727	583	918	1,090	796	1,290	1,120	7,990	2,470	2,780	1,010	431
11	797	576	999	1,000	796	1,250	1,100	7,720	2,470	2,710	987	477
12	770	419	1,120	1,000	863	1,230	1,150	7,270	2,460	2,600	971	474
13	778	510	1,260	991	889	1,180	1,250	6,820	2,390	2,500	930	477
14	895	437	1,440	960	854	1,210	1,180	6,340	2,320	2,410	967	398
15	801	502	1,450	975	1,080	1,250	1,240	5,890	2,280	2,340	941	411
16	740	534	1,520	965	1,160	1,230	1,320	5,620	2,380	2,290	932	445
17	755	661	1,700	923	1,120	1,240	1,060	5,550	2,350	2,220	884	425
18	676	714	1,930	865	1,050	1,220	1,640	5,520	2,360	2,150	809	378
19	625	799	1,900	873	1,040	1,200	1,800	5,370	2,390	2,060	754	338
20	560	842	1,810	892	1,080	1,180	2,220	5,220	2,400	1,980	767	271
21	394	838	1,760	914	1,000	1,190	2,350	5,010	2,470	1,910	709	299
22	431	819	1,730	904	981	1,180	2,600	4,740	2,800	1,830	622	249
23	495	823	1,670	902	938	1,240	2,850	4,420	2,990	1,810	534	278
24	477	848	1,590	879	967	1,300	2,970	4,220	3,160	1,750	606	343
25	509	835	1,560	955	977	1,320	3,050	3,930	3,330	1,720	616	384
26	566	884	1,510	969	1,010	1,310	3,100	3,650	3,530	1,750	611	644
27	726	876	1,440	1,060	984	1,310	3,150	3,400	3,690	1,830	645	684
28	744	855	1,380	965	984	1,310	3,160	3,180	3,800	1,720	757	792
29	677	821	1,380	956	971	1,270	3,190	2,960	3,860	1,880	761	876
30	681	857	1,430	953	-----	1,270	3,280	2,760	3,860	1,860	802	858
31	640	-----	1,460	922	-----	1,290	-----	2,630	-----	1,750	763	-----
TOTAL	20,945	18,804	39,624	32,113	27,111	38,470	55,860	168,090	83,620	76,290	28,298	14,842
MEAN	676	627	1,278	1,036	935	1,241	1,862	5,422	2,787	2,461	913	495
MAX	895	884	1,930	1,410	1,160	1,320	3,280	8,310	3,860	3,790	1,600	876
MIN	394	315	705	865	703	1,020	1,060	2,630	2,280	1,720	534	249
CAL YR 1971	TOTAL	499,049	MEAN	1,367	MAX	7,730	MIN	237				
WTR YR 1972	TOTAL	604,067	MEAN	1,650	MAX	8,310	MIN	249				

ST. LAWRENCE RIVER BASIN

255

04267500 RAQUETTE RIVER AT SOUTH COLTON, N.Y.

LOCATION.--Lat 44°30'42", long 74°53'00", St. Lawrence County, 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 mile upstream from Cold Brook.

DRAINAGE AREA.--939 sq mi.

PERIOD OF RECORD.--January 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 882.05 ft above mean sea level.

AVERAGE DISCHARGE.--19 years, 1,609 cfs.

EXTREMES.--Current year: Maximum discharge, 8,330 cfs May 10 (gage height, 9.07 ft); minimum, recorded 9.3 cfs Sept. 25 (gage height, 1.76 ft) but may have been less during period of no gage-height record Aug. 27 to Sept. 13; minimum daily, 185 cfs Nov. 21.
Period of record: Maximum discharge, 9,720 cfs May 11, 1971 (gage height, 9.80 ft); minimum, 1.3 cfs Feb. 1, 1962, Aug. 8, 1964 (gage height, 1.53 ft); minimum daily, 4.6 cfs June 2, 1954.

REMARKS.--Records good. Flow regulated 16 miles upstream by Carry Falls Reservoir since 1953; considerable natural storage in large lakes above Piercefield. Large diurnal fluctuation caused by five powerplants.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,680	1,390	1,030	1,120	1,420	1,780	3,420	3,340	3,690	4,680	1,910	1,000
2	1,560	1,150	1,400	916	1,250	1,870	3,290	3,070	3,950	4,210	1,410	1,200
3	1,360	1,290	955	1,250	1,590	1,930	3,350	3,900	3,920	4,630	2,260	1,300
4	1,450	1,230	696	1,200	1,310	2,140	3,560	4,030	3,870	4,090	1,950	1,400
5	1,780	1,260	457	1,600	1,300	1,270	3,690	4,560	3,770	4,330	1,960	1,600
6	1,590	1,020	967	1,350	1,240	1,930	3,680	5,390	3,660	4,430	1,420	1,700
7	1,950	235	1,230	1,010	1,540	1,450	3,730	6,100	3,650	4,190	1,420	1,500
8	1,680	965	1,180	801	1,550	1,760	3,740	6,790	3,650	3,910	1,480	1,300
9	1,450	1,230	1,200	1,160	1,340	1,710	3,690	7,100	3,780	3,320	1,650	1,200
10	1,340	1,130	685	1,310	1,720	2,140	3,680	8,050	3,680	3,530	1,500	1,100
11	1,690	1,270	402	1,260	1,620	1,530	3,670	7,610	3,660	3,540	1,860	1,800
12	1,650	1,410	382	1,550	1,270	1,960	3,440	7,160	3,660	3,970	1,750	1,600
13	1,620	620	1,430	1,750	1,330	1,650	3,220	6,490	3,660	3,590	1,240	1,800
14	1,900	318	1,060	1,480	1,550	1,600	3,170	5,590	3,650	3,670	1,850	1,530
15	1,760	1,070	1,200	1,720	1,620	1,940	2,850	5,550	3,560	3,350	1,610	1,890
16	1,470	1,270	1,130	1,320	1,530	2,390	2,460	5,620	774	3,020	1,710	1,630
17	1,190	1,250	1,540	1,540	1,450	2,300	1,340	5,830	1,380	3,240	1,700	1,130
18	1,590	1,330	710	1,160	1,930	2,580	1,600	6,500	2,150	3,130	1,890	1,590
19	1,780	1,230	784	1,960	1,320	2,070	1,800	6,840	2,330	3,030	1,500	1,600
20	1,630	495	1,240	1,880	1,300	2,360	2,600	6,500	2,410	2,950	1,370	1,610
21	1,510	185	925	1,700	1,490	2,540	2,960	5,850	2,830	1,780	1,760	1,660
22	1,740	1,110	1,250	1,290	1,200	2,140	3,780	5,410	3,620	1,640	1,670	1,720
23	1,150	1,170	1,070	1,040	1,700	2,210	3,770	4,900	3,860	1,450	1,930	1,690
24	465	1,520	1,170	1,440	2,050	2,150	3,750	4,380	4,080	3,120	1,640	1,320
25	1,620	499	1,520	1,380	2,010	2,110	3,720	3,970	4,030	3,560	1,780	1,600
26	1,530	469	1,350	1,130	1,780	2,170	3,720	3,670	4,070	3,320	1,740	1,670
27	1,670	490	1,060	1,420	1,300	2,250	3,710	3,710	4,090	3,420	1,000	1,730
28	1,520	202	1,260	1,430	1,720	2,730	3,700	4,620	4,370	3,180	1,500	1,560
29	1,450	1,140	1,700	1,220	1,800	3,150	3,510	4,110	4,390	3,220	1,700	1,330
30	777	947	1,060	1,290	-----	3,020	3,090	3,670	4,690	2,880	1,900	934
31	379	-----	1,630	1,660	-----	3,260	-----	3,650	-----	1,650	1,400	-----
TOTAL	45,931	28,895	33,673	42,337	44,230	66,090	97,690	163,960	104,884	104,030	51,460	44,694
MEAN	1,482	963	1,086	1,366	1,525	2,132	3,256	5,289	3,496	3,356	1,660	1,490
MAX	1,950	1,520	1,700	1,960	2,050	3,260	3,780	8,050	4,690	4,680	2,260	1,890
MIN	379	185	382	801	1,200	1,270	1,340	3,070	774	1,450	1,000	934
CAL YR 1971	TOTAL 712,199	MEAN 1,951	MAX 9,060	MIN 13								
WTR YR 1972	TOTAL 827,874	MEAN 2,262	MAX 8,050	MIN 185								

ST. LAWRENCE RIVER BASIN

04268000 RAQUETTE RIVER AT RAYMONDVILLE, N.Y.

LOCATION.--Lat 44°50'20", long 74°58'45", St. Lawrence County, on right bank 250 ft upstream from bridge on Grant Road at Raymondville, 0.3 mile downstream from Trout Brook, 0.4 mile downstream from Niagara Mohawk Power Corp. powerplant, and 18.0 miles upstream from mouth.

DRAINAGE AREA.--1,131 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 183.33 ft above mean sea level.

AVERAGE DISCHARGE.--28 years (1944-72), 1,919 cfs.

EXTREMES.--Current year: Maximum discharge, 8,600 cfs May 11 (gage height, 6.66 ft); maximum gage height, 7.58 ft Feb. 9 (backwater from ice); minimum discharge, 17 cfs Nov. 6 (gage height, 0.62 ft); minimum daily discharge, 441 cfs Nov. 21.
Period of record: Maximum discharge, 11,100 cfs May 12, 1971 (gage height, 7.66 ft); maximum gage height, 9.24 ft Feb. 22, 1954 (backwater from ice); minimum discharge, 2.2 cfs Sept. 18, 19, 1966; minimum daily, 7.0 cfs Oct. 15, 1951; minimum gage height, 0.42 ft July 13, 1950.

REMARKS.--Records fair except those for winter periods, which are poor. Extensive diurnal fluctuation caused by power and industrial operations. Flow regulated since 1953 by Carry Falls Reservoir, about 46 miles upstream; considerable natural storage in large lakes above Piercefield.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,540	691	1,370	1,500	1,500	2,000	4,540	3,310	3,860	4,780	1,880	1,710
2	1,590	1,400	1,170	1,700	1,500	2,100	4,530	3,450	4,400	4,830	1,850	768
3	1,590	1,230	1,250	1,900	1,500	2,200	4,680	4,240	4,100	3,960	1,860	1,120
4	1,600	1,270	703	1,800	1,500	2,300	4,640	5,280	4,060	5,250	2,030	1,290
5	1,610	1,290	466	1,600	1,600	2,400	4,260	5,790	4,040	4,300	2,030	1,380
6	1,650	756	639	1,500	1,500	2,400	4,100	6,130	3,860	4,430	1,850	1,040
7	1,660	487	1,370	1,400	1,600	2,300	3,990	6,350	3,810	4,630	1,520	1,440
8	1,640	860	1,390	1,800	1,800	2,300	4,010	7,110	3,650	4,120	2,460	1,610
9	1,660	1,290	1,260	1,600	1,700	2,300	3,870	7,140	3,770	3,700	2,100	1,700
10	1,640	1,310	1,200	1,600	1,600	2,300	3,910	7,570	3,920	3,340	1,980	1,290
11	1,600	1,260	1,100	1,700	1,500	2,200	4,290	8,270	3,940	3,590	1,860	1,330
12	1,650	1,380	1,200	1,700	1,500	2,200	4,800	7,890	3,740	3,810	1,830	1,670
13	1,570	673	1,400	1,600	1,700	2,100	4,590	7,270	3,810	3,810	1,800	1,610
14	1,500	444	1,300	1,600	1,800	2,100	5,480	6,470	4,530	3,810	1,690	1,640
15	1,410	994	1,300	1,700	1,800	2,000	5,300	5,760	4,650	3,400	1,710	1,660
16	1,530	1,350	1,500	1,700	1,800	2,000	4,660	5,730	4,220	3,760	1,700	1,540
17	1,490	1,340	1,500	1,600	1,800	2,000	4,340	6,220	2,340	3,450	1,740	1,150
18	1,590	1,340	1,600	1,600	1,800	2,100	3,830	6,580	603	3,270	1,750	1,030
19	1,590	1,330	1,400	1,700	1,800	2,200	3,200	6,890	912	3,200	1,710	1,790
20	1,610	828	1,300	1,700	1,800	2,300	2,950	7,160	1,110	3,110	1,690	1,710
21	1,590	441	1,400	1,600	1,700	2,200	3,450	6,770	1,490	2,410	1,690	1,660
22	1,590	724	1,600	1,400	1,600	2,200	3,990	6,070	3,400	1,730	1,690	1,470
23	1,510	1,400	1,800	1,500	1,600	2,200	4,710	5,420	4,380	1,740	1,690	1,570
24	780	1,360	1,800	1,600	1,800	2,300	4,750	4,600	4,200	2,030	1,710	1,600
25	974	628	1,800	1,700	1,700	2,500	4,490	4,600	4,040	4,850	1,680	1,620
26	1,470	613	1,700	1,500	1,800	2,600	4,310	3,380	4,020	4,580	1,710	1,660
27	1,560	838	1,700	1,300	1,800	2,500	4,190	3,090	4,120	3,900	1,740	1,640
28	1,580	484	1,800	1,600	1,900	2,700	4,020	4,120	4,300	3,380	2,010	1,430
29	1,400	696	1,800	1,500	1,900	4,240	3,780	4,900	4,330	3,200	1,920	1,330
30	1,180	1,280	1,600	1,600	-----	4,490	3,590	4,040	4,450	3,310	1,870	1,430
31	884	-----	1,400	1,600	-----	4,620	-----	3,940	-----	2,640	1,770	-----
TOTAL	46,238	29,987	47,818	49,900	48,900	76,350	127,250	175,540	108,055	112,320	56,520	43,888
MEAN	1,492	1,000	1,381	1,610	1,686	2,463	4,242	5,663	3,602	3,623	1,823	1,463
MAX	1,660	1,400	1,800	1,900	1,900	4,620	5,480	8,270	4,650	5,250	2,460	1,790
MIN	780	441	466	1,300	1,500	2,000	2,950	3,090	603	1,730	1,520	768
CAL YR 1971	TOTAL	813,382	MEAN	2,228	MAX	9,460	MIN	232				
WTR YR 1972	TOTAL	917,766	MEAN	2,508	MAX	8,270	MIN	441				

04269000 ST. REGIS RIVER AT BRASHER CENTER, N.Y.

LOCATION.--Lat 44°51'49", long 74°46'45", St. Lawrence County, on left bank 600 ft upstream from highway bridge at Brasher Center, and 6.5 miles downstream from West Branch.

DRAINAGE AREA.--616 sq mi.

PERIOD OF RECORD.--August 1910 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 217.23 ft above mean sea level. 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.

AVERAGE DISCHARGE.--62 years, 1,027 cfs (22.65 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,770 cfs May 4 (gage height, 10.40 ft); minimum, 262 cfs Sept. 24 (gage height, 5.92 ft); minimum daily, 277 cfs Sept. 24.
Period of record: Maximum discharge, 16,800 cfs 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 cfs Aug. 8, 1917 (gage height, 5.25 ft); minimum daily, 37 cfs Aug. 8, 1917.

REMARKS.--Records good except those for winter periods, which are poor. Slight diurnal fluctuation caused by powerplant operations above station.

REVISIONS (WATER YEARS).--WSP 584: Drainage area. WSP 1387: 1910-16, 1917(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	598	399	427	1,300	760	440	1,100	3,880	1,450	872	1,050	461
2	548	395	385	1,200	720	500	1,100	4,610	2,700	824	917	445
3	492	378	470	1,100	700	640	1,100	6,660	2,410	829	903	398
4	471	377	515	1,000	660	780	1,200	8,570	1,940	1,410	1,310	393
5	454	437	453	900	640	880	1,000	8,130	1,620	1,490	1,250	465
6	440	434	427	840	620	960	900	6,670	1,410	1,260	1,000	621
7	431	410	515	780	600	960	860	5,520	1,250	1,050	1,140	554
8	451	418	515	820	580	940	780	5,170	1,170	858	2,050	381
9	466	412	691	680	560	900	680	4,210	1,300	719	1,710	465
10	457	394	1,240	660	540	860	600	3,390	1,480	736	1,520	488
11	519	437	2,680	660	500	800	560	2,960	1,640	800	1,230	449
12	653	435	3,140	700	500	740	660	2,620	1,440	982	1,010	404
13	653	440	2,370	800	500	680	900	2,410	1,180	949	853	380
14	647	401	1,760	900	540	600	1,200	2,170	998	885	775	373
15	579	400	2,190	1,000	580	540	1,600	2,050	916	874	764	362
16	527	479	2,160	900	640	500	2,100	2,010	888	1,550	723	348
17	490	515	2,540	820	660	520	2,800	2,670	860	1,740	692	335
18	465	571	2,060	780	660	580	3,600	2,520	833	1,260	694	322
19	444	658	1,800	860	640	620	3,800	2,300	638	992	783	320
20	414	874	1,860	940	580	600	4,000	2,040	705	839	781	309
21	373	966	1,490	900	560	600	4,000	1,840	665	722	673	304
22	399	908	1,400	860	520	700	4,070	1,640	1,030	639	606	294
23	384	775	1,200	900	500	900	4,130	1,430	1,470	1,230	611	282
24	383	561	1,000	1,000	480	1,300	4,040	1,250	1,400	2,010	1,020	277
25	400	590	920	1,300	460	1,400	3,530	1,010	1,330	3,850	965	279
26	438	561	900	1,200	450	1,400	3,120	964	1,230	3,520	777	332
27	485	524	1,000	1,100	450	1,300	2,900	863	1,200	2,610	632	307
28	468	533	1,200	960	440	1,200	2,790	777	1,090	2,060	1,020	310
29	453	533	1,300	900	440	1,000	2,790	713	956	1,690	861	319
30	428	453	1,400	840	-----	940	3,140	674	879	1,430	635	428
31	425	-----	1,400	800	-----	900	-----	858	-----	1,200	531	-----
TOTAL	14,835	15,668	41,408	28,400	16,480	25,680	65,050	92,579	38,078	41,880	29,486	11,405
MEAN	479	522	1,336	916	568	828	2,168	2,986	1,269	1,351	951	380
MAX	653	966	3,140	1,300	760	1,400	4,130	8,570	2,700	3,850	2,050	621
MIN	373	377	385	660	440	440	560	674	638	639	531	277
CFSM	.78	.85	2.17	1.49	.92	1.34	3.52	4.85	2.06	2.19	1.54	.62
IN.	.90	.95	2.50	1.72	1.00	1.55	3.93	5.59	2.30	2.53	1.78	.69

CAL YR 1971 TOTAL 457,525 MEAN 1,253 MAX 8,890 MIN 309 CFSM 2.03 IN 27.63
WTR YR 1972 TOTAL 420,949 MEAN 1,150 MAX 8,570 MIN 277 CFSM 1.87 IN 25.42

PEAK DISCHARGE (BASE, 5,600 CFS)

DATE TIME G.H. DISCHARGE

5-04 1030 10.40 8,770

ST. LAWRENCE RIVER BASIN

04270000 SALMON RIVER AT CHASM FALLS, N.Y.

LOCATION.--Lat 44°45'22", long 74°13'09", Franklin County, on right bank 0.1 mile downstream from Niagara Mohawk Power Corp. powerplant at Chasm Falls, and 3.0 miles downstream from Duane Stream.

DRAINAGE AREA.--132 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 1,011.52 ft above mean sea level.

AVERAGE DISCHARGE.--47 years, 220 cfs.

EXTREMES.--Current year: Maximum discharge, 1,990 cfs May 4 (gage height, 4.19 ft); minimum, 19 cfs Oct. 6 (gage height, 0.57 ft); minimum daily, 95 cfs Nov. 16.

Period of record: Maximum discharge, 2,890 cfs Apr. 25, 1926 (gage height, 5.0 ft); minimum, 9.8 cfs Sept. 26, 27, 1963, minimum daily, 28 cfs Sept. 4, 1934.

REMARKS.--Records good. Seasonal regulation of flow by upstream reservoirs. Diurnal fluctuation at low and medium flow caused by powerplant. A small diversion from tributary stream above station is used as water supply for village of Malone.

REVISIONS (WATER YEARS).--WSP 729: 1931 (m). WSP 759: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	172	138	189	145	126	214	905	486	201	234	143
2	131	161	126	178	143	145	231	1,210	760	195	224	148
3	122	153	143	183	143	178	214	1,780	623	231	296	133
4	122	143	140	175	140	201	201	1,860	462	415	374	145
5	119	133	122	169	138	198	189	1,640	582	273	277	150
6	115	133	138	148	148	181	181	1,350	491	234	238	145
7	129	129	150	166	143	172	172	1,240	362	201	241	135
8	126	109	163	156	135	181	169	1,120	312	172	438	129
9	129	99	166	156	138	181	175	834	374	181	374	169
10	119	107	227	158	133	166	172	658	457	201	304	150
11	192	111	392	156	129	161	181	538	424	273	262	140
12	169	119	452	156	131	161	175	481	340	224	234	131
13	161	113	324	158	129	153	201	424	296	172	227	115
14	148	107	252	178	131	148	316	388	277	214	214	133
15	145	99	238	186	133	150	328	370	238	211	231	126
16	135	95	374	181	135	145	397	379	195	259	195	117
17	131	99	410	161	135	181	466	415	198	252	189	124
18	131	111	273	163	135	231	522	415	175	195	211	117
19	131	143	214	178	133	221	617	362	156	190	255	113
20	115	178	245	195	119	189	807	328	150	180	208	117
21	129	153	245	178	135	214	814	304	163	170	186	111
22	117	131	195	163	135	201	740	281	252	160	172	109
23	122	143	186	189	138	241	683	259	224	320	214	113
24	166	107	201	186	135	248	683	245	227	500	328	103
25	186	135	211	186	133	231	599	205	234	800	248	111
26	189	138	205	178	133	214	533	158	245	1,000	224	111
27	211	131	189	189	131	201	507	150	245	800	198	143
28	198	126	224	166	129	198	486	143	224	500	189	131
29	217	135	241	163	133	192	527	138	211	397	175	122
30	211	115	195	156	-----	201	683	133	192	308	163	156
31	178	-----	178	153	-----	208	-----	181	-----	262	156	-----
TOTAL	4,629	3,828	6,957	5,297	3,918	5,818	12,183	18,894	9,575	9,691	7,479	3,890
MEAN	149	128	224	171	135	188	406	609	319	313	241	130
MAX	217	178	452	195	148	248	814	1,860	760	1,000	438	169
MIN	115	95	122	148	119	126	169	133	150	160	156	103

CAL YR 1971 TOTAL 94,654 MEAN 259 MAX 1,740 MIN 95
WTR YR 1972 TOTAL 92,159 MEAN 252 MAX 1,860 MIN 95

04270200 LITTLE SALMON RIVER AT BOMBAY, N.Y.

LOCATION.--Lat 44°56'24", long 74°33'24", Franklin County, on right bank 50 ft downstream from bridge on road to Fort Covington Center, 0.5 mile east of village of Bombay, and 7.2 miles upstream from mouth.

DRAINAGE AREA.--93.6 sq mi.

PERIOD OF RECORD.--August to November 1957, July 1958 to current year. Occasional low-flow measurements, water years 1954-55, 1957.

GAGE.--Water-stage recorder. Datum of gage is 173.91 ft above mean sea level. August to November 1957, at site 100 ft upstream at datum 0.72 ft higher.

AVERAGE DISCHARGE.--14 years (1958-72), 110 cfs (15.96 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,770 cfs Apr. 14 (gage height, 9.22 ft); maximum gage height, 9.46 ft July 24; minimum discharge, 24 cfs Oct. 3, 4 (gage height, 1.66 ft).

Period of record: Maximum discharge, about 2,700 cfs Mar. 30, 1963; maximum gage height, 12.48 ft Mar. 27, 1963 (ice jam); minimum discharge, 8.0 cfs Aug. 6, 7, 1965 (gage height, 1.52 ft); minimum gage height, 0.85 ft Sept. 2, 1957 (site and datum then in use).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	32	49	76	60	58	240	296	298	72	72	51
2	25	31	48	70	60	64	310	324	408	65	70	47
3	25	31	47	64	58	70	360	600	245	68	85	44
4	25	30	46	60	60	76	370	665	155	286	188	46
5	27	35	45	58	62	80	350	740	203	127	111	48
6	27	35	52	54	66	80	330	485	130	80	77	44
7	28	40	60	52	68	78	320	412	99	63	233	40
8	30	46	80	52	62	74	310	301	83	54	830	43
9	29	37	110	52	60	78	300	221	187	51	283	59
10	31	37	298	54	58	90	360	178	278	54	238	55
11	54	46	786	60	56	90	560	154	290	68	132	46
12	73	50	382	66	56	82	760	148	155	58	97	39
13	57	50	184	80	58	78	1,000	132	111	50	87	39
14	48	49	110	94	66	74	1,560	121	91	56	81	41
15	52	56	70	84	70	72	1,150	118	79	58	82	40
16	43	50	332	72	76	80	912	138	74	284	70	37
17	37	46	234	66	80	140	865	235	70	196	66	35
18	35	52	124	64	78	230	783	163	62	86	73	34
19	33	76	90	70	72	210	879	128	57	262	130	40
20	32	99	120	90	68	190	785	109	54	218	89	39
21	30	79	156	80	64	180	623	100	63	108	68	35
22	30	73	117	70	62	180	496	90	212	79	58	33
23	30	62	64	64	58	190	542	81	130	408	109	31
24	30	55	102	82	54	270	498	74	109	1,030	165	32
25	33	50	164	110	52	250	346	68	102	503	100	33
26	41	49	127	90	52	240	283	64	173	308	74	37
27	46	49	114	76	52	220	259	61	149	247	91	38
28	41	49	96	70	52	210	241	58	96	165	203	36
29	37	50	129	66	54	210	238	54	74	124	114	34
30	34	49	118	64	-----	200	266	54	66	97	74	55
31	33	-----	86	62	-----	200	-----	109	-----	80	60	-----
TOTAL	1,124	1,493	4,540	2,172	1,794	4,344	16,296	6,481	4,303	5,405	4,210	1,231
MEAN	36.3	49.8	146	70.1	61.9	140	543	209	143	174	136	41.0
MAX	73	99	786	110	80	270	1,560	740	408	1,030	830	59
MIN	25	30	45	52	52	58	238	54	54	50	58	31

CAL YR 1971 TOTAL 55,350 MEAN 152 MAX 1,170 MIN 20
WTR YR 1972 TOTAL 53,393 MEAN 146 MAX 1,560 MIN 25

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-11	1430	7.08	1,100	7-24	0730	9.46	1,640
4-14	Unknown	9.22	1,770	8-08	0400	8.93	1,460

ST. LAWRENCE RIVER BASIN

04270510 CHATEAUGAY RIVER BELOW CHATEAUGAY, N.Y.

LOCATION.--Lat 44°57'49", long 74°07'53", Franklin County, on left bank 10 ft downstream from bridge on Sam Cook Road, 0.2 mile downstream from Marble River, 2.4 miles upstream from international boundary, and 4.1 miles northeast of Chateaugay.

DRAINAGE AREA.--151 sq mi.

PERIOD OF RECORD.--December 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 411.33 ft above mean sea level.

AVERAGE DISCHARGE.--6 years (1966-72) 231 cfs.

EXTREMES.--Current year: Maximum discharge, 1,740 cfs May 5 (gage height, 5.56 ft); minimum, 86 cfs Nov. 9, 14, 23 (gage height, 2.88 ft).

Period of record: Maximum discharge, 3,260 cfs Apr. 10 (gage height, 6.43 ft) from rating curve extended above 1,600 cfs; maximum gage height, 10.99 ft Feb. 11, 1966 (ice jam); minimum discharge, 45 cfs Aug. 31, 1969 (gage height, 2.66 ft); minimum daily, 61 cfs Nov. 15, 1967.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated at Forge Dam on Upper and Lower Chateaugay Lakes.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	96	100	220	130	120	268	728	333	205	324	185
2	116	98	100	210	130	120	283	872	335	197	260	179
3	113	95	110	210	130	120	321	1,280	316	273	258	164
4	116	96	110	200	130	120	355	1,290	280	296	242	174
5	114	98	110	200	130	150	323	1,550	289	251	196	163
6	114	98	110	190	120	150	305	1,210	277	211	177	158
7	113	101	110	190	120	150	293	1,270	270	190	318	155
8	105	95	112	180	120	150	283	1,120	269	199	295	160
9	99	94	119	170	120	150	255	1,050	340	193	265	162
10	105	97	160	160	120	140	241	849	386	181	272	144
11	114	98	292	170	120	140	252	626	359	190	249	129
12	106	98	177	170	120	140	290	510	318	212	225	127
13	103	96	150	180	120	140	414	354	302	204	218	128
14	107	96	137	190	130	130	590	351	288	204	221	125
15	104	96	148	200	150	130	552	337	246	209	208	124
16	102	95	204	200	160	130	730	364	250	250	190	123
17	100	94	165	190	170	150	891	379	232	253	186	122
18	101	99	155	190	160	180	827	370	203	243	196	121
19	100	106	150	180	160	220	1,290	374	198	306	197	122
20	100	103	140	180	150	300	1,220	384	196	322	192	119
21	99	101	140	170	150	280	1,150	377	207	334	190	110
22	100	99	140	160	140	270	1,060	367	213	316	183	94
23	99	94	140	160	140	270	1,130	336	205	478	232	93
24	99	125	130	150	130	270	1,030	300	221	606	214	93
25	104	102	130	140	130	245	905	252	225	693	199	94
26	103	99	130	140	120	232	817	248	237	746	200	96
27	100	99	130	140	120	222	734	245	227	856	200	92
28	100	101	140	130	120	218	686	223	210	793	202	92
29	98	100	180	130	120	219	631	173	203	649	193	97
30	96	100	220	130	-----	230	643	167	204	470	189	105
31	98	-----	230	130	-----	243	-----	186	-----	382	187	-----
TOTAL	3,256	2,969	4,569	5,360	3,860	5,729	18,769	18,142	7,839	10,912	6,878	3,850
MEAN	105	99.0	147	173	133	185	626	585	261	352	222	128
MAX	128	125	292	220	170	300	1,290	1,550	386	856	324	185
MIN	96	94	100	130	120	120	241	167	196	181	177	92
CAL YR 1971	TOTAL	98,525	MEAN	270	MAX	2,090	MIN	94				
WTR YR 1972	TOTAL	92,133	MEAN	252	MAX	1,550	MIN	92				

LOCATION.--Lat 44°40'54", long 73°28'18", Clinton County, on right bank at Plattsburgh, 600 ft downstream from Imperial Paper and Color Corp. dam, 3.0 miles upstream from mouth, and 5.5 miles downstream from Mead Brook.

PERIOD OF RECORD.--March 1903 to September 1930, October 1943 to current year. Published as "near Plattsburgh", 1903-30.

AVERAGE DISCHARGE.--56 years, 813 cfs.

Period of record: Maximum discharge, 11,500 cfs Apr. 8, 1928, from computation of flow over dam and through waste gates and powerplant; minimum daily, 10 cfs July 5, 1965.

REVISIONS (WATER YEARS).--WSP 354: Drainage area. WSP 384: 1909-10 (monthly discharge only). WSP 1387: 1907-8. WSP 1437: 1908 (minimum daily only).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	568	392	437	580	551	540	1,040	3,500	1,470	1,450	1,240	697
2	534	375	392	620	563	568	1,130	4,220	1,720	1,380	1,150	557
3	508	405	529	654	518	631	1,040	6,100	1,710	1,340	1,300	457
4	545	401	513	614	563	752	1,000	6,310	1,570	1,940	1,280	461
5	447	396	457	666	529	764	928	6,390	2,010	1,430	1,130	597
6	497	346	414	648	513	721	870	5,430	1,790	1,210	1,030	568
7	476	319	568	625	529	654	796	5,470	1,580	1,120	965	591
8	508	312	523	614	520	715	809	5,040	1,420	1,060	1,220	545
9	432	428	563	523	450	803	835	4,220	1,500	1,190	1,040	597
10	414	396	557	591	460	685	822	3,710	1,780	1,180	943	585
11	557	358	733	637	470	620	891	3,290	1,600	1,480	898	476
12	585	335	980	608	470	697	856	3,050	1,370	1,180	740	428
13	540	338	758	608	500	697	965	2,770	1,210	1,050	842	437
14	502	273	703	574	560	685	1,340	2,640	1,100	1,200	752	432
15	442	335	715	568	540	685	1,420	2,600	1,050	1,020	829	410
16	551	379	1,110	563	560	666	1,590	2,770	1,150	920	764	419
17	508	383	1,310	540	470	746	2,030	3,080	988	928	637	432
18	529	401	1,040	563	500	958	2,490	3,040	943	816	654	362
19	461	383	803	597	560	958	2,470	3,140	950	803	715	284
20	428	346	884	721	500	829	3,070	2,680	988	1,040	752	298
21	437	410	980	715	450	803	2,670	2,410	996	996	685	301
22	410	423	870	660	420	809	2,640	2,180	1,210	905	660	354
23	401	405	666	660	470	877	2,570	1,990	1,240	1,260	574	597
24	432	419	709	654	490	935	2,590	1,810	1,490	3,840	796	423
25	358	452	770	654	500	891	2,310	1,620	1,620	3,170	746	371
26	410	513	697	625	500	870	2,220	1,570	1,470	2,370	721	362
27	551	466	764	557	500	863	2,100	1,470	1,480	2,060	625	362
28	466	523	752	568	500	849	1,960	1,390	1,480	1,950	637	471
29	423	481	809	574	520	870	2,180	1,270	1,370	1,710	697	423
30	383	529	697	545	-----	928	2,730	1,250	1,330	1,540	715	523
31	354	-----	631	563	-----	943	-----	1,270	-----	1,390	703	-----
TOTAL	14,657	11,922	22,334	18,889	14,676	24,012	50,362	97,680	41,585	44,928	26,440	13,820
MEAN	473	397	720	609	506	775	1,679	3,151	1,386	1,449	853	461
MAX	585	529	1,310	721	563	958	3,070	6,390	2,010	3,840	1,300	697
MIN	354	273	392	523	420	540	796	1,250	943	803	574	284
CAL												

04275000 EAST BRANCH AUSABLE RIVER AT AU SABLE FORKS, N.Y.

LOCATION.--Lat 44°26'20", long 73°40'55", Essex County, on left bank 700 ft upstream from bridge on Burt Street in Au Sable Forks, and 0.5 mile upstream from confluence with West Branch.

DRAINAGE AREA.--198 sq mi.

PERIOD OF RECORD.--September 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 545.37 ft above mean sea level. 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.

AVERAGE DISCHARGE.--48 years, 300 cfs (20.58 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,300 cfs May 3 (gage height, 7.49 ft); minimum, 58 cfs Sept. 29 (gage height, 1.16 ft).
Period of record: Maximum discharge, 20,100 cfs Sept. 22, 1938 (gage height, 12.91 ft), from rating curve extended above 5,800 cfs on basis of velocity-area studies; minimum observed, 20 cfs Aug. 11, 14, 28, 1934.

REMARKS.--Records good except those for winter periods and period of no gage-height record, which are poor. Occasional regulation of storage in Upper and Lower Ausable Lakes and occasional small diurnal fluctuation, cause unknown.

REVISIONS.--WSP 759: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	75	92	180	96	88	210	1,670	956	626	206	90
2	76	73	86	170	86	170	200	3,030	696	473	181	80
3	70	116	90	160	82	400	190	5,480	505	392	250	80
4	66	121	88	150	82	320	180	3,810	390	655	252	230
5	66	111	84	150	82	280	160	3,020	368	450	198	180
6	62	104	94	140	82	250	150	1,620	298	352	167	130
7	67	105	100	140	82	220	150	2,490	257	285	168	98
8	66	126	110	140	82	200	160	1,830	240	252	210	110
9	63	107	140	150	84	180	150	1,300	335	243	202	110
10	71	101	219	180	90	160	140	931	516	222	194	100
11	174	96	361	170	100	140	150	840	438	336	155	92
12	173	89	454	170	110	130	170	859	321	263	137	84
13	149	86	284	180	130	130	220	1,040	260	212	126	80
14	129	79	216	200	140	120	280	1,490	225	195	135	78
15	112	96	191	180	100	120	380	2,350	215	192	147	76
16	102	88	431	160	88	210	700	2,620	1,430	363	122	72
17	92	90	450	140	88	400	964	2,230	797	297	114	70
18	86	80	350	130	88	800	1,030	2,520	499	230	120	78
19	82	94	270	150	88	600	1,360	1,690	355	192	134	86
20	78	172	240	170	88	500	1,850	1,330	336	173	119	94
21	76	173	210	140	86	420	1,070	1,090	293	204	109	89
22	71	150	170	130	86	380	834	943	1,660	173	94	76
23	70	131	130	150	86	700	801	745	1,400	960	94	66
24	68	123	140	200	86	580	853	644	3,900	961	120	62
25	74	120	140	220	86	480	669	544	1,950	607	96	66
26	98	120	140	190	86	420	585	439	1,140	592	98	63
27	103	120	200	160	86	350	531	370	816	675	130	62
28	96	110	280	140	86	300	514	337	967	613	150	63
29	85	100	360	130	86	250	648	307	753	439	170	60
30	79	94	270	120	-----	230	987	276	559	311	140	128
31	77	-----	200	110	-----	220	-----	464	-----	245	110	-----
TOTAL	2,762	3,250	6,590	4,900	2,642	9,748	16,286	48,309	22,875	12,183	4,648	2,753
MEAN	89.1	108	213	158	91.1	314	543	1,558	763	393	150	91.8
MAX	174	173	454	220	140	800	1,850	5,480	3,900	961	252	230
MIN	62	73	84	110	82	88	140	276	215	173	94	60
CFSM	.45	.55	1.08	.80	.46	1.59	2.74	7.87	3.85	1.98	.76	.46
IN.	.52	.61	1.24	.92	.50	1.83	3.06	9.08	4.30	2.29	.87	.52

CAL YR 1971 TOTAL 101,112 MEAN 277 MAX 2,480 MIN 35 CFSM 1.40 IN 19.00
WTR YR 1972 TOTAL 136,946 MEAN 374 MAX 5,480 MIN 60 CFSM 1.89 IN 25.73

PEAK DISCHARGE (BASE, 3,700 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
5-03	0800	7.49	6,300	6-24	1600	7.14	5,630

NOTE.--No gage-height record Aug. 22 to Sept. 20.

ST. LAWRENCE RIVER BASIN

04278000 LAKE GEORGE AT ROGERS ROCK, N.Y.

LOCATION.--Lat 43°48'28", long 73°27'30", Essex County, on west shore about 500 ft north of Hooper's dock at Rogers Rock, and 0.4 mile west of Baldwin.

DRAINAGE AREA.--233 sq mi at outlet at Ticonderoga.

PERIOD OF RECORD.--July 1913 to current year.

GAGE.—Water-stage recorder. Datum of gage is 315.93 ft above mean sea level, adjustment of 1912. Prior to Nov. 4, 1929, nonrecording gages at several sites within a half a mile of present site at same datum. Nov. 4, 1929, to Sept. 26, 1936, nonrecording gage at present site and datum.

EXTREMES.--Current year: Maximum gage height, 4.62 ft May 6; minimum, 2.70 ft Nov. 13.
Period of record: Maximum gage height observed, 5.09 ft Apr. 9, 1936; minimum, 0.64 ft Dec. 20, 1941.

REMARKS.--Elevation of lake regulated by powerplant wheel gate and floodgates at Ticonderoga. Lake George has been controlled by a dam at its outlet for more than 100 years. Area of water surface is 44 sq mi.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.13	2.95	2.98	3.62	3.50	2.95	3.12	4.03	3.79	4.05	3.47	3.72
2	3.13	2.96	2.99	3.63	3.44	2.97	3.14	4.06	3.78	4.04	3.41	3.67
3	3.02	2.97	3.01	3.70	3.43	3.07	3.15	4.18	3.74	3.94	3.51	3.62
4	3.10	2.95	2.94	3.64	3.54	3.08	3.14	4.31	3.71	3.97	3.43	3.59
5	3.06	2.94	2.95	3.61	3.49	3.09	3.14	4.52	3.65	3.94	3.47	3.54
6	3.04	2.95	3.00	3.67	3.44	3.09	3.11	4.55	3.70	3.89	3.46	3.48
7	3.03	2.93	2.98	3.68	3.41	3.06	3.12	4.54	3.70	3.84	3.50	3.45
8	3.01	2.89	2.99	3.65	3.40	3.05	3.11	4.52	3.73	3.80	3.60	3.42
9	3.00	2.86	3.02	3.69	3.37	3.02	3.10	4.50	3.72	3.76	3.61	3.38
10	3.01	2.87	3.03	3.65	3.33	3.00	3.09	4.50	3.67	3.75	3.60	3.39
11	3.09	2.84	3.11	3.65	3.30	2.97	3.07	4.48	3.72	3.77	3.58	3.42
12	3.05	2.84	3.14	3.65	3.28	2.95	3.06	4.45	3.73	3.77	3.58	3.37
13	3.04	2.76	3.18	3.68	3.23	2.91	3.10	4.41	3.69	3.74	3.54	3.39
14	3.04	2.79	3.16	3.65	3.26	2.91	3.17	4.39	3.71	3.70	3.54	3.39
15	3.02	2.80	3.19	3.67	3.25	2.95	3.24	4.33	3.77	3.67	3.52	3.41
16	2.99	2.80	3.32	3.66	3.21	2.96	3.26	4.31	3.78	3.62	3.55	3.41
17	2.96	2.82	3.32	3.67	3.17	3.01	3.38	4.32	3.73	3.58	3.56	3.41
18	3.00	2.82	3.33	3.67	3.15	3.12	3.50	4.29	3.74	3.53	3.57	3.38
19	2.97	2.85	3.38	3.67	3.14	3.13	3.60	4.24	3.78	3.52	3.54	3.35
20	3.00	2.84	3.41	3.65	3.18	3.14	3.79	4.23	3.80	3.55	3.52	3.41
21	2.98	2.82	3.45	3.63	3.14	3.10	3.89	4.20	3.79	3.58	3.54	3.45
22	2.99	2.81	3.42	3.65	3.13	3.13	3.94	4.13	3.75	3.52	3.54	3.43
23	2.92	2.80	3.44	3.64	3.09	3.19	3.97	4.11	3.81	3.57	3.53	3.41
24	2.93	2.81	3.49	3.63	3.06	3.22	4.02	4.04	3.95	3.58	3.55	3.43
25	2.96	2.82	3.47	3.71	3.04	3.22	4.02	3.97	4.00	3.60	3.56	3.42
26	2.96	2.90	3.47	3.67	3.03	3.23	4.04	3.96	4.04	3.58	3.55	3.44
27	2.98	2.89	3.44	3.63	3.07	3.18	4.03	3.91	4.05	3.55	3.59	3.41
28	2.99	2.91	3.51	3.61	3.03	3.16	4.04	3.86	4.03	3.55	3.82	3.39
29	2.96	2.90	3.53	3.60	2.99	3.15	4.03	3.82	3.99	3.51	3.80	3.43
30	2.95	2.97	3.49	3.55	-----	3.14	4.04	3.79	3.98	3.50	3.78	3.47
31	2.97	-----	3.55	3.53	-----	3.13	-----	3.77	-----	3.50	3.75	-----
MEAN	3.01	2.87	3.25	3.65	3.24	3.07	3.48	4.22	3.80	3.69	3.57	3.45
MAX	3.13	2.97	3.55	3.71	3.54	3.23	4.04	4.55	4.05	4.05	3.82	3.72
MIN	2.92	2.76	2.94	3.53	2.99	2.91	3.06	3.77	3.65	3.50	3.41	3.

ST. LAWRENCE RIVER BASIN

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04278300 NORTHWEST BAY BROOK NEAR BOLTON LANDING, N.Y.

LOCATION.--Lat 43°39'48", long 73°36'14", Warren County on left bank, 10 ft downstream from county bridge on Padanarum Road, 7.7 miles north and east of Bolton Landing.

DRAINAGE AREA.--23.4 sq. mi.

PERIOD OF RECORD.--October 1965 to September 1968, October 1971 to September 1972. Annual maximum water years 1969-71.

GAGE.--Water-stage recorder. Datum of gage is 424.60 ft above mean sea level, datum of 1929.

EXTREMES.--Current year: Maximum discharge, 1,280 cfs Aug. 27 (gage height, 4.53 ft); minimum, 2.9 cfs Oct. 6, 8 (gage height, 0.32 ft).

Period of record: Maximum discharge, 1,280 cfs Aug. 27, 1972 (gage height, 4.53 ft); minimum recorded, 0.28 cfs Sept. 27, 28, 29, 1968 (gage height, 0.18 ft).

REMARKS.--Records fair prior to January 1971 and poor thereafter.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	4.1	18	29	19	14	48	261	20	82	10	36
2	4.8	5.9	28	26	19	18	43	269	17	50	10	29
3	4.4	8.0	17	24	18	40	44	394	16	48	24	24
4	4.4	7.5	16	23	18	100	44	179	20	41	23	21
5	4.4	7.1	15	22	19	70	46	124	24	32	16	18
6	3.5	6.3	17	22	19	54	56	97	16	27	13	16
7	3.2	10	21	22	18	37	79	80	15	22	15	14
8	3.2	12	20	21	17	30	80	76	19	20	57	14
9	3.5	9.6	20	21	16	28	70	68	19	19	32	16
10	9.2	9.2	31	20	16	26	59	62	16	72	32	14
11	13	8.8	110	19	16	24	51	59	14	93	22	12
12	9.2	8.0	86	19	15	23	50	50	12	49	18	11
13	7.5	7.5	56	19	15	22	46	44	12	35	16	11
14	6.7	6.7	43	19	16	21	44	42	11	29	20	11
15	5.5	7.1	42	25	20	21	55	44	11	24	23	9.4
16	5.5	17	105	35	18	21	115	50	23	22	16	8.2
17	4.8	16	95	28	17	50	174	82	16	20	15	7.7
18	4.8	14	66	24	15	130	145	60	13	17	15	12
19	4.1	13	140	22	14	100	341	20	11	20	14	28
20	4.1	19	160	22	13	72	368	17	13	19	12	15
21	4.1	18	47	20	12	57	397	15	12	22	10	12
22	3.8	17	59	19	12	55	236	13	17	17	8.2	10
23	3.5	14	105	18	12	117	188	12	24	49	11	8.2
24	3.8	13	51	17	12	164	195	11	141	30	14	8.2
25	7.1	13	31	18	12	114	166	10	99	33	11	8.2
26	7.5	16	33	24	12	86	143	9.4	99	27	9.6	8.2
27	6.3	14	25	40	12	72	141	9.4	69	20	295	8.8
28	5.5	14	31	27	12	66	143	9.2	57	17	307	7.3
29	5.1	15	28	22	12	57	147	9.2	48	15	123	6.9
30	4.8	18	25	21	-----	55	153	12	83	13	70	14
31	4.1	-----	25	20	-----	66	-----	16	-----	11	46	-----
TOTAL	166.5	348.8	1,566	708	446	1,810	3,867	2,204.2	967	995	1,307.8	419.1
MEAN	5.37	11.6	50.5	22.8	15.4	58.4	129	71.1	32.2	32.1	42.2	14.0
MAX	13	19	160	40	20	164	397	394	141	93	307	36
MIN	3.2	4.1	15	17	12	14	43	9.2	11	11	8.2	6.9
CFSM	.23	.50	2.16	.97	.66	2.50	5.51	3.04	1.38	1.37	1.80	.60
IN.	.26	.55	2.49	1.13	.71	2.88	6.15	3.50	1.54	1.58	2.08	.67

WTR YR 1972 TOTAL 14,805.4 MEAN 40.5 MAX 397 MIN 3.2 CFSM 1.73 IN 23.54

PEAK DISCHARGE (BASE, 400 CFS)

NOTE.--Doubtful gage-height record June 9 to Sept. 30.

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
4-09	2015	3.25	580	8-27	Unknown	4.53	1,280
5-02	1445	3.17	640				

ST. LAWRENCE RIVER BASIN

04279000 LAKE GEORGE OUTLET AT TICONDEROGA, N.Y.

LOCATION (Revised).--Lat 43°50'38", long 73°25'57", Essex County, on right bank 250 ft downstream from International Paper Co. "C" Mill dam, at Ticonderoga, 250 ft upstream from Trout Brook, and 0.5 mile downstream from upper ("A" Mill) dam.

DRAINAGE AREA.--234 sq mi.

PERIOD OF RECORD.--August 1904 to December 1905, October 1942 to current year.

GAGE.--Water-stage recorder and concrete control on river channel. Datum of gage is 190.41 ft above mean sea level. Prior to June 25, 1971 turbine gate-opening recorder in powerplant at "C" Mill dam. Prior to Dec. 31, 1905, nonrecording gage at site 2,000 ft upstream at different datum.

AVERAGE DISCHARGE.--30 years (1942-72) 286 cfs.

EXTREMES.--Current year: Maximum daily discharge, 1,100 cfs May 6, 11; minimum daily, 23 cfs Sept. 28.

1942-72: Maximum daily discharge, 1,290 cfs June 5, 6, 1947; minimum daily, 6.1 cfs July 6, 1952.

REMARKS.--Records fair except those for periods of doubtful or no gage-height record, which are poor. Prior to June 25, 1971 discharge in tailrace determined from rating for turbine gate developed from discharge measurements. From June 25, 1971 leakage through inoperative turbine gate determined from periodic discharge measurements. Records represent total discharge from Lake George and include flow in river channel and in tailrace. Flow regulated by Lake George (see station 04278000). Water-quality records for the current year are published in Part 2 of this report for station 04279015 Ticonderoga Creek at Ticonderoga.

REVISIONS (WATER YEARS).--WRD N.Y. 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	41	39	34	432	417	702	953	459	989	354	656
2	169	42	39	35	424	410	702	963	447	989	231	647
3	166	43	32	36	424	410	702	1,030	445	947	106	637
4	119	43	31	35	440	410	711	1,060	434	968	104	637
5	87	43	30	102	417	410	711	1,090	433	957	104	627
6	71	44	31	194	432	410	693	1,100	272	947	104	609
7	48	44	31	194	432	410	693	1,080	141	926	106	428
8	48	44	31	189	432	410	673	1,070	120	915	109	36
9	48	44	32	189	440	410	683	1,080	120	905	104	36
10	50	44	33	184	440	410	683	1,090	120	915	104	36
11	50	44	44	184	440	410	673	1,100	120	915	104	36
12	50	44	33	184	440	410	673	1,080	120	915	104	36
13	50	43	32	189	440	410	693	1,080	120	905	104	36
14	49	43	32	184	440	409	711	1,070	120	895	104	36
15	47	41	33	184	432	409	731	1,050	120	895	104	32
16	47	39	36	184	424	409	740	1,050	120	877	104	25
17	47	40	33	184	410	497	769	1,050	120	857	104	25
18	47	40	32	220	410	597	801	1,050	120	848	104	25
19	47	40	32	290	410	617	811	1,050	120	571	104	28
20	47	40	32	314	417	664	831	1,050	120	354	104	24
21	46	40	33	307	417	702	851	1,050	120	360	104	25
22	46	40	33	314	417	702	871	1,050	120	354	104	24
23	45	39	32	314	417	731	891	1,050	120	360	106	24
24	45	39	33	314	417	731	931	1,050	420	360	104	24
25	45	38	33	372	417	731	951	1,050	694	368	104	24
26	45	38	33	447	417	731	963	1,010	829	360	104	24
27	44	38	32	440	417	711	953	1,010	915	360	116	24
28	43	39	35	440	417	702	963	1,010	937	360	486	23
29	42	39	33	440	417	702	953	1,010	968	354	665	24
30	41	39	33	440	-----	702	953	1,010	968	354	656	24
31	41	-----	33	440	-----	702	-----	711	-----	354	656	-----
TOTAL	1,939	1,235	1,031	7,577	12,329	16,786	23,666	32,157	10,282	21,434	5,671	4,892
MEAN	62.5	41.2	33.3	244	425	541	789	1,037	343	691	183	163
MAX	169	44	44	447	440	731	963	1,100	968	989	665	656
MIN	41	38	30	34	410	409	673	711	120	354	104	23

CAL YR 1971 TOTAL 116,355 MEAN 319 MAX 1,020 MIN 30
WTR YR 1972 TOTAL 138,999 MEAN 380 MAX 1,100 MIN 23

NOTE.--Doubtful or no gage-height record Jan. 25 to Mar. 20, May 17 to June 19.

ST. LAWRENCE RIVER BASIN

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ST. LAWRENCE RIVER BASIN

04280000 Poultney River below Fair Haven, Vt.

LOCATION.--Lat 43°37'40", long 73°18'50", Rutland County, on right bank 0.3 mile downstream from Carver Falls, 1.9 miles upstream from Hubbardton River, and 3.2 miles northwest of Fair Haven.

DRAINAGE AREA.--187 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 105 ft (from topographic map).

AVERAGE DISCHARGE.--44 years, 231 cfs (16.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,100 cfs May 5 (gage height, 12.43 ft); minimum daily, 20 cfs Oct. 9, Sept. 26.

Period of record: Maximum discharge, 14,800 cfs July 20, 1945 (gage height, 24.36 ft, from high-water mark in gage well), from rating curve extended above 2,400 cfs on basis of computations of peak flow over dam at gage heights 16.10, 21.40, and 24.36 ft; minimum daily, 2.1 cfs Aug. 8, 1965.

REMARKS.--Records good except those for winter period and period of no gage-height record, which are poor. Flow regulated by powerplant above station and by Lake Bomoseen.

REVISIONS (WATER YEARS).--WSP 1114: 1929(M), 1932-35.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	182	110	300	330	100	778	498	201	253	250	350
2	47	166	140	350	290	150	863	460	186	173	210	300
3	56	122	120	330	170	1,500	714	693	125	171	180	220
4	28	120	100	285	140	1,100	669	1,250	121	387	200	130
5	47	104	110	260	180	800	569	2,390	172	269	150	90
6	39	92	120	280	190	600	589	1,470	163	218	130	70
7	37	72	150	290	200	520	548	1,140	128	210	120	45
8	39	84	230	260	190	520	490	953	159	158	110	50
9	20	81	320	230	220	560	485	919	188	109	100	50
10	52	78	260	210	180	500	561	867	173	101	110	40
11	213	77	900	240	120	490	619	703	161	495	100	35
12	189	73	1,100	260	110	470	627	667	106	396	84	30
13	149	46	800	260	105	420	840	575	84	261	75	35
14	161	60	600	593	150	350	1,250	463	102	229	80	43
15	114	42	550	480	190	280	971	389	85	190	90	10
16	126	48	911	370	270	230	919	384	124	181	80	40
17	129	60	1,010	310	190	400	1,380	466	171	178	70	32
18	122	52	748	280	150	1,300	1,670	434	107	133	74	28
19	119	48	564	280	150	950	1,390	383	82	97	70	40
20	123	39	470	280	130	650	1,550	351	63	179	64	75
21	114	56	410	260	180	550	1,550	348	51	131	56	70
22	110	68	350	270	150	590	1,200	289	93	111	50	55
23	114	69	290	210	150	1,200	1,120	264	94	237	50	44
24	112	63	310	270	140	920	1,080	137	130	284	56	31
25	126	41	400	350	130	720	1,010	185	254	462	62	23
26	169	42	300	460	125	610	884	164	361	689	64	20
27	179	62	280	400	120	560	787	103	374	605	68	60
28	190	60	270	360	115	508	700	111	275	508	150	33
29	186	70	270	340	110	513	653	102	128	421	500	36
30	173	80	240	330	-----	595	632	56	160	357	650	25
31	167	-----	210	350	-----	594	-----	102	-----	302	500	-----
TOTAL	3,506	2,257	12,643	9,748	4,875	19,250	27,098	17,356	4,621	8,495	4,553	2,150
MEAN	113	75.2	408	314	168	621	903	560	154	274	147	71.7
MAX	213	182	1,100	593	330	1,500	1,670	2,390	374	689	650	350
MIN	20	39	100	210	105	100	485	96	51	97	50	20
CFSM	.60	.40	2.18	1.68	.90	3.32	4.83	2.99	.82	1.47	.79	.38
IN.	.70	.45	2.52	1.94	.97	3.83	5.39	3.45	.92	1.69	.91	.43

CAL YR 1971 TOTAL 93,824.0 MEAN 257 MAX 1,990 MIN 5.2 CFSM 1.37 IN 18.66
WTR YR 1972 TOTAL 116,552.0 MEAN 318 MAX 2,390 MIN 20 CFSM 1.70 IN 23.19

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-5	0745	12.43	3,100				

NOTE.--No gage-height record Aug. 1 to Sept. 26.

ST. LAWRENCE RIVER BASIN

04294500 Lake Champlain at Burlington, Vt.

LOCATION.--Lat 44°28'52", long 73°13'27", Chittenden County, 50 ft south of Gulf Oil Co. dock at Burlington, 0.1 mile north of Burlington Water Department pumping station, and 0.5 mile north of railroad station.

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

GAGE.--Water-stage recorder. Datum of gage is 92.86 ft above mean sea level. Prior to July 20, 1937, nonrecording gage at site 0.7 mile south, and July 20, 1937, to Sept. 7, 1939, nonrecording gage at site 0.1 mile south, both at present datum.

EXTREMES.--Current year: Maximum gage height, 8.57 ft May 9, 10; minimum, 1.72 ft Nov. 19, Dec. 6, affected by seiche.
Period of record: Maximum gage height observed, 8.65 ft Mar. 27, 28, 1936; minimum observed, -0.25 ft Dec. 4, 1908.

REVISIONS (WATER YEARS).--WSP 684: 1912-29 (datum correction). WSP 1207: 1938 (datum correction).

MEAN GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.10	2.27	1.89	2.71	2.58	2.29	4.05	6.64	6.50	4.99	4.89	3.81
2	3.06	2.26	1.85	2.71	2.56	2.30	4.21	6.81	6.50	4.99	4.87	3.75
3	3.01	2.25	1.83	2.71	2.54	2.37	4.32	7.07	6.45	4.98	4.87	3.71
4	2.96	2.22	1.83	2.71	2.60	2.42	4.40	7.46	6.35	4.96	4.81	3.66
5	2.90	2.19	1.81	2.70	2.57	2.44	4.45	7.88	6.25	4.94	4.80	3.63
6	2.87	2.05	1.76	2.70	2.54	2.47	4.47	8.21	6.20	4.90	4.75	3.56
7	2.85	2.09	1.83	2.69	2.52	2.49	4.48	8.38	6.10	4.83	4.68	3.49
8	2.82	2.11	1.83	2.68	2.49	2.50	4.47	8.52	6.05	4.75	4.70	3.45
9	2.80	2.09	1.82	2.67	2.48	2.52	4.44	8.57	5.90	4.68	4.70	3.43
10	2.78	2.03	1.87	2.65	2.46	2.54	4.43	8.57	5.80	4.60	4.65	3.38
11	2.78	2.04	1.95	2.63	2.44	2.55	4.44	8.50	5.85	4.57	4.62	3.31
12	2.77	2.03	2.19	2.61	2.39	2.55	4.46	8.45	5.85	4.55	4.56	3.27
13	2.77	2.01	2.37	2.59	2.38	2.55	4.53	8.38	5.75	4.54	4.50	3.20
14	2.76	1.97	2.45	2.57	2.37	2.57	4.69	8.28	5.70	4.52	4.47	3.17
15	2.75	1.94	2.47	2.58	2.34	2.55	4.83	8.22	5.65	4.46	4.43	3.11
16	2.73	1.92	2.53	2.60	2.35	2.57	4.98	8.19	5.50	4.46	4.38	3.06
17	2.71	1.89	2.68	2.61	2.35	2.56	5.12	8.17	5.55	4.49	4.28	2.97
18	2.69	1.85	2.79	2.59	2.34	2.64	5.32	8.12	5.56	4.50	4.21	2.97
19	2.68	1.78	2.80	2.57	2.39	2.82	5.51	8.05	5.44	4.49	4.19	2.99
20	2.61	1.82	2.79	2.56	2.41	2.96	5.79	7.93	5.36	4.50	4.17	2.97
21	2.60	1.85	2.82	2.55	2.38	3.06	6.03	7.84	5.27	4.49	4.10	2.86
22	2.57	1.89	2.83	2.55	2.37	3.13	6.19	7.75	5.24	4.53	4.03	2.82
23	2.56	1.85	2.79	2.56	2.36	3.26	6.31	7.62	5.17	4.62	4.00	2.78
24	2.52	1.82	2.73	2.57	2.36	3.47	6.41	7.51	5.15	4.74	4.02	2.71
25	2.47	1.84	2.77	2.58	2.35	3.62	6.51	7.41	5.16	4.84	4.00	2.66
26	2.49	1.85	2.74	2.60	2.34	3.69	6.54	7.25	5.15	4.93	3.98	2.64
27	2.47	1.81	2.74	2.63	2.33	3.75	6.56	7.15	5.12	5.00	3.94	2.63
28	2.42	1.80	2.73	2.65	2.30	3.77	6.56	7.00	5.09	5.03	3.94	2.58
29	2.44	1.82	2.74	2.65	2.30	3.79	6.56	6.85	5.05	5.04	3.93	2.44
30	2.42	1.92	2.77	2.63	-----	3.84	6.57	6.75	5.01	5.02	3.91	2.47
31	2.30	-----	2.79	2.60	-----	3.93	-----	6.60	-----	4.97	3.85	-----
MEAN	2.70	1.98	2.38	2.63	2.42	2.90	5.25	7.75	5.66	4.74	4.36	3.12
MAX	3.10	2.27	2.83	2.71	2.60	3.93	6.57	8.57	6.50	5.04	4.89	3.81
MIN	2.30	1.78	1.76	2.55	2.30	2.29	4.05	6.60	5.01	4.46	3.85	2.44

CAL YR 1971 MEAN 3.54 MAX 8.37 MIN 1.76
WTR YR 1972 MEAN 3.83 MAX 8.57 MIN 1.76

NOTE.--No gage-height record Oct. 1-18, Jan. 5 to Feb. 1, May 27 to June 17.

ST. LAWRENCE RIVER BASIN

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04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, N.Y.

LOCATION.--Lat 44°59'46", long 73°21'37", Clinton County, on left bank at outlet of Lake Champlain, and 1.0 mile south of Fort Montgomery.

DRAINAGE AREA.--8,277 sq mi.

PERIOD OF RECORD.--October 1863 to December 1870 (maximum and minimum monthly gage heights at St. Johns, Quebec, published in WSP 97) and March 1871 to current year (daily gage heights prior to October 1970, elevations thereafter; those for 1871-1907 published in WSP 894). Gage heights prior to Oct. 1, 1925, published as Richelieu River at Fort Montgomery, Rouses Point. Discharge records for January 1875 to September 1916 at Chambly, Quebec published in WSP 65, 82, 97, 129, 170, 206, 424, and 1307 have been found to be unreliable and should not be used. Daily discharge record for Richelieu River at Fryers Rapids, Quebec, published in Water Survey of Canada annual reports.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. March 1871 to May 1923, nonrecording gage located in Fort Montgomery and May 1923 to October 1938, nonrecording gage at present site. Prior to October 1970 at datum 93.00 ft higher.

EXTREMES.--Current year: Maximum elevation, 101.54 ft May 11; minimum, 94.36 ft Nov. 30.

Period of record: Maximum elevation observed, 101.80 ft Mar. 30, 1903; minimum observed, 92.17 ft Oct. 23, 1941.

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.

REMARKS.--Area of lake surface about 490 sq mi. Total volume below 92.5 ft elevation, reported by Lake Champlain Studies Center, 902.2 billion cu ft. Water-quality records for the current year are published in Part 2 of this report.

ELEVATION, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96.01	95.12	94.64	95.71	95.43	95.00	96.92	99.57	99.36	97.86	97.84	96.75
2	95.88	95.22	94.70	95.63	95.39	95.01	97.07	99.71	99.35	97.82	97.73	96.72
3	95.80	95.11	94.77	95.59	95.41	95.21	97.19	100.02	99.31	97.68	97.84	96.58
4	96.11	95.09	94.62	95.52	95.44	95.27	97.30	100.36	99.22	97.78	97.65	96.50
5	95.76	95.06	94.65	95.51	95.43	95.33	97.35	100.78	99.10	97.78	97.69	96.45
6	95.77	95.44	94.81	95.57	95.39	95.35	97.35	101.20	99.09	97.74	97.69	96.43
7	95.68	94.92	94.63	95.57	95.34	95.38	97.36	101.26	98.95	97.70	97.70	96.41
8	95.64	94.85	94.65	95.47	95.35	95.37	97.35	101.38	98.92	97.64	97.59	96.39
9	95.73	94.91	94.74	95.62	95.32	95.39	97.35	101.44	98.78	97.58	97.62	96.24
10	95.64	95.03	94.73	95.46	95.30	95.41	97.35	101.44	98.68	97.60	97.50	96.16
11	95.72	94.82	95.04	95.45	95.28	95.42	97.37	101.42	98.71	97.48	97.47	96.22
12	95.64	94.85	95.14	95.44	95.27	95.40	97.40	101.32	98.72	97.48	97.49	96.12
13	95.69	94.77	95.18	95.49	95.22	95.38	97.45	101.29	98.58	97.47	97.35	96.16
14	95.69	94.79	95.28	95.40	95.21	95.39	97.59	101.26	98.54	97.41	97.30	96.06
15	95.63	94.78	95.57	95.44	95.21	95.40	97.78	101.13	98.52	97.45	97.21	96.05
16	95.54	94.72	95.45	95.43	95.17	95.42	97.91	101.07	98.41	97.34	97.21	95.99
17	95.53	94.74	95.45	95.55	95.18	95.45	98.07	101.05	98.40	97.37	97.26	96.05
18	95.60	94.79	95.51	95.50	95.19	95.61	98.28	101.00	98.37	97.39	97.21	95.82
19	95.48	94.88	95.68	95.44	95.18	95.76	98.47	100.92	98.37	97.36	97.06	95.67
20	95.63	94.71	95.73	95.41	95.25	95.87	98.73	100.88	98.29	97.39	96.99	95.75
21	95.46	94.68	95.67	95.38	95.25	95.93	98.94	100.74	98.15	97.40	96.99	95.89
22	95.44	94.54	95.59	95.53	95.21	96.02	99.10	100.62	97.98	97.39	96.98	95.64
23	95.32	94.63	95.74	95.42	95.21	96.18	99.25	100.53	98.03	97.44	96.92	95.63
24	95.36	94.72	95.81	95.40	95.19	96.36	99.34	100.33	98.00	97.59	96.87	95.72
25	95.42	94.60	95.56	95.48	95.18	96.49	99.41	100.21	97.99	97.71	96.86	95.62
26	95.31	94.61	95.64	95.43	95.18	96.56	99.48	100.13	97.98	97.78	96.82	95.58
27	95.36	94.68	95.60	95.49	95.20	96.60	99.49	99.99	97.97	97.85	96.88	95.42
28	95.35	94.64	95.61	95.50	95.16	96.62	99.52	99.84	97.93	97.87	96.86	95.44
29	95.26	94.61	95.59	95.50	95.13	96.65	99.49	99.71	97.90	97.87	96.78	95.76
30	95.17	94.52	95.54	95.49	-----	96.73	99.53	99.64	97.86	97.88	96.76	95.37
31	95.62	-----	95.57	95.46	-----	96.80	-----	99.45	-----	97.93	96.76	-----
MEAN	95.59	94.83	95.25	95.49	95.26	95.77	98.17	100.64	98.52	97.61	97.25	96.02
MAX	96.11	95.44	95.81	95.71	95.44	96.80	99.53	101.44	99.36	97.93	97.84	96.75
MIN	95.17	94.52	94.62	95.38	95.13	95.00	96.92	99.45	97.86	97.34	96.76	95.37
CAL YR 1971	MEAN 96.41		MAX 101.21	MIN 94.52								
WTR YR 1972	MEAN 96.71		MAX 101.44	MIN 94.52								

ST. LAWRENCE RIVER BASIN

LAKES IN ST. LAWRENCE RIVER BASIN

04260990 CRANBERRY LAKE AT CRANBERRY LAKE, N.Y.--Lat 44°13'14", long 74°50'55", St. Lawrence County, on right wall at outlet structure, at village of Cranberry Lake. Drainage area 144 sq mi. Period of record, April 1923 to current year. Nonrecording gage read daily at 1200. Datum of gage is 1,469.75 ft above mean sea level. Extremes for current year: Maximum contents observed, 2,530,000,000 cu ft June 4-7, 19, 20 (gage height, 17.0 ft); minimum contents observed, 737,000,000 cu ft Apr. 13 (gage height, 9.7 ft). Extremes for period of record: Maximum contents observed, 2,985,000,000 cu ft May 13-15, 1971 (gage height, 18.5 ft); minimum contents observed, 70,000,000 cu ft Apr. 1-4, 1956 (gage height, 6.0 ft).

Dam completed in 1867 and controlled storage for which records are available began in 1923. Usable capacity above elevation 1475.25 ft is 2,530,000,000 cu ft. 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 sq mi. Records furnished by Oswegatchie River-Cranberry Reservoir Commission.

04266700 CARRY FALLS RESERVOIR NEAR SOUTH COLTON, N.Y.--Lat 44°26'07", long 74°44'50", St. Lawrence County, near center of upstream wall of dam between Carry Falls and Stark Falls Reservoirs, 2.0 miles southeast of Stark, and 8.8 miles southeast of South Colton. Drainage area 873 sq mi. Period of record, October 1954 to current year. Nonrecording gage. Datum of gage is at mean sea level. Extremes for 1971 water year: Maximum contents observed, 5,132,200,000 cu ft June 28 (elevation, 1,386.0 ft); minimum observed, 221,200,000 cu ft Apr. 10 (elevation 1,337.6 ft). Extremes for current year: Maximum contents observed, 5,104,500,000 cu ft May 27 (elevation, 1,385.8 ft); minimum observed, 405,200,000 cu ft Apr. 16 (elevation, 1,340.7 ft). Extremes for period of record: Maximum contents observed, 5,146,000,000 cu ft June 1, 5, 6, 1955 (elevation, 1,386.1 ft); minimum observed, 8,640,000 cu ft Mar. 27-30, 1963, Apr., 4-11 1964 (elevation, 1,331.0 ft).

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 5,114,900,000 cu ft. 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 sq mi (3,300 acres). The pond has a length of 6 miles and a perimeter of 25 miles. Below crest elevation, capacity controlled by a Taintor gate (27 ft x 15 ft) and 2 sluice gates (10 ft x 10 ft). Records furnished by Niagara Mohawk Power Corp.

04273900 LAKE PLACID AT LAKE PLACID, N.Y.--See station for mean daily gage heights.

04278000 LAKE GEORGE AT ROGERS ROCK, N.Y.--See station for mean daily gage heights.

04294500--LAKE CHAMPLAIN AT BURLINGTON, VT.--See station for mean daily gage heights.

04295000--RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, N.Y.--See station for mean daily elevations.

MONTHEND ELEVATIONS AND CONTENTS, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

Date	Elevation (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)
04266700 Carry Falls Reservoir			
Sept. 30.....	1,371.6	3,234.8	
Oct. 31.....	1,373.2	3,428.4	+ 72.3
Nov. 30.....	1,375.3	3,693.6	+102
Dec. 31.....	1,381.0	4,441.0	+279
CAL YR 1970			+ 69.9
Jan. 31.....	1,369.0	2,937.6	-561
Feb. 28.....	1,360.2	2,007.9	-384
Mar. 31.....	1,345.3	720.6	-481
Apr. 30.....	1,352.0	1,252.8	+205
May 31.....	1,385.4	5,049.2	+1,420
June 30.....	1,384.8	4,966.3	- 32.0
July 31.....	1,380.2	4,330.4	-237
Aug. 31.....	1,374.5	3,589.9	-276
Sept. 30.....	1,376.9	3,901.0	+120
WTR YR			+ 21.1

MONTHEND GAGE HEIGHTS OR ELEVATIONS, AND CONTENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

Date	Gage heights (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (cubic feet)	Change in contents (equivalent in cfs)
04260990 Cranberry Lake				04266700 Carry Falls Reservoir		
Sept. 30....	13.7	1,632		1,376.9	3,901.0	
Oct. 31.....	12.6	1,364	-100	1,364.8	2,484.9	-529
Nov. 30.....	12.1	1,252	- 43.2	1,362.1	2,204.9	-108
Dec. 31.....	13.7	1,632	+142	1,376.3	3,823.2	+604
CAL YR 1971			+ 3.93			
Jan. 31.....	13.9	1,684	+ 19.4	1,375.5	3,719.5	- 38.7
Feb. 28.....	12.8	1,412	-109	1,369.9	3,038.7	-272
Mar. 31.....	11.0	1,010	-150	1,358.7	1,863.6	-439
Apr. 30.....	12.8	1,412	+155	1,350.3	1,105.9	-292
May 31.....	16.6	2,410	+373	1,384.7	4,952.4	+1,440
June 30.....	16.7	2,440	+11.6	1,384.4	4,911.0	- 16.0
July 31.....	16.3	2,324	-43.3	1,384.8	4,966.3	+ 20.6
Aug. 31.....	15.6	2,128	-73.2	1,378.9	4,160.2	-301
Sept. 30....	14.0	1,710	-161	1,362.4	2,236.0	-742
WTR YR 1972			+ 2.47			

Note.--Figures of total contents expressed in millions.

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

Discharge measurements made at low-flow partial-record stations during water year 1972

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Streams on Long Island						
01302200	Whitney Lake Outlet at Manhasset, N. Y.	Lat 40°47'30", long 73°42'32", Nassau County, at bridge on Creek Road, at Manhasset, 0.25 mile northwest of State Highway 25A.	-	1953-72	1-20-72	0.39
					5-23-72	2.0
					8-31-72	.42
01302300	Roslyn Brook at Roslyn, N. Y.	Lat 40°47'55", long 73°38'51", Nassau County, at Roslyn, 200 ft downstream from dam in Roslyn Park.	-	1953-72	12-10-71	.22
					3-10-72	.30
					3-31-72	.31
					8-14-72	.38
01302800	Island Swamp Brook at Lattinatown, N. Y.	Lat 40°53'25", long 73°37'10", Nassau County, at bridge on Lattinatown Road, 0.3 mile southwest of Lattinatown, and 1.5 miles northwest of Locust Valley.	-	1953-72	12-10-71	.56
					3-10-72	.59
					3-31-72	.80
					8-14-72	.57
01303600	Mill Creek near Huntington, N. Y.	Lat 40°52'56", long 73°25'17", Suffolk County, at culvert on Creek Road, 300 ft west of New York Ave., 1 mile northeast of Huntington.	-	1953-72	1-14-72	3.5
					3-10-72	2.7
					8-30-72	2.7
01303700	Stony Hollow Run at Centerport, N. Y.	Lat 40°53'05", long 73°21'41", Suffolk County, at culvert on State Highway 25A, 0.25 mile east of Centerport, and 1.5 miles southwest of Northport.	-	1953-72	1-14-72	.91
					3-10-72	.99
					6-12-72	.86
					8-31-72	.73
01303790	Northeast Branch Nissequogue River near East Hauppauge, N. Y.	Lat 40°50'27", long 73°10'41", Suffolk County, at culvert on State Highway 347, 1.5 miles northwest of East Hauppauge, and 4 miles upstream from gaging station near Smithtown.	-	1972	8-22-72	0
01303800	Northeast Branch Nissequogue River at Smithtown, N. Y.	Lat 40°51'05", long 73°11'15", Suffolk County, 300 ft upstream from culvert on State Highway 111, 0.75 mile southeast of Smithtown, and 3 miles upstream from gaging station near Smithtown.	-	1948-49, 1951-72	1-14-72	1.7
					2-29-72	3.0
					6-12-72	1.3
					8-22-72	1.2
01303850	Northeast Branch Nissequogue River near Hauppauge, N. Y.	Lat 40°50'43", long 73°11'50", Suffolk County, at culvert on Maple Avenue, 0.75 mile south of Smithtown, and 2.5 miles upstream from gaging station near Smithtown.	-	1972	12- 3-71	2.8
					2-29-72	3.7
					6-12-72	1.7
					8-22-72	.93
01303900	Northeast Branch Nissequogue River near Smithtown, N. Y.	Lat 40°50'45", long 73°12'29", Suffolk County, 10 ft upstream from culvert at Brookside Drive, 0.75 mile southwest of Smithtown, and 2 miles upstream from gaging station near Smithtown.	-	1953-72	12- 3-71	4.3
					2-29-72	5.2
					6-12-72	3.1
					8-22-72	2.4
01303941	Nissequogue River near Hauppauge, N. Y.	Lat 40°50'30", long 73°13'43", Suffolk County, 30 ft downstream from dam at New Mill Road, 2 miles northwest of Hauppauge, and 0.5 mile upstream from gaging station near Smithtown.	-	1972	8-22-72	9.4

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Streams on Long Island--Continued						
01304100	Wading River at Wading River, N. Y.	Lat 40°57'20", long 72°51'19", Suffolk County, at pond outlet, 0.25 mile west of Wading River.	-	1953-62, 1964-72	1-14-72	.14
					6- 8-72	.19
					8-22-72	.56
01304400	Peconic River at Manorville, N. Y.	Lat 40°52'38", long 72°49'42", Suffolk County, at bridge on Schultz Road, 1 mile northwest of Manorville, and 8.5 miles upstream from gaging station at Riverhead.	-	1948-49, 1951-72	11- 1-71	.34
					1-20-72	.89
					4-10-72	3.3
					8-10-72	4.5
01304450	Peconic River at Calverton, N. Y.	Lat 40°54'20", long 72°44'35", Suffolk County, at culvert on Edwards Avenue, 0.2 mile south of Calverton, and 3.0 miles upstream from gaging station at Riverhead.	-	1971-72	11- 1-71	6.0
					1-20-72	9.8
					4-10-72	19
					8-10-72	18
01304530	Little River near Riverhead, N. Y.	Lat 40°53'52", long 72°40'30", Suffolk County, at Wildwood Lake outlet, 500 ft east of Moriches-Riverhead Road, 1.5 miles southwest of Riverhead.	-	1952-72	1-20-72	3.1
					4-11-72	4.0
					7- 7-72	6.0
					9- 6-72	5.0
01304600	Big Fresh Pond Outlet at North Sea, N. Y.	Lat 40°55'49", long 72°25'04", Suffolk County, at culvert on Noyack Road, at North Sea, 3.5 miles northwest of Southampton.	-	1951-69, 1971-72	1-24-72	1.1
					6- 9-72	1.9
					8-29-72	.53
01304630	Mill Creek at Noyack, N. Y.	Lat 40°59'35", long 72°21'00", Suffolk County, 50 ft upstream from culvert on Noyack Road, 0.25 mile west of Noyack.	-	1958-72	1-24-72	.56
					5-24-72	.80
					8-22-72	.69
01304730	Poxabogue Pond Outlet at Sagaponack, N. Y.	Lat 40°55'48", long 72°17'16", Suffolk County, at culvert on Sagg St., at Sagaponack, and 1 mile southeast of Bridgehampton.	-	1953-72	2-10-72	1.4
					8-29-72	2.6
01304780	Aspatuck Creek near Westhampton Beach, N. Y.	Lat 40°49'04", long 72°38'13", Suffolk County, at culvert on Brook Road, at Westhampton Beach.	-	1959-72	2-10-72	1.5
					5-19-72	3.0
					8-30-72	1.6
01304800	Beaverdam Creek at Westhampton, N. Y.	Lat 40°49'23", long 72°39'42", Suffolk County, at culvert on Old Country Road, 100 ft northwest of State Highway 27, and 1 mile northwest of Westhampton.	-	1953-72	2-10-72	.95
					5-19-72	2.5
					8-29-72	2.3
01304860	Seatuck Creek at Eastport, N. Y.	Lat 40°49'30", long 72°43'43", Suffolk County, 15 ft downstream from culvert, on State Highway 27, at Eastport.	-	1953-72	2-10-72	3.4
					5-19-72	5.5
					8-30-72	3.9
01304960	Forge River at Moriches, N. Y.	Lat 40°48'22", long 72°50'00", Suffolk County, at culvert on State Highway 27, at Moriches.	-	1948-50, 1952-72	11-19-71	6.2
					2-29-72	6.7
01304990	Carmans River at Middle Island, N. Y.	Lat 40°51'47", long 72°56'35", Suffolk County, at culvert on East Bartlett Road, 0.75 mile south of Middle Island, and 3 miles upstream from gaging station at Yaphank.	-	1947-72	11-12-71	0
					1-19-72	.02
					6- 9-72	.50
					7- 7-72	.54
					9-27-72	.15
01305300	Mud Creek at East Patchogue, N. Y.	Lat 40°45'47", long 72°58'59", Suffolk County, at culvert on South Country Road, at East Patchogue, 2 miles east of Patchogue.	-	1947-69, 1971-72	12- 9-71	2.6
					2-29-72	3.7
					6- 9-72	4.2
					8-23-72	4.0
01305800	Patchogue River near Patchogue, N. Y.	Lat 40°46'55", long 73°01'19", Suffolk County, at bridge on discontinued road, 300 ft west of North Ocean Ave., and 1 mile north of State Highway 27A and gaging station at Patchogue.	-	1945-50, 1952-72	11-17-71	7.2
					1-17-72	5.3
					5-24-72	11
					8-23-72	9.4
01306000	Patchogue River at Patchogue, N. Y.	Lat 40°45'56", long 73°01'16", Suffolk County, State Highway 27A, at Patchogue.	-	1946-69 [†] , 1970-72	11-17-71	15
					1-17-72	24
					5-24-72	19
					9-19-72	25
01306400	Green Creek at West Sayville, N. Y.	Lat 40°43'51", long 73°05'32", Suffolk County, 30 ft upstream from State Highway 27A, at West Sayville.	-	1953-72	12-29-71	4.2
					5-24-72	5.1
					8-29-72	3.5
01306405	Lake Ronkonkoma Inlet at Lake Ronkonkoma, N. Y.	Lat 40°49'57", long 73°07'34", Suffolk County, 300 ft southeast of Smithtown Blvd., 0.2 mile west of Lake Ronkonkoma.	-	1948-49, 1953-54, 1956-72	11-19-71	.15
					1-18-72	.38
					5-26-72	.61
					8-23-72	.27

[†] Operated as continuous-record gaging station.

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Streams on Long Island--Continued						
01306440	Connetquot Brook at Central Islip, N. Y.	Lat 40°47'33", long 73°09'58", Suffolk County, at culvert on Veterans Memorial Highway, 2 miles northeast of Central Islip, and 3.8 miles upstream from gaging station near North Great River.	-	1968, 1971-72	8-13-68 a 11-19-71 13-16-71 2-28-72	1.7 .88 2.2 2.6
01306460	Connetquot Brook near Central Islip, N. Y.	Lat 40°46'18", long 73°09'31", Suffolk County, 20 ft downstream from bridge on private road, and 1.8 miles upstream from gaging station 01306499.	-	1968, a 1972	8-13-68 2-18-72	14 22
01306470	Connetquot Brook near Oakdale, N. Y.	Lat 40°45'47", long 73°09'10", Suffolk County, downstream from fish hatchery, and 1.1 miles upstream from gaging station 01306499.	-	1968, 1972	8-13-68 a 12-16-71 2-28-72 8-17-72	19 22 27 26
01306700	Rattlesnake Brook near Oakdale, N. Y.	Lat 40°44'52", long 73°08'45", Suffolk County, 50 ft downstream from State Highway 27, 1.5 miles northwest of Oakdale.	-	1944-69, 1971-72	12- 9-71 5-24-72 8-29-72	21 16 11
01307000	Champlin Creek at Islip, N. Y.	Lat 40°44'13", long 73°12'08", Suffolk County, at Long Island Railroad bridge, 220 ft downstream from Moffitt Boulevard, at Islip.	-	1948-69 [†] , 1970-72	12-16-71 2-28-72 3-31-72 6-14-72 8-14-72	5.7 7.6 7.2 5.7 4.4
01307300	Pardees Ponds Outlet at Islip, N. Y.	Lat 40°43'40", long 73°13'16", Suffolk County, at culvert on State Highway 27A, at Islip.	-	1948-72	1-12-72 5-18-72 9-14-72	3.2 3.4 .50
01307400	Awixa Creek at Islip, N. Y.	Lat 40°43'39", long 73°13'51", Suffolk County, at culvert on State Highway 27A, 0.75 mile west of Islip.	-	1948-72	1-12-72 2-29-72 5-24-72 8-24-72	1.7 1.9 2.8 .49
01307600	Cascade Lakes Outlet at Brightwaters, N. Y.	Lat 40°42'40", long 73°15'38", Suffolk County, at culvert on Montauk Highway, at Brightwaters.	-	1958-71	2-10-72 5-18-72 9-18-72	1.8 3.2 2.6
01307920	Sampawams Creek near Deer Park, N. Y.	Lat 40°44'27", long 73°18'24", Suffolk County, 30 ft downstream from Bay Shore Road, and 2.5 miles upstream from gaging station at Babylon.	-	1965-66, 1972	9-27-65 a 3-22-66 a 2-23-72	0 0 1.1
01307950	Sampawams Creek near North Babylon, N. Y.	Lat 40°43'37", long 73°18'46", Suffolk County, 120 ft downstream from Hunter Avenue, and 1.6 miles upstream from gaging station at Babylon.	-	1967, 1971-72	5-23-67 a 11-22-71 1-17-72 2-23-72 6- 7-72 8-24-72	1.7 .58 1.6 2.0 3.3 1.1
01308200	Sampawams Creek below Hawleys Lake, at Babylon, N. Y.	Lat 40°41'48", long 73°19'04", Suffolk County, at pond outlet, 200 ft upstream from State Highway 27A, at Babylon, and 0.5 mile downstream from gaging station at Babylon.	-	1953-67, 1969-72	11-22-71 1-17-72 2-23-72 6- 7-72 8-24-72	5.9 9.0 8.7 12 5.9
01308600	Carlls River at Park Avenue, Babylon, N. Y.	Lat 40°42'06", long 73°19'43", Suffolk County, at culvert on Park Avenue, at Babylon, and 2,600 ft downstream from gaging station at Babylon.	-	1968-72	11-9-71 1-21-72 2-22-72 6- 7-72 8-16-72	16 23 33 32 24
01309000	Santapogue Creek at Lindenhurst, N. Y.	Lat 40°41'30", long 73°21'20", Suffolk County, at culvert on East Hoffman Avenue, 1 mile east of Long Island Railroad station at Lindenhurst.	-	1947-69 [†] , 1970-72	11- 8-71 1-18-72 3-30-72	.78 2.4 3.8
01309100	Santapogue Creek at State Highway 27A, Lindenhurst, N. Y.	Lat 40°41'02", long 73°21'06", Suffolk County, at culvert on State Highway 27A, 0.5 mile downstream from gaging station at Lindenhurst.	-	1953-69, 1971-72	1-21-72	7.3
01309200	Neguntatogue Creek at Lindenhurst, N. Y.	Lat 40°40'47", long 73°21'40", Suffolk County, 20 ft upstream from State Highway 27A, in Lindenhurst.	-	1948-50, 1952-72	1-21-72 2-22-72 6- 6-72 9-13-72	4.6 5.3 3.1 1.9

† Operated as continuous-record gaging station.

a Not previously published.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Streams on Long Island--Continued						
01309250	Strong's Creek at Lindenhurst, N. Y.	Lat 40°41'22", long 73°22'40", Suffolk County, 30 ft upstream from State Highway 27A, at Lindenhurst.	-	1953-69, 1971-72	11- 8-71	1.2
					4- 5-72	1.9
					9-13-72	1.2
01309350	Amityville Creek at Amityville, N. Y.	Lat 40°40'13", long 73°24'51", Suffolk County, 100 ft upstream from State Highway 27A, at Amityville.	-	1953-72	11- 8-72	1.7
					2-22-72	3.0
					5-17-72	4.0
					8-14-72	2.1
01309400	Carman Creek at Amityville, N. Y.	Lat 40°40'09", long 73°26'02", Nassau County, at bridge on State Highway 27A, 0.75 mile west of Amityville.	-	1949, 1953-69, 1971-72	1-14-72	4.6
					8-17-72	4.1
01309700	Seaford Creek at Seaford, N. Y.	Lat 40°40'00", long 73°28'57", Nassau County, at bridge on State Highway 27A, in Seaford.	-	1953-72	1-14-72	.61
					4- 5-72	1.4
					8-17-72	2.5
01309800	Seamans Creek at Seaford, N. Y.	Lat 40°39'56", long 73°29'37", Nassau County, at culvert on State Highway 27A, 0.2 mile west of Seaford.	-	1953-67, 1971-72	1-14-72	.61
					5-18-72	3.5
					8-17-72	2.0
01310100	Newbridge Creek at Merrick, N. Y.	Lat 40°39'42", long 73°32'02", Nassau County, downstream from bridge on Merrick Road in Merrick.	-	1963-72	2-11-72	.57
					8-16-72	.20
01310200	Cedar Swamp Creek at Merrick, N. Y.	Lat 40°39'39", long 73°32'24", Nassau County, at bridge on State Highway 27A, in Merrick, 2.5 miles east of Freeport.	-	1953-62, 1965-72	3-20-72	8.7
					6- 6-72	11
					8-16-72	4.6
01310600	Millburn Creek at Baldwin, N. Y.	Lat 40°39'04", long 73°36'13", Nassau County, 50 ft downstream from bridge on State Highway 27A, 0.5 mile east of Baldwin.	-	1953-72	12-10-71	6.0
					1-12-72	6.4
					2-11-72	7.1
					5-17-72	8.6
					8-16-72	6.0
01310700	Parsonage Creek at Baldwin, N. Y.	Lat 40°38'48", long 73°36'59", Nassau County, 20 ft downstream from bridge on Foxhurst Road, at Baldwin.	-	1953-69, 1971-72	2-11-72	3.4
					8-16-72	2.2
01310800	South Pond Outlet at Rockville Centre, N. Y.	Lat 40°40'00", long 73°39'08", Nassau County, at bridge on Lakeview Ave., 0.75 mile north of Rockville Centre.	-	1953-72	12- 2-71	.04
					2-11-72	.06
					5- 3-72	.25
					8-14-72	.17
01311200	Motts Creek at Valley Stream, N. Y.	Lat 40°39'01", long 73°42'45", Nassau County, 50 ft downstream from bridge on Rosedale Road, 1 mile southwest of Valley Stream.	-	1954-72	2-11-72	.30
					5- 3-72	.62
					8-14-72	0
01311700	Valley Stream below West Branch, at Valley Stream, N. Y.	Lat 40°39'47", long 73°42'21", Nassau County, 200 ft downstream from West Branch, 500 ft downstream from bridge on West Valley Stream Blvd., at village park in Valley Stream, and 500 ft downstream from gaging station.	-	1953-72	12- 2-71	0
					2-11-72	0
					5- 3-72	0
					8-14-72	0
Hudson River Basin						
01351300	Cobleskill Creek at Cobleskill, N. Y.	Lat 42°40'51", long 74°27'56", Schoharie County, at bridge on State Highway 7, 1.0 mile east of Cobleskill.	118	1949-50, 1956-62, 1967, 1971-72	10-21-71	5.6
					10-26-71	9.0
					10-28-71	9.5
					8-28-72	5.8
01360550	Stony Kill near East Chatham, N. Y.	Lat 42°23'22", long 73°33'05", Columbia County, at bridge on Percy Hill Road, 0.5 mile upstream from unnamed tributary draining Southland Pond, and 2 miles southwest of East Chatham.	32.7	1962-65, 1972	10-28-71	17
01360570	Indian Creek near Chatham, N. Y.	Lat 42°21'11", long 73°34'34", Columbia County, at bridge on relocated State Highway 203, 0.4 mile upstream from Punsit Creek, and 1.3 miles east of intersection of State Highway 203 and 66 in Chatham.	12.4	1962-66, 1972	10-28-71	7.7
01360580	Punsit Creek near Chatham, N. Y.	Lat 42°20'50", long 73°34'31", Columbia County, at bridge on Moorhouse Corner Road, 0.15 mile upstream from Indian Creek, 0.25 mile southwest of Moorhouse Corner, and 1.5 miles southeast of intersection of State Highways 203 and 66 in Chatham.	16.0	1962-66, 1972	10-28-71	9.1

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Hudson River Basin--Continued						
01360600	Kline Kill near Valatie, N. Y.	Lat 42°22'33", long 73°37'53", Columbia County, at bridge on State Highway 203, 2.2 miles upstream from mouth, and 3.4 miles southeast of Valatie.	35.8	1961-65, 1972	10-28-71	22
Susquehanna River basin						
01500980	Beaver Creek near South Edmeston, N. Y.	Lat 42°43'36", long 75°18'10", Chenango County, at bridge on State Highway 8, about 1 mile upstream from mouth, 1.4 miles north of Columbus Quarter, and 3 miles north of South Edmeston.	32.7	1962-66, 1970, 1972	6- 8-72	45
01500990	Center Brook at New Berlin, N. Y.	Lat 42°38'39", long 75°19'48", Chenango County, at bridge on State Highway 8, 0.4 mile upstream from mouth, and 0.8 mile north of New Berlin.	22.4	1970-72	6- 8-72	19
01501510	Great Brook at Holmesville, N. Y.	Lat 42°31'04", long 75°23'35", Chenango County, at bridge on State Highway 8, 0.5 mile north of Holmesville, and 0.7 mile upstream from mouth.	25.9	1962-66, 1970, 1972	6- 8-72	27
01502680	Big Brook near Bennettsville, N. Y.	Lat 42°15'40", long 75°28'25", Chenango County, at bridge on County Highway 39, 0.7 mile upstream from mouth, and 1.5 miles west of Bennettsville.	39.6	1962-65, 1970-72	6- 8-72	27
01502710	Wylie Brook at Harpursville, N. Y.	Lat 42°11'26", long 75°37'02", Broome County, at bridge on State Highway 7, 0.3 mile north-east of Harpursville, and 0.4 mile west of Ninevah.	24.8	1962-65, 1970, 1972	6- 8-72	19
01502712	Belden Brook at Harpursville, N. Y.	Lat 42°10'50", long 75°37'26", Broome County, at bridge on Maple Street at Harpursville, and 0.5 mile upstream from mouth.	11.6	1962-65, 1970, 1972	6- 8-72	7.2
01502720	Sage Creek at Ouaquaga, N. Y.	Lat 42°07'04", long 75°39'22", Broome County, at bridge on State Highway 79, 0.1 mile upstream from mouth, and 1 mile south of Ouaquaga.	13.0	1962-65, 1970-72	6- 8-72	12
01502730	Occanum Creek at Windsor, N. Y.	Lat 42°04'54", long 75°38'26", Broome County, at bridge on state Highway 79, 0.25 mile upstream from mouth, and 0.4 mile north of Windsor.	14.4	1962-65, 1970-72	6- 8-72	8.3
01502740	Tuscarora Creek at Damascus, N. Y.	Lat 42°03'20", long 75°36'46", Broome County, at bridge on old State Highway 17 at Damascus, and 0.5 mile upstream from mouth.	8.74	1962-65, 1970-72	6- 8-72	8.9
01503300	Park Creek near Binghamton, N. Y.	Lat 42°05'38", long 75°48'29", Broome County, at bridge on U.S. Highway 11, 0.3 mile upstream from mouth, and 1.1 miles east of city line of Binghamton.	15.7	1962-66, 1970-72	6- 8-72	9.2
01504900	Handsome Brook at Sherburne, N. Y.	Lat 42°41'26", long 75°30'15", Chenango County, at bridge on State Highway 12B, 0.4 mile upstream from mouth, 0.5 mile north of village line at Sherburne.	37.9	1962-66, 1970-72	6- 8-72	63
01505020	Cold Brook near North Norwich, N. Y.	Lat 42°35'39", long 75°31'48", Chenango County, at bridge on State Highway 12, 0.4 mile upstream from mouth, and 1.6 miles south of North Norwich.	6.50	1962-66, 1970, 1972	6- -8-72	11
01508200	Labrador Creek at Truxton, N. Y.	Lat 42°42'43", long 76°01'51", Cortland County, at bridge on State Highway 13 at Truxton, and 0.8 mile upstream from mouth.	13.7	1962-66, 1970, 1972	6-15-72	16
01508400	Chenango Creek near Truxton, N. Y.	Lat 42°40'43", long 76°02'47", Cortland County, at bridge on county road, 1.2 miles upstream from mouth, and 2.6 miles south of Truxton.	30.0	1962-66, 1970, 1972	6-15-72	30
01508700	Cold Brook at Little York, N. Y.	Lat 42°41'08", long 76°10'11", Cortland County, at bridge on State Highway 281, 0.4 mile upstream from mouth, and 0.75 mile south of Little York.	15.4	1962-66, 1970, 1972	6-15-72 8-17-72	22 5.9

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Susquehanna River basin--Continued						
01508800	Factory Brook at Homer, N. Y.	Lat 42°38'39", long 76°11'18", Cortland County, at bridge on State Highway 41 at Homer, and about 1 mile upstream from mouth.	15.8	1962-66, 1970, 1972	6-15-72 7-29-72 8-17-72 8-21-72 9-17-72	20 10 7.8 6.2 5.7
01509020	Trout Brook near near Blodgett Mills, N. Y.	Lat 42°35'09", long 76°07'47", Cortland County, at bridge on U.S. Highway 11, 0.4 mile upstream from mouth, and 1.2 miles north of Blodgett Mills.	40.5	1962-66, 1970, 1972	6-15-72	33
01509200	Gridley Creek at Messengerville, N. Y.	Lat 42°29'19", long 76°04'26", Cortland County, at bridge on Francis Road at Messengerville, and 0.1 mile upstream from mouth.	16.1	1962-66, 1970, 1972	6-15-72	12
01509400	Jennings Creek at Killawog, N. Y.	Lat 42°24'05", long 76°01'17", Broome County, at bridge on Whiting Hill Road at Killawog, and 0.3 mile upstream from mouth.	14.4	1962-66, 1970	5-30-72	5.5
01509900	Pond Creek at Taylor, N. Y.	Lat 42°34'01", long 75°53'33", Cortland County, at bridge on State Highway 26 at Taylor, and 0.6 mile upstream from mouth.	7.49	1962-66, 1970, 1972	6-15-72	6.9
01511600	Halfway Brook near Itaska, N. Y.	Lat 42°17'04", long 75°53'23", Broome County, at bridge on State Highway 79, 0.1 mile upstream from mouth, and 1.4 miles southeast of Itaska.	21.8	1962-66, 1970, 1972	5-30-72	4.4
01512550	Page Brook near Port Crane, N. Y.	Lat 42°11'53", long 75°49'31", Broome County, at bridge on town road, 0.25 mile west of State Highway 369, 0.9 mile upstream from mouth, and about 2 miles north of Port Crane.	34.1	1962-66, 1970, 1972	5-30-72	10
01512650	Osborne Creek at Port Crane, N. Y.	Lat 42°10'06", long 75°49'47", Broome County, at bridge on State Highway 369 at Port Crane, 0.15 mile upstream from mouth, and 0.45 mile downstream from Ballyhack Creek.	24.9	1962-66, 1970, 1972	5-30-72	4.0
01512780	Thomas Creek at Chenango Bridge, N. Y.	Lat 42°10'08", long 75°52'56", Broome County, at bridge on State Highway at Chenango Bridge, 0.15 mile upstream from mouth, and 0.25 mile east of State Highway 12.	8.69	1962-67, 1970, 1972	5-30-72	10.0
01513100	Fuller Hollow Creek at Johnson City, N. Y.	Lat 42°05'48", long 75°57'56", Broome County, at bridge on Vestal Road, 0.1 mile upstream from mouth, and 0.3 mile south of Johnson City.	3.52	1962-66, 1970, 1972	6- 8-72	2.5
01513400	Patterson Creek at Endwell, N. Y.	Lat 42°06'58", long 76°01'13", Broome County, at bridge on Pine Street at Endwell, and 1.1 miles upstream from mouth.	7.03	1962-65, 1968, 1970, 1972	5-30-72	.74
01513810	Tracy Creek near Vestal, N. Y.	Lat 42°04'02", long 76°06'11", Tioga County, at bridge on Owego Road at Ross Corners, 0.4 mile upstream from mouth, and 2.5 miles west of Vestal.	8.75	1962, 1964-66, 1970, 1972	5-30-72	1.2
01513820	Apalachin Creek at Apalachin, N. Y.	Lat 42°03'44", long 76°08'57", Broome County, at bridge on old State Highway 17 at Apalachin, and 0.35 mile upstream from mouth.	43.7	1962-66, 1970	5-30-72	8.7
01513830	Little Nanticoke Creek near Owego, N. Y.	Lat 42°05'32", long 76°13'02", Tioga County, at bridge on State Highway 17C, 1 mile upstream from Barnes Creek, 1.4 miles upstream from mouth, and 1.5 miles east of Owego.	20.7	1962-66, 1970, 1972	5-30-72	3.1
01513910	Wilson Creek near Newark Valley, N. Y.	Lat 42°14'36", long 76°10'41", Tioga County, at bridge on State Highway 38, 0.1 mile upstream from East Branch Owego Creek, and 1.4 miles north of Newark Valley.	15.8	1962-66, 1970, 1972	5-30-72	4.4
01513990	Doolittle Creek at Weltonville, N. Y.	Lat 42°11'43", long 76°14'51", Tioga County, at bridge on State Highway 330, at Weltonville, 0.3 mile upstream from mouth, and 6 miles south of Jenkinsville.	17.0	1962-66, 1970, 1972	5-30-72	28

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

			Measurements			
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Date	Discharge (cfs)
Susquehanna River basin--Continued						
01514880	Pipe Creek at Tioga Center, N. Y.	Lat 42°03'34", long 76°20'45", Tioga County, at bridge on State Highway 17 at Tioga Center, and 0.2 mile upstream from mouth.	46.5	1962-66, 1970, 1972	6-15-72	8.9
01514900	Wappasening Creek at Nichols, N. Y.	Lat 42°01'17", long 76°21'45", Tioga County, at bridge on State Highway 283 at Nichols and 0.2 mile upstream from mouth.	72.1	1962-66, 1970-71	6- 9-72	39
01514950	Ellis Creek near Barton, N. Y.	Lat 42°00'32", long 76°31'33", Tioga County, at bridge on State Highway 17, 0.6 mile upstream from mouth, and 3 miles south-west of Barton.	16.0	1962-66, 1970-72	6- 9-72	6.4
Streams Tributary to Lake Erie						
04213420	Elton Creek at The Forks, N. Y.	Lat 42°31'05", long 78°31'00", Cattaraugus County, at highway bridge at The Forks, and 0.2 mile upstream from mouth.	71.1	1963-64, 1970-72	6-19-72	46
*04213490	South Branch Cattaraugus Creek near Otto, N. Y.	Lat 42°21'54", long 78°48'06", Cattaraugus County, at highway bridge, 0.2 mile upstream from Mansfield Creek, and 1.7 miles northeast of Otto.	25.6	1962-64, 1970-72	6-19-72	6.9
04214010	Clear Creek near Iroquois, N. Y.	Lat 42°32'34", long 79°00'56", Erie County, at bridge on State Highway 438, 1 mile upstream from mouth, and 1.7 miles northwest of Iroquois.	56.4	1963-64, 1970-72	6- 8-72	12
04214030	Muddy Creek near Farnham, N. Y.	Lat 42°36'54", long 79°04'54", Erie County, at bridge on Reeves Road, 0.9 mile southeast of Angola Lake Shore addition, 1.5 miles north of Farnham, and 1.5 miles upstream from mouth.	11.1	1963-64, 1970-72	6- 8-72	.46
*04214040	Delaware Creek near Angola, N. Y.	Lat 42°37'46", long 79°03'15", Erie County, at bridge on State Highway 5, 1.5 miles southwest of Angola, and 1.6 miles upstream from mouth.	8.15	1963-64, 1970-72	6- 8-72	1.5
04214060	Big Sister Creek at Evans Center, N. Y.	Lat 42°39'24", long 79°02'09", Erie County, at bridge on State Highway 5, at Evans Center, and 1.5 miles upstream from mouth.	48.4	1958, 1963-64, 1970-72	6- 8-72	2.9
04214230	South Branch Eighteenmile Creek at Eden Valley, N. Y.	Lat 42°40'34", long 78°52'26", Erie County, at highway bridge, at Eden Valley, 300 feet upstream from bridge on State Highway 62, and 2.9 miles upstream from mouth.	36.3	1963-64, 1970-72	6- 8-72	4.7
*04214250	Smoke Creek at Lackawanna, N. Y.	Lat 42°49'21", long 78°48'10", Erie County, at bridge on Abbott Road, at Lackawanna, about 2 miles upstream from South Branch.	14.6	1951, 1953-55, 1963-64, 1970-72	6- 7-72	2.4
*04214410	Hunter Creek at Colegrave, N. Y.	Lat 42°44'11", long 78°32'55", Erie County, at bridge on Center Line Road, 0.3 mile east of Colegrave, and 3.5 miles upstream from mouth.	14.0	1963-65, 1970-72	6-19-72	1.4
*04214980	Little Buffalo Creek near East Lancaster, N. Y.	Lat 42°52'46", long 78°36'27", Erie County, at bridge on Schwartz Road, 1.9 miles south-east of East Lancaster, and 2.9 miles up-stream from mouth.	23.9	1963-64, 1970-72	6- 7-72	6.2
04215250	West Branch Cazenovia Creek near East Aurora, N. Y.	Lat 42°45'16", long 78°39'06", Erie County, at bridge on Jewett-Holmwood Road 0.7 mile up-stream from mouth, and 1.5 miles southwest of East Aurora.	58.6	1963-64, 1971-72	6-19-72	13
04215350	East Branch Cazenovia Creek at South Wales, N. Y.	Lat 42°42'12", long 78°34'50", Erie County, at bridge on Darling Road, 0.4 mile south of South Wales, and 10 miles upstream from confluence with West Branch.	38.0	1963-64, 1970-72	6-19-72	13
Niagara River basin						
*04216400	Tonawanda Creek near Johnsonburg, N. Y.	Lat 42°43'05", long 78°19'18", Wyoming County, at bridge on State Highway 98, 0.6 mile downstream from East Fork, and 3.0 miles south of Johnsonburg.	24.6	1961-64, 1970-72	6-20-72	12

* Also a crest-stage partial record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Niagara River basin--Continued						
*04217700	Murder Creek at Pembroke, N. Y.	Lat 42°59'37", long 78°26'08", Genesee County, at bridge on Lake Road, 0.3 mile south of Pembroke and 12.5 miles west of Batavia.	43.9	1961-64, 1970-72	6- 7-72	10
Streams Tributary to Lake Ontario						
04220150	Oak Orchard Creek at Medina, N. Y.	Lat 43°12'26", long 78°23'11", Orleans County, at bridge on State Highway 31A at Medina, and 1.2 miles upstream from Erie (Barge) Canal.	157	1949, 1961-62, 1964-65, 1972	10- 6-71	10
04220370	Cryder Creek at Paynesville, N. Y.	Lat 42°00'29", long 77°50'30", Allegany County, at bridge on town road, 0.15 mile southeast of Paynesville, and 1.9 miles upstream from mouth.	-	1954-55, 1964-65, 1970-72	6-19-72	22
04220390	Marsh Creek at Mapes, N. Y.	Lat 42°02'54", long 77°55'53", Allegany County, at bridge on County Highway 29, at Mapes, and 0.2 mile upstream from mouth.	-	1964-65, 1970-72	6- 9-72	2.8
04220410	Ford Brook at Stannard, N. Y.	Lat 42°04'03", long 77°55'43", Allegany County, at bridge on town road, 0.3 mile upstream from mouth, and 0.5 mile south of Stannard.	11.5	1955, 1964-65, 1970-72	6- 9-72	5.2
04220430	Chenunda Creek at Stannards Corners, N. Y.	Lat 42°05'06", long 77°54'36", Allegany County, at bridge on town road, 0.6 mile east of Stannards Corners, and 1.3 miles upstream from mouth.	30.3	1954-55, 1964-65, 1970-72	6- 9-72	12
04220450	Dyke Creek near West Greenwood, N. Y.	Lat 42°08'41", long 77°44'07", Steuben County, at culvert on town road, 300 ft north of State Highway 17, 0.1 mile upstream from unnamed tributary, and 1.2 miles southwest of West Greenwood.	1.64	1964-65, 1968, 1970-72	6- 8-72	1.2
*04220455	Quig Hollow Brook near Andover, N. Y.	Lat 42°08'45", long 77°45'25", Allegany County, 40 ft downstream from bridge on town road, 0.2 mile upstream from mouth, 0.2 mile south of State Highway 17, and 1.5 miles east of Andover.	4.25	1964-65, 1968, 1970-72	6- 8-72	1.1
*04220460	East Valley Creek Tributary near Andover, N. Y.	Lat 42°11'22", long 77°46'02", Allegany County, at culvert on town road, 0.2 mile upstream from mouth, and 1.9 miles northeast of Andover.	1.46	1964-65, 1968, 1970-72	6- 8-72	.44
*04220465	Railroad Brook near Alfred, N. Y.	Lat 42°12'51", long 77°47'47", Allegany County, at bridge on town road, 0.3 mile west of State Highway 21, 2.0 miles south of Alfred, and 4.9 miles upstream from mouth.	1.05	1964-65, 1970-72	6- 8-72	.11
04220480	Elm Valley Creek near Elm Valley, N. Y.	Lat 42°11'16", long 77°51'00", Allegany County, at bridge on County Highway 12 (Elm Valley-Alfred Road), 2.6 miles north of Elm Valley, and 3.4 miles upstream from mouth.	4.75	1955, 1964-65, 1970-72	6- 8-72	.32
04221200	Brimmer Brook near Wellsville, N. Y.	Lat 42°07'30", long 77°58'43", Allegany County, at bridge on town road, 1.1 miles upstream from mouth, and 1.8 miles west of Wellsville.	7.76	1955, 1964-65, 1970-72	6- 8-72	2.4
04221510	Vandermark Creek near Scio, N. Y.	Lat 42°10'02", long 77°57'31", Allegany County, at bridge on County Highway 10, 1.1 miles east of Scio, and 1.3 miles upstream from mouth.	22.0	1951-52, 1954-55, 1964-65, 1970-72	6- 8-72	2.8
04221520	Knight Creek at Scio, N. Y.	Lat 42°10'15", long 77°59'17", Allegany County, at bridge on county road, 0.4 mile upstream from mouth, and 0.5 mile west of Scio.	-	1954-55, 1964-65, 1970-72	6- 9-72	5.8
04221560	Phillips Creek near Belmont, N. Y.	Lat 42°14'23", long 78°00'54", Allegany County, at old bridge site on town road, 0.1 mile upstream from unnamed tributary, 1.4 miles upstream from mouth, and 1.6 miles northeast of Belmont.	-	1964-65, 1970-72	6- 9-72	3.7
04221650	Black Creek at Bennetts, N. Y.	Lat 42°19'19", long 77°56'32", Allegany County, at bridge on State Highway 408, 0.1 mile east of Bennetts, and 1.6 miles upstream from mouth.	32.8	1964-65, 1970-72	6- 9-72	9.8

* Also a crest-stage partial-record station.

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Streams Tributary to Lake Ontario--Continued						
04221710	Baker Creek near Angelica, N. Y.	Lat 42°18'31", long 78°02'38", Allegany County, at bridge on State Highway 408, 0.3 mile upstream from mouth, and 1.3 miles west of Angelica.	21.9	1955, 1964-65, 1970-72	6- 9-72	5.0
04221760	White Creek near Belfast, N. Y.	Lat 42°18'53", long 78°06'28", Allegany County, at bridge on town road 1.1 miles upstream from mouth, and 1.9 miles south of Belfast.	-	1964-65, 1970-72	6- 8-72	2.6
04221810	Wigwam Creek at Belfast, N. Y.	Lat 42°20'04", long 78°05'54", Allegany County, at bridge on County Highway 26, 0.5 mile upstream from mouth, and 1.0 mile southeast of Belfast.	-	1955, 1964-65, 1970-72	6- 8-72	2.8
04221830	Crawford Creek at Oramel, N. Y.	Lat 42°21'37", long 78°08'58", Allegany County, at bridge on town road, 0.8 mile west of Oramel, and 1.2 miles upstream from mouth.	-	1955, 1964-65, 1970-72	6- 8-72	2.3
04222530	Cold Creek at Hume, N. Y.	Lat 42°28'23", long 78°08'12", Allegany County, at bridge on County Highway 23, at Hume, and 1.8 miles upstream from mouth.	-	1955, 1964-65, 1970-72	6- 8-72	13
04222540	Rush Creek at Fillmore, N. Y.	Lat 42°27'54", long 78°05'47", Allegany County, at bridge on County Highway 27B, 0.2 mile upstream from mouth, and 0.9 mile east of Fillmore.	-	1955, 1964-65, 1970-72	6- 8-72	7.4
04222680	Trout Brook at Pike Corners, N. Y.	Lat 42°34'17", long 78°10'19", Wyoming County, at bridge on State Highway 39, 0.03 mile upstream from mouth, and 0.5 mile southeast of Pike Corners.	-	1964-65, 1970-72	6-19-72	9.8
04223400	Wolf Creek near Castile, N. Y.	Lat 42°36'55", long 78°00'45", Wyoming County, at bridge on Letchworth State Park road, 0.3 mile upstream from mouth, and 2.5 miles southeast of Castile.	15.8	1959, 1964-65, 1970-72	6- 8-72	5.9
04224550	Ewart Creek at Swain, N. Y.	Lat 42°28'40", long 77°51'18", Wyoming County, at bridge on town road at Swain, and 0.3 mile upstream from mouth.	3.83	1964-65, 1970-72	6-19-72	1.5
04224700	Sugar Creek near Ossian, N. Y.	Lat 42°30'52", long 77°48'12", Livingston County, on right bank 300 ft downstream from bridge on Linzy Road, 1.3 miles southwest of Ossian, and 5.1 miles upstream from mouth.	9.83	1964-65, 1970-72	6-19-72	3.3
04224800	Stony Brook at South Dansville, N. Y.	Lat 42°28'14", long 77°39'10", Steuben County, on downstream left timber wingwall of bridge on town road at South Dansville, and 6.1 miles upstream from mouth.	2.23	1964-66, 1970-72	6-19-72	.58
04225600	Bradner Creek at Woodsville, N. Y.	Lat 42°34'49", long 77°44'20", Livingston County, at bridge on old state highway, about 150 ft upstream from State Highway 36, 0.4 mile northwest of Woodsville, 2.7 miles northwest of Dansville, and 8.5 miles upstream from mouth.	7.45	1964-65, 1970-72	6-19-72	5.7
04227600	Beards Creek at Cuylerville, N. Y.	Lat 42°46'36", long 77°51'38", Livingston County at bridge on U.S. Highway 20A and State Highway 39, 0.6 mile east of Cuylerville, and 0.9 mile upstream from mouth.	47.9	1964-65, 1970-72	6-19-72	5.1
04227650	Jaycox Creek near Geneseo, N. Y.	Lat 42°50'06", long 77°48'44", Livingston County, at bridge on Nations Road, 1.5 miles upstream from mouth, and 1.7 miles north of village line of Geneseo.	-	1964-65, 1970-72	6-19-72 7-21-72 8-10-72 8-24-72 9- 7-72 9-21-72	.77 .39 .55 T T a .1
04227900	Christie Creek near Canawaugus, N. Y.	Lat 42°54'40", long 77°47'19", Livingston County, at culvert on River Road, 0.2 mile upstream from mouth, and 1.2 miles south of Canawaugus.	-	1964-65, 1970-72	6-20-72	a .3
04228520	White Creek at Canawaugus, N. Y.	Lat 42°55'53", long 77°46'51", Livingston County, at culvert on River Road, 0.2 mile north of Canawaugus, and 0.5 mile upstream from mouth.	-	1964-65, 1970-72	6- 8-72	4.8

T Trace.

a Estimated.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Streams Tributary to Lake Ontario--Continued						
04228550	Dugan Creek at Maxwell, N. Y.	Lat 42°58'25", long 77°46'22", Livingston County, at bridge on County Highway 53, 0.2 mile south of Maxwell, and 3.6 miles upstream from mouth.	-	1964-65, 1970-72	6- 8-72	4.2
04228855	Mill Creek at Honeoye Park, N. Y.	Lat 42°47'09", long 77°29'57", Ontario County, at bridge on East Lake Road, 0.6 mile north-east of Honeoye Park, and 0.9 mile upstream from mouth.	-	1964-65, 1970-72	6-20-72	7.6
04229700	Spring Brook at Moran Corner, N. Y.	Lat 42°57'36", long 77°37'11", Monroe County, at bridge on state highway, 0.03 mile east of State Highway 15A, at Moran Corner, and 0.4 mile upstream from mouth.	-	1964-65, 1970-72	6-20-72	4.1
04230050	Honeoye Creek Tributary near Rush, N. Y.	Lat 42°59'09", long 77°39'54", Monroe County, at bridge on Rush Road, 0.2 mile upstream from mouth, and 1.1 miles southwest of Rush.	-	1964-65, 1970-72	6- 8-72	4.0
04230310	Warner Creek at Rock Glen, N. Y.	Lat 42°41'04", long 78°06'05", Wyoming County, at bridge on Evans Road, 0.9 mile east of Rock Glen, and 1.2 miles upstream from mouth.	7.14	1964-65, 1970-72	6-19-72	2.1
04230360	Stony Creek at Warsaw, N. Y.	Lat 42°44'00", long 78°08'16", Wyoming County, at bridge on Warsaw Street at Warsaw, and 0.4 mile upstream from mouth.	-	1964-65, 1970-72	6- 9-72	2.3
04230410	Pearl Creek at Pearl Creek, N. Y.	Lat 42°50'55", long 78°02'36", Wyoming County, at bridge on State Highway 19, 0.2 mile east of Pearl Creek, and 1.0 mile upstream from mouth.	-	1964-65, 1970-72	6-19-72	3.0
04230490	Spring Creek at Mumford, N. Y.	Lat 42°59'13", long 77°51'42", Monroe County, at Baltimore and Ohio Railroad bridge, 0.4 mile south of Mumford, and 0.7 mile upstream from mouth.	3.91	1964-65, 1970-72	6- 8-72	50
04230800	Spring Creek at Pumpkin Hill, N. Y.	Lat 43°05'37", long 78°04'00", Genesee County, at bridge on State Highway 237, 0.2 mile south of Pumpkin Hill, and 1.2 miles upstream from mouth.	21.6	1964-65, 1970-72	6- 7-72 7-21-72 8-11-72 8-25-72 9- 8-72 9-22-72	9.2 8.1 6.2 7.2 3.9 2.7
04231050	Hotel Creek near Churchville, N. Y.	Lat 43°05'08", long 77°51'44", Monroe County, at bridge on Robertson Road, 0.6 mile upstream from mouth, and 1.7 miles southeast of Churchville.	-	1964-65, 1970-72	6- 7-72	3.3
04231100	Mill Creek near West Chili, N. Y.	Lat 43°04'31", long 77°46'56", Monroe County, at bridge on Stottle Road, 1.5 miles southeast of West Chili, and 1.5 miles upstream from mouth.	14.0	1964-65, 1970-72	6- 7-72	7.6
04232042	Irondequoit Creek at Bushnell Basin, N. Y.	Lat 43°04'09", long 77°29'22", Monroe County, at culvert on State Highway 96, about 200 ft upstream from Erie (Barge) Canal, at Bushnell Basin.	50.3	1949-51, 1962, 1970-72	6-12-72	26
04232060	Salmon Creek at Pultneyville, N. Y.	Lat 43°16'43", long 77°11'05", Wayne County, at bridge on State Highway 21, at Pultneyville, and 0.8 mile upstream from mouth.	18.1	1955, 1961, 1964-66, 1968, 1970-72	6- 8-72	3.3
04232395	Glen Creek at Watkins Glen, N. Y.	Lat 42°22'34", long 76°52'09", Schuyler County, at bridge on town highway in Watkins Glen, and 0.6 mile upstream from mouth.	22.8	1955, 1964-66, 1970-72	5-30-72	5.4
*04232406	Hector Falls Creek at Burdett, N. Y.	Lat 42°25'21", long 76°49'58", Schuyler County, at bridge on State Highway 227, 0.2 mile east of village line of Burdett, and 2.4 miles upstream from mouth.	11.8	1955, 1964-66, 1970-72	5-30-72	8.0
04232416	Big Stream at Dundee, N. Y.	Lat 42°31'05", long 76°58'31", Yates County, at bridge on State Highway 14A, in the town of Dundee, and 5.5 miles upstream from mouth.	20.9	1960, 1964-66, 1970-72	5-30-72	8.9

* Also a crest-stage partial-record station.

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Streams Tributary to Lake Ontario--Continued						
04232428	Mill Creek at Lodi, N. Y.	Lat 42°35'57", long 76°49'27", Seneca County, at bridge on County Highway 137, 0.5 mile south of village line of Lodi, and 3.4 miles upstream from mouth.	7.08	1966, 1970-72	6-12-72	1.3
04232448	Keuka Lake Inlet at Pleasant Valley, N. Y.	Lat 42°23'41", long 77°15'31", Steuben County, at bridge on county highway at Pleasant Valley, 1.5 miles southwest of Hammondsport, and 2.5 miles upstream from mouth.	14.3	1955, 1965-66, 1970-72	5-30-72	9.2
*04232490	Kashong Creek near Bellona, N. Y.	Lat 42°45'54", long 76°58'36", Ontario County, at bridge on State Highway 14, 0.3 mile upstream from mouth, and 2.0 miles northeast of Bellona.	30.7	1955, 1965-66, 1970-72	6-12-72	2.8
04232493	Reeder Creek near MacDougall, N. Y.	Lat 42°47'23", long 76°54'36", Seneca County, at culvert at Lehigh Valley Railroad, 1.0 mile upstream from mouth, and 1.9 miles southwest of MacDougall.	-	1965-66, 1970-72	6-12-72	.78
04232497	Wilson Creek near Geneva, N. Y.	Lat 42°48'43", long 76°58'38", Ontario County, at bridge on State Highway 14, 0.1 mile upstream from mouth, and 1.9 miles south of city boundary of Geneva.	19.0	1965-66, 1970-72	6-12-72	1.4
04232700	Silver Creek near Waterloo, N. Y.	Lat 42°52'46", long 76°50'26", Seneca County, at bridge on County House Road, 1.1 miles south of village line of Waterloo, and 1.8 miles upstream from mouth.	5.37	1965-66, 1970-72	5-30-72	.62
04232720	Sucker Brook near Seneca Falls, N. Y.	Lat 42°52'49", long 76°48'59", Seneca County, at bridge on County House Road, 1.3 miles southwest of village line of Seneca Falls, and 2.0 miles upstream from mouth.	7.63	1955, 1965-66, 1970-72	5-30-72	.40
*04233310	Sixmile Creek above Ithaca, N. Y.	Lat 42°24'33", long 76°27'14", Tompkins County, at bridge on Burns Road, 1.8 miles southeast of Ithaca, and 4.4 miles upstream from mouth.	42.0	1966-68, 1970-72	5-30-72	25
04233633	Fall Creek at McLean, N. Y.	Lat 42°33'04", long 76°17'33", Tompkins County, at bridge on County Highway 105, at McLean.	40.2	1963-64, 1966, 1970-72	5-30-72	36
*04233676	Virgil Creek at Dryden, N. Y.	Lat 42°29'18", long 76°18'08", Tompkins County, at bridge on Mill Street, at Dryden, and 0.1 mile upstream from Dryden Lake Outlet.	20.7	1963, 1966, 1970-72	5-30-72	15
04234028	Taughannock Creek at Halseyville, N. Y.	Lat 42°31'47", long 76°38'14", Tompkins County, at bridge on State Highway 96, at Halseyville, and 3.0 miles upstream from mouth.	57.1	1964-66, 1970-72	5-30-72	23
04234032	Trumansburg Creek at Trumansburg, N. Y.	Lat 42°32'31", long 76°38'52", Tompkins County, at bridge on town road, in Trumansburg, and 1.8 miles upstream from mouth.	13.1	1955, 1964-66, 1970-72	5-30-72	3.6
04234036	Lively Run at Interlaken Beach, N. Y.	Lat 42°37'48", long 76°41'17", Seneca County, 150 ft upstream from mouth at Interlaken Beach.	1.97	1965-66, 1970, 1972	5-30-72	.30
04234038	Sheldrake Creek at Sheldrake, N. Y.	Lat 42°39'54", long 76°42'06", Seneca County, at bridge on County Highway 153, at Sheldrake, and 0.1 mile upstream from mouth.	8.39	1955, 1965-66, 1970-72	5-30-72	1.2
04234048	Hicks Gully Creek at East Varick, N. Y.	Lat 42°44'43", long 76°46'14", Seneca County, at culvert on State Highway 89, 0.1 mile upstream from mouth, and 1.7 miles south of East Varick.	5.20	1965-66, 1970-72	5-30-72	.28
04234053	Great Gully Brook near Union Springs, N. Y.	Lat 42°48'28", long 76°42'08", Cayuga County, at bridge on State Highway 90, 0.6 mile upstream from mouth, and 1.7 miles south of village boundary of Union Springs.	14.6	1965-66, 1970-72	5-30-72	2.6
04234058	Yawger Creek near Union Springs, N. Y.	Lat 42°52'44", long 76°41'02", Cayuga County, at bridge on County Highway 4B, 1.4 miles north of town line of Union Springs, and 2.4 miles upstream from mouth.	13.2	1964-66, 1970-72	5-30-72	3.0

* Also a crest-stage partial-record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Streams Tributary to Lake Ontario--Continued						
04234250	Ganargua Creek at Macedon, N. Y.	Lat 43°03'25", long 77°19'04", Wayne County, at bridge, on County Highway 137, 0.5 mile southwest of Macedon, and 1.0 mile upstream from Trap Brook.	104	1964-66, 1970-72	6- 8-72	36
*04234300	Fairville Creek at Fairville Station, N. Y.	Lat 43°05'59", long 77°03'49", Wayne County, at bridge on Pulver Road, 0.3 mile upstream from mouth, and 0.4 mile southwest of Fairville Station.	16.2	1964-66, 1970-72	6- 8-72	3.5
*04234400	West River near Middlesex, N. Y.	Lat 42°41'06", long 77°17'19", Yates County, at bridge on town road, 0.15 mile west of State Highway 245, 1.6 miles southwest of Middlesex, and 5.5 miles upstream from Naples Creek.	29.3	1955, 1964-66, 1970-72	6-12-72	3.5
04234450	Naples Creek at Naples, N. Y.	Lat 42°37'04", long 77°23'45", Ontario County, at bridge on town road at Naples, 0.8 mile downstream from confluence with Grimes and Eelpot Creeks, and 3.6 miles upstream from West River.	36.8	1964-66, 1970-72	6-12-72	23
04235020	Padelford Brook at Shortsville, N. Y.	Lat 42°57'33", long 77°13'39", Ontario County, at bridge on town highway at northern boundary of Shortsville, and 200 ft upstream from mouth.	13.4	1964-66, 1970-72	6-12-72	2.2
04235030	Black Brook at Manchester, N. Y.	Lat 42°58'43", long 77°13'33", Ontario County, at culvert on State Highway 21, 0.3 mile north of Manchester, and 0.7 mile upstream from mouth.	17.9	1965-66, 1970-72	6-12-72	7.9
04235040	Rocky Run at Clifton Springs, N. Y.	Lat 42°57'48", long 77°09'12", Ontario County, at highway bridge on town road, 0.2 mile west of Clifton Springs, and 1.7 miles upstream from mouth.	20.1	1964-66, 1970-72	6-12-72	1.8
04235253	Canandaigua Outlet Tributary No. 2 at Oaks Corners, N. Y.	Lat 42°55'59", long 76°59'52", Ontario County, at bridge on Cross Road, 0.8 mile east of Oaks Corners, and 1.2 miles upstream from mouth.	7.58	1966, 1970-72	6-12-72	2.1
04235260	Dublin Brook at Dublin, N. Y.	Lat 42°58'57", long 76°54'52", Seneca County, at bridge on Reisdorph Road, 1.0 mile southeast of Dublin, and 3.3 miles upstream from mouth.	4.80	1964-66, 1970-72	6- 8-72	.90
*04235276	Black Brook at Tyre, N. Y.	Lat 42°59'30", long 76°48'12", Seneca County, at bridge on County Highway 101, in village of Tyre, and 0.8 mile upstream from mouth.	19.0	1964-66, 1970-72	10- 5-71 10-19-71 6- 8-72	1.4 .96 3.2
04235281	Crane Brook at Montezuma, N. Y.	Lat 43°01'17", long 76°41'21", Cayuga County, at bridge on Wisley Road, 1.0 mile northeast of Montezuma, and 1.7 miles upstream from mouth.	45.4	1965-66, 1970-72	6- 8-72	18
04235293	Spring Lake Outlet at Spring Lake, N. Y.	Lat 43°07'36", long 76°41'10", Cayuga County, at culvert on Spring Lake Road, at Spring Lake, and 1.7 miles upstream from mouth.	7.59	1965-66, 1970-72	6- 8-72	2.1
04249200	North Branch Salmon River at Redfield, N. Y.	Lat 43°32'32", long 75°48'51", Oswego County, at bridge on Harvester Mill Road, 0.7 mile northeast of Redfield.	82.5	1957, 1959-64, 1968, 1972	9-27-72	93
04250998	Alder Creek at Alder Creek, N. Y.	Lat 43°25'28", long 75°13'45", Oneida County, at culvert on State Highway 12, 0.1 mile northwest of Alder Creek, and 1.3 miles upstream from mouth.	4.73	1966-68, 1971-72	11-3-71	17
04254930	Mill Creek at Turin, N. Y.	Lat 43°37'42", long 75°24'43", Lewis County, at bridge on State Highway 12D, at Turin, and 2.7 miles upstream from mouth.	6.42	1967-68, 1972	11-3-71	6.3
04255020	Roaring Brook at Martinsburg, N. Y.	Lat 43°44'00", long 75°28'13", Lewis County, at bridge on State Highway 12D and 26 at Martinsburg.	20.9	1957-61, 1967-68, 1971-72	11-3-71	12
04260700	Chaumont River near Depauville, N. Y.	Lat 44°10'30", long 76°00'57", Jefferson County, at highway bridge 3.6 miles northeast of Depauville.	18.3	1956-57, 1959, 1962, 1972	9-27-72	1.1

* Also a crest-stage partial record 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 discharge 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. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. 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 1972

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Housatonic River basin							
01199400	Webatuck Creek near South Amenia, N.Y.	Lat 41°46'48", long 73°33'12", Dutchess County, at bridge on Pump House Road, 200 ft upstream from confluence with Wassaic Creek, and 1.6 miles southwest of South Amenia.	81.0	1962-69, 1971-72	3-18-72	6.23	1,860
01199420	Tenmile River near Wassaic, N. Y.	Lat 41°47'45", long 73°33'34", Dutchess County, at county bridge A-30, 0.2 mile downstream from confluence of Wassaic and Webatuck Creeks and 1.6 miles south of Wassaic.	120	1959-60#, 1961-65, 1967-72	3-18-72	6.85	2,790
01199490	Swamp River near Dover Plains, N. Y.	Lat 41°41'56", long 73°35'03", Dutchess County, on left bank at old highway bridge, 0.2 mile upstream from bridge on State Highway 22, 0.4 mile downstream from Mill River, 1.7 miles upstream from Tenmile River, and 2.8 miles south of Dover Plains.	46.6	1961-68#, 1969-72	6-19-72	3.11	1,400
Hudson River basin							
*01319800	West Branch Sacandaga River at Arietta, N. Y.	Lat 43°15'03", long 74°31'06", Hamilton County, at bridge on State Highway 10, 0.4 mile north of Arietta. Datum of gage is 1,648.95 ft above mean sea level.	28.9	1963-72	6-23-72	11.71	1,300
01319950	Sand Lake Outlet near Piseco, N. Y.	Lat 43°22'15", long 74°32'47", Hamilton County, at bridge on State Highway 10, 0.9 mile upstream from mouth, and 5.5 miles south of Piseco. Datum of gage is 1,687.35 ft above mean sea level.	7.16	1962-66, 1968-72	6-23-72	2.03	193
01323000	Kennyetto Creek near Broadalbin, N. Y.	Lat 43°03'57", long 74°09'48", Fulton County, at bridge on county highway, 1.8 miles east of Broadalbin.	28.3	1940-46#, 1960-65, 1969-72	6-23-72	4.22	1,500
01342730	Steele Creek at Ilion, N. Y.	Lat 43°00'04", long 75°26'10", Herkimer County, at bridge on Whitney Street in Ilion, and 2.6 miles upstream from mouth.	26.1	1964-66, 1967-68#, 1969, 1971-72	6-22-72	3.33	+
01342800	West Canada Creek at Nobleboro, N. Y.	Lat 43°23'47", long 74°51'35", Herkimer County, at bridge on State Highway 8 in Nobleboro.	192	1946, 1958-66, 1966-68, 1969, 1972	5- 4-72	7.06	5,320
01349700	East Kill near Jewett Center, N. Y.	Lat 42°14'57", long 74°18'11", Greene County, at bridge on Mill Hollow Road, 1.2 miles northeast of Jewett Center, and 1.3 miles upstream from mouth.	35.2	1951, 1956, 1967-68, 1972	6-22-72	10.77	9,800
01349850	Batavia Kill at Hensonville, N. Y.	Lat 42°22'17", long 74°12'55", Greene County, at bridge on County Highway 40, at Hensonville, 0.7 mile upstream from Silver Lake Outlet, and 1.8 miles upstream from Nauvo Stream.	13.5	1955, 1960, 1965-66, 1968, 1972	6-22-72	6.87	3,190
*01350900	Beaverdam Creek near Knox, N. Y.	Lat 42°38'57", long 74°07'56", Albany County, at bridge on farm road, 1.2 miles south of Knox, and 1.7 miles upstream from mouth.	6.91	1963-64, 1966, 1969-72	6-22-72	5.51	+
*01350950	Switz Kill near Berne, N. Y.	Lat 42°36'41", long 74°09'24", Albany County, at bridge on county highway, 1.2 miles upstream from mouth, and 1.3 miles southwest of Berne.	28.3	1963-66, 1968-72	6-22-72	6.34	+

[#] Operated as a continuous-record gaging station.
 * Also a low-flow partial record station.
 + Discharge not determined.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Hudson River basin--Continued							
01351000	Fox Creek at West Berne, N. Y.	Lat 42°37'42", long 74°11'08", Albany County, on right bank 200 ft upstream from highway bridge at West Berne, 1.8 miles downstream from Switz Kill, and 3.5 miles southeast of Gallupville.	73.0	1924-32 [†] , 1962-68 [†] , 1969-72	6-22-72	6.30	3,430
01354200	Sandsea Kill at Pattersonville, N. Y.	Lat 42°53'20", long 74°04'42", Schenectady County, at bridge on State Highway 58 at Pattersonville.	9.56	1957, 1959-67, 1971-72	6-22-72	4.21	826
01354300	Plotter Kill at Rynex Corners, N. Y.	Lat 42°49'16", long 74°04'20", Schenectady County, at bridge on State Highway 159, at Rynex Corners.	3.70	1958, 1960-68, 1970-72	6-22-72	4.73	270
01361200	Claverack Creek at Claverack, N. Y.	Lat 42°12'54", long 73°43'46", Columbia County, on right bank, 70 ft upstream from bridge on State Highway 9H, 0.5 mile south of Claverack.	60.6	1960-62 [†] , 1963-68 [†] , 1969-72	6-22-72	7.29	1,740
*01361900	Shingle Kill at Cairo, N. Y.	Lat 42°18'22", long 74°00'15", Greene County, at bridge on town road at Cairo, about 100 ft east of State Highway 32, and 0.8 mile upstream from mouth.	13.9	1953, 1960, 1967-72	6-22-72	7.46	1,080
01362100	Roeliff Jansen Kill near Hillsdale, N. Y.	Lat 42°09'13", long 73°31'19", Columbia County, at bridge on county highway off State Highway 22, 1.8 miles south of Hillsdale.	27.5	1958-60 [†] , 1963-64, 1968-72	3-17-72	4.47	730
01362197	Bushnellville Creek at Shandaken, N. Y.	Lat 42°07'25", long 74°24'04", Ulster County, on right bank alongside State Highway 42 at Shandaken, 160 ft downstream from private bridge, 0.4 mile upstream from mouth, and 0.6 mile northwest of junction State Highways 28 and 42.	11.4	1951, 1956, 1972	4-20-72	88.10	355
01364400	Plattekill Creek at Mount Marion, N. Y.	Lat 42°02'24", long 73°59'57", Ulster County, on downstream left wingwall of bridge on town road just off Glasco Turnpike, 0.6 mile west of Mt. Marion, and 2.6 miles upstream from mouth.	36.6	1962-64, 1968-72	3-23-72	5.37	+
01366950	Coxing Kill near High Falls, N. Y.	Lat 41°49'54", long 74°06'38", Ulster County, on bridge on Coxing Kill Road off State Highway 213, 1.0 mile east of High Falls.	12.6	1962-64, 1966, 1968-72	3-23-72	5.19	+
01368713	Wawayanda Creek at Durland, N. Y.	Lat 41°16'44", long 74°18'20", Orange County, on bridge on State School Road, at Durland, 0.1 mile downstream from Wickham Lake, and 2.5 miles northeast of Warwick.	5.15	1971-72	6-22-72	15.88	55
01368724	Long House Creek at Bellvale, N. Y.	Lat 41°15'10", long 74°18'30", Orange County, at bridge on Iron Forge Road, at Bellvale, and 1.9 miles upstream from mouth.	11.8	1971-72	6-22-72 8-28-71	16.20 18.34	250 a 920
01368810	Wawayanda Creek at New Milford, N. Y.	Lat 41°14'18", long 74°25'03", Orange County, at bridge on Ryerson Road, at New Milford, 0.2 mile upstream from Double Kill.	45.0	1971-72	6-22-72 8-28-71	14.11 15.37	760 a 970
01372040	Crum Elbow Creek at Hyde Park, N. Y.	Lat 41°47'24", long 73°55'53", Dutchess County, at bridge on Hyde Park-East Park Road, at Hyde Park, and 0.3 mile east of U.S. Highway 9.	18.6	1959-62 [†] , 1963-72	6-25-72	3.75	305
01373600	Seeley Brook near Chester, N.Y.	Lat 41°20'59", long 74°14'26", Orange County, on left bank 300 ft upstream from bridge on State Highway 17M, 1300 ft upstream from Youngs Brook, and 2.4 miles east of Chester.	12.8	1965-68 [†] , 1971-72	6-22-72	6.02	324
01373690	Woodbury Creek near Highland Mills, N. Y.	Lat 41°22'00", long 74°06'17", Orange County, on left bank 40 ft downstream from culvert-type bridge on road to Atlantic Coast Aggregate Corp. plant, 1,200 ft downstream from bridge on State Highway 32, and 1.9 miles north of Highland Mills.	11.2	1966-68 [†] , 1971-72	3-15-72	4.11	599

* Operated as a continuous-record gaging station.

* Also a low-flow partial record station.

+ Discharge not determined.

a Approximate.

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Hudson River basin--Continued							
01374460	South Branch Minis-ongo Creek at Letchworth Village, N. Y.	Lat 41°12'15", long 74°01'54", Rockland County, 200 ft downstream from Letchworth Village road and pond, and 1,000 ft downstream from Palisades Interstate Parkway, at Letchworth Village.	5.83	1960-72	11-30-71	3.64	200
01376570	New City Brook near New City, N. Y.	Lat 41°10'09", long 73°58'46", Rockland County, at bridge on road north of Christie Airport, 0.5 mile east of Zukov Road, 0.8 mile upstream from mouth, and 1.1 miles north of New City.	2.39	1972	6-22-72	4.39	187
Hackensack River basin							
01376600	Hackensack River at Brookside Park, N. Y.	Lat 41°10'18", long 73°58'24", Rockland County, at Brookside Park, 900 ft upstream from State Highway 304, 1,300 ft upstream from DeForest Lake, 0.8 mile downstream from unnamed tributary, and 1.2 miles from Lake Lucille.	13.2	1959-63#, 1967-72	6-19-72	6.00	750
01376690	East Branch Hackensack River near Congers, N. Y.	Lat 41°07'32", long 73°57'24", Rockland County, about 0.1 mile downstream from small pond, half a mile upstream from DeForest Lake, and 2 miles south of Congers.	6.86	1960, 1968-69, 1971-72	6-22-72	9.95	190
01377180	Pascack Brook at Spring Valley, N. Y.	Lat 41°06'45", long 74°02'00", Rockland County, on road to Orange and Rockland Utilities sub-station, and 0.7 mile east of Spring Valley.	2.13	1972	6-22-72	2.38	157
01377200	Pascack Brook Tributary at Spring Valley, N. Y.	Lat 41°06'15", long 74°01'57", Rockland County, 100 ft upstream from mouth, 150 ft downstream from bridge on Pascack Road at Spring Valley.	4.58	1960-62#, 1963-72	6-22-72	4.68	431
Passaic River basin							
01387350	Nakoma Brook at Sloatsburg, N. Y. (formerly published as "Ramapo River Tributary")	Lat 41°09'14", long 74°11'38", Rockland County, 50 ft downstream from tributary, 100 ft upstream from State Highway 17, half a mile upstream from mouth, 1.1 miles downstream from Cranberry Pond Outlet, at Sloatsburg.	5.35	1960-72	11-30-71	7.84	262
01387410	Torne Brook at Ramapo, N. Y.	Lat 41°08'34", long 74°09'44", Rockland County, a quarter of a mile upstream from mouth and 0.5 mile east of Ramapo.	2.62	1960, 1962-72	3- 3-72 6-22-72	7.21 7.21	469 469
Delaware River basin							
01418500	Beaver Kill at Craigie Clair, N. Y.	Lat 41°57'45", long 74°52'00", Sullivan County, on left bank 100 ft downstream from highway bridge at Craigie Clair, 2.5 miles upstream from Spring Brook, and 2.5 miles northeast of Rockland.	82	1937-68#, 1971-72	6-22-72	7.10	2,970
01419500	Willowemoc Creek near Livingston Manor, N. Y.	Lat 41°54'12", long 74°48'47", Sullivan County, on right bank, 0.4 mile upstream from State Highway 17 interchange 96 at Livingston Manor, and 1.1 miles upstream from Little Beaver Kill.	63	1938-70#, 1971-72	3-22-72	4.74	3,190
01422000	West Branch Delaware River at Delhi, N. Y.	Lat 42°16'15", long 74°55'06", Delaware County, on left bank 300 ft downstream from Steele Brook, 0.3 mile downstream from bridge on State Highway 28 in Delhi, and 1 mile upstream from Little Delaware River.	142	1937-70#, 1972	3-22-72	7.04	4,320
01422500	Little Delaware River near Delhi, N. Y.	Lat 42°15'10", long 74°54'10", Delaware County, on left bank 15 ft downstream from highway bridge, a quarter of a mile downstream from Toll Gate Brook, 1-1/2 miles upstream from mouth, and 2 miles south of Delhi.	49.8	1938-68#, 1971-72	3-22-72	6.23	2,280
Susquehanna River basin							
01496370	Mink Creek at Richfield Springs, N. Y.	Lat 42°50'55", long 75°00'11", Otsego County, at bridge on State Highway 28, 0.4 mile south of Richfield Springs, and 1.0 mile upstream from mouth.	10.4	1969-72	3- 2-72 4-20-72	3.87 3.87	325 325

[#] Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Susquehanna River basin--Continued							
01497500	Susquehanna River at Colliersville, N. Y.	Lat 42°29'59", long 74°58'51", Otsego County, on right bank 1/4 mile downstream from powerplant of New York State Electric & Gas Corp., and 1/4 mile north of Colliersville.	349	1908, 1924-68#, 1971-72	4-16-72	7.74	5,000
01497800	Schenevus Creek at Schenevus, N. Y.	Lat 42°32'45", long 74°50'00", Otsego County, at bridge on Tannery Street, Schenevus.	57.8	1963-72	3- 2-72	6.45	920
01499000	Otego Creek near Oneonta, N. Y.	Lat 42°27'00", long 75°06'50", Otsego County, on right bank 1-1/2 miles south of West Oneonta, 1-3/4 miles upstream from mouth, and 2-3/4 miles west of Oneonta.	108	1941-68#, 1969-72	3- 2-72	6.20	950
01501000	Unadilla River near New Berlin, N. Y.	Lat 42°38'37", long 75°19'24", Chenango County, on right bank 150 ft upstream from site of old highway bridge, 0.2 mile downstream from Center Brook, and 1.4 miles north of New Berlin.	199	1925-68#, 1970-72	4-18-72	7.75	3,380
01503980	Chenango River at Eaton, N. Y.	Lat 42°51'02", long 75°36'21", Madison County, at bridge on London Road, at Eaton, 0.1 mile upstream from Eaton Brook, and 0.1 mile downstream from State Highway 26.	24.3	1964-65, 1967-72	6-22-72	7.92	1,100
01507000	Chenango River at Greene, N. Y.	Lat 42°19'28", long 75°46'18", Chenango County, on left bank 1,700 ft downstream from bridge on State Highway 206 at Greene, and 0.6 mile downstream from Birdsall Creek.	593	1937-70#, 1971-72	6-23-72	14.50	12,000
01508500	Albright Creek at East Homer, N. Y.	Lat 42°40'09", long 76°06'13", Cortland County, on left bank 0.2 mile upstream from highway bridge in East Homer, and 0.5 mile upstream from mouth.	6.81	1939-68#, 1970-72	6-23-72	4.4	1,200
01511500	Tioughnioga River at Itaska, N. Y.	Lat 42°17'55", long 75°54'30", Broome County, on right bank at Itaska, 3.8 miles downstream from Otselic River and village of Whitney Point and 6 miles upstream from mouth.	730	1929-67#, 1969-72	6-23-72	8.38	11,500
01513500	Susquehanna River at Vestal, N. Y.	Lat 42°05'30", long 76°03'25", Broome County, on left bank 400 ft downstream from highway bridge at Vestal, and 800 ft upstream from Choconut Creek.	3,960	1938-67#, 1968-72	6-23-72	22.35	50,400
01513790	Nanticoke Creek at Union Center, N. Y.	Lat 42°08'56", long 76°04'00", Broome County, at bridge on County Highway 43 at Union Center, 0.3 mile upstream from Bradley Creek. Datum of gage 858.41 ft above mean sea level. Prior to Apr. 4, 1964 the datum was 856.91 ft above mean sea level.	89.7	1956, 1963-64, 1966-68, 1970-72	6-23-72	15.33	13,500
01522500	Karr Valley Creek at Almond, N. Y.	Lat 42°18'40", long 77°45'05", Allegany County, on right bank 500 ft downstream from McHenry Valley Creek, 0.8 mile upstream from mouth, and 1 mile southwest of Almond.	27.6	1937-68#, 1971-72	6-23-72	12.2	10,900
01525500	Canisteo River at West Cameron, N. Y.	Lat 42°13'20", long 77°25'05", Steuben County, on right bank 250 ft downstream from bridge on County Highway 119, 0.3 mile southeast of West Cameron, and 1.7 miles north of Cameron.	340	1930-31#, 1937-70#, 1971-72	6-23-72	23.48	43,000
01526000	Tuscarora Creek near South Addison, N. Y.	Lat 42°04'00", long 77°17'02", Steuben County, on left bank 0.9 mile downstream from Elk Creek, 1.3 miles southwest of South Addison, and 3.4 miles southwest of Addison.	114	1937-70#, 1971-72	6-22-72	10.4	18,700
Allegheny River Basin							
03010800	Olean Creek near Olean, N. Y.	Lat 42°07'16", long 78°25'15", Cattaraugus County, on right bank at upstream side of highway bridge, 1,000 ft west of State Highway 16, 1.4 miles northeast of Olean, and 4.6 miles upstream from mouth.	198	1959-68#, 1970-72	6-23-72	11.52	6,000

Operated as a continuous-record gaging station.

* Also a low-flow partial record station.

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Streams tributary to Lake Erie							
*04213490	South Branch Cattaraugus Creek near Otto, N. Y.	Lat 42°21'54", long 78°48'06", Cattaraugus County, at highway bridge, 0.2 mile upstream from Mansfield Creek, and 1.7 miles northeast of Otto.	25.6	1963-72	6-23-72	7.34	2,910
*04214040	Delaware Creek near Angola, N. Y.	Lat 42°37'46", long 79°03'15", Erie County, at bridge on State Highway 5, 1.5 miles southwest of Angola, and 1.6 miles upstream from mouth.	8.15	1963-72	3- 2-72	3.14	223
04214200	Eighteenmile Creek at North Boston, N. Y.	Lat 42°41'04", long 78°46'41", Erie County, on left bank 60 ft upstream from bridge on Zimmerman Road, at North Boston, 1.4 miles downstream from mouth of Irish Gulf, and 2-3/4 miles southeast of Hamburg.	37.2	1963-68#, 1971-72	6-23-72	11.05	4,670
*04214250	Smoke Creek at Lackawanna, N. Y.	Lat 42°49'21", long 78°48'10", Erie County, at bridge on Abbott Road, at Lackawanna.	14.6	1955, 1963-68, 1970-72	12- 7-71	6.23	1,170
04214260	South Branch Smoke Creek at Lackawanna, N. Y.	Lat 42°48'17", long 78°48'38", Erie County, at bridge on Willet Road at Lackawanna, 1.6 miles upstream from mouth.	13.6	1953, 1955, 1967-68, 1970-72	12- 7-71	5.73	700
04214270	Smoke Creek below Lackawanna, N. Y.	Lat 42°48'49", long 78°50'31", Erie County, on right bank at downstream side of footbridge in Lackawanna, 0.5 mile downstream from south branch, and 1.5 miles upstream from mouth.	31.6	1971	12- 7-71	5.42	+
04214400	Buffalo Creek near Wales Hollow, N. Y.	Lat 42°44'54", long 78°30'31", Erie County, on right bank 80 ft downstream from bridge on Marlov Road, 1.1 miles northwest of Wales Hollow, and 1.8 miles upstream from Hunter Creek.	80.1	1963-68#, 1970-72	6-23-72	11.37	8,830
*04214410	Hunter Creek at Colegrave, N. Y.	Lat 42°44'11", long 78°32'55", Erie County, at bridge on Center Line Road, 0.3 mile east of Colegrave, and 3.5 miles upstream from mouth.	14.0	1964-72	6-23-72	5.81	1,160
*04214980	Little Buffalo Creek near East Lancaster, N. Y.	Lat 42°52'46", long 78°36'27", Erie County, at bridge on Schwartz Road, 1.9 miles southeast of East Lancaster, and 2.9 miles upstream from mouth.	23.9	1963-72	6-23-72	5.29	348
04215000	Cayuga Creek near Lancaster, N. Y.	Lat 42°53'24", long 78°38'45", Erie County, on right bank 150 ft upstream from low flat-crested dam in Como Lake Park, 700 ft downstream from bridge on Bowen Road, 800 ft downstream from Little Buffalo Creek, and 2 miles southeast of Lancaster.	94.9	1939-68#, 1971-72	6-23-72	10.09	8,800
Niagara River basin							
*04216400	Tonawanda Creek near Johnsonburg, N. Y.	Lat 42°43'05", long 78°19'18", Wyoming County, on State Highway 98 near Johnsonburg, and 0.6 mile downstream from East Fork.	23.6	1962-72	6-23-72	11.05	1,850
04216500	Little Tonawanda Creek at Linden, N. Y.	Lat 42°52'37", long 78°09'48", Genesee County, on right bank at upstream side of highway bridge in Linden, 7 miles upstream from mouth.	22.1	1913-68#, 1970-72	6-23-72	11.52	1,800
*04217700	Murder Creek at Pembroke, N. Y.	Lat 42°59'37", long 78°26'08", Genesee County, at Lake Road bridge, 0.3 mile south of Pembroke, and 12.5 miles west of Batavia.	43.9	1962-72	6-23-72	7.39	666
Streams tributary to Lake Ontario							
04219645	Fourmile Creek near Youngstown, N. Y.	Lat 43°13'49", long 79°01'01", Niagara County, at culvert on Balmer Road, 200 ft east of State Highway 18, 1.5 miles southeast of Youngstown, and 3.4 miles above the mouth.	4.88	1969, 1971-72	3- 2-72	26.62	+
04219720	East Branch Twelve-mile Creek at Wilson, N. Y.	Lat 43°17'20", long 79°52'17", Niagara County, on Youngstown Road highway bridge, 1.4 miles upstream from mouth, and 2.4 miles southwest of Wilson.	35.3	1970-72	6-23-72	2.24	126

* Operated as a continuous-record gaging station.

* Also a low-flow partial record station.

+ Discharge not determined.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Streams tributary to Lake Ontario--Continued							
04219900	Johnson Creek near Lyndonville, N. Y.	Lat 43°20'21", long 78°20'55", Orleans County, at bridge on Woodworth Road, 3.3 miles downstream from dam at Lyndonville, and 4.4 miles upstream from mouth.	87.7	1962-70, 1972	6-24-72	6.22	1,350
04220150	Oak Orchard Creek at Medina, N. Y.	Lat 43°12'26", long 78°23'11", Orleans County, at bridge on State Highway 31A, at Medina, and 1.2 miles upstream from Erie (Barge) Canal.	157	1962-70, 1972	6-24-72	7.31	1,470
04220250	West Creek near Hilton, N. Y.	Lat 43°18'10", long 77°48'50", Monroe County, on right bank just downstream from bridge on Collamer Road, 0.5 mile north of Collamer, and 1.5 miles northwest of Hilton.	31.0	1957-64 [#] , 1971-72	6-24-72	6.92	463
04220455	Quig Hollow Brook near Andover, N. Y.	Lat 42°08'45", long 77°45'25", Allegany County, 40 ft downstream from bridge on town road, 0.2 mile south of State Highway 17, and 1.5 miles east of Andover.	4.24	1964-72	6-23-72	5.11	a 1,100
*04220460	East Valley Creek Tributary near Andover, N. Y.	Lat 42°11'22", long 77°46'02", Allegany County, on downstream abutment of culvert on town road, 0.2 mile upstream from mouth, and 1.9 miles northeast of Andover.	1.59	1964-68, 1972	6-22-72	3.04	700
*04220465	Railroad Brook near Alfred, N. Y.	Lat 42°12'51", long 77°47'47", Allegany County, at bridge on town road, 0.3 mile west of State Highway 21, 2.0 miles south of Alfred, and 4.9 miles upstream from mouth.	1.05	1964-67, 1971-72	6-22-72	4.75	670
04222600	Wiscoy Creek at Bliss, N. Y.	Lat 42°34'59", long 78°14'16", Wyoming County, at bridge on county road, 0.1 mile north of State Highway 39, and 0.6 mile east of Bliss.	21.8	1962-65, 1967-72	6-23-72	4.06	1,850
*04224700	Sugar Creek near Ossian, N. Y.	Lat 42°30'52", long 77°48'12", Livingston County, on right bank 300 ft downstream from bridge on Linzy Road, 1.3 miles southwest of Ossian, and 5.1 miles upstream from mouth.	9.83	1964-72	6-23-72	6.85	1,380
04224900	Mill Creek at Patchinville, N. Y.	Lat 42°31'13", long 77°35'06", Steuben County, at bridge on Ellinger Road, 0.1 mile east of State Highway 21, 0.8 mile south of Patchinville, 3.3 miles south of Wayland, and 9.1 miles upstream from mouth.	5.00	1964-72	6-23-72	3.01	1,350
04228900	Springwater Creek at Springwater, N. Y.	Lat 42°38'37", long 77°36'12", Livingston County, on left bank at downstream side of bridge on Kellogg Road, and about 0.5 mile northwest of Springwater.	10.1	1964-68 [#] , 1970-72	6-23-72	a 7.29	1,180
04232040	Irondequoit Creek near Pittsford, N. Y.	Lat 43°03'15", long 77°29'30", Monroe County, at bridge on Thornell Road, 3 miles southeast of Pittsford.	41.9	1962-63, 1965-66, 1968-70, 1972	6-23-72	8.39	1,080
*04232060	Salmon Creek at Pultneyville, N. Y.	Lat 43°16'43", long 77°11'05", Wayne County, at bridge on State Highway 21, at Pultneyville, and 0.8 mile upstream from mouth.	18.1	1962-72	3-23-72	3.75	550
04232070	Salmon Creek near Sodus, N. Y.	Lat 43°15'53", long 77°01'32", Wayne County, at bridge on State Highway 18, 0.1 mile upstream from mouth, and 2.5 miles northeast of Sodus.	44.7	1962-68, 1970, 1972	6-25-72	2.22	348
*04232406	Hector Falls Creek at Burdett, N. Y.	Lat 42°25'21", long 76°49'58", Schuyler County, at bridge on State Highways 79 and 227, 0.2 mile east of village line of Burdett, and 2.4 miles upstream from mouth.	11.8	1971-72	6-23-72	5.40	a 1,500
*04232460	Sugar Creek at Guyanoga, N. Y.	Lat 42°37'23", long 77°09'30", Yates County, at bridge on Sid White Road, 0.4 mile east of Guyanoga, and 2.3 miles upstream from mouth.	28.9	1966-72	6-23-72	3.64	550

[#] Operated as a continuous-record gaging station.

* Also a low-flow partial record station.

a Approximate.

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Streams tributary to Lake Ontario--Continued							
*04232490	Kashong Creek near Bellona, N. Y.	Lat 42°45'54", long 76°58'36", Ontario County, at bridge on State Highway 14, 0.3 mile upstream from mouth, and 2.0 miles northeast of Bellona.	30.7	1965-70, 1972	6-23-72	3.19	610
04232630	Kendig Creek near MacDougall, N. Y.	Lat 42°50'57", long 76°53'33", Seneca County, on left bank at downstream side of bridge on County Highway 120, 3.0 miles north of MacDougall, 3.5 miles southwest of Waterloo, and 4.6 miles upstream from mouth.	13.8	1965-68#, 1969-72	6-23-72	4.93	417
04233255	Cayuga Inlet at Ithaca, N. Y.	Lat 42°25'38", long 76°31'19", Tompkins County, on left headwall of hydraulic drop structure and fish ladder, 600 ft east of State Highway 13A, at Ithaca.	86.7	1971-72	6-23-72	14.6	11,800
*04233310	Sixmile Creek above Ithaca, N. Y.	Lat 42°24'33", long 76°27'14", Tompkins County, at bridge on Borns Road, 1.8 miles southeast of Ithaca, and 4.4 miles upstream from mouth.	42.0	1967-69, 1971-72	6-23-72	9.43	5,360
*04233676	Virgil Creek at Dryden, N. Y.	Lat 42°29'18", long 76°18'08", Tompkins County, at bridge on Mill Street at Dryden, and 0.1 mile upstream from Dryden Lake Outlet.	20.6	1966-70, 1972	6-23-72	3.90	1,380
04234018	Salmon Creek at Ludlowville, N. Y.	Lat 42°33'13", long 76°32'08", Tompkins County, on downstream right wingwall of highway bridge in Ludlowville, and 1.7 miles upstream from mouth.	81.7	1964-68#, 1971-72	6-23-72	10.62	4,160
04234200	Mud Creek at East Victor, N. Y.	Lat 42°58'28", long 77°22'57", Ontario County, on right bank 25 ft downstream from bridge on State Highway 96, 0.3 mile upstream from Fish Creek at East Victor.	64.2	1958-68#, 1971-72	6-22-72	7.85	1,800
*04234300	Fairville Creek at Fairville Station, N. Y.	Lat 43°05'59", long 77°03'49", Wayne County, at bridge on Pulver Road, 0.3 mile upstream from mouth and 0.4 mile southwest of Fairville Station.	16.2	1966-67, 1969-72	6-23-72	5.35	205
*04234400	West River near Middlesex, N. Y.	Lat 42°41'06", long 77°17'20", Yates County, at bridge on town road, 0.15 mile west of State Highway 245, 1.6 miles southwest of Middlesex, and 5.5 miles upstream from Naples Creek.	29.3	1965-72	6-23-72	6.82	2,790
*04235276	Black Brook at Tyre, N. Y.	Lat 42°59'30", long 76°48'13", Seneca County, at bridge on County Highway 101, in village of Tyre, and 0.8 mile upstream from mouth.	19.0	1966-72	6-23-72	3.61	530
04245840	Scriba Creek near Constantia, N.Y.	Lat 43°15'35", long 76°00'11", Oswego County, on right bank, 8 ft upstream from road to Ingersol Road, and about 0.8 mile north of village of Constantia.	38.4	1966-68#, 1969, 1971-72	6-22-72	7.42	1,200
*04249050	Catfish Creek at New Haven, N. Y.	Lat 43°29'00", long 76°19'34", Oswego County, at bridge on State Highway 104B, at New Haven, and 1.4 miles upstream from mouth.	31.7	1962-66, 1968-72	5- 3-72	6.71	700
St. Lawrence River Basin							
04258700	Deer River at Deer River, N. Y.	Lat 44°53'32", long 74°41'28", Lewis County, on left bank 350 ft upstream from bridge on State Highway 26, at Deer River, and 2 miles upstream from mouth.	98.1	1957-68#, 1969-72	6-22-72	7.61	9,220
04264200	Little Sucker Brook at Waddington, N. Y.	Lat 44°50'28", long 75°11'28", St. Lawrence County, at bridge on State Highway 345, 0.6 mile south of Waddington, and 3.9 miles upstream from mouth.	19.9	1959-60#, 1961-69, 1971-72	5- 4-72	3.16	588
04264300	Brandy Brook near Waddington, N. Y.	Lat 44°49'42", long 75°04'32", St. Lawrence County, at bridge on Halfway House Road, 3.2 miles southeast of Waddington, and 4.4 miles upstream from mouth.	27.0	1959-63#, 1964-69, 1971-72	5- 4-72	7.61	804

* Operated as a continuous-record gaging station.

* Also a low-flow partial record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
St. Lawrence River basin--Continued							
04264400	Middle Branch Grass River near Clare, N. Y.	Lat 44°22'34", long 75°03'42", St. Lawrence County, at highway bridge, 1.1 miles upstream from confluence with South Branch, and 1.9 miles south of Clare.	63.6	1959-60#, 5- 4-72 1961-68, 1971-72	7.12	1,670	
04265100	Elm Creek near Hermon, N. Y.	Lat 44°26'14", long 75°12'52", St. Lawrence County, on left bank 100 ft downstream from highway bridge, 2.3 miles south of Hermon, and 6.8 miles upstream from confluence with Tanner Creek.	33.0	1958-68#, 5- 4-72 1969-72	6.77	581	
04265300	Little River near Canton, N. Y.	Lat 44°34'24", long 75°06'56", St. Lawrence County, at old dam 50 ft downstream from highway, at Brick Chapel, 4.0 miles southeast of Canton, and 7.4 miles upstream from mouth.	42.4	1959-60#, 5- 4-72 1961-69, 1971-72	6.06	982	
04267600	Cold Brook near South Colton, N. Y.	Lat 44°29'39", long 74°52'11", St. Lawrence County, at bridge on State Highway 56, 1.5 miles south of South Colton, and 1.6 miles upstream from mouth.	19.0	1961-64#, 5- 4-72 1967-72	2.22	282	
04267700	Parkhurst Brook near Potsdam, N. Y.	Lat 44°39'11", long 74°58'15", St. Lawrence County, at bridge on State Highways 56 and 72, 0.3 mile upstream from mouth, and 1.2 miles southeast of Campus of State University of New York, College of Education at Potsdam.	17.8	1958-63#, 5- 4-72 1964-72	5.38	309	
04267800	Trout Brook at Allen Corners, N. Y.	Lat 44°47'33", long 75°01'59", St. Lawrence County, at abandoned bridge off State Highway 56A, at Allen Corners, and 2 miles southwest of Norfolk.	56.2	1958-63#, 5- 4-72 1964-65, 1967-72	10.28	1,640	
04268200	Plum Brook at Grantville, N. Y.	Lat 44°52'45", long 74°54'52", St. Lawrence County, at bridge on Grant Road, 0.7 mile downstream from unnamed tributary, 1.1 miles upstream from mouth, 1.4 miles north of Grantville, and 2.3 miles southwest of Massena city limits.	37.6	1958-63#, 5- 4-72 1964, 1966-68, 1971-72	5.87	1,100	
04268720	Hopkinton Brook at Hopkinton, N. Y.	Lat 44°40'59", long 74°42'03", St. Lawrence County, at bridge on town road, 0.4 mile upstream from unnamed tributary, 0.6 mile south of Hopkinton, and 2.0 miles upstream from mouth.	18.5	1961-62#, 5- 4-72 1964-69, 1971-72	2.44	342	
04268800	West Branch St. Regis River near Parishville, N. Y.	Lat 44°35'52", long 74°44'19", St. Lawrence County, on right bank, 25 ft upstream from highway bridge, 4.1 miles downstream from Mud Pond Outlet, 4.2 miles southeast of Parishville, and 4.8 miles upstream from Niagara Mohawk Power Corp. dam.	172	1959-68#, 5- 4-72 1970-72	4.84	2,720	
04268900	Trout Brook at Stockholm Center, N. Y.	Lat 44°46'16", long 74°48'47", St. Lawrence County, at highway bridge, 0.7 mile upstream from mouth, and 1.0 mile northeast of Stockholm Center.	44.9	1959-60#, 5- 4-72 1961-67, 1970-72	3.46	790	
04269050	Allen Brook near Brasher Falls, N. Y.	Lat 44°48'07", long 74°43'40", St. Lawrence County, at bridge on U.S. Highway 11, 0.8 mile upstream from mouth, and 2.2 miles east of Brasher Falls.	16.0	1961-66#, 5- 4-72 1967-72	4.54	640	
04269100	Lawrence Brook near Moira, N. Y.	Lat 44°50'22", long 74°35'46", Franklin County, at highway bridge, 2.4 miles northwest of Moira, and 5.4 miles upstream from mouth.	28.0	1959-60#, 5- 4-72 1961-72	5.31	439	
04269500	Deer River at Brasher Iron Works, N. Y.	Lat 44°53'32", long 74°41'28", St. Lawrence County, on left bank, 400 ft upstream from highway bridge at Brasher Iron Works, 2.6 miles southeast of Helena, 3.6 miles upstream from mouth, and 3.8 miles downstream from Lawrence Brook.	189	1913-16#, 7-25-72 1959-68#, 1970-72	5.41	2,310	
04270100	West Branch Deer Creek at Fort Covington Center, N. Y.	Lat 44°56'49", long 74°28'49", Franklin County, at bridge on county highway, 0.8 mile west of Fort Covington Center, 2.1 miles upstream from East Branch, and 3.1 miles south of Fort Covington.	31.4	1962-72 5- 4-72	5.31	640	

* Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1972--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
St. Lawrence River basin--Continued							
04270150	East Branch Deer Creek at Fort Covington Center, N. Y.	Lat 44°56'52", long 74°27'51", Franklin County, at highway bridge at Fort Covington Center, 1.9 miles upstream from mouth, and 3.2 miles south of Fort Covington.	23.1	1961-62#, 1963-72	5- 4-72	4.95	430
04270700	Trout River at Trout River, N. Y.	Lat 44°59'23", long 74°17'56", Franklin County, at county highway bridge, 0.2 mile east of State Highway 30, at Trout River, 0.5 mile upstream from international boundary, 1.5 miles downstream from unnamed tributary, and 3.3 miles downstream from Little Trout River.	107	1960-66#, 1967-72	5- 4-72	4.96	1,960
04270800	English River near Mooers Forks, N. Y.	Lat 44°58'32", long 73°39'49", Clinton County, on right bank at downstream side of highway bridge, 1.6 miles upstream from unnamed tributary, 1.7 miles northwest of Mooers Forks, and 2.5 miles upstream from international boundary.	40.8	1960-68#, 1970-72	4-19-72	4.54	838
04273700	Salmon River at South Plattsburgh, N. Y.	Lat 44°38'24", long 73°29'43", Clinton County, on left bank on bridge on Salmon River Road, at South Plattsburgh, 0.4 mile west of State Highway 22, and 3.9 miles upstream from mouth.	61.9	1960-68#, 1970-72	3-23-72	5.05	1,260
04276200	Bouquet River at New Russia, N. Y.	Lat 44°09'51", long 73°36'30", Essex County, at bridge on county road, 0.2 mile east of U.S. Highway 9, at New Russia.	37.6	1949, 1951, 1953, 1956-68, 1971-72	4- 4-72	10.61	1,960

[‡] Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†). Where "Drainage area" column is blank, drainage area not available at time of publication.

Discharge measurements made at miscellaneous sites during water year 1972.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Discharge (cfs)
Blind Brook basin						
01299000 Blind Brook	Long Island Sound	Lat 41°02'23", long, 73°41'27", Westchester County, at bridge on Anderson Hill Road, 0.4 mile east of Lincoln Road, 0.9 mile upstream from Hutchinson River Parkway, and 1.3 miles east of Purchase.	1.79		6-19-72	+1,140
01299100 Blind Brook Tributary	Blind Brook	Lat 41°02'15", long, 73°42'26", Westchester County, at bridge on Anderson Hill Road, 0.3 mile upstream from dam on small pond, 0.4 mile east of State Highway 120, and 0.5 mile southeast of Purchase.	1.04		6-19-72	+119
Beaver Swamp basin						
01300450 Beaver Swamp Brook	Long Island Sound	Lat 40°58'48", long 73°42'04", Westchester County, at bridge on North Street in Rye, and 2.0 miles upstream from gaging station at Mamaroneck (sta. 01300500).	1.64		6-19-72	+135
Mamaroneck River basin						
01300700 West Branch Mamaroneck River	Mamaroneck River	Lat 40°59'38", long 73°45'14", Westchester County, at bridge on Saxon Woods Road at White Plains city line, and 1.2 miles upstream from mouth.	1.09		6-19-72	+253
01300800 Mamaroneck River	Long Island Sound	Lat 40°58'07", long 73°44'15", Westchester County, at bridge on Winfield Avenue, 0.1 mile downstream from Mamaroneck Reservoir, and 1.6 miles upstream from gaging station at Mamaroneck (sta. 01301000).	14.5		6-19-72	+2,590
01300900 Sheldrake River	Mamaroneck River	Lat 40°56'38", long 73°45'04", Westchester County, at outlet of pond 200 ft west of New England Thruway, 0.2 mile upstream from Mamaroneck village line, and 1.3 miles upstream from mouth.	5.55		6-19-72	+372
Hudson River basin						
01333350 Hoosic River	Hudson River	Lat 42°48'33", long 73°17'12", Bennington County, Vt. at bridge on State Highway 346 on N.Y.-Vt. State Line, 1.3 miles northwest of North Pownal.		1965, 1967, 1968-70	3-23-71 5-25-71 10- 7-71 5- 9-72	a449 a115 204 2,350
01335640 Ballston Creek	Round Lake	Lat 42°56'22", long 73°47'22", Saratoga County, at bridge on Maltaville Road at Round Lake, and 0.1 mile upstream from mouth.		1970-71	10-29-71 10-29-71	1.1 1.5
01335670 Cooley Kill	Dwaas Kill	Lat 42°53'24", long 73°48'32", Saratoga County, at bridge on town road 0.7 mile upstream from mouth, and 0.7 mile east of Elnora.		1970-71	10-29-71	.35
01337130 Oriskany Creek	Mohawk River	Lat 42°56'20", long 75°27'43", Oneida County, at bridge on State Highway 12B in Oriskany Falls.			9-21-72	32.2
01337150 Oriskany Creek	Mohawk River	Lat 42°58'18", long 75°25'54", Oneida County, at bridge on Small Road near Small Corners.			9-21-72	36.4
01337170 Oriskany Creek	Mohawk River	Lat 42°59'36", long 75°25'29", Oneida County, at bridge on State Highway 315 in Deansboro.			9-20-72	45.7
01337350 Oriskany Creek	Mohawk River	Lat 43°02'54", long 75°23'31", Oneida County, at bridge on State Highway 412 at Clinton.			9-20-72	74.6
01337400 Oriskany Creek	Mohawk River	Lat 43°04'41", long 75°22'49", Oneida County, at bridge on State Highway 5, in Kirkland.	87.4	1949, 1968	9-20-72	77.9
01337450 Oriskany Creek	Mohawk River	Lat 43°06'56", long 75°21'59", Oneida County, at bridge on Halsey Road in Walesville.		1906	9-19-72	104

a Not previously published.
+ Peak discharge.

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Discharge (cfs)
Hudson River basin--Continued						
01338505 Oriskany Creek	Mohawk River	Lat 43°09'20", long 75°19'52", Oneida County, at bridge on Utica Street at Oriskany, 300 ft upstream from State Highway 69, and 0.8 mile upstream from mouth.			9-25-72	246
01338506 Oriskany Creek	Mohawk River	Lat 43°09'22", long 75°19'49", Oneida County, at bridge on State Highway 69, in Oriskany, and 0.9 mile upstream from mouth.		1966	9-19-72	155
01350101 Schoharie Creek	Mohawk River	Lat 42°23'51", long 74°27'02", Schoharie County, at bridge on County Highway 342, 0.2 mile west of village of Gilboa, and 0.4 mile from Gilboa Dam.		1969-70	10- 7-70 6-24-71 9-21-71 10-29-71 3- 3-72 3-20-72 4-21-72 5-30-72 6-16-72 6-23-72 7-17-72 7-27-72	a0.18 a0.33 a0.72 0.17 4,410 876 4,230 248 157 7,990 52 0.50
01350120 Platter Kill	Schoharie Creek	Lat 42°24'15", long 74°26'38", Schoharie County, at culvert on county road, 0.5 mile upstream from mouth and 0.6 mile northeast of Gilboa.		1969-70	11- 3-70 4- 9-71 4-28-71 5-27-71 6-24-71 9-21-71 10-29-71 3-22-72 4-21-72 6- 2-72 7-28-72	a5.14 a38.7 a21.7 a13.6 a3.18 a8.01 3.5 77 72 17 5.5
01350140 Mine Kill	Schoharie Creek	Lat 42°25'41", long 74°28'22", Schoharie County, at bridge on State Highway 30, 3 miles south-west of North Blenheim.		1969-70	11- 3-70 11-16-70 4-28-71 5-27-71 7-23-71 9-21-71 10-29-71 12-16-71 6- 2-72 7-28-72	a5.28 a15.5 a27.9 a11.7 a0.48 a21.7 3.8 61 40 3.0
01350200 West Kill	Schoharie Creek	Lat 42°28'07", long 74°27'34", Schoharie County, at bridge on State Highway 30 in North Blenheim, 100 ft downstream from Mill Creek, and 0.2 mile upstream from mouth.		1970	4-14-71 4-16-71 4-28-71 3-20-72 3-23-72 6-23-72	a578 a251 a120 118 354 326
01350350 Keyser Kill	Schoharie Creek	Lat 42°31'23", long 74°24'38", Schoharie County, at bridge on State Highway 30, 0.2 mile upstream from mouth and 0.1 mile south of Breakabeen.			7-23-71 8-28-71 9-21-71 10-29-71 12- 7-71 4-21-72 6- 2-72 7-28-72 9- 1-72	a0.40 a36.1 a17.1 4.0 87 138 26 3.2 0.36
01350355 Schoharie Creek	Mohawk River	Lat 42°32'10", long 74°24'40", Schoharie County, at bridge on State Highway 30, 0.8 mile north of Breakabeen.			7-23-71 8-28-71 9-21-71 11-18-71 3-24-72 4-21-72 6-23-72 7-28-72 9- 1-72	a9.34 a221 a57.5 31 3,580 6,020 11,700 21 7.4
01351230 Cobleskill Creek	Schoharie Creek	Lat 42°38'24", long 74°34'29", Schoharie County, at culvert on Mill Street at Richmondville.			10-28-71	*0.98

* Base flow.

a Not previously published.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Discharge (cfs)
Hudson River basin--Continued						
01351235 Cobleskill Creek Tributary	Cobleskill Creek	Lat 42°38'09", long 74°34'05", Schoharie County, at bridge on State Highway 7 at Richmondville and 0.1 mile upstream from mouth. Drainage from Brooker Hollow.			10-28-71	*0.57
01351250 Cobleskill Creek	Schoharie Creek	Lat 42°39'36", long 74°30'28", Schoharie County, at bridge on county road in Warnerville, and 0.1 mile upstream from West Creek.			10-28-71	*4.23
01351270 West Creek	Cobleskill Creek	Lat 42°40'05", long 74°31'17", Schoharie County, at bridge on town highway, 0.7 mile west of Cobleskill townline, 0.9 mile northwest of Warnerville, and 2.5 miles southeast of Hyndsville.	54.5	1949-50	10-28-71	*2.47
01354200 Sandsea Kill	Mohawk River	Lat 42°53'20", long 74°04'20", Schenectady County, at bridge on State Highway 5S, at Pattersonville.	9.56	1957, 1959-62 1964,67	7- 5-72	826
01355475 Mohawk River	Hudson River	Lat 42°51'04", long 73°53'16", Saratoga County, at bridge on State Highway 146, in Rexford and 0.8 mile downstream from Alplaus Kill.			5- 5-72	40,600
01359520 Vly Creek Tributary	Vly Creek	Lat 42°38'06", long 73°57'49", Albany County, at culvert on New Salem Road (State Highway 85A), 0.8 mile north of New Salem, and 1.5 miles upstream from mouth.	1.50	1962 1970	6- -72	+607
01360850 Kinderhook Creek	Hudson River	Lat 42°24'25", long 73°41'26", Columbia County, at bridge on State Highway 9H, 1.5 miles downstream from Valatie Kill.			10-28-71	+193
01362003 Bell Brook	Catskill Creek	Lat 42°16'03", long 73°57'40", Greene County, 0.5 mile upstream from unnamed tributary, 0.7 mile south of South Cairo, 0.6 mile upstream from old State Highway 23, and 0.8 mile upstream from mouth.			5-16-72 8- 8-72 9-12-72	3.28 0.58 0.16
01362004 Bell Brook	Catskill Creek	Lat 42°16'10", long 73°57'32", Greene County, 0.4 mile upstream from unnamed tributary, 0.4 mile upstream from old State Highway 23, 0.5 mile south of South Cairo, and 0.6 mile upstream from mouth.			7- 9-71 5-16-72 8- 8-72 9-12-72	Dry 3.87 0.52 0.04
01362005 Bell Brook	Catskill Creek	Lat 42°16'19", long 73°57'29", Greene County, 0.1 mile upstream from unnamed tributary, 0.3 mile south of South Cairo, 0.3 mile upstream from old State Highway 23, and 0.4 mile upstream from mouth.		1971	5- 5-72 8- 8-72 9-12-72	4.31 0.86 0.20
01362197 Bushnellsville Creek	Esopus Creek	Lat 42°07'25", long 74°24'04", Ulster County, on right bank along State Highway 42, 159 ft downstream from private bridge, 0.4 mile upstream from Esopus Creek, and 0.4 mile northwest of Shandaken.	11.4		11-11-71 4-21-72	*20 209
01368705 Wickham Lake Tributary	Wickham Lake	Lat 41°17'38", long 74°17'33", Orange County, at bridge on Kings Highway at Lake, 0.6 mile upstream from mouth, and 4.2 miles northeast of Warwick.	0.68	1971	11-10-71 12- 9-71 1-19-72 3- 9-72 4-10-72 5-24-72 7-31-72 9- 6-72	.53 1.9 1.3 1.4 .37 *.94 .11 0
01368713 Wawayanda Creek	Pochuck Creek	Lat 41°16'44", long 74°18'20", Orange County, at bridge on State School Road, at Durland, 0.1 mile downstream from Wickham Lake, and 2.5 miles northeast of Warwick.	5.15	1967, 1971	11-10-71 12- 9-71 1-19-72 3- 3-72 4-10-72 5-24-72 7-31-72 9- 6-72	5.8 23 7.4 46 7.2 *14 *3.2 *.96

+ Peak discharge.

* Base flow.

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Hudson River basin--Continued						
01368724 Long House Creek	Wawayanda Creek	Lat 41°15'10", long 74°18'30", Orange County, at bridge on Iron Forge Road, at Bellvale, and 1.9 miles upstream from mouth.	11.85	1971	10-12-71	35
					11-10-71	22
					12- 9-71	55
					1-19-72	18
					3- 3-72	121
					4-10-72	16
					5-25-72	*38
					8- 1-72	5.6
					9- 6-72	*.87
01368740 Warwick Reservoir Outlet Tributary	Warwick Reservoir Outlet	Lat 41°14'31", long 74°21'14", Orange County, at bridge on Ball Road, 0.5 mile upstream from mouth, and 1.0 mile from Warwick.	.56	1971	10-12-71	1.1
					11-10-71	1.1
					12- 9-71	3.5
					1-19-72	1.0
					3- 9-72	2.1
					4-10-72	.83
					5-24-72	*2.2
					8- 1-72	.32
					9- 6-72	*.03
01368760 Wawayanda Creek Tributary	Wawayanda Creek	Lat 41°14'34", long 74°22'18", Orange County, at bridge on State Highway 94 (New Milford Road), 0.8 mile upstream from mouth, and 1.2 miles southwest of Warwick.	2.96	1971	10-12-71	4.2
					11-10-71	3.4
					12- 8-71	11
					1-19-72	3.4
					3- 9-72	6.3
					4-10-72	2.3
					5-24-72	*6.5
					7-31-72	.52
					9- 6-72	*.02
01368810 Wawayanda Creek	Pochuck Creek	Lat 41°14'18", long 74°25'03", Orange County, at bridge on Ryerson Road at New Milford, and 0.2 mile upstream from Dobule Kill.	45	1971	11- 1-71	80
					12- 9-71	210
					1-19-72	61
					3- 3-72	589
					4-10-72	68
					5-25-72	*115
					7-31-72	32
					9- 6-72	*12
					01368840 Double Kill	Wawayanda Creek
12- 9-71	98					
1-19-72	37					
3- 9-72	120					
4-10-72	36					
5-25-72	*67					
7-31-72	16					
9- 6-72	*1.0					
0369650 Stony Creek	Wheeler Creek	Lat 41°18'06", long 74°23'14", Orange County, at bridge on Union Corners Road, 0.7 mile upstream from mouth, and 2.6 miles south- west of Florida.	2.62	1971		
					12- 9-71	10
					1-13-72	5.3
					3- 9-72	5.2
					4-10-72	2.3
					5-24-72	4.7
					7-31-72	1.1
					9- 6-72	*.18
					01369695 Coleman Ditch	Wallkill River (Black Walnut Creek Channel)
12- 9-71	8.7					
1-13-72	4.2					
3- 9-72	5.1					
4-10-72	2.1					
5-24-72	*2.4					
7-31-72	1.4					
9- 6-72	*.07					
01370520 Wallkill River	Hudson River	Lat 41°26'20", long 74°21'50", Orange County, at bridge on farm road 0.4 mile west of Phillipsburg and 0.6 mile downstream from former gaging station (01370500).				
					9-28-72	74
01370620 Wallkill River	Rondout Creek	Lat 41°27'26", long 74°18'03", Orange County, at bridge on Stoney Ford Road, and 3.3 miles northeast of Phillipsburg.		1964	8- 9-72	323
					9-28-72	*80
01370650 Wallkill River	Hudson River	Lat 41°30'09", long 74°15'50", Orange County, at bridge on State Highway 211 (formerly State Highway 84), 2 miles southwest of Montgomery, and 2.2 miles upstream from Muddy Kill.			8- 9-72	349

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Discharge (cfs)
Hudson River basin--Continued						
01370710 Wallkill River	Hudson River	Lat 41°31'44", long 74°14'18", Orange County, at bridge on State Highway 17K in Montgomery.			9-27-72	*96.5
01370740 Wallkill River	Hudson River	Lat 41°33'50", long 74°11'37", Orange County, at bridge on village road in Walden.			9-27-72	*89
01370815 Wallkill River	Hudson River	Lat 41°36'22", long 74°11'12", Ulster County, at bridge on Hoagerburgh Road in Wallkill.			9-26-72	*103
01370840 Wallkill River	Rondout Creek	Lat 41°38'07", long 74°11'19", Ulster County, at bridge in Galeville.		1946	8- 8-72	588
01372000 Wallkill River	Rondout Creek	Lat 41°44'48", long 74°05'29", Ulster County, at bridge on State Highway 299 just west of New Paltz.	793	1900, 1901-03#, 1905, 1939, 1968	8- 8-72	674
01372003 Wallkill River	Rondout Creek	Lat 41°48'53", long 74°03'33", Ulster County, at bridge on State Highway 32, 0.2 mile upstream from Interstate Highway 87, 1.7 miles southeast of Rosendale, and 3.3 miles upstream from mouth.		1967	9-28-72	0.0
01373518 Black Meadow Creek	Otter Kill	Lat 41°19'59", long 74°19'10", Orange County, at bridge on Sugar Loaf-Florida Road (Pine Hills Road), 0.8 mile downstream from unnamed tributary, and 2.0 miles east of Florida.	3.47	1971	11-10-71 12- 9-71 1- 3-72 3- 9-72 4-10-72 5-24-72 7-21-72 9- 6-72	4.6 19 6.2 9.1 2.6 *7.8 .83 *.01
01373580 Trout Brook	Seely Brook	Lat 41°16'36", long 74°15'01", Orange County, at bridge on Lake Road about 2.5 miles southwest of Walton Park.	2.39	1964, 1971	10-12-71 11-10-71 12- 9-71 1-19-72 3- 9-72 4-10-72 5-25-72 8- 1-72 9- 6-72	4.6 3.8 13 3.6 7.6 2.8 *5.8 1.8 *.67
01373800 Moodna Creek	Hudson River	Lat 41°24'33", long 74°04'26", Orange County, at bridge on Buzzard Hill Road, 0.1 mile downstream from Woodbury Creek, and 0.5 mile northeast of Mountainville.	154	1956-60, a 1964-65, a 1971 a	8-14-72	36
01376430 Rum Brook	Saw Mill River	Lat 41°02'49", long 73°49'23", Westchester County, at bridge on Saw Mill River Road (State Highway 9A), 0.1 mile south of Elmsford village line, and 0.2 mile upstream from mouth.	0.93		6-19-72	+331
Hackensack River basin						
01376570 New City Brook	Hackensack River	Lat 41°10'09", long 73°58'46", Rockland County, at bridge on road north of Christie Airport, 0.5 mile east of Zukor Road, 0.8 mile upstream from mouth, and 1.1 miles north of New City.			b 4-19-72 5- 2-72 5- 4-72 5-31-72 6-22-72 7- 5-72 8-15-72	8.2 12 27 65 187 24 12
01376600 Hackensack River	Atlantic Ocean	Lat 41°10'18", long 73°58'24", Rockland County, 900 ft upstream from State Highway 304, 1,300 ft upstream from DeForest Lake, 0.8 mile downstream from unnamed tributary, and 1.2 miles downstream from Lake Lucille.	13.2		b 5- 2-72	35
01376690 Hackensack River (East Branch)	Hackensack River	Lat 41°07'32", long 73°57'24", Rockland County, about 0.1 mile downstream from small pond, half a mile upstream from DeForest Lake and 2 miles south of Congers.	6.86	1959-62 b	5- 2-72 5- 4-72	12 27

* Operated as continuous-record gaging station.

* Base flow.

a Also a low-flow partial-record station.

b Also a crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured	Measurements	
				previously (water years)	Date	Discharge (cfs)
Hackensack River basin--Continued						
01377180 Pascack Brook	Hackensack River	Lat 41°06'45", long 74°02'00", Rockland County, on road to Orange and Rockland substation and 0.7 mile east of Spring Valley.	2.13		4-26-72 5- 4-72 5-31-72 6-22-72 7- 5-72 8-15-72	0.81 26 55 157 6.3 1.7
Delaware River basin						
01425665 Oquaga Creek	West Branch Delaware River	Lat 42°11'05", long 75°25'27", Broome County, at bridge on North Sanford Road, 0.3 mile upstream from small tributary, 0.5 mile west of Arctic, 1.3 miles upstream from gaging station near North Sanford, and 2.6 miles northeast of North Sanford.		1969-71	10- 6-71 11-12-71 12-15-71 3-29-72 5-22-72 7-11-72 9-14-72	.01 .63 3.7 4.9 1.3 .73 .14
01425670 Oquaga Creek Tributary	Oquaga Creek	Lat 42°10'56", long 75°25'16", Broome County, 0.2 mile upstream from mouth, 0.4 mile southwest of Arctic, 0.4 mile downstream from bridge on East Afton Road, and 2.5 miles northwest of North Sanford.		1969-71	5-22-72 7-11-72 9-14-72	3.8 1.5 1.3
01438000 Neversink River	Delaware River	Lat 41°21'40", long 74°41'07", Orange County, at Tristates Bridge on East Main Street (U.S. Highway 6), in Port Jervis, 450 ft upstream from Clove Brook, and 0.6 mile upstream from mouth.	346	1902-03, 1943, 1945, 1960-71	10-29-71 12- 7-71 1-11-72 2-17-72 3-22-72 4-25-72 6- 2-72 7-13-72 8-28-72 9-26-72	353 1,130 670 603 1,480 2,100 2,320 407 117 86
Susquehanna River basin						
01496302 Susquehanna River	Atlantic Ocean	Lat 42°41'45", long 74°55'37", Otsego County, at bridge on county highway (Susquehanna Ave.) in South Cooperstown.	81.2	1949-50	6- 7-72	320
01496363 Ocquionis Creek	Canadarago Lake	Lat 42°51'13", long 74°59'30", Otsego County, on River Street in Richfield Springs, and 1.4 miles upstream from Canadarago Lake.	20	1963-64, 1968-71	10- 5-71 11- 4-71 4- 6-72 5-20-72 6-28-72 7-31-72 9- 9-72	2.7 4.3 57 40 46 7.1 1.9
01496370 Mink Creek	Canadarago Lake	Lat 42°50'55", long 75°00'11", Otsego County, at bridge on State Highway 28, 0.4 mile southwest of Richfield Springs, and 1.0 mile upstream from mouth.	10.4	1963, 1968-71	10- 5-71 11- 4-71 4- 6-72 5-20-72 6-28-72 7-31-72	2.5 3.2 31 30 21 2.2
01496390 Hyder Creek	Canadarago Lake	Lat 42°49'00", long 75°01'12", Otsego County, at bridge on State Highway 28, 0.4 mile upstream from mouth, and 3.0 miles south- west of Richfield Springs.	9.52	1963, 1968-71	10- 5-71 11- 4-71 4- 6-72 5-21-72 6-28-72 7-31-72 9- 9-72 9-30-72	1.1 1.5 26 24 20 1.0 .50 1.1
01496448 Herkimer Creek	Canadarago Lake	Lat 42°47'19", long 75°01'30", Otsego County, at bridge on State Highway 28, 0.5 mile upstream from mouth, and 0.6 mile north of Schuyler Lake.	12	1963, 1968-71	10- 5-71 11- 4-71 4- 6-72 5-21-72 7- 6-72 7-31-72 9- 9-72 9-30-72	.84 1.8 35 26 23 1.5 .36 1.7
01496451 Oaks Creek	Susquehanna River	Lat 42°46'52", long 75°01'04", Otsego County, at bridge on county highway, 0.5 mile east of Schuyler Lake, and 1.0 mile downstream from Canadarago Lake.	65	1963, 1968-71	10- 4-71 11- 3-71 6-28-72 7-31-72 9- 9-72 9-30-72	32 21 222 21 7.0 51

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
				Date	Discharge (cfs)	
Susquehanna River basin---Continued						
01496510 Susquehanna River	Atlantic Ocean	Lat 42°39'41", long 74°57'01", Otsego County, at county road bridge just below mouth of Oaks Creek at Hyde Park.			6- 7-72	815
01497310 Susquehanna River	Atlantic Ocean	Lat 42°31'43", long 74°58'05", Otsego County, at bridge on Cliffside Road at Portlandville.			6- 6-72	1,180
01502701 Susquehanna River	Atlantic Ocean	Lat 42°13'38", long 75°31'27", Chenango County, at bridge on State Highway 41 at Afton.			6- 6-72	4,570
01503495 Susquehanna River	Atlantic Ocean	Lat 42°06'07", long 75°53'50", Broome County, at bridge on Tompkins Street, State Highway 7, at Binghamton.	1967-68		6- 5-72	6,220
01503950 Callahan Brook	Chenango River	Lat 42°53'56", long 75°39'09", Madison County, at bridge on Reservoir Road at Morrisville, 250 ft downstream from reservoir outlet stream, and 1.6 miles upstream from Electric Light Stream.			8-15-72	6.0
01508650 West Branch Tioughnioga River	Tioughnioga River	Lat 42°43'55", long 76°07'52", Cortland County, on Preble Road, 0.8 mile east of State Highway 281, and 1.0 mile east of Preble.			8-17-72 9-17-72	*23 *11
01508652 West Branch Tioughnioga River	Tioughnioga River	Lat 42°43'07", long 76°08'08", Cortland County, on Clark Road, 0.1 mile west of U.S. Highway 11 in Slab City, and 1.3 miles southwest of Preble.			8-17-72 9-17-72	*28 *14
01508665 West Branch Tioughnioga River	Tioughnioga River	Lat 42°41'06", long 76°09'39", Cortland County, on white Birch Road, 0.3 mile upstream from Cold Brook, and 2.3 miles north of Homer.			8-17-72	*32
01508705 West Branch Tioughnioga River	Tioughnioga River	Lat 42°40'50", long 76°09'54", Cortland County, 0.1 mile downstream from Cold Brook, 0.4 mile downstream from White Birch Road, 1.0 mile southeast of Little York, and 2.3 miles north of Homer.			9-17-72	22
01508802 Factory Brook	West Branch Tioughnioga River	Lat 42°38'36", long 76°10'41", Cortland County, at bridge on U.S. Highway 11, in Homer, and 0.2 mile upstream from mouth.			8-17-72 9-17-72	*7.4 *3.9
01508905 Dry Creek	West Branch Tioughnioga River	Lat 42°36'30", long 76°13'30", Cortland County, on Sweeney Road 200 feet north of Kinney Gulf Road, and 1.2 miles west of State Highway 281 and Cortland.			8-17-72 9-17-72	*.98 *.66
01508915 Dry Creek	West Branch Tioughnioga River	Lat 42°36'06", long 73°12'50", Cortland County, 200 ft downstream from Blue Creek, 0.2 mile downstream from Kinney Gulf Road, and 0.7 mile west of Cortland.			8-17-72 9-17-72	*1.1 *.32
01508918 Dry Creek	West Branch Tioughnioga River	Lat 42°35'58", long 76°12'14", Cortland County on State Highway 281, 0.2 mile west of Cortland, and 1.3 miles upstream from mouth.			8-17-72 9-17-72	*1.7 *.55
01508925 Dry Creek	West Branch Tioughnioga River	Lat 42°36'17", long 76°11'31", Cortland County, on Hamlin Street in Cortland, and 0.6 mile upstream from mouth.			8-17-72 9-17-72	*.63 0
01508940 Otter Creek	West Branch Tioughnioga River	Lat 42°34'55", long 76°13'07", Cortland County, at culvert on Cortland Road, 0.2 mile west of State Highway 281, and 1.1 miles southwest of Cortland.			8-17-72 9-17-72	*3.2 0
01508945 Otter Creek Tributary	Otter Creek	Lat 42°35'30", long 76°14'20", Cortland County, on Sears Road, 0.2 mile northwest of State Highway 222, and 2.0 miles west of Cortland.			8-17-72 9-17-72	*.14 0

* Base flow.

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Susquehanna River basin--Continued						
01508948 Otter Creek Tributary	Otter Creek	Lat 42°35'15", long 76°13'25", Cortland County, on Fairview Drive, 0.2 mile south of State Highway 222, and 1.2 miles west of Cortland.			8-17-72 9-17-72	0 0
01508951 Otter Creek	West Branch Tioughnioga River	Lat 42°35'30", long 76°12'32", Cortland County, on State Highway 281, 0.4 mile west of Cortland, and 2.0 miles upstream from mouth.			8-17-72 9-17-72	*2.5 0
01508955 Otter Creek	West Branch Tioughnioga River	Lat 42°36'03", long 76°11'23", Cortland County, on State Highway 222 (Groton Avenue) in Cortland, and 0.7 mile upstream from mouth.			8-17-72 9-17-72	*1.4 *.03
01508960 Otter Creek	West Branch Tioughnioga River	Lat 42°36'25", long 76°10'58", Cortland County, at bridge on State Highway 11 in Cortland, and 0.2 mile upstream from mouth.	14.3	1964	8-17-72 9-17-72	*1.4 0
01512786 Brooks Creek	Castle Creek	Lat 42°14'30", long 75°58'32", Broome County, 0.2 mile northeast of county sanitary land- fill, 0.5 mile southwest of intersection of Dunham Hill Road and Brigham Road, 3.1 miles northwest of Castle Creek, and 4.6 miles upstream from mouth.			6-16-72	4.3
01512788 Brooks Creek	Castle Creek	Lat 42°13'25", long 75°56'58", Broome County, 0.1 mile northwest of intersection of Rozelle Road and Houdlam Road, 1.6 miles west of Castle Creek, and 2.1 miles up- stream from mouth.			6-16-72	47
01513840 Pumpelly Creek	Susquehanna River	Lat 42°05'21", long 76°16'02", Tioga County, 0.2 mile upstream from bridge on State Highway 283, 0.4 mile upstream from mouth, and 0.9 mile south of Owego.	8.59	1966-68 [†]	6-23-72	+1,660
01514100 Catatonk Creek	Owego Creek	Lat 42°12'49", long 76°29'31", Tioga County, at old iron bridge on Owego Street, at Spencer, and 0.9 mile upstream from Seelytown Creek.	26.5	1955,64	6-23-72	+1,500
01516000 Cayuta Creek	Susquehanna River	Lat 42°00'32", long 76°31'33", Tioga County, at bridge on Ithaca Street, Waverly.	140	1950-71	1-13-72 5-18-72 6-28-72 6-28-72 7-13-72	145 a450 474 479 88
01518970 Troups Creek	Cowanesque River (Pa.)	Lat 42°01'37", long 77°32'08", Steuben County, at bridge in Squab Hollow, 100 ft west of State Highway 36, 1.1 miles southeast of Troupsburg.	30.2		6-23-72	+4,500
01520507 Tannery Creek	Tioga River	Lat 42°02'35", long 77°06'40", Steuben County, along Tannery Creek Road, 0.6 mile west of East Lindley, 1.3 miles upstream from mouth, and 1.5 miles northeast of Lindley.	9.13		6-23-72	+2,730
01520973 Canisteo River Tributary No. 2	Canisteo River	Lat 42°20'58", long 77°51'36", Allegany County, at bridge on Dobson Road, 200 ft south of Davison Road, 0.4 mile upstream from mouth, and 6.5 miles northwest of Almond.	0.31		6-23-72	+43
01520991 Canisteo River	Tioga River	Lat 42°22'14", long 77°45'09", Allegany County, at bridge on Bailey Hill Road in Bishopville.	22.4		6-23-72	+3,400
01521610 Big Creek	Canisteo River	Lat 42°22'05", long 77°38'38", Steuben County, at bridge on State Highway 70, 1.5 miles northeast of North Hornell, and 2.5 miles southeast of Arkport.	16.8	1966-68	6-23-72	+6,680
01522075 Canacadea Creek	Canisteo River	Lat 42°15'13", long 77°47'24", Allegany County, at culvert on road at Alfred University, at Alfred.	1.28		6-23-72	+656

+ Peak discharge.

* Operated as continuous-record gaging station.

* Base flow.

a Also a low-flow partial-record station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously	Measurements	
				(water years)	Date	Discharge (cfs)
Susquehanna River basin--Continued						
01522076 Canacadea Creek Tributary No. 2	Canacadea Creek	Lat 42°14'51", long 77°48'38", Allegany County, at bridge on Water Wells Road, 0.4 mile south- west of Alfred.	0.52		6-23-72	+358
01522078 Canacadea Creek Tributary	Canacadea Creek	Lat 42°15'41", long 77°47'08", Allegany County, 200 ft upstream from mouth, 200 ft downstream from Elm Valley Road in Alfred.	1.02		6-21-72	+570
01522083 East Branch Canacadea Creek	Canacadea Creek	Lat 42°15'21", long 77°45'51", Allegany County, between railroad and State Highway 21, 0.9 mile upstream from mouth, and 0.9 mile south- west of Alfred Station.	6.54		6-23-72	+2,660
01522085 Canacadea Creek	Canisteo River	Lat 42°16'28", long 77°45'12", Allegany County, along State Highway 21, 0.3 mile northeast of Alfred Station.	14.8		6-21-72	+6,080
01522430 McHenry Valley Creek Tributary No. 2	McHenry Valley Creek	Lat 42°16'29", long 77°49'40", Allegany County, at bridge on McHenry Valley Road, 0.2 mile upstream from mouth, 1.7 miles north of Five Corners, and 2.1 miles northwest of Alfred.	1.73		6-21-72	+1,100
01522435 McHenry Valley Creek Tributary	McHenry Valley Creek	Lat 42°17'12", long 77°49'15", Allegany County, at bridge on McHenry Valley Road, 0.1 mile northeast of Tuttle Road, 0.1 mile upstream from mouth, and 2.1 miles northwest of Alfred.	0.96		6-21-72	+450
01524610 Bennetts Creek Tributary	Bennetts Creek	Lat 42°08'11", long 77°39'10", Steuben County, at culvert on highway in Greenwood, 0.25 mile northwest of intersection with State Highway 248, and 0.3 mile upstream from mouth.	3.14		6-21-72	+680
01524990 Purdy Creek	Bennetts Creek	Lat 42°15'27", long 77°38'13", Steuben County, at bridge south of Shovel Hollow Road, 1.7 miles west of State Highway 248, 2.0 miles upstream from mouth, and 2.1 miles southwest of Canisteo.	21.2	1935	6-22-72	+6,940
01525000 Bennetts Creek	Canisteo River	Lat 42°15'56", long 77°35'39", Steuben County, at bridge on State Highway 36, 0.25 mile southwest of Canisteo.	95.3	1938-47# 1957-62	6-22-72	+19,500
01525050 Colonel Bill's Creek	Canisteo River	Lat 42°11'24", long 77°33'09", Steuben County, 0.1 mile downstream from Milwaukee Creek, and 0.3 mile southwest of South Canisteo.	10.1		6-22-72	+2,820
01525650 Canisteo River	Tioga River	Lat 42°06'25", long 77°14'03", Steuben County, at bridge on State Highway 17 in Addison, 1,200 ft upstream from Tuscarora Creek, and 1.5 miles downstream from Catherine Creek.		1970-71	7-17-72	523
01525750 Tuscarora Creek Tributary	Tuscarora Creek	Lat 42°06'12", long 77°26'31", Steuben County, 0.4 mile north of State Highway 17, 0.7 mile upstream from mouth, and 2.5 miles northwest of Woodhull.	9.4	1966-68#	6-23-72	+1,440
01526070 Canisteo River	Tioga River	Lat 42°06'21", long 77°09'19", Steuben County, at bridge on new U.S. Highway 15, 0.4 mile southwest of Erwins, and 1.0 mile upstream from mouth.	551		6-23-72 6-27-72	+65,000 2,610
01526495 Mulholland Creek	Tioga River	Lat 42°07'00", long 77°07'21", Steuben County, on Mulholland Road, 0.5 mile upstream from mouth, and 1.2 miles east of Erwins.	5.1	1966-68#	6-23-72	+590
01526976 Kirkwood Creek	Cohocton River	Lat 42°32'11", long 77°26'31", Steuben County, at bridge on county highway, 1.2 miles east of Kirkwood, 2.0 miles southwest of Atlanta, and 2.2 miles upstream from mouth.	3.70		6-23-73	+810
01527428 Neils Creek	Cohocton River	Lat 42°25'56", long 77°30'30", Steuben County, at "The Rocks" along Neils Creek Road, 0.4 mile northeast of Greenville, and 2.6 miles west of Bloomerville.	18.0		6-23-72	+3,750

Operated as continuous-record gaging station.

+ Peak discharge.

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Susquehanna River basin--Continued						
01527485 Tenmile Creek	Cohocton River	Lat 42°25'43", long 77°25'52", Steuben County, at bridge on road along east side of Cohocton River, 0.4 mile upstream from mouth, and 0.6 mile northwest of Avoca.	17.9		6-23-72 +	2,240
01527500 Cohocton River	Chemung River	Lat 42°23'52", long 77°25'09", Steuben County at bridge on road off U.S. highway 15, 0.8 mile south of Avoca, and 0.8 mile upstream from Salmon and Goff Creeks.	157	1938-45#	6-23-72 +	13,300
01527580 Goff Creek Tributary	Goff Creek	Lat 42°21'24", long 77°29'27", Steuben County, at bridge on road off State Highway 70, at mouth of Rice Glen, 0.2 mile upstream from mouth, and 1.1 miles southeast of Howard.	4.86		6-21-72 +	660
01527620 Goff Creek	Cohocton River	Lat 42°22'57", long 77°24'49", Steuben County, 0.4 mile upstream from bridge on State Highway 70, 0.9 mile upstream from mouth and 1.2 miles south of Avoca.	23.8		6-22-72 +	3,550
01528200 Campbell Creek	Cohocton River	Lat 42°20'48", long 77°23'54", Steuben County, at bridge on county road, 2.4 miles southwest of Kanona.	32.7	1935,53 1957-62 1965	6-23-72 +	7,340
01528375 Stocking Creek Tributary	Stocking Creek	Lat 42°15'02", long 77°21'28", Steuben County, at bridge on road 0.4 mile southeast of North Cameron, and 1.2 miles upstream from mouth.	2.64		6-23-72 +	452
01528950 Mud Creek Tributary	Mud Creek	Lat 42°20'31", long 77°09'10", Steuben County, at bridge on State Highway 226, 0.3 mile upstream from mouth, 1.0 mile northwest of Sonora, and 2.9 miles southwest of Bradford.	2.34		6-23-72 +	757
01529530 South Branch Michigan Creek	Michigan Creek	Lat 42°13'06", long 77°19'00", Steuben County, at culvert on State Highway 333, at Risingville, and 0.15 mile upstream from mouth.	0.96	1953-54	6-22-72 +	168
01530200 Post Creek	Chemung River	Lat 42°10'10", long 77°02'50", Steuben County, at footbridge at Penn Central Transportation Co. warehouse, 0.6 mile northeast of Corning.	31.6	1956-62 1965	6-23-72 +	3,000
01530285 Singsing Creek	Chemung River	Lat 42°10'43", long 76°53'15", Chemung County, at powerline 0.1 mile upstream from bridge on Singsing Road, 0.8 mile north of county airport, and 3.3 miles northeast of Big Flats.	14.7		6-22-72 +	3,000
01530303 Chemung River	Susquehanna River	Lat 42°05'42", long 76°55'05", Chemung County, at Harris Hill Manor, 0.2 mile downstream from Singsing Creek, and 2.9 miles southeast of Big Flats.	2,150	1936	6-23-72 +	235,000
01530440 Newtown Creek	Chemung River	Lat 42°10'03", long 76°49'09", Chemung County, at bridge on East Franklin Street in Horseheads.	56.4		6-22-72 +	5,200
01530770 Seeley Creek	Chemung River	Lat 42°02'59", long 76°49'56", Chemung County, along State Highway 328, 0.6 mile upstream from bridge on State Highway 14, in Southport, and 1.9 miles southwest of Elmira.	95.6		6-23-72 +	18,900
01530910 Rorick Hollow Creek	Baldwin Creek	Lat 42°09'10", long 76°42'44", Chemung County, at bridge on Rorick Hollow Road, 0.5 mile upstream from mouth, and 1.8 miles southeast of Breesport.	1.65		6-23-72 +	333
Allegheny River basin						
03010678 Little Genesee Creek	Oswayo Creek	Lat 42°01'22", long 78°13'18", Allegany County, at bridge on Foster Road, 0.2 mile downstream from Foster Brook, and 0.8 mile southwest of Little Genesee.	37.0		6-23-72 +	8,330
03010718 Dodge Creek	Allegheny River	Lat 42°02'35", long 78°19'46", Cattaraugus County, at Portville, 150 ft west of State Highway 305, and 0.75 mile upstream from mouth.	45.7		6-23-72 +	4,200

Operated as continuous-record gaging station.

+ Peak discharge.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Allegheny River basin--Continued						
03010762 Gates Creek	Ischua Creek	Lat 42°20'02", long 78°27'17", Cattaraugus County, 175 ft upstream from Third Ave. in Franklinville, and 1.3 miles upstream from mouth.	19.3	1967	6-23-72	+979
03010783 Johnson's Creek	Griffin Creek	Lat 42°12'16", long 78°16'30", Allegany County at bridge on State Highway 30, 0.1 mile upstream from mouth, and 0.9 mile south of Cuba.	2.10	1967	6-23-72	+609
03010958 Tunungwant Creek	Allegheny River	Lat 41°59'47", long 78°37'24", McKean County, Pa., at bridge at Tuna Creek, 1.2 miles downstream from Foster Brook, and 2.1 miles north of Bradford.	138	1967-71	10-13-71 12-14-71 1-12-72 6-13-72 6-28-72 8-15-72 9-12-72	40 249 306 71 584 87 39
03010979 Wrights Creek	Great Valley Creek	Lat 42°12'10", long 78°36'55", Cattaraugus County, 0.3 mile upstream from bridge on Humphrey Road at Willoughby, and 3.1 miles upstream from mouth.	30.2	1967	6-23-72	+2,000
03013070 Mill Creek	Cassadaga Creek	Lat 42°15'45", long 79°15'38", Chautauqua County, at bridge on State Highway 49 at Sinclairville.	17.6	1954	6-23-72	+2,070
03014670 Conewango Creek	Allegheny River	Lat 42°01'23", long 79°09'36", Chautauqua County, at bridge on Riverside Road, just upstream from Kiantone Creek, 1.5 miles northwest of Fentonville.	767	1960 1967-71	10-12-71 11- 8-71 12-13-71 6-12-72 6-28-72	360 772 4,460 279 6,840
Streams Tributary to Lake Erie						
04213320 Chautauqua Creek	Lake Erie	Lat 42°20'15", long 79°36'04", Chautauqua County, on bridge on State Highway 5 at Barcelona, 0.3 mile upstream from mouth, and about 0.8 mile downstream from Westfield sewage treatment outfall.	36.0	1955-68	6-23-72	+7,730
04213492 South Branch Cattaraugus Creek	Cattaraugus Creek	Lat 42°20'28", long 78°50'59", Cattaraugus County, at bridge on Skinner Hollow Road, and 1.3 miles northeast of Cattaraugus.	a 70		6-23-72	+4,000
04214005 Clear Creek	Cattaraugus Creek	Lat 42°29'30", long 78°50'52", Erie County, 0.25 mile upstream from bridge on Zoar Road at Collins Center, and 6.3 miles east of Gowanda.			9-18-72	*1.5
Niagara River basin						
04218230 Ransom Creek	Tonawanda Creek	Lat 43°03'08", long 78°44'23", Niagara County, at bridge on Hopkins Road, 0.4 mile downstream from two unnamed tributaries, 0.85 mile north of Hopkins Road-State Highway 263 intersection, 1.8 miles upstream from mouth, and 2.1 miles southeast of Wendelville.	56.2	1964 1971	6-19-72	*9.0
04218600 Erie (Barge) Canal	Niagara River	Lat 43°10'11", long 78°41'41", Niagara County, 200 ft west of lock 35 in Lockport.			3-29-72	42
04218700 Erie (Barge) Canal	Niagara River	Lat 43°07'33", long 77°39'04", Monroe County, at guard gate 2,500 ft west of Genesee River, at Rochester city line.		1971	9-13-72	706
04218740 Erie (Barge) Canal	Niagara River	Lat 43°07'01", long 77°38'01", Monroe County, at guard gate 3,000 ft east of Genesee River, and 0.5 mile southeast of Rochester.		1971	9-13-72 9-14-72	332 409

* Base flow.

+ Peak discharge.

a Estimated.

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured	Measurements	
				previously (water years)	Date	Discharge (cfs)
Streams Tributary to Lake Ontario						
04218827 Johnson Creek Feeder	Johnson Creek	Lat 43°12'48", long 78°30'33", Niagara County, at Watsons diversion gates on Erie (Barge) Canal, 1.9 miles west of Middleport.		1971	4- 3-72	.30
04219650 Fourmile Creek	Lake Ontario	Lat 43°16'11", long 79°00'16", Niagara County, at bridge on State Highway 18 (Lake Road), 0.2 mile east of Creek Road, and 2.5 miles northeast of Youngstown.		1968 1971	10-28-71 3-29-72	*1.9 21
04219732 Eighteenmile Creek Feeder	Eighteenmile Creek	Lat 43°10'28", long 78°41'20", Niagara County, at Halls diversion gate on Erie (Barge) Canal, 200 ft west of 1st lift bridge east of lock 34.			3-29-72	31
04219733 Eighteenmile Creek	Lake Ontario	Lat 43°10'38", long 78°41'19", Niagara County, at bridge on Clinton Street at Lockport.		1956	10-29-71	91
04219745 East Branch Eighteenmile Creek	Eighteenmile Creek	Lat 43°11'50", long 78°33'52", Niagara County, at bridge on State Highway 31, 0.4 mile up- stream from Erie (Barge) Canal, and 0.5 mile east of Gasport Road in Gasport.		1968	11-16-71	.45
04219747 East Branch Eighteenmile Feeder	East Branch Eighteenmile Creek	Lat 43°12'05", long 78°33'37", Niagara County, at Maybee diversion gates at Erie (Barge) at Gasport.			3-29-72	16
04219748 East Branch Eighteenmile Creek	Eighteenmile Creek	Lat 43°12'30, long 78°33'58", Niagara County, at bridge on Slayton Settlement Road, 1.5 miles downstream from Erie (Barge) Canal, and 0.8 mile northeast of Gasport.			10-28-71	7.3
04219807 Golden Hill Creek	Lake Ontario	Lat 43°22'05", long 78°29'19", Niagara County, at bridge on Golden Hill State Park Road, 0.8 mile upstream from mouth, and 4.1 miles north- east of Barker.		1971	3-30-72	195
04219851 Jeddo Creek	Johnson Creek	Lat 43°12'59", long 78°26'20", Orleans County, at bridge on Dublin Road, 0.2 mile downstream from Erie (Barge) Canal, and 1.6 miles west of Medina.			10-29-71	.56
04219865 Jeddo Creek Tributary	Jeddo Creek	Lat 43°12'23", long 78°28'33", Niagara County, at bridge on State Highway 31, 300 ft east of State Highway 31E, at Middleport.		1968	11-16-71	.07
042198675 Jeddo Creek Tributary feeder	Jeddo Creek Tributary	Lat 42°12'44", long 78°28'48", Niagara County, at Middleport diversion gates on Erie (Barge) Canal in Middleport.			4- 3-72	6.6
04219868 Jeddo Creek Tributary	Jeddo Creek	Lat 43°12'45", long 78°28'48", Niagara County, at bridge on Canal Road in Middleport, and 100 ft downstream from the Erie (Barge) Canal.			11-16-71	7.1
04219869 Jeddo Creek Tributary	Jeddo Creek	Lat 43°12'58", long 78°28'48", Niagara County, at bridge on Town Line Road, 0.3 mile down- stream from Erie (Barge) Canal, and 0.4 mile north of Middleport.			10-29-71	14
042201525 Oak Orchard Creek feeder	Oak Orchard Creek	Lat 43°13'20", long 78°22'57", Orleans County, at Medina diversion gates on Erie (Barge) in Medina.			4- 3-72	1.8
042201554 Oak Orchard Creek	Lake Ontario	Lat 43°15'52", long 78°23'11", Orleans County, at bridge on Huron Road at Ridgeway, and 0.2 mile south of U.S. Highway 104.			10- 6-71	256
042201655 Oak Orchard Creek	Lake Ontario	Lat 43°18'04", long 78°18'39", Orleans County, at bridge on Town Line Road, 1.6 miles south- west of Kenyonville.			10- 6-71 10- 7-71	246 247
042201659 Otter Creek feeder	Otter Creek	Lat 43°15'15", long 78°14'40", Orleans County, at Eagle Harbor diversion gates at Erie (Barge) Canal, and 0.5 east of Eagle Harbor.			4- 3-72	18

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Streams Tributary to Lake Ontario--Continued						
04220166 Otter Creek	Oak Orchard Creek	Lat 43°15'50", long 78°15'11", Orleans County, at bridge on Eagle Harbor-Waterport Road, and 0.8 mile north of Eagle Harbor.			11-16-71	3.4
04220200 Bald Eagle Creek	Lake Ontario	Lat 43°21'17", long 78°01'07", Orleans County, at bridge on Lake Shore Road, 1.0 mile up- stream from mouth, and 2.0 miles northeast of Kendall.		1968, 1971	3-28-72 3-30-72 5-10-72 6-14-72	29 62 35 T
04220216 East Branch Sandy Creek feeder	East Branch Sandy Creek	Lat 43°13'33", long 78°01'06", Orleans County, at Holley diversion gates on Erie (Barge) Canal, 0.4 mile east of Holley.			4- 3-72	18
04220233 Salmon Creek feeder	Salmon Creek	Lat 43°11'47", long 77°51'30", Monroe County, at Adams Basin diversion gates on Erie (Barge) Canal, 0.2 mile west of Adams Basin.			4- 4-72	22
04220260 Northrup Creek feeder	Northrup Creek	Lat 43°11'31", long 77°47'57", Monroe County, at Spencerport gates on Erie (Barge) Canal in Spencerport.			4- 4-72	7.1
04220274 Round Pond Creek Tributary feeder	Round Pond Creek Tributary	Lat 43°11'02", long 77°42'57", Monroe County, at Greece diversion gates on Erie (Barge) Canal, 0.8 mile northeast of Elmgrove.			4- 4-72	2.7
04220283 Round Pond Creek	Lake Ontario	Lat 43°15'44", long 77°19'56", Monroe County, at bridge on Island Cottage Road, 0.8 mile northwest of Mount Read, and 1.8 miles up- stream from mouth.		1970-71	3-30-72	52
04220360 Spring Mills Creek	Cryder Creek	Lat 42°00'22", long 77°45'49", Allegany County, 0.35 mile upstream from Cobb Road at Spring Mills, and 2.2 miles south of Whitesville.	5.01		6-22-72	+595
04220374 Cryder Creek	Genesee River	Lat 41°59'48", long 77°51'55", Potter County, Pa., at bridge on New York State Highway 248A extension, 600 ft south of New York State line, 0.25 mile upstream from mouth, and 0.25 mile northwest of Genesee, Pa.	50.0		6-22-72	+6,610
04220384 Orebed Creek	Marsh Creek	Lat 42°01'37", long 77°56'15", Allegany County, at upstream side of bridge on Graves Road, 0.7 mile upstream from mouth and 4.2 miles southwest of Stannards.	4.07		6-22-72	+965
04220412 Genesee River	Lake Ontario	Lat 42°04'34", long 77°55'30", Allegany County, at highway bridge, 0.7 mile downstream from Ford Brook, and 0.7 mile south of Stannards.	179	1969	6-22-72	+20,200
04220418 Fullmer Valley Creek Tributary	Fullmer Valley Creek	Lat 42°07'09", long 77°49'04", Allegany County, at culvert on Trapping Brook Road, 0.1 mile west of Fullmer Valley Road, 1.3 miles upstream from mouth, and 2.2 miles southwest of Andover.	0.72		6-22-72	+173
04220420 Fullmer Valley Creek	Chenunda Creek	Lat 42°04'57", long 77°51'52", Allegany County, at bridge on Fullmer Valley Road, 0.2 mile upstream from mouth, and 0.7 mile northwest of Hallsport.	11.8		6-22-72	+3,200
04220422 Chenunda Creek Tributary	Chenunda Creek	Lat 42°04'31", long 77°52'43", Allegany County, at culvert on State Highway 248, 0.2 mile upstream from Chenunda Creek, 0.3 mile east of Covell Road, and 2.1 miles southeast of Stannards.	.04		6-21-72	+27
04220431 Chenunda Creek	Genesee River	Lat 42°05'16", long 77°55'00", Allegany County, 1,500 ft upstream from State Highway 19, at Stannards.	30.6		6-22-72	+9,200
04220462 East Valley Creek	Railroad Brook	Lat 42°09'51", long 77°47'14", Allegany County, at bridge on East Valley Road in Andover, and 0.4 mile upstream from mouth.	7.29		7-20-72 8-10-72 8-24-72 9- 7-72 9-21-72	6.1 *1.8 .77 .84 .75

T Trace.

+ Peak discharge.

* Base flow.

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured	Measurements	
				previously (water years)	Date	Discharge (cfs)
Streams Tributary to Lake Ontario--Continued						
04220472 Indian Creek	Dyke Creek	Lat 42°08'16", long 77°48'18", Allegany County, along Indian Creek Road, about 300 ft upstream from Joe Lynch Road, and 1.3 miles southwest of Andover.	1.07		6-23-72	+929
04220478 Elm Valley	Dyke Creek	Lat 42°11'34", long 77°50'59", Allegany County, just south of Andover town line, 0.1 mile west of Elm Valley Road, about 0.3 mile north from former crest-stage gage site, and 3.0 miles north of Elm Valley.	4.18		6-23-72	+1,840
04220492 Trapping Brook	Dyke Creek	Lat 42°07'02", long 77°52'58", Allegany County, at culvert on Trapping Brook Road, 3.2 miles east of Wellsville.	3.19		6-23-72	+630
04220500 Dyke Creek	Genesee River	Lat 42°07'14", long 77°56'13", Allegany County, at bridge on Miller Street, at Wellsville, 0.6 mile upstream from mouth, and 1.2 miles downstream from Trapping Brook.	71.4	1955-60	6-23-72	+12,000
04221510 Vandermark Creek	Genesee River	Lat 42°10'02", long 77°57'29", Allegany County, at bridge on Vandermark Road, 1.1 miles east of Scio, and 1.3 miles upstream from mouth.	22.0		6-23-72	+8,670
04221518 Snowball Hollow Creek	Knight Creek	Lat 42°08'55", long 78°00'33", Allegany County, at bridge on Knight Creek Road, 0.2 mile upstream from mouth, and 1.9 miles southwest of Scio.	3.47		6-21-72	+580
04221554 North Branch Phillips Creek	Phillips Creek	Lat 42°14'44", long 77°59'17", Allegany County, at bridge on State Highway 244 at Withey, and 0.1 mile upstream from mouth.	7.16		6-22-72	+1,730
04221555 Phillips Creek	Genesee River	Lat 42°14'38", long 77°59'24", Allegany County, at bridge on county road, 0.1 mile downstream from North Branch Phillips Creek, and 0.2 mile southwest of Withey.	24.1		6-22-72	+5,910
04221561 Feathers Creek	Phillips Creek	Lat 42°14'48", long 78°00'51", Allegany County, along Feathers Creek Road, 0.4 mile northeast of State Highway 244, and 1.9 miles northeast of Belmont.	3.69		6-23-72	+931
04221640 Black Creek	Angelica Creek	Lat 42°22'21", long 77°55'21", Allegany County, at bridge on Hamilton Road, 1.3 miles south of Birdsall.	19.4		6-23-72	+1,860
04221700 Angelica Creek	Genesee River	Lat 42°18'38", long 78°02'16", Allegany County, at bridge on State Highway 408, 1.2 miles west of Angelica.	61.3	1942 1954-55 1957-62a	6-22-72	+6,120
04221710 Baker Creek	Angelica Creek	Lat 42°18'31", long 78°02'35", Allegany County, at bridge on State Highway 408, 0.3 mile upstream from mouth, and 1.3 miles west of Angelica.	22.4	1955a 1964-1965a 1970-1971a	6- 9-72 6-22-72	*5.0 +3,050
04222510 Sixtown Creek	Cold Creek	Lat 42°27'56", long 78°11'49", Allegany County, at bridge on Higgins Road, 0.3 mile southeast from junction of Higgins Road and Stickles Road, at Higgins.	17.8		6-22-72	+2,460
04224650 Canaseraga Creek	Genesee River	Lat 42°28'18", long 77°45'24", Allegany County, on right bank 150 ft upstream from bridge on road to village disposal area, 1.2 miles northeast of Canaseraga.	58.2	1964-68# 1969	6-22-72	+12,400
04224800 Stony Brook	Canaseraga Creek	Lat 42°28'15", long 77°39'08", Steuben County, at culvert on Day Road, at South Dansville.	2.23		6-22-72	+490
04224810 Sponable Creek	Stony Brook	Lat 42°30'04", long 77°37'58", Steuben County, at culvert on town road, 2.5 miles north of South Dansville, and 2.7 miles upstream from mouth.	0.69	1964-65a	6-22-72	+121

+ Peak discharge.

a Low-flow partial-record station.

* Base flow.

Operated as continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Streams Tributary to Lake Ontario---Continued						
04224965 Little Mill Creek	Canaseraga Creek	Lat 42°34'18", long 77°38'58", Steuben County, at overflow dam, 1.0 mile north of Whiteman Road, 2.5 miles northeast of Dansville.	7.54		6-22-72	+835
04224970 Little Mill Creek Tributary	Little Mill Creek	Lat 42°34'30", long 77°39'21", Steuben County, at culvert on Madalie Road, 2.3 miles north- east of Dansville.	1.42		6-22-72	+113
04225050 Mud Creek	Canaseraga Creek	Lat 42°33'55", long 77°41'45", Livingston County, at footbridge in park in Dansville.	1.43		7-20-72 8-24-72 8-24-72 9- 7-72 9-21-72	1.6 *1.1 .92 .81 .72
04228825 Briggs Gully Creek	Honeoye Lake	Lat 42°43'21", long 77°30'08", Ontario County, at bridge on East Lake Road, 0.4 mile up- stream from mouth, and 4.5 miles south of Honeoye.	6.63		7-20-72 8-10-72 8-24-72 9- 7-72 9-21-72	1.1 .21 b.01 0 b.30
04230055 Honeoye Creek	Genesee River	Lat 42°58'42", long 77°41'53", Monroe County, at bridge at West Rush, 1.25 miles down- stream from unnamed tributary, and 1.9 miles upstream from mouth.		1967-1971	10-21-71 11-15-71 12-16-71 6-20-72	9.8 20 170 126
04230650 Genesee River	Lake Ontario	Lat 43°05'31", long 77°40'52", Monroe County, at Ballantyne Bridge on State Highway 252, 1.6 miles west of Mortimer, and 2.8 miles upstream from Erie (Barge) Canal crossing, near Rochester.		1965-66 1971	8-29-72	544
04231300 Genesee River	Lake Ontario	Lat 43°07'17", long 77°33'36", Monroe County, above Erie (Barge) Canal at Rochester.		1971	9-13-72	318
04231500 Genesee River	Lake Ontario	Lat 43°07'28", long 77°37'58", Monroe County, at Elmwood Avenue, Rochester, and 3,000 ft downstream from Erie (Barge) Canal.	2,450	1971	9-13-72 9-14-72	877 857
04232045 Irondequoit Creek Tributary feeder	Irondequoit Creek Tributary	Lat 43°05'12", long 77°30'35", Monroe County, at Cartersville diversion gates on Erie (Barge) Canal in Pittsford.			4- 4-72	8.2
042320508 Lake Ontario Tributary No. 107	Lake Ontario	Lat 43°14'52", long 77°29'56", Monroe County, at bridge on State Highway 16, (Lake Road), 0.2 mile upstream from mouth, 0.3 mile east of Forest Lawn, and 4 miles northwest of Webster.	8.02	1961-62 1971	3-31-72	26
042320578 Bear Creek	Lake Ontario	Lat 43°13'31", long 77°17'00", Monroe County, at bridge on New Street in Ontario, and 100 ft west of Furnaceville Road in Ontario, State Highway 104.			3-31-71 6-13-72	*28 *1.0
04232082 Wolcott Creek	Lake Ontario	Lat 43°11'23", long 76°48'12", Wayne County at bridge on Smith Road, 0.8 mile upstream from unnamed tributary, and 2.2 miles south of Wolcott.	12.1	1955,63 1971	10-27-71 4- 4-72	*3.2 100
042320885 Red Creek	Lake Ontario	Lat 43°15'11", long 76°43'46", Wayne County, at bridge on Hawley Road in Red Creek.		1971	11-15-71 4- 4-72	*6.5 69
04232150 Ninemile Creek	Lake Ontario	Lat 43°19'19", long 76°34'26", Oswego County, at bridge on State Highway 3, at Hannibal.	17.5	1962,64	6-13-72	*16
04232162 Rice Creek	Lake Ontario	Lat 43°26'12", long 76°33'42", Oswego County, at bridge on U.S. Highway 104, at Fruit Valley, and about 0.5 mile downstream from Oswego State University Dam.		1966,68 1971	4- 5-72	86
04232192 Catherine Creek Tributary No. 4	Catherine Creek	Lat 42°18'38", long 76°50'46", Schuyler County, about 200 ft southeast of State Highway 14, about 600 ft upstream from mouth, and 2.5 miles south of Montour Falls.	1.00		6-22-72	+296

+ Peak stage.

* Base flow.

b Estimated.

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Streams Tributary to Lake Ontario--Continued						
04232198 Catherine Creek	Seneca Lake	Lat 42°19'22", long 76°50'45", Schuyler County, west of State Highway 14, 0.4 mile upstream from partial-record site, and 1.7 miles south of Montour Falls.	38.2		6-22-72	+3,150
04232450 Keuka Lake Tributary No. 13	Keuka Lake	Lat 42°25'52", long 77°12'09", Steuben at culvert on town road, 0.4 mile up- stream from mouth, 1.1 miles southwest of Glen Grove, and 2.0 miles northeast of Hammondsport.	0.23		6-23-72	+119
04232468 Keuka Lake Tributary No. 12	West Branch Keuka Lake	Lat 42°30'30", long 77°11'00", Steuben County, at culvert on county road, 0.5 mile northeast of South Pulteney, and 1.4 miles southwest of Pulteney.	0.85		6-23-72	+255
04232902 West Branch Cayuga Inlet	Cayuga Inlet	Lat 42°21'48", long 76°35'05", Tompkins County, about 400 ft east from intersection of Depot Road and Main Street in Newfield.	8.05		6-23-72	+1,480
04233250 Buttermilk Creek	Cayuga Inlet	Lat 42°25'02", long 76°31'28", Tompkins County, at bridge on State Highways 13 and 34, 0.2 mile upstream from mouth, and 2.0 miles southwest of Ithaca.	11.3	1961-62a 1964-68a	6-22-72	+1,060
04233257 Coy Glen Creek	Cayuga Inlet	Lat 42°25'36", long 76°31'38", Tompkins County, at downstream side of bridge on State Highway 13A, 0.2 mile southwest of Ithaca city limits.	3.55		6-22-72	+516
04233314 Sixmile Creek Tributary	Sixmile Creek	Lat 42°24'12', long 76°27'52", Tompkins County, at culvert on Coddington Road (between King and Burns Roads), 2.3 miles southeast of Ithaca city limits.	0.69		6-22-72	+187
04233317 Sixmile Creek	Cayuga Inlet	Lat 42°25'02", long 76°27'40", Tompkins County, at dam of Ithaca Reservoir, 1.2 miles south- east of Ithaca city limits.	45.5		6-23-72	+4,430
04234428 Reservoir Creek	Naples Creek	Lat 42°36'19", long 77°24'47", Ontario County, at bridge on State Highways 21 and 245, 0.1 mile southwest of Naples, and 0.15 mile up- stream from mouth at Eelpot Creek.	5.76		6-22-72	+1,600
04240119 Ley Creek Tributary	Ley Creek	Lat 43°04'38", long 76°10'22", Onondaga County, at culvert in dump at Syracuse, 0.1 mile up- stream from mouth, 0.1 mile north of Park Street bridge over Ley Creek, and 0.5 mile upstream from Onondaga Lake.		1971	4-20-72 5-25-72 6-21-72 7-28-72 8-10-72 9-19-72	1.3 .65 8.6 .66 .32 .52
04240120 Ley Creek	Onondaga Lake	Lat 43°04'33", long 76°10'23", Onondaga County, at bridge on Park Street, about 1,000 ft up- stream from mouth, at Syracuse.	30.6	1959-71	11-17-71 12-13-71 1-11-72 2-15-72 3-15-72 4-20-72 5-25-72 6-21-72 6-22-72 7-28-72 8-10-72 9-19-72	14 29 74 46 63 162 21 373 858 16 13 20
04240135 Bloody Brook	Onondaga Lake	Lat 43°05'51", long 76°12'06", Onondaga County, 200 ft upstream from bridge on State Highway 57 at Liverpool, and 0.2 mile upstream from mouth.	3.91	1971	10-20-71 11-17-71 4-20-72 5-25-72 6-21-72 6-22-72 7-28-72 8-10-72 9-19-72	1.9 2.3 17 3.6 287 152 3.2 2.5 2.5

a Low-flow partial-record station.
+ Peak stage.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
				Date	Discharge (cfs)	
Streams Tributary to Lake Ontario--Continued						
04240470 Sawmill Creek	Onondaga Lake	Lat 43°06'55", long 76°12'06", Onondaga County, at bridge on Onondaga Lake Parkway, at Liver- pool, and 200 ft upstream from mouth.		1971	10-20-71 11-17-71 4-26-72 5-25-72 6-21-72 7-28-72 8-10-72 9-19-72	.37 1.3 6.7 6.3 20 4.4 .94 .45
04245234 Meadow Brook	Butternut Creek	Lat 43°02'21", long 76°06'30", Onondaga County, at bridge on Scott Ave. in Syracuse, and 2.7 miles upstream from mouth.		1971	10- 6-72	.09
04249100 Salmon River	Lake Ontario	Lat 43°30'30", long 75°45'32", Oswego County, at bridge on county road, 1,500 ft upstream from Little Baker Brook, 2 miles west of Osceola, and 3.6 miles southeast of Redfield.	48.8	1961-64a 1968a	11-17-71	124
04250503 Salmon River	Lake Ontario	Lat 43°33'57", long 76°07'39", Oswego County, 500 ft below bridge on State Highway 13 in Pulaski.		1971	8-17-72 8-17-72	144 1,790
04250555 Little Sandy Creek	Lake Ontario	Lat 43°38'02", long 76°09'12", Oswego County, at bridge on State Highway 3, 0.1 mile north of Sandy Pond corners, and 1.3 miles upstream from mouth.		1971	4- 5-72	88
04250615 South Sandy Creek	Lake Ontario	Lat 43°43'56", long 76°08'04", Jefferson County, at bridge on State Highway 193 in Ellisburg, and 0.2 mile upstream from Bear Creek.		1968,71	4- 5-72	205
04250765 Stony Creek	Lake Ontario	Lat 43°50'21", long 76°12'43', Jefferson County, at bridge on Game Club Road, 1.6 miles west of Henderson, and 2.0 miles upstream from mouth.		1971	4- 6-72	201
042507751 Mill Creek	Lake Ontario	Lat 43°57'10", long 76°06'10", Jefferson County, at bridge on old Military Road, at Sacketts Harbor, and 0.7 mile upstream from mouth.		1971	4- 6-72	165
04250990 Woodhull Creek	Black River	Lat 43°27'48", long 75°10'22", Oneida County, at bridge on town highway 2.2 miles north- east of Forestport, 2.4 miles upstream from Little Woodhull Creek, and 4.0 miles upstream from mouth and Forestport Reservoir.	70.2	1966-67 1971	11- 5-71 5- 3-72	*122 2,360
04253007 Sugar River	Black River	Lat 43°31'32", long 75°19'31", Lewis County, at bridge on State Highway 12, 3 miles north of Boonville.		1971	11- 3-71	*114
04254909 Moose River	Black River	Lat 43°36'59", long 75°21'24", Lewis County, at bridge on Lyons Falls Road, at Lyons Falls.		1971	5- 4-72	8,870
04254965 Black River	Lake Ontario	Lat 43°40'36", long 75°21'38", Lewis County, at Birdicks Crossing Bridge at Grieg, 0.1 mile upstream from unnamed tributary, and 1.1 miles downstream from Fish Creek.	921	1952,55 1967-70	5- 2-72 5-25-72 5-25-72	10,600 2,090 2,000
04256002 Independence River	Black River	Lat 43°43'51", long 75°21'56", Lewis County, at bridge on Pine Grove Road, 1.0 mile northeast of Otter Creek.		1971	11- 5-71	*139
St. Lawrence River basin						
04267750 Raquette River	St. Lawrence River	Lat 44°42'22", long 75°00'22", St. Lawrence County, at bridge on Hewittville Road in Hewittville.			11- 6-71	574
04267795 Raquette River	St. Lawrence River	Lat 44°48'08", long 74°59'28", St. Lawrence County, at bridge on Furnace Road in Norfolk, and 0.4 mile downstream from State Highway 56A.			11- 7-71	4.5
04268350 Upper St. Regis Lake Tributary	Upper St. Regis Lake	Lat 44°23'58", long 74°15'42", Franklin County, staff gage at culvert on State Highway 30, 2.3 miles south of Paul Smiths, and 2.7 miles south of the junction of State Highways 30 and 192.			9-18-72	0

a Low-flow partial-record station.

* Base flow.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1972--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Discharge (cfs)
St. Lawrence River basin--Continued						
04268355 Upper St. Regis Lake Tributary No. 2	Upper St. Regis Lake	Lat 44°24'16", long 74°15'31", Franklin County, staff gage at culvert on State Highway 30, 2.0 miles south of Paul Smiths, and 2.4 miles south of the junction of State Highways 30 and 192.			9-18-72	.05
04268370 Lower St. Regis Lake Tributary	Lower St. Regis Lake	Lat 44°26'25", long 74°13'58", Franklin County, 54 ft upstream from bridge on State Highway 192 in hamlet of Paul Smiths Easy Street, 0.8 mile east of Paul Smiths.			6- 9-72 9-18-72	2.4 1.1
04268383 Barnum Pond Outlet	St. Regis River	Lat 44°26'15", long 74°15'47", Franklin County, at bridge on Keese Mills Road in Paul Smiths, and 0.5 mile west of State Highway 30 (formerly State Highway 10).			6- 9-72	9.1
04268385 Black Pond Outlet	Lower St. Regis Lake	Lat 44°25'56", long 74°17'56", Franklin County, staff gage on right bank, 62 ft upstream from dam on Black Pond, 70 ft upstream from Keese Mills Road, and 2.2 miles west of Paul Smiths.			9-18-72	.36
04270503 Marble River	Chateaugay River	Lat 44°56'03", long 74°02'52", Franklin County, about 0.1 mile downstream from fish hatchery and Hatchery Road, and 1.2 miles east of Chateaugay.			9-27-72	6.8
04270505 Boardman Brook	Marble River	Lat 44°55'37", long 74°04'18", Franklin County, at bridge on U.S. Highway 11, in Chateaugay, and 0.8 mile upstream from mouth.			9-27-72	1.2
04270507 Marble River	Chateaugay River	Lat 44°56'25", long 74°04'53", Franklin County, at bridge on State Highway 374, 0.4 mile north of Chateaugay, and 0.7 mile downstream from Boardman Brook.			9-27-72	15
04270509 Marble River	Chateaugay River	Lat 44°57'33", long 74°07'47", Franklin County, at bridge on county road, 0.1 mile upstream from mouth, and 2.6 miles northwest of Chateaugay.			9-27-72	21

HUDSON RIVER BASIN

Keyser Kill Water Loss Investigations

A series of discharge measurements was made on October 29, 1971 on the Keyser Kill to determine the channel water loss in that area. The reach is 805 feet long and extends 200 feet upstream and 605 feet downstream from lat 42°31'23", long 74°24'38", Schoharie County, at bridge on State Highway 30 in Breakabeen, 0.2 mile upstream from mouth. The measurements were made during a period of base flow conditions. Indicated loss may be in error to a degree affected by small inaccuracies in open channel measurements.

Distance Upstream from Mouth (feet)	Distance from 01350350 State Hwy. Bridge at Breakabeen (feet)	Discharge on 10-29-71 (cubic ft. per sec.)
805	-200	4.07
605	0	3.97
275	+300	3.58
0	+605	2.97

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