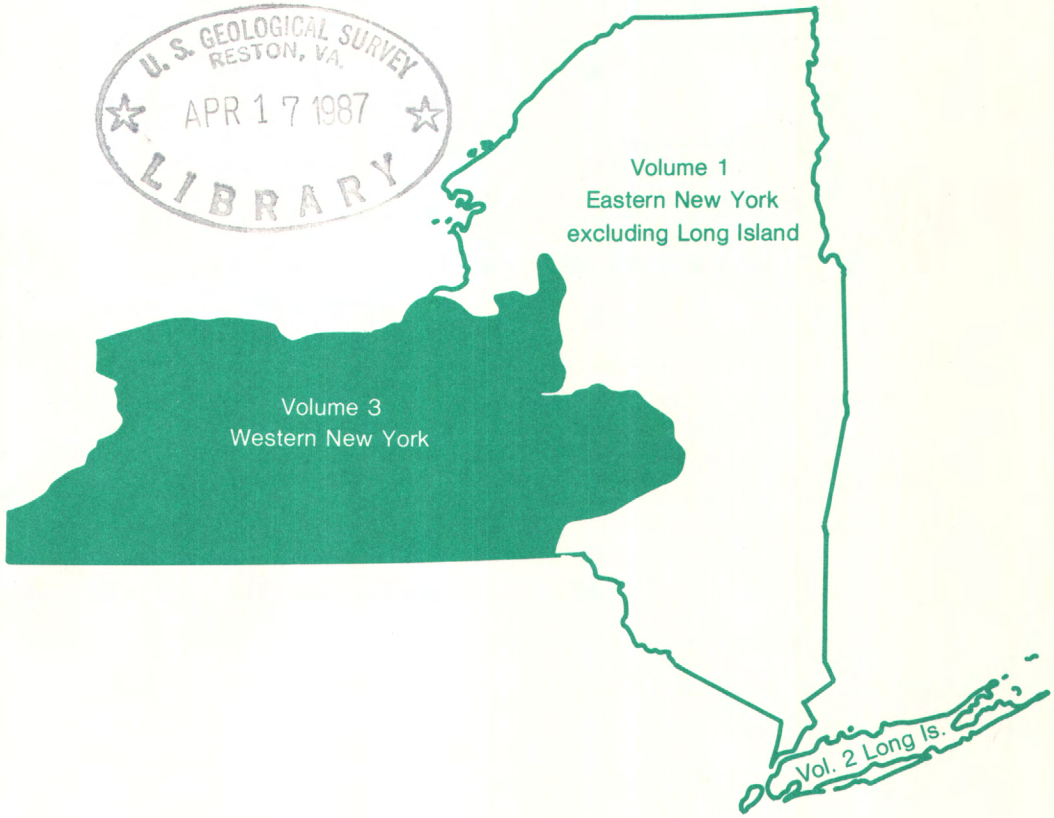
Water Resources Data New York Water Year 1985

Volume 3. Western New York



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-85-3
Prepared in cooperation with the State of New York
and with other agencies

CALENDAR FOR WATER YEAR 1985

1984

OCTOBER

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1985

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Water Resources Data New York Water Year 1985

Volume 3. Western New York

by J. B. Hood, Jr., W.H. Johnston, W.E. Harding, and D.A. Sherwood

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NY-85-3
Prepared in cooperation with the State of New York
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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

1985

PREFACE

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

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

The data contained in these three volumes were collected, computed, and processed from three subdistrict offices and one area field office. The offices, and personnel in charge, are:

Volume 1. Albany, Daniel C. Hahl, Subdistrict Chief
Potsdam, Howard G. Lent, Jr., Technician-in-charge
Volume 2. Syosset, Donald L. Bingham, Subdistrict Chief
Volume 3. Ithaca, Richard P. Novitzki, Subdistrict Chief

The authors, including W. F. Coon, had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines. The following individuals contributed significantly to the collection, processing, and tabulation of the data:

D. D. Deloff	R. L. Mulks	M. J. Welsh
H. L. Dixson	C. O. Szabo	H. J. Zajd, Jr.

S. J. Woodward and A. M. Weaver typed the text of the report.

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

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15. Supplementary Notes

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16. Abstract (Limit: 200 words)

Water resources data for the 1985 water year for New York consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels of ground-water wells. This volume contains records for water discharge at 78 gaging stations; stage only at 19 gaging stations; stage and contents at 6 gaging stations; water quality at 7 gaging stations; and water levels at 21 observation wells. Also included are data for 67 crest-stage partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements. These data together with the data in Volumes 1 and 2 represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

17. Document Analysis a. Descriptors

*New York, *Hydrologic data, *Surface water, *Ground water, *Water quality, Streamflow, Flow rates, Gaging stations, Lakes, Reservoirs, Chemical analysis, Sediments, Water analysis, Water temperature, Water levels, Water wells, Data collection, Sites, Seepage investigations.

b. Identifiers/Open-Ended Terms

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CONTENTS

ILLUSTRATIONS

TABLE

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

* * * * * * * *

GROUND-WATER LEVELS

WATER RESOURCES DATA FOR NEW YORK, 1985
Volume 3.--Western New York

INTRODUCTION

Water resources data for the 1985 water year for New York consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels of ground-water wells. This volume contains records for water discharge at 78 gaging stations; stage only at 19 gaging stations; stage and contents at 6 gaging stations; water quality at 7 gaging stations; and water levels at 21 observation wells. Locations of these sites are shown on figure 1. Also included are data for 67 crest-stage partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as measurements made at miscellaneous sites. These data together with the data in Volumes 1 and 2 represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, local, and Federal agencies in New York.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the Distribution Branch, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

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

Beginning with the 1971 water year, the Geological Survey publishes annual water data for streamflow, water quality, and ground water for all States. These reports are identified by the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report NY-85-3." These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U:S. Department of Commerce, Springfield, VA 22161.

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

COOPERATION

The U.S. Geological Survey and organizations of the State of New York and other agencies have had cooperative agreements for the systematic collection of water records since 1900. Organizations that assisted in collecting data included in Volume 3, water year 1985, through cooperative agreement with the Survey are:

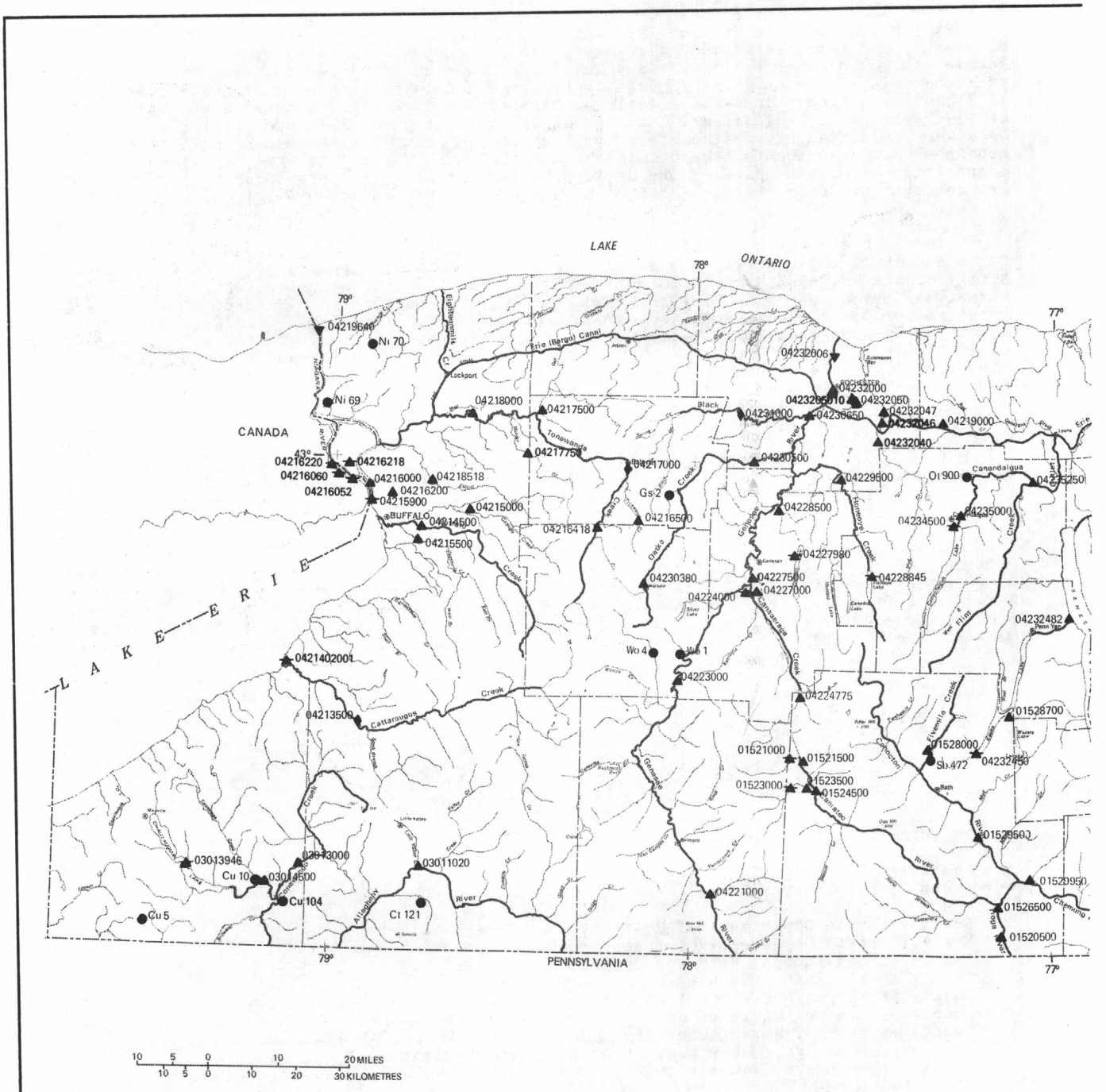
New York State Department of Environmental Conservation
New York State Department of Transportation
County of Chautauqua, Planning Department
County of Cortland, Planning Department
County of Monroe, Department of Health
County of Monroe, Division of Engineering
County of Monroe, Water Authority
County of Onondaga, Department of Drainage and Sanitation
County of Onondaga, Water Authority Commission
City of Auburn
Town of Amherst, Erie County
Town of Cheektowaga, Erie County
Irondequoit Bay Pure Waters District

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

The following organizations aided in collecting records:

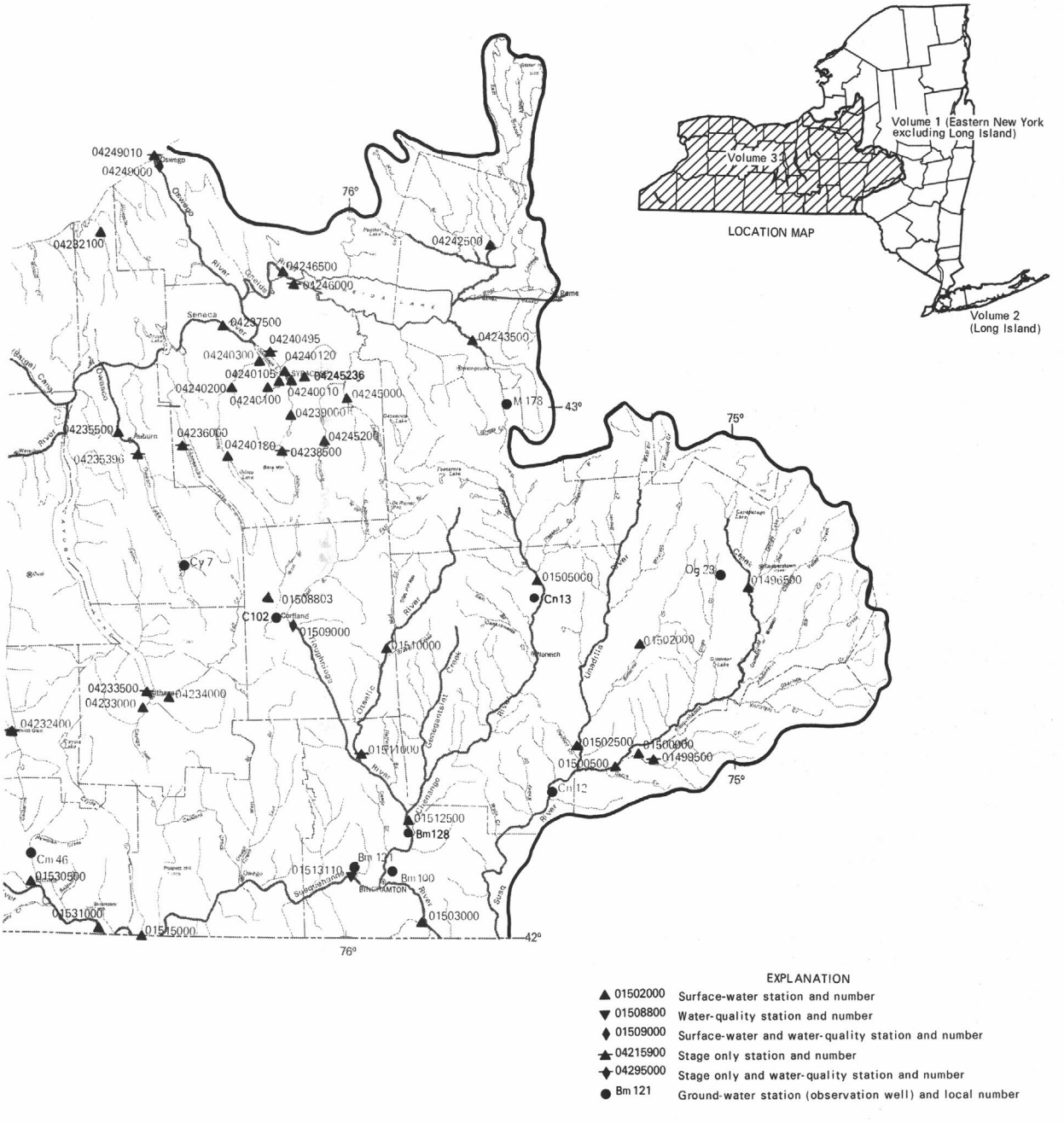
Municipalities of Batavia, Canandaigua, Cortland, Jamestown, Lancaster, Oneida, Rochester, Syracuse; Cornell University; New York State Electric and Gas Corp.; Niagara Mohawk Power Corp.; Rochester Gas and Electric Corp.

Organizations that supplied data are acknowledged in station descriptions.



Base from U.S. Geological Survey
State base map
Shaded relief, 1:500,000, 1966

FIGURE 1.--LOCATION OF GAGING STATIONS AND



OBSERVATION WELLS IN WESTERN NEW YORK

SUMMARY OF HYDROLOGIC CONDITIONS

The annual mean discharge of streams in western New York during the 1985 water year was generally below average (see table 1). Streamflow at the end of the 1984 water year was normal to excessive , but decreased through the fall of 1984, increased significantly in mid- to late-winter, declined to the deficient range[1] in late summer, and recovered to generally normal levels by the end of September. Several significant hydrologic events occurred during the water year, including floods in December, January, February, and September, and record low or near-record low monthly mean discharges for May.

The normal-to-excessive streamflows present at the end of the 1984 water year decreased to normal and deficient levels through October and November as a result of normal to below-normal precipitation during these months. Precipitation fell as light showers during October and as light rain and snow during November. No significant runoff occurred during October, but rainstorms caused high flows on November 11-12 in the Allegheny and Tonawanda River basins, and on November 29-30 in central New York streams.

Precipitation during December was in the form of showers and snow, and was slightly above normal. Above-normal temperatures prevented the accumulation of snow, which usually melted within a few days. Rain produced medium-stage peaks on December 13-14 and 22-23, which kept monthly flows within the normal range. Heavy rain on December 28-29 produced peaks at all recording sites and annual maximum peaks at many stations, especially in counties east of Lake Ontario. On December 29, a period-of-record maximum occurred at East Branch Fish Creek at Taberg (62 years of record, greater than the 100-year recurrence interval).

Rainfall on January 1 caused a secondary (and generally lower) peak on streams receding from the December high flows in the Buffalo, Rochester, and Syracuse areas. Precipitation changed from rain in the first week of January to snow for the remainder of the month and generally was below normal. Heavy snowfall January 19-22, along with additional lake-effect snow, produced monthly total accumulations of 50 to 80 inches in snowbelt regions adjacent to Lakes Erie and Ontario. Streamflows continued in the normal range, but water levels were affected by backwater from ice formation as temperatures dropped during the second week of January and remained below freezing through the third week of February.

Lake-effect snow squalls and intermittent snowstorms during the first 3 weeks of February added to the deep snowpack in snow belt areas. Record warm temperatures during the last week of February caused a mid-winter thaw that was accompanied by rain. Stream stages rose sharply as a result of the increased runoff and caused moderate to severe ice jamming on many streams throughout western New York. This resulted in flooding in the Tonawanda Creek basin and on other streams in the Buffalo area and annual peak flows at many stations, especially those in the Lake Erie and Lake Ontario snowbelt regions. Mean flows for February generally were in the normal range.

Several periods of rain throughout March helped to maintain normal flows; however, that month marked the beginning of a period of generally below-average precipitation that continued through April and May in most areas and resulted in deficient flow at all reporting sites for both months (see figs. 2 and 3). Several stations recorded the lowest or near-lowest monthly mean discharge for their respective periods of record during May.

	Station	Period of record	Previous low mean discharge for May (and year) (ft^3/s)	Mean discharge for May 1985 (ft^3/s)	Percentage of median of May mean discharges
01503000	Susquehanna River at Conklin	1914-1985	1,598 (1941)	1,300	33
01531000	Chemung River at Chemung	1906-13, 1915-85	660 (1934)	696	22
03011020	Allegheny River at Salamanca	1904-1985	808 (1934)	796	24
04217000	Tonawanda Creek at Batavia	1945-1985	68.2 (1965)	91.9	58
04221000	Genesee River at Wellsville	1956-58, 1973-85	199 (1979)	113	24

Average amounts of precipitation fell in the far western part of the State from June through September, which increased streamflow in that area to the normal range in June and maintained that level through the remainder of the water year.

Generally deficient flow continued through August in the Susquehanna and Oswego River basins, and through September in the Chemung and Genesee River basins as a result of below-normal precipitation. The low-flow conditions in the Susquehanna and eastern Oswego River basins were alleviated by showers during the first third of September. Streams returned to the normal flow range and then were dramatically augmented when 3 to 4 inches of rain fell over the area on September 27-28. This precipitation, generated by Hurricane Gloria, increased streamflow to the excessive range in these basins and produced annual peaks on several streams in the eastern Susquehanna River basin.

[1]Range refers to the quartile within which a given flow statistic falls. The excessive range is defined as flow in the upper quartile; deficient as flow in the lower quartile; and normal as flow in the two middle quartiles.

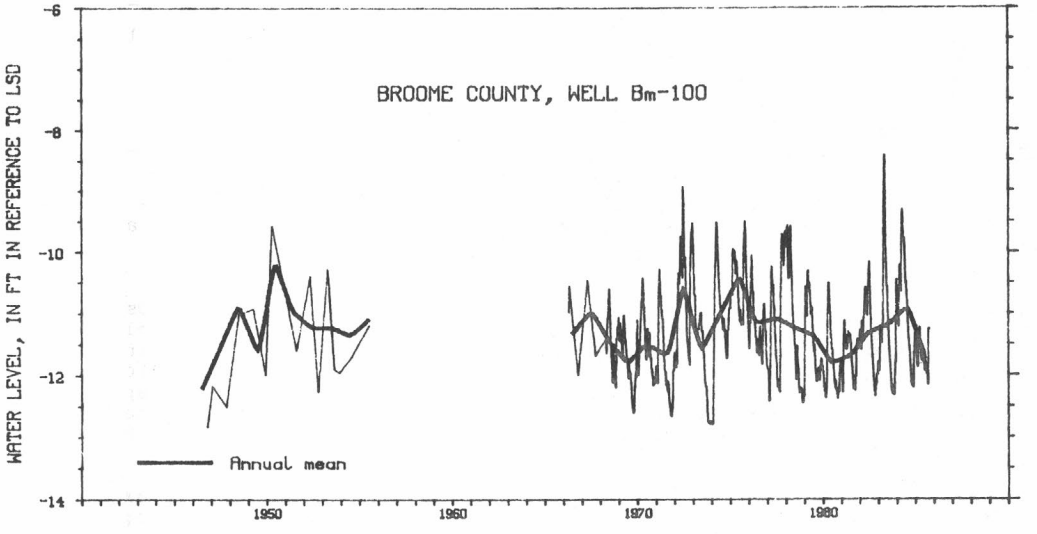
Table 1.--Comparison of annual mean discharge of the 1985 water year with average discharge for the period of record for selected streams.

	Station	Period of record	1985 Water year mean discharge (ft^3/s)	Percentage of period-of-record mean discharge
01503000	Susquehanna River at Conklin	1914-1985	2,193	61
01531000	Chemung River at Chemung	1906-13, 1915-85	1,664	66
03011020	Allegheny River at Salamanca	1904-1985	2,284	82
04213500	Cattaraugus Creek at Gowanda	1941-1985	662	90
04217000	Tonawanda Creek at Batavia	1945-1985	219	104
04221000	Genesee River at Wellsville	1956-58, 1973-85	272	68
04234000	Fall Creek at Ithaca	1926-1985	140	75
04242500	East Branch Fish Creek at Taberg	1924-1985	520	96

Analyses of stream water-quality samples and associated discharge data collected from the five NASQAN stations in western New York indicated no significant changes in chemical or biological quality from previous years. During the 1985 water year, concentrations of several constituents at these sites equaled or slightly exceeded previous maximums and minimums. Tonawanda Creek continued to exhibit degraded water quality, as evidenced by elevated concentrations of fecal coliform and fecal streptococci bacteria. Neither the period-of-record maximum nor minimum concentrations of these two constituents were exceeded during the 1985 water year, but the mean concentrations of 2,800 colonies per 100 mL for fecal coliform and 2,200 colonies per 100 mL for fecal streptococci during the 1985 water year at this site were considerably higher than their period-of-record means of 1,200 and 1,000 colonies per 100 mL, respectively.

Ground-water levels at the beginning of the water year were declining and were below the monthly average for October. In early November, however, they rose to average levels in response to recharge from precipitation and the cessation of vegetation growth. Warm weather along with heavy precipitation at the end of December resulted in ground-water recharge, and water levels rose above the monthly average. By late January, extremely cold weather reduced recharge, and water levels declined. A small winter snowpack and less-than-normal precipitation in March resulted in below-normal recharge, and water levels remained below the monthly average. Seasonal declines started in June, and water levels remained below average until September, when recharge from heavy rainfall raised water levels slightly.

The mild drought of the 1985 water year, especially in the southeastern part of the area, is reflected in hydrograph A for well BM-100. This plot of the period of record shows that the annual mean decreased sharply from preceding years. The most serious drought of recent history occurred during the early 1960's, but no record was obtained at this observation well during that period. The 1985 annual mean is higher than that of the most recent New York drought of 1979-80, however. Pumpage from the aquifer system in the general area of the well exceeds 10 million gallons per day.



Hydrograph A --Well hydrograph for period of record

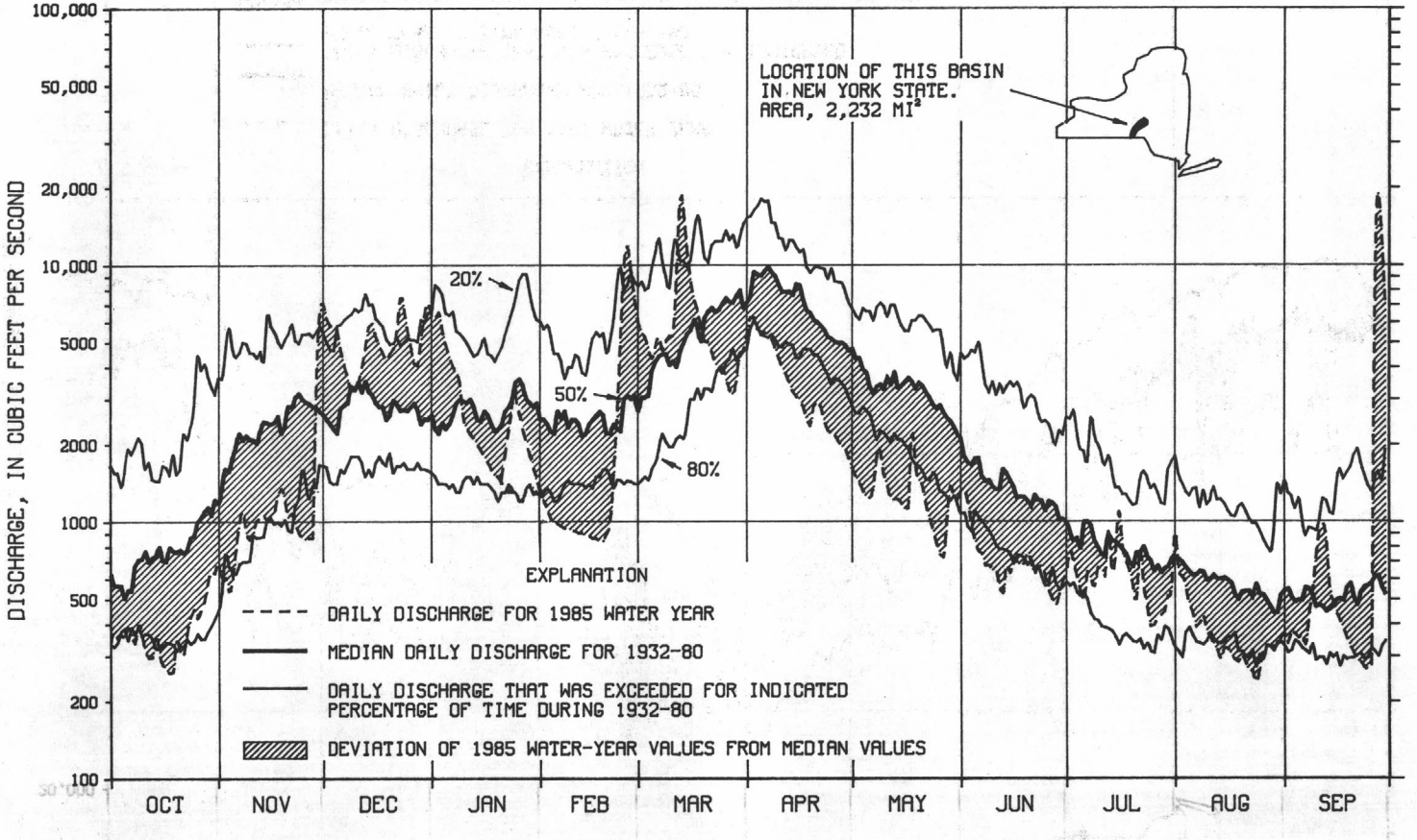


Figure 2.--Hydrographic comparisons, Susquehanna River at Conklin, N.Y.

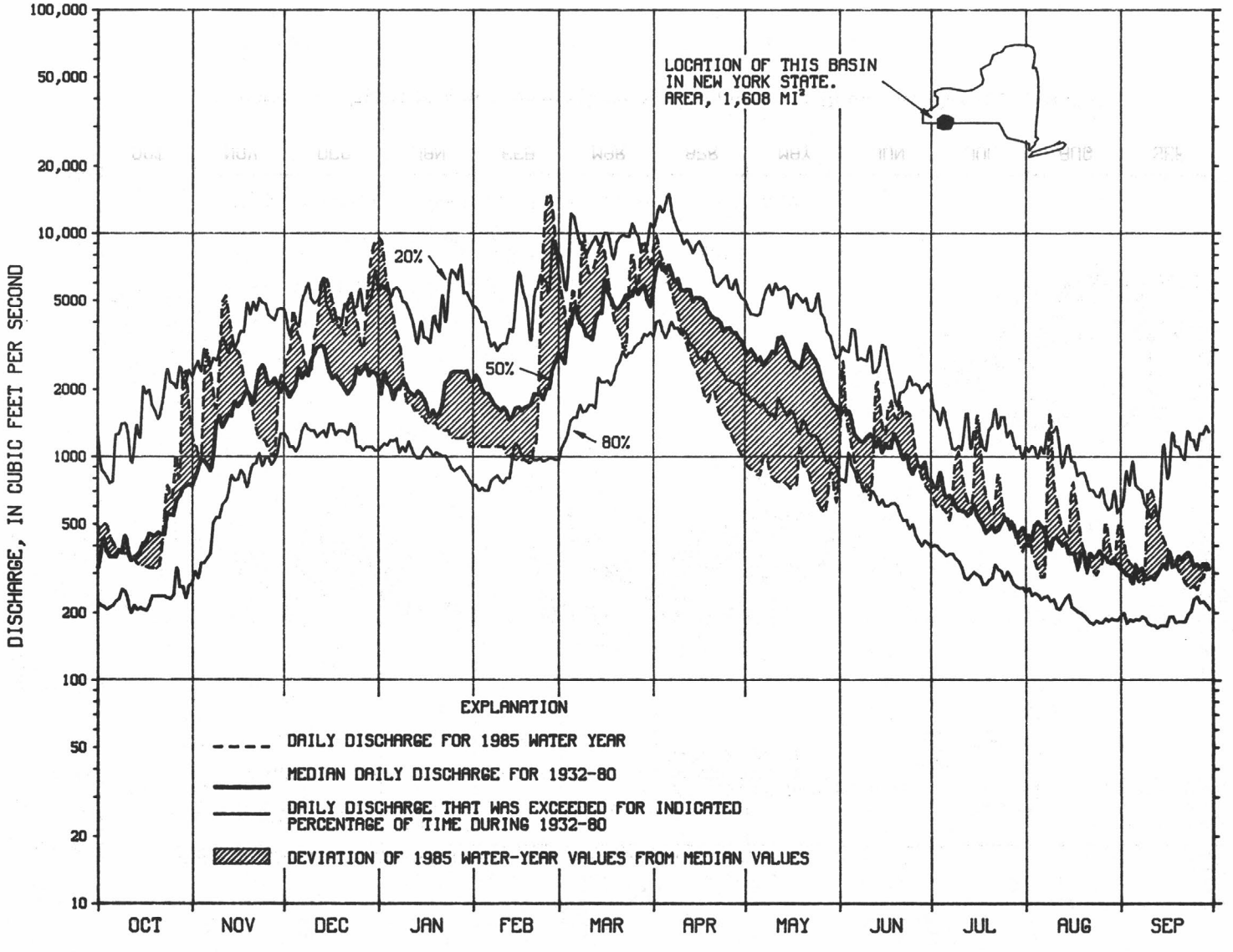


Figure 3.--Hydrographic comparisons, Allegheny River at Salamanca, N.Y.

SPECIAL NETWORKS AND PROGRAMS

National Stream Quality Accounting Network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. NASQAN sites are generally located at the downstream ends of hydrologic accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water quality on a yearly basis in streams flowing from the United States and (2) to detect and assess long-term changes in streamflow and stream quality.

EXPLANATION OF THE RECORDS

The surface-water and ground-water data in this report are for the water year that began October 1, 1984, and ended September 30, 1985. A calendar of the water year is provided on the inside of the front cover. The data include discharge or stage of streams and canals, stage, surface area, and contents of lakes or reservoirs, surface-water quality, and ground-water levels. The locations of the stations and wells where data were collected are shown in figure 1. The following provide an explanation of how the data were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each surface-water station and well in this report is assigned a unique identification number. The "downstream order" system is used for surface-water stations and the "latitude-longitude" system is used for wells.

Downstream Order System

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

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations, miscellaneous sites, and other stations; therefore, the station number for a partial-record station or a miscellaneous site indicates downstream-order position in a list made up of all types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 01502500, includes the 2-digit Part number "01" plus the 6-digit downstream order number "502500." The Part number designates the major river basin. Part numbers used in this report and their corresponding river basins are: "01," the North Atlantic Slope basin; "03," the Ohio River basin; and "04," the St. Lawrence River basin. In a few instances where no gaps were left in the 8-digit numbering sequence, one or two digits were added (making a 9-or 10-digit station number) and (or) a latitude-longitude number was used to identify intermediate stations.

Latitude-Longitude System

The well-identification number is based on the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells within a 1-second grid. See figure 4 below.

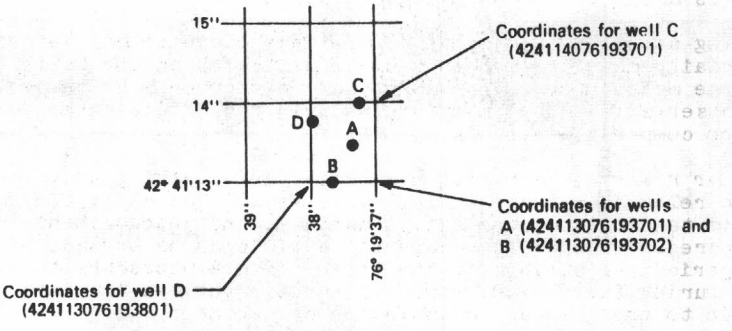


Figure 4. System for numbering wells (latitude and longitude)

Records of Stage and Water Discharge

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

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Locations of all complete-record stations for which data are given in this report are shown in figure 1.

Data Collection and Computation

The data collected at stream-gaging stations consist of records of stage, measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationship between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data collected at a lake or reservoir station consist of records of stage and notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, results of individual discharge measurements are plotted against corresponding stages to develop stage-discharge relation curves. From these curves, rating tables that indicate the approximate discharge for any stage within the range of measurements are prepared. If it is necessary to express discharge greater than measured, the rating curves are extended on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting.

Daily mean discharges are computed by applying the instantaneous stages (gage heights) to the stage-discharge curves or rating tables and averaging these discharges for each day. Monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes of the personnel making the measurements and observers are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control.

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

At some stream-gaging stations, formation of ice in the winter may so obscure the stage-discharge relation that daily mean discharges must be estimated on the basis of gage-height record, occasional water discharge measurements, and other information such as temperature and precipitation records, notes by gage observers and hydrologist, and records of discharge for other stations in the same or nearby basins for comparable periods.

For computing lake or reservoir contents, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The daily contents are computed from gage heights and capacity tables, then the daily, monthly, and yearly change of contents are computed from the daily figures. If the stage-capactiy curve changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated from recorded range in stage, previous and following records, discharge measuarements, weather records, and comparison with other station records in the same or nearby basins. Likewise daily contents may be estimated from operator's logs, previous and following records, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each gaging station consist of two parts, the station description and the data table for the current water year. The station description provides, under different headings, information such as station location; period of record; average discharge; historical extremes; record accuracy; and other remarks pertinent to station operation and regulation. Following is a list of headings for complete record stations and a discussion of the information provided under each heading.

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

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

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

REVISED RECORDS.--Published records are occasionally revised in light of new information, and revisions published in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years for which revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

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

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

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

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. The median of yearly mean discharges also is given under this heading for stations having 10 or more water years of record, if the median differs from the average given by more than 10 percent.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred, as recorded on a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified.

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

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except secondary peaks are also included. Secondary peaks are those that are less than the peak for the year but that exceed a selected base discharge. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

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

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

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

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

Identifying Estimated Daily Discharge

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

Accuracy of the Records

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

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true discharge; "good," within 10 percent; and "fair," within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous measurement sites. Estimated daily discharges during periods when streamflow is affected by ice formation are given to the nearest tenth of a cubic foot per second for discharges of less than 5.0 ft^3/s; to two-tenths between 5.0 and 10 ft^3/s; to whole numbers between 10 and 50 ft^3/s; to even whole numbers between 50 and 100 ft^3/s; to tens between 100 and 500 ft^3/s; to twentys between 500 and 1,000 ft^3/s; to hundreds between 1,000 and 5,000 ft^3/s; to two-hundreds between 5,000 and 10,000 ft^3/s; to thousands between 10,000 and 50,000 ft^3/s; and to two-thousands between 50,000 and 100,000 ft^3/s.

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

Other Records Available

Information used in the preparation of records in this report, such as discharge measurement notes, water temperature measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-readable form and many statistical analyses are available. Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of Surface-Water Quality

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

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin. Locations of surface-water quality stations are shown on figure 1.

Note that "continuing-record" differs from "continuous recording," which refers to a continuous graph or a series of discrete values recorded at predetermined intervals. Some water-quality data may be obtained through continuous recordings (ie. temperature); however, most data are obtained only monthly or less frequently.

Arrangement of Records

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

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern is that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book I, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed on pp. 24-25 of this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see DEFINITION OF TERMS) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals, depends on flow conditions and other factors which must be evaluated by the collector.

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

Water Temperature

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

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentrations in the cross sections. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of instantaneous suspended-sediment discharge, the percentage of suspended sediment finer than 0.062 mm are reported at continuing-record sites.

Laboratory Measurements

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

Data Presentation

For continuing-record stations, information pertinent to the history of station operation, including station location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily preceeds the data tables. If the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. Following is a list of headings and a discussion of the information provided under each heading.

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

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

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

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

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

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

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

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

Following information on station history are tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily. Following these are tables of daily mean temperatures.

Remark Codes

The following remark codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)

Records of Ground-Water Levels

Ground-water level data consist of water-level measurements made in observation wells. Ground-water records are presented by county, in alphabetical order. Locations of observation wells are shown on figure 1.

Data Collection and Computation

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

Water-level records are from direct measurements using a steel tape or from the graph or punched tape of a water-stage recorder. Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 (see DEFINITION OF TERMS) is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported as mean daily values; then monthly and yearly means are computed from the daily figures. Water levels in wells not equipped with recording gages are measured periodically, usually weekly, with a weighted tape.

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

Data Presentation

Each well record consists of two parts, the well description and a table of water levels observed in the current water year. The well description includes such information as location, aquifer, period of record, historical extremes, and other information pertinent to the well site. Following is a list of headings for well records and a discussion of the information provided under each heading.

LOCATION.--Provides (immediately below the well-identification number) the latitude and longitude (in degrees, minutes, and seconds); the hydrologic unit number (see DEFINITION OF TERMS); the distance and direction from a geographic point of reference; and the owner's name.

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

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

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

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

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

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

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

The second part of the well-record is a table of water levels, reported in feet above or below land-surface datum. For wells not equipped with continuous-stage recorders, the table lists the water levels and measurement dates. For well records longer than one year, a hydrograph of groundwater level fluctuations for the past ten water years (including the current water year) is presented following the data table.

ACCESS TO WATSTORE DATA

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

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

General inquiries about WATSTORE may be directed to:

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

DEFINITION OF TERMS

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

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

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

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

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

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

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

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

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

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

Bed material See Bottom material.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The classification is as follows:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Substrate is the physical surface upon which an organism lived.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Total (as used in tables of chemical analyses):

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

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

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to state annual basic-data reports published beginning in 1975.

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

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

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3-A11. *Measurement of discharge by moving-boat method,* by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

01496500 OAKS CREEK AT INDEX, NY

LOCATION.--Lat 42°39'56", long 74°57'36", Otsego County, Hydrologic Unit 02050101, on right bank 200 ft upstream from bridge on State Highway 28 at Index, 0.5 mi upstream from mouth, and 3 mi southwest of Cooperstown.

DRAINAGE AREA.--102 mi^2.

PERIOD OF RECORD.--November 1929 to September 1932, March 1937 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,174.47 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1932, nonrecording gage at different datum.

REMARKS.--Estimated daily discharges Dec. 5-7, 25-28, Jan. 4-6, 8-14, 16, 17, 20-23, 25, 26, Jan. 29 to Feb. 20, Mar. 16 to Apr. 23. Records fair. Prior to June 1964 and since October 1979 flow regulated by natural storage in Canadarago Lake. June 1964 to September 1979 flow regulated by moveable gate at Panther Mountain Dam at outlet. Satellite rain gage telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--50 years (1931-32, 1938-85), 170 ft^3/s, 22.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,320 ft^3/s Oct. 17, 1977, from rating extended above 1,700 ft^3/s by lograthmic plotting, gage height, 7.62 ft; minimum, 1.3 ft^3/s Aug. 4, 5, 1962, gage height, 1.79 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Mar. 12	1830	*781	*4.77	No peak greater than base discharge.			

Minimum discharge, 4.4 ft^3/s Aug. 24, 25; minimum gage height, 1.92 ft Aug. 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	32	171	384	82	302	400	61	35	18	28	9.0
2	16	42	176	434	80	314	440	58	32	13	20	8.4
3	23	44	183	397	66	300	360	56	28	16	16	7.3
4	22	49	215	360	62	268	370	55	27	31	14	7.0
5	21	66	180	350	64	335	380	53	26	30	13	9.7
6	18	69	180	330	76	333	365	73	28	24	12	16
7	12	61	170	322	72	309	340	114	26	23	12	16
8	7.8	56	206	290	66	296	320	92	22	20	11	15
9	6.5	53	177	250	62	301	290	82	22	19	9.8	19
10	5.6	54	170	230	66	289	275	81	19	15	8.9	20
11	5.4	57	174	230	70	301	260	74	14	12	8.4	19
12	5.3	59	182	240	68	597	245	70	15	17	6.1	16
13	5.1	64	221	220	73	621	230	69	19	22	6.7	13
14	4.8	66	239	210	69	534	215	66	17	18	6.1	11
15	4.8	62	225	202	62	503	200	62	12	15	6.2	11
16	5.3	68	228	140	60	460	190	58	13	19	6.5	10
17	5.5	74	227	150	58	440	180	60	27	13	6.0	9.5
18	5.5	69	224	167	55	390	170	57	31	10	5.5	8.6
19	5.5	69	225	160	53	350	180	56	27	8.6	5.5	8.2
20	5.9	65	242	120	49	340	230	50	27	8.0	5.6	7.5
21	5.7	62	225	100	47	315	210	46	26	7.2	6.7	7.4
22	6.6	60	287	120	54	290	190	44	23	6.9	5.9	6.9
23	7.6	59	290	120	84	280	170	39	20	11	5.0	6.4
24	7.0	58	260	125	198	270	166	38	18	12	4.8	6.2
25	7.0	61	250	114	422	260	158	34	16	10	6.4	7.0
26	8.9	62	210	98	341	255	155	33	15	12	7.9	7.8
27	11	60	220	100	321	250	137	31	14	52	8.8	102
28	9.9	60	230	96	298	310	75	37	15	22	6.7	176
29	13	171	299	90	---	350	69	39	32	17	7.3	88
30	15	184	382	78	---	310	65	32	29	15	9.7	73
31	11	---	345	72	---	300	---	31	---	16	11	---
TOTAL	293.5	2016	7013	6299	3078	10773	7035	1751	675	532.7	287.5	721.9
MEAN	9.47	67.2	226	203	110	348	235	56.5	22.5	17.2	9.27	24.1
MAX	23	184	382	434	422	621	440	114	35	52	28	176
MIN	4.8	32	170	72	47	250	65	31	12	6.9	4.8	6.2
CFSM	.09	.66	2.22	1.99	1.08	3.41	2.30	.55	.22	.17	.09	.24
IN.	0.11	0.74	2.56	2.30	1.12	3.93	2.57	0.64	0.25	0.19	0.10	0.26

CAL YR 1984 TOTAL 56558.4 MEAN 155 MAX 862 MIN 4.6 CFSM 1.52 IN. 20.63
WTR YR 1985 TOTAL 40475.6 MEAN 111 MAX 621 MIN 4.8 CFSM 1.09 IN. 14.76

01499500 EAST SIDNEY LAKE AT EAST SIDNEY, NY

LOCATION.--Lat 42°19'40", long 75°13'42", Delaware County, Hydrologic Unit 02050101, at East Sidney Dam on Ouleout Creek, 0.3 mi upstream from bridge on County Highway 44 at East Sidney, 4.0 mi upstream from mouth, and 4.5 mi east of Unadilla.

DRAINAGE AREA.--103 mi².

PERIOD OF RECORD.--November 1949 to September 1952 (monthly elevations and contents), October 1952 to September 1985 (discontinued). Prior to October 1970, published as "East Sidney Reservoir at East Sidney."

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, at datum 0.05 ft lower.

REMARKS.--Lake is formed by concrete dam and rockfill dike, completed by Corps of Engineers in June 1950; regulation of outflow began in November 1949; first used for flood regulation on Mar. 28, 1950. Useable capacity, 33,550 acre-ft 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. Satellite, gage height, and rain gage telemeters at station.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,166.25 ft Sept. 29, contents, 8,096 acre-ft; minimum, 1,139.23 ft Dec. 8, contents 1,535 acre-ft.

Capacity table (elevation, in feet, and useable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1938)

1,135.0	1,080	1,160.0	5,910
1,140.0	1,630	1,170.0	9,610
1,145.0	2,360	1,180.0	14,610
1,150.0	3,280	1,190.0	21,370

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1150.20	1150.61	1145.15	1139.95	1139.96	1140.59	1141.02	1149.36	1150.99	1150.75	1150.66	1150.20
2	1150.26	1150.61	1144.66	1140.60	1140.21	1140.55	1141.18	1149.50	1150.85	1150.60	1150.75	1150.20
3	1150.37	1150.58	1142.96	1140.61	1140.36	1140.02	1140.49	1149.63	1150.85	1150.60	1150.77	1150.19
4	1150.49	1150.55	1142.03	1140.19	1140.41	1139.82	1140.48	1149.70	1150.85	1150.74	1150.78	1150.16
5	1150.57	1150.64	1141.15	1140.33	1140.47	1140.90	1140.46	1149.74	1150.99	1150.83	1150.77	1150.20
6	1150.63	1150.94	1141.00	1140.07	1140.59	1140.76	1140.23	1149.85	1151.06	1150.90	1150.76	1150.42
7	1150.68	1151.08	1140.47	1140.19	1140.57	1139.78	1140.26	1150.12	1151.04	1150.97	1150.73	1150.59
8	1150.72	1150.96	1139.59	1140.16	1140.45	1140.92	1140.35	1150.23	1150.96	1151.01	1150.79	1150.67
9	1150.75	1150.79	1140.33	1139.63	1140.31	1141.23	1140.60	1150.26	1150.85	1151.04	1150.81	1150.87
10	1150.79	1150.66	1140.30	1140.29	1140.18	1140.39	1140.52	1150.24	1150.76	1151.00	1150.81	1151.77
11	1150.83	1150.61	1140.74	1141.02	1140.03	1140.51	1140.27	1150.22	1150.77	1150.94	1150.80	1151.00
12	1150.84	1150.55	1140.88	1141.03	1139.98	1141.93	1140.35	1150.30	1150.85	1150.88	1150.78	1150.39
13	1150.87	1150.55	1140.82	1141.01	1140.33	1140.80	1140.30	1150.43	1151.01	1150.85	1150.75	1150.34
14	1150.90	1150.56	1140.77	1140.92	1140.70	1140.41	1140.39	1150.52	1151.07	1150.79	1150.72	1150.35
15	1150.92	1150.58	1139.98	1140.82	1140.55	1140.23	1140.49	1150.68	1150.98	1150.75	1150.68	1150.29
16	1150.94	1150.71	1140.01	1140.41	1140.20	1139.98	1140.48	1150.82	1150.81	1150.80	1150.66	1150.20
17	1150.95	1151.13	1140.25	1140.30	1139.95	1140.50	1140.53	1150.98	1150.72	1150.83	1150.62	1150.10
18	1150.96	1151.14	1140.18	1140.35	1140.14	1140.40	1141.04	1151.12	1150.78	1150.81	1150.57	1150.11
19	1150.97	1150.96	1140.42	1140.43	1140.29	1139.69	1141.86	1151.19	1151.04	1150.73	1150.52	1150.15
20	1150.89	1150.70	1141.33	1140.35	1140.38	1140.05	1143.38	1151.07	1151.15	1150.64	1150.50	1150.18
21	1150.80	1150.40	1140.91	1140.11	1140.46	1140.08	1144.54	1150.92	1151.20	1150.55	1150.46	1150.20
22	1150.72	1150.17	1140.87	1139.97	1140.70	1140.02	1145.34	1150.95	1150.95	1150.46	1150.41	1150.22
23	1150.68	1150.24	1140.65	1140.35	1141.21	1140.43	1146.02	1150.96	1150.67	1150.42	1150.36	1150.23
24	1150.62	1150.33	1140.13	1140.67	1141.23	1140.65	1146.60	1150.95	1150.66	1150.39	1150.30	1150.24
25	1150.56	1150.42	1140.27	1140.52	1140.99	1140.40	1147.04	1150.92	1150.68	1150.36	1150.29	1150.27
26	1150.52	1150.51	1139.83	1140.26	1140.50	1140.02	1147.66	1150.90	1150.67	1150.35	1150.28	1150.28
27	1150.55	1150.44	1140.10	1140.01	1140.53	1140.40	1148.19	1151.01	1150.66	1150.40	1150.25	1153.05
28	1150.57	1149.68	1140.31	1139.96	1140.08	1140.90	1148.56	1151.18	1150.64	1150.44	1150.21	1163.05
29	1150.60	1149.69	1141.26	1140.00	---	1141.09	1148.91	1151.17	1150.74	1150.45	1150.18	1165.51
30	1150.63	1146.73	1140.84	1139.99	---	1140.55	1149.16	1150.85	1150.83	1150.43	1150.15	1159.48
31	1150.64	---	1139.95	1139.93	---	1140.33	---	1150.92	---	1150.47	1150.19	---
MEAN	1150.69	1150.45	1140.91	1140.34	1140.42	1140.46	1142.89	1150.54	1150.87	1150.68	1150.56	1151.70
MAX	1150.97	1151.14	1145.15	1141.03	1141.23	1141.93	1149.16	1151.19	1151.20	1151.04	1150.81	1165.51
MIN	1150.20	1146.73	1139.59	1139.63	1139.95	1139.69	1140.23	1149.36	1150.64	1150.35	1150.15	1150.10
†	3,416	2,448	1,607	1,620	1,692	1,704	3,137	3,499	3,454	3,397	3,323	4,606
††	+1.6	-16.3	-13.7	+0.2	+1.3	+0.2	+24.1	+5.9	-0.8	-0.9	-1.2	+21.6

CAL YR 1984 MEAN 1147.03 MAX 1172.09 MIN 1139.12 †† -0.1
WTR YR 1985 MEAN 1146.74 MAX 1165.51 MIN 1139.59 †† +1.8

† Contents, in acre-feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

01500000 OULEOUT CREEK AT EAST SIDNEY, NY

LOCATION.--Lat 42°20'00", long 75°14'07", Delaware County, Hydrologic Unit 02050101, on right bank 0.2 mi downstream from bridge on County Highway 44, 0.4 mi downstream from East Sidney Dam, at East Sidney, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--103 mi^2.

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

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1,086.23 ft above National Geodetic Vertical Datum of 1929. Prior to June 13, 1947, water-stage recorder at site 0.5 mi upstream at datum 27.30 ft higher.

REMARKS.--No estimated daily discharges. Records good. Since November 1949, flow regulated by East Sidney Lake (see station 01499500). Satellite gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--45 years, 171 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,250 ft^3/s Dec. 30, 1942, gage height, 7.62 ft site and datum then in use, from rating curve extended above 4,000 ft^3/s; minimum, 1.2 ft^3/s Aug. 13, 14, 17, 1949, gage height, 0.32 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 16,700 ft^3/s in July 1935 was determined, by computation of flow over dam and from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,750 ft^3/s Sept. 30 at 0830 hours, gage height, 4.58 ft; minimum discharge, 8.1 ft^3/s Oct. 1, 2, 3, minimum gage height, 0.92 ft many days (result of regulation).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	20	434	203	29	241	224	41	99	41	10	10
2	8.1	20	374	205	25	240	293	41	73	31	10	10
3	8.6	20	409	206	25	224	243	41	48	13	10	10
4	8.6	19	353	179	25	127	242	42	36	10	10	10
5	8.7	19	253	158	25	169	241	42	26	10	10	11
6	9.1	19	215	146	29	288	225	43	41	10	10	10
7	8.7	31	233	136	35	141	213	43	41	10	10	10
8	8.6	38	141	135	35	167	176	43	41	9.9	10	10
9	8.6	38	126	80	35	261	176	43	41	15	10	11
10	8.6	37	145	27	35	273	176	43	28	18	10	192
11	8.6	37	155	60	35	220	154	34	19	18	10	141
12	8.9	37	229	87	29	1040	132	24	19	18	10	101
13	9.2	37	255	87	25	795	123	24	30	18	10	33
14	9.7	37	283	87	46	572	107	20	45	18	10	29
15	9.7	37	264	87	57	460	107	15	45	18	10	29
16	9.7	37	189	76	56	337	107	15	45	18	10	29
17	9.8	45	189	60	38	289	76	21	45	18	10	27
18	10	83	176	60	26	288	45	31	30	18	10	10
19	16	84	146	60	26	221	37	48	22	18	10	10
20	23	83	179	60	26	198	37	60	22	18	10	10
21	23	83	223	60	26	184	38	35	49	18	10	10
22	22	51	316	42	26	145	38	24	61	14	10	10
23	22	34	382	27	209	131	39	24	33	10	10	10
24	22	34	241	41	667	146	40	24	20	10	10	10
25	22	34	226	60	855	152	40	24	21	10	10	11
26	22	34	179	58	467	112	40	17	21	10	10	11
27	22	97	158	48	425	82	40	26	21	10	10	337
28	22	130	159	39	283	108	41	83	22	9.9	10	16
29	22	627	245	37	---	171	41	112	24	10	10	326
30	21	691	300	36	---	176	41	55	41	9.9	10	1610
31	21	---	242	35	---	139	---	30	---	10	10	---
TOTAL	441.3	2593	7419	2682	3620	8097	3532	1168	1109	469.7	310	3054
MEAN	14.2	86.4	239	86.5	129	261	118	37.7	37.0	15.2	10.0	102
MAX	23	691	434	206	855	1040	293	112	99	41	10	1610
MIN	8.1	19	126	27	25	82	37	15	19	9.9	10	10

CAL YR 1984	TOTAL	64391.6	MEAN	176	MAX	1780	MIN	8.1
WTR YR 1985	TOTAL	34495.0	MEAN	94.5	MAX	1610	MIN	8.1

01500500 SUSQUEHANNA RIVER AT UNADILLA, NY

LOCATION.--Lat 42°19'17", long 75°19'01", Otsego County, Hydrologic Unit 02050101, on right bank 25 ft downstream from bridge on Bridge Street at Unadilla, 1.0 mi upstream from Carrs Creek, and 1.6 mi downstream from Ouleout Creek.

DRAINAGE AREA.--982 mi².

PERIOD OF RECORD.--June 1938 to current year.

REVISED RECORDS.--WSP 851: 1938(M). WSP 2103: 1966(M); Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 997.25 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 8 to Feb. 25. Records good except estimated daily discharges with ice effect, which are fair. Slight regulation by upstream lakes and reservoirs. Satellite and gage height telemeters at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--47 years, 1,562 ft³/s, 21.60 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,500 ft³/s Mar. 14, 1977, gage height, 14.64 ft; minimum, 39 ft³/s Oct. 17, 1964, gage height, 1.38 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Mar. 18, 1936, reached a stage of 16.6 ft, from floodmarks, discharge, 31,300 ft³/s, from publications of the Corps of Engineers, Baltimore District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 13	0030	*9,210	*9.22	No other peak greater than base discharge.			

Minimum discharge, 81 ft³/s Aug. 23, 24, gage height, 1.59 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	277	2230	2620	580	2790	2670	660	472	449	253	209
2	205	305	2400	3050	540	2660	3280	618	491	369	252	187
3	161	196	2030	2850	500	2460	2860	583	398	281	208	163
4	249	326	2530	2410	490	1990	2790	557	334	260	169	147
5	188	346	1970	2290	480	2160	2840	540	310	281	161	161
6	157	626	1780	2020	470	3000	2870	576	332	240	123	203
7	270	549	1760	1950	460	2320	2810	931	334	298	152	242
8	170	464	1470	1800	450	2330	2480	881	322	276	142	215
9	137	424	1470	1300	450	2630	2330	679	291	244	166	285
10	133	441	1420	1200	450	2590	2140	703	313	230	127	538
11	128	493	1570	1200	450	2660	2000	512	192	215	157	554
12	261	483	1760	1200	440	6150	1860	560	365	182	108	363
13	130	573	2080	1100	430	8280	1710	587	278	329	134	258
14	118	452	2540	1000	420	6110	1610	643	344	386	126	223
15	114	575	2300	920	410	4780	1590	536	370	278	97	205
16	112	583	2140	820	400	3850	1430	497	324	279	143	187
17	111	762	1990	800	400	3540	1270	518	305	326	152	176
18	251	722	1870	780	400	3150	1110	541	367	276	165	155
19	124	637	1790	740	400	2600	1100	556	373	221	110	147
20	122	512	2180	700	400	2630	1250	590	330	211	150	141
21	127	682	1960	640	400	2470	1290	495	378	158	102	134
22	172	529	2590	1000	410	2140	1150	419	384	200	131	131
23	246	480	3310	1600	780	2040	1050	391	322	131	93	122
24	172	480	2660	1400	2400	1990	1000	361	267	183	115	129
25	173	484	2420	1200	5200	1890	948	333	259	134	113	129
26	271	488	2020	1100	4680	1660	842	306	250	169	141	102
27	286	518	1860	1000	3900	1530	857	358	240	241	151	2690
28	318	555	1800	920	3110	1650	865	443	232	267	139	4640
29	291	2160	2390	820	---	2190	788	549	279	201	129	3000
30	329	3310	3110	700	---	2270	676	552	459	180	128	2760
31	231	---	2940	620	---	2130	---	371	---	147	147	---
TOTAL	5892	19432	66340	41750	29900	90640	51466	16846	9915	7642	4484	18596
MEAN	190	648	2140	1347	1068	2924	1716	543	331	247	145	620
MAX	329	3310	3310	3050	5200	8280	3280	931	491	449	253	4640
MIN	111	196	1420	620	400	1530	676	306	192	131	93	102
CFSM	.19	.66	2.18	1.37	1.09	2.98	1.75	.55	.34	.25	.15	.63
IN.	0.22	0.74	2.51	1.58	1.13	3.43	1.95	0.64	0.38	0.29	0.17	0.70

CAL YR 1984 TOTAL 548061 MEAN 1497 MAX 10400 MIN 111 CFSM 1.52 IN. 20.76
WTR YR 1985 TOTAL 362903 MEAN 994 MAX 8280 MIN 93 CFSM 1.01 IN. 13.75

01502000 BUTTERNUT CREEK AT MORRIS, NY

LOCATION.--Lat 42°32'43", long 75°14'22", Otsego County, Hydrologic Unit 02050101, on right bank 15 ft upstream from bridge on State Highway 23 at Morris, and 0.2 mi upstream from Calhoun Creek.

DRAINAGE AREA.--59.7 mi².

PERIOD OF RECORD.--June 1938 to current year.

REVISED RECORDS.--WSP 921: 1939. WSP 2103: Drainage area. WRD NY 1974: 1973(P).

GAGE.--Water-stage recorder. Datum of gage 1096.21 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges Dec. 6-8, 25-27, Jan. 4-6, 8-17, 20-22, Jan. 27 to Feb. 1, Feb. 3-15, 16, 19-22, Mar. 3-7, 16, 18-20, Apr. 20-23. Records fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--47 years, 99.4 ft³/s, 22.61 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,980 ft³/s Oct. 17, 1977, gage height, 9.44 ft; minimum daily, 1.3 ft³/s Sept. 24, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 12	1500	1,590	6.08	Sept. 27	2100	*2,750	*7.26

Minimum discharge, 2.6 ft³/s Oct. 25, gage height, 1.30 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	12	163	192	30	152	193	42	24	17	21	8.5
2	8.6	13	145	207	32	159	175	40	18	14	18	7.7
3	8.5	9.3	142	158	24	130	151	38	12	13	15	7.1
4	9.2	8.0	164	130	22	96	157	36	12	13	13	7.0
5	8.5	18	116	120	22	160	163	35	13	12	12	8.7
6	8.0	22	110	110	26	160	157	51	13	11	11	14
7	7.8	20	100	110	24	130	147	72	16	8.7	10	12
8	7.0	15	90	96	26	140	131	49	16	6.3	9.0	14
9	7.4	21	90	68	26	152	121	43	16	7.8	7.9	29
10	7.4	21	86	64	27	152	110	40	18	8.9	6.2	25
11	7.2	21	106	62	27	184	106	37	17	9.6	5.8	24
12	7.1	21	121	60	28	987	98	36	19	10	5.7	19
13	7.6	25	175	62	29	505	91	35	22	22	5.6	17
14	6.9	27	174	60	29	347	91	34	23	14	6.1	14
15	6.7	24	147	56	26	281	88	32	18	12	6.2	9.5
16	6.6	30	139	46	26	220	84	30	16	15	7.8	12
17	6.5	35	132	50	26	216	77	31	18	15	7.0	12
18	6.5	30	119	51	26	170	67	30	21	13	6.3	11
19	6.4	29	123	49	24	150	79	31	20	14	5.9	11
20	7.7	27	152	40	20	160	91	30	18	13	5.7	11
21	7.3	26	116	38	18	151	74	29	16	13	5.3	11
22	7.8	25	232	40	22	131	63	27	16	11	5.1	9.9
23	8.5	25	199	41	44	132	57	25	16	7.1	5.0	9.4
24	7.6	26	155	40	168	129	52	23	15	7.0	4.8	10
25	4.7	26	120	39	368	118	53	21	15	7.1	5.6	11
26	7.6	27	98	37	210	105	58	21	14	11	7.1	11
27	12	26	94	34	190	107	53	20	13	19	6.8	956
28	12	27	109	34	150	134	51	27	14	17	5.9	786
29	11	251	173	30	---	167	48	27	18	13	5.5	204
30	12	180	228	26	---	143	45	21	19	11	5.8	148
31	14	---	155	24	---	132	---	19	---	15	9.3	---
TOTAL	254.0	1067.3	4273	2174	1690	6100	2931	1032	506	380.5	251.4	2429.8
MEAN	8.19	35.6	138	70.1	60.4	197	97.7	33.3	16.9	12.3	8.11	81.0
MAX	14	251	232	207	368	987	193	72	24	22	21	956
MIN	4.7	8.0	86	24	18	96	45	19	12	6.3	4.8	7.0
CFSM	.14	.60	2.31	1.17	1.01	3.30	1.64	.56	.28	.21	.14	1.36
IN.	0.16	0.67	2.66	1.35	1.05	3.80	1.83	0.64	0.32	0.24	0.16	1.51

CAL YR 1984 TOTAL 34189.6 MEAN 93.4 MAX 2340 MIN 4.7 CFSM 1.56 IN. 21.30
WTR YR 1985 TOTAL 23089.0 MEAN 63.3 MAX 987 MIN 4.7 CFSM 1.06 IN. 14.39

01502500 UNADILLA RIVER AT ROCKDALE, NY

LOCATION.--Lat 42°22'40", long 75°24'23", Chenango County, Hydrologic Unit 02050101, on right bank 400 ft downstream from Chenango-Otsego County highway bridge at Rockdale, and 0.7 mi downstream from Kent Brook.

DRAINAGE AREA.--520 mi².

PERIOD OF RECORD.--November 1929 to September 1933, January 1937 to current year.

REVISED RECORDS.--WRD NY 1974: 1973 (P).

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 992.25 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1933, nonrecording gage at bridge 400 ft upstream at datum 0.73 ft higher.

REMARKS.--Estimated daily discharges: Dec. 6-9, Dec. 25-27, Jan. 3 to Feb 25, Feb. 28 to Mar. 11, Mar. 16-26, and Mar. 31 to Apr. 16. Records good except for estimated daily discharges with ice effect Dec. 6-9, 25-27, Jan. 3 to Feb. 25, Feb. 28 to Mar. 11, and Mar. 16-26, which are fair. National Weather Service gage-height telemeter at station. Satellite gage-height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--51 years (water years 1931-33, 1938-85), 838 ft³/s, 21.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,400 ft³/s Dec. 31, 1942, gage height, 12.98 ft; minimum daily, 27 ft³/s Sept. 20-27, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,700 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 13	0730	6,370	8.54	Sept. 28	0100	*7,780	*9.26

Minimum discharge, 49 ft³/s Aug. 24, gage height, 3.49 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	161	1440	1950	160	1400	1670	346	202	154	133	84
2	75	145	1410	2610	180	1400	1730	319	185	141	147	79
3	78	137	1190	1800	180	1200	1350	301	162	121	139	74
4	82	137	1560	1400	170	900	1570	280	143	114	108	70
5	80	162	1180	1200	170	900	1460	263	138	108	91	89
6	80	265	900	1000	170	1100	1420	285	141	104	80	137
7	77	268	800	950	160	1100	1330	550	138	99	78	150
8	74	205	710	800	160	1150	1240	597	134	91	86	136
9	72	173	740	510	150	1250	1060	424	124	90	74	198
10	71	176	771	410	150	1250	913	356	120	89	68	307
11	71	189	847	420	170	1500	815	321	119	89	64	192
12	70	214	1010	440	180	4620	789	293	124	90	59	162
13	69	222	1370	460	190	5790	764	296	149	152	56	128
14	70	231	1810	480	170	3970	698	312	188	134	56	109
15	67	224	1480	460	160	2850	682	273	182	109	55	95
16	65	232	1340	430	150	2000	644	248	154	121	58	86
17	65	293	1240	380	140	1800	600	249	146	138	62	81
18	65	304	1160	350	130	1450	540	255	187	124	61	82
19	65	266	1060	320	130	1100	580	245	176	102	61	78
20	69	242	1330	310	120	1150	730	239	149	91	58	75
21	82	219	1100	270	120	1100	700	227	148	84	54	72
22	115	205	1840	260	110	950	543	202	168	79	52	70
23	107	194	2050	260	280	900	500	187	151	74	51	67
24	98	190	1410	270	1480	900	458	173	131	66	50	69
25	94	192	1100	290	3460	850	435	161	126	62	61	73
26	98	197	880	260	3260	750	480	151	115	65	74	75
27	121	198	740	230	2650	781	472	152	106	93	81	3210
28	160	191	933	200	1700	904	435	202	107	162	78	7190
29	157	1070	1530	190	---	1270	414	290	122	137	72	3170
30	267	2090	2680	170	---	1520	384	242	155	98	68	1350
31	216	---	2230	150	---	1280	---	184	---	97	79	---
TOTAL	2951	8992	39841	19230	16250	49085	25406	8623	4390	3278	2314	17758
MEAN	95.2	300	1285	620	580	1583	847	278	146	106	74.6	592
MAX	267	2090	2680	2610	3460	5790	1730	597	202	162	147	7190
MIN	65	137	710	150	110	750	384	151	106	62	50	67
CFSM	.18	.58	2.47	1.19	1.12	3.04	1.63	.53	.28	.20	.14	1.14
IN.	0.21	0.64	2.85	1.38	1.16	3.51	1.82	0.62	0.31	0.23	0.17	1.27

CAL YR 1984 TOTAL 302770 MEAN 827 MAX 12200 MIN 65 CFSM 1.59 IN. 21.66
WTR YR 1985 TOTAL 198118 MEAN 543 MAX 7190 MIN 50 CFSM 1.04 IN. 14.17

01503000 SUSQUEHANNA RIVER AT CONKLIN, NY

LOCATION.--Lat 42°02'07", long 75°48'12", Broome County, Hydrologic Unit 02050101, on left bank at abutment of former highway bridge, 500 ft upstream from bridge on County Highway 304 at Conklin, 0.7 mi downstream from Little Snake Creek, and 3.5 mi downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 mi².

PERIOD OF RECORD.--November 1912 to current year.

REVISED RECORDS.--WSP 1672: 1918(M, P). WSP 2103: Drainage area. WDR NY-81-3: 1918 (M, P).

GAGE.--Water-stage recorder. Datum of gage is 841.04 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 4, 1914, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 8 to Feb. 26. Records good except for estimated daily discharges, which are fair. Minor regulation by upstream lakes and reservoirs. Satellite telemeter at station. National Weather Service gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--72 years (water years 1914-85), 3,589 ft³/s, 21.84 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,600 ft³/s Mar. 18, 1936, gage height, 20.14 ft; maximum gage height, 20.83 ft Mar. 22, 1948; minimum discharge, 85 ft³/s Oct. 14, 1964, gage height, 1.30 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft³/s and maximum (*);

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 13	1800	18,600	10.61	Sept. 28	0900	*20,000	*11.04

Minimum discharge, 221 ft³/s Aug. 24, gage height, 1.74 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	341	699	7090	6390	1200	6020	5360	1620	1320	628	903	363
2	375	575	6150	6160	1200	5510	6260	1490	1330	771	628	334
3	351	609	5780	6550	1100	5210	6240	1420	1190	698	605	378
4	363	537	5870	5670	1100	4680	5630	1320	988	611	558	364
5	353	588	5590	4890	1000	4310	5480	1240	844	533	473	352
6	390	765	4670	4420	980	4770	5440	1230	764	492	439	362
7	373	978	4080	4030	960	5270	5350	1340	749	636	386	331
8	337	1100	3610	3800	940	4660	5130	1760	670	604	402	428
9	398	925	3260	3500	940	5070	4710	1930	675	558	433	537
10	368	852	3220	2600	920	5310	4320	1530	646	663	371	720
11	312	909	3490	2300	920	5270	3980	1390	646	648	354	927
12	295	1010	3970	2200	900	8970	3750	1210	542	611	330	983
13	297	1040	4720	2100	900	18000	3470	1220	525	916	314	855
14	366	1070	5760	2000	880	16400	3210	1220	681	647	290	550
15	310	1010	5930	1900	880	11700	3060	1180	631	742	322	491
16	276	1040	5270	1800	860	8870	3000	1100	724	1090	318	441
17	264	1070	4880	1700	860	7340	2790	1120	691	804	300	411
18	257	1270	4520	1600	840	6660	2490	2160	666	698	288	382
19	260	1350	4220	1500	840	5680	2350	1740	686	638	282	350
20	345	1240	4510	1500	820	5030	2820	1440	759	562	304	326
21	309	1040	4730	1500	800	4970	2950	1390	687	497	283	306
22	304	1080	5530	1800	780	4580	2790	1180	626	775	260	287
23	366	1000	7440	2500	1500	4160	2470	1030	665	576	261	283
24	427	906	6870	3300	3100	4030	2270	925	672	471	234	269
25	459	863	5620	2700	9000	3960	2170	824	611	389	266	262
26	422	859	4850	2300	11800	3660	2180	742	539	395	312	272
27	456	860	4130	2000	9440	3260	2060	725	497	423	331	7400
28	492	862	4040	1800	7550	3100	1970	1000	472	433	324	18700
29	579	3190	5110	1600	---	3500	1930	1370	520	447	325	12700
30	651	6450	6340	1400	---	4540	1760	1240	588	515	320	6990
31	631	---	7180	1300	---	4650	---	1220	---	557	354	---
TOTAL	11727	35747	158430	88810	63010	189140	107390	40306	21604	19028	11570	57354
MEAN	378	1192	5111	2865	2250	6101	3580	1300	720	614	373	1912
MAX	651	6450	7440	6550	11800	18000	6260	2160	1330	1090	903	18700
MIN	257	537	3220	1300	780	3100	1760	725	472	389	234	262
CFSM	.17	.53	2.29	1.28	1.01	2.73	1.60	.58	.32	.28	.17	.86
IN.	0.20	0.60	2.64	1.48	1.05	3.15	1.79	0.67	0.36	0.32	0.19	0.96

CAL YR 1984 TOTAL 1304896 MEAN 3565 MAX 33200 MIN 257 CFSM 1.60 IN. 21.75
WTR YR 1985 TOTAL 804116 MEAN 2203 MAX 18700 MIN 234 CFSM .99 IN. 13.40

01505000 CHENANGO RIVER AT SHERBURNE, NY

LOCATION.--Lat 42°40'43", long 75°30'39", Chenango County, Hydrologic Unit 02050102, on right bank 20 ft downstream from bridge on State Highway 80, 0.5 mi west of Sherburne, and 0.5 mi downstream from Handsome Brook.

DRAINAGE AREA.--263 mi^2.

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 851: 1938(M). WSP 1502: 1955. WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,037.16 ft above National Geodetic Vertical Datum of 1929. July 22 to Dec. 9, 1953, nonrecording gage or reference point and Dec. 10, 1953 to Jan. 26, 1955, water-stage recorder at temporary site 1.5 mi downstream, at datum approximately 11.9 ft lower, during period of construction of highway bridge.

REMARKS.--Estimated daily discharges: Jan. 6 to Feb. 22. Records fair except for estimated daily discharges with ice effect, which are poor. Flow from 82 mi^2 of drainage area formerly may have been diverted into Mohawk River basin through abandoned Chenango Canal; no diversion from this cause known during period of record. National Weather Service gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--47 years, 402 ft^3/s, 20.76 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s Mar. 6, 1979, gage height, 9.94 ft; maximum gage height, 9.99 ft Dec. 30, 1942 (ice jam); minimum discharge, 12 ft^3/s Sept. 25, 1964; minimum gage height, 1.52 ft Sept. 19, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of 10.6 ft, from records of National Weather Service.

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

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Mar. 12	1830	*2,710	*7.49	No peak greater than base discharge.			

Minimum discharge, 18 ft^3/s Aug. 30, Sept. 1, 2, 3, gage height, 1.74 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	85	458	1110	110	796	787	153	102	84	69	20
2	59	80	479	1260	110	803	691	150	97	70	63	19
3	61	79	412	910	98	675	602	146	87	64	50	26
4	61	74	465	705	98	420	647	137	81	60	44	35
5	61	91	342	633	100	629	699	130	80	58	40	48
6	58	112	284	490	100	633	602	204	83	55	36	56
7	54	98	272	470	100	568	528	387	78	55	35	48
8	53	89	288	410	110	529	470	279	73	52	35	50
9	52	84	255	300	110	604	431	226	69	51	34	51
10	52	85	238	280	110	608	382	190	73	50	31	53
11	52	91	313	290	110	769	362	169	66	50	31	57
12	51	93	371	270	110	2220	337	160	78	48	29	48
13	51	94	635	260	120	2240	308	187	110	51	28	43
14	51	91	664	270	120	1740	304	168	110	49	30	41
15	50	89	550	240	100	1400	295	146	90	52	31	40
16	49	96	531	200	96	1090	278	137	81	92	42	39
17	49	103	507	190	98	977	256	161	117	63	48	37
18	48	99	441	190	98	800	243	146	99	52	40	36
19	48	95	436	180	98	661	268	137	84	48	37	35
20	64	87	519	160	90	682	345	132	78	44	34	34
21	76	84	400	140	92	624	300	118	76	41	30	34
22	69	80	712	150	110	530	259	112	69	40	30	35
23	70	77	696	160	217	525	234	102	67	36	30	34
24	67	81	536	160	991	510	212	93	62	35	29	34
25	63	82	479	150	1910	470	206	87	57	34	33	37
26	70	82	364	140	1370	427	222	82	64	45	38	36
27	99	81	341	140	1160	425	201	85	62	61	37	580
28	88	82	388	130	897	575	190	123	62	55	33	772
29	127	368	837	120	---	771	181	144	76	47	33	443
30	115	414	1310	120	---	663	163	114	103	39	26	352
31	97	---	915	120	---	572	---	94	---	42	20	---
TOTAL	2019	3246	15438	10348	8833	24936	11003	4699	2434	1623	1126	3173
MEAN	65.1	108	498	334	315	804	367	152	81.1	52.4	36.3	106
MAX	127	414	1310	1260	1910	2240	787	387	117	92	69	772
MIN	48	74	238	120	90	420	163	82	57	34	20	19
CFSM	.25	.41	1.89	1.27	1.20	3.06	1.40	.58	.31	.20	.14	.40
IN.	0.29	0.46	2.18	1.46	1.25	3.53	1.56	0.66	0.34	0.23	0.16	0.45

CAL YR 1984	TOTAL	144596	MEAN	395	MAX	5020	MIN	48	CFSM	1.50	IN.	20.45
WTR YR 1985	TOTAL	88878	MEAN	244	MAX	2240	MIN	19	CFSM	.93	IN.	12.57

01508803 WEST BRANCH TIOUGHNIOGA RIVER AT HOMER, N.Y.

LOCATION.--Lat 42°38'18", long 76°10'36", Cortland County, Hydrologic Unit 02050102, on left bank at downstream side of bridge on Wall Street at Homer and 3.4 mi upstream from confluence with East Branch.

DRAINAGE AREA.--71.5 mi².

PERIOD OF RECORD.--November 1966 to September 1968, October 1972 to current year.

REVISED RECORDS.--WRD NY 1974: 1973 (P).

GAGE.--Water-stage recorder. Datum of gage is 1,114.81 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1968, water-stage recorder at bridge on Water Street 500 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 22. Records good except estimated daily discharges with ice effect, which are fair. Slight diversion, maximum daily 0.3 ft³/s from Gate House Pond 13 mi upstream from station into Onondaga Creek basin (St. Lawrence River basin) for manufacturing purposes by Solvay Process Co. Satellite rain gage telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--14 years (water years 1968, 1973-85), 129 ft³/s, 24.50 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft³/s Oct. 28, 1981, gage height, 8.74 ft; minimum, 8.8 ft³/s Sept. 26, 1985, gage height, 1.00 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 650 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 30	0500	675	4.70	Mar. 12	1530	731	4.87
Feb. 25	0800	*782	*5.03				

Minimum discharge, 8.8 ft³/s Sept. 26, gage height, 1.00 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	36	200	415	80	297	311	89	40	33	24	15
2	48	41	202	420	78	289	284	85	38	33	24	14
3	44	40	189	344	76	259	256	83	37	31	18	13
4	43	40	185	292	74	218	258	80	37	31	16	12
5	41	112	166	264	72	262	273	78	36	29	16	21
6	38	76	164	235	70	236	249	86	37	27	16	25
7	37	66	153	221	68	208	230	70	35	29	16	21
8	37	69	143	206	66	217	214	65	40	27	16	20
9	37	65	136	180	66	230	202	68	40	26	18	22
10	36	82	132	170	66	231	186	70	35	36	21	23
11	35	83	143	160	66	245	179	69	33	29	14	21
12	34	97	151	150	64	545	167	70	39	28	15	17
13	34	76	232	150	64	511	158	74	47	30	14	16
14	35	69	227	140	62	453	154	68	45	29	16	14
15	39	67	220	130	60	396	148	64	40	30	17	14
16	72	67	224	130	60	345	141	65	40	31	21	13
17	74	64	239	120	60	320	132	66	42	26	17	12
18	68	63	224	120	60	281	128	62	40	24	15	12
19	61	63	213	120	58	250	140	64	38	23	16	13
20	78	59	215	110	58	247	135	61	37	22	14	13
21	59	57	188	110	58	231	123	61	48	22	13	13
22	57	56	242	100	62	210	116	58	38	21	13	13
23	54	55	228	100	107	206	112	55	41	19	13	13
24	48	56	203	100	314	203	107	51	37	18	12	13
25	42	56	192	98	654	192	109	48	36	16	16	12
26	41	54	167	96	434	179	106	46	34	20	16	10
27	33	52	160	92	387	182	105	45	31	28	26	32
28	28	65	185	88	326	243	104	50	30	20	15	40
29	37	205	310	86	---	292	99	46	35	18	15	31
30	35	163	540	84	---	258	94	37	33	18	14	23
31	36	---	373	82	---	246	---	37	---	21	15	---
TOTAL	1406	2154	6546	5113	3670	8482	5020	1971	1139	795	512	531
MEAN	45.4	71.8	211	165	131	274	167	63.6	38.0	25.6	16.5	17.7
MAX	78	205	540	420	654	545	311	89	48	36	26	40
MIN	28	36	132	82	58	179	94	37	30	16	12	10
CFSM	.63	1.00	2.95	2.31	1.83	3.83	2.34	.89	.53	.36	.23	.25
IN.	0.73	1.12	3.41	2.66	1.91	4.41	2.61	1.03	0.59	0.41	0.27	0.28

CAL YR 1984	TOTAL	48152	MEAN	132	MAX	1410	MIN	28	CFSM	1.85	IN.	25.05
WTR YR 1985	TOTAL	37339	MEAN	102	MAX	654	MIN	10	CFSM	1.43	IN.	19.43

SUSQUEHANNA RIVER BASIN

01509000 TIOUGHNIOGA RIVER AT CORTLAND, NY

LOCATION.--Lat 42°36'10", long 76°09'35", Cortland County, Hydrologic Unit 02050102, on right bank at east end of Elm Street at Cortland, 0.4 mi downstream from confluence of East and West Branches. Water-quality sampling site at Cortland Sewage Treatment Plant, 0.4 mi downstream from discharge station.

DRAINAGE AREA.--292 mi², including 14.0 mi², the flow from which may be diverted into De Ruyter Reservoir in Oswego River basin.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 2103: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 1,084.92 ft above National Geodetic Vertical Datum of 1929. 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.

REMARKS.--Estimated daily discharges: Jan. 8 to Feb. 10, Feb. 14-22. Records fair except for estimated daily discharges with ice effect, which are poor. 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. Slight diversion, maximum daily, 0.3 ft³/s from Gate House Pond on West Branch 17 mi upstream from station into Onondaga Creek basin (St. Lawrence River basin) for manufacturing purposes by Solvay Process Co. Gage height telemeter at station.

AVERAGE DISCHARGE.--47 years (water years 1939-85), 496 ft³/s, 23.07 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s Mar. 5, 1964, gage height, 12.49 ft; maximum gage height, 13.82 ft (present datum) Apr. 5, 1950; minimum discharge, 9.8 ft³/s Sept. 20, 1939, Sept. 29, 1959; minimum daily, 17 ft³/s Sept. 26, 27, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,400 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 13	0330	*3,590	*7.71	No peak greater than base discharge.			

Minimum discharge, 40 ft³/s Aug. 11, 12; minimum gage height, 2.48 ft Sept. 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	167	1110	1720	260	1090	1380	270	128	103	56	44
2	144	166	1150	1990	240	1080	1270	263	123	100	60	47
3	145	167	925	1390	230	969	1040	269	116	93	51	48
4	140	161	902	1030	230	741	1010	251	111	88	46	47
5	133	432	740	902	250	886	1170	253	110	83	46	71
6	127	457	666	761	240	902	1060	282	111	82	46	129
7	121	366	618	717	240	738	917	378	108	79	44	92
8	119	327	596	650	230	771	791	318	107	76	43	75
9	117	306	544	510	230	879	723	279	113	89	44	76
10	115	335	524	500	230	886	635	262	105	90	50	74
11	113	370	593	500	236	973	590	244	101	84	41	72
12	110	379	641	470	235	2540	539	220	108	81	41	70
13	108	336	1030	450	258	3180	493	232	139	80	43	62
14	106	311	1160	450	260	2190	473	210	155	79	43	57
15	105	298	989	410	250	1670	450	194	136	89	54	54
16	128	302	991	360	240	1290	425	183	130	101	54	53
17	130	292	1060	340	240	1170	394	234	152	90	52	51
18	123	277	993	330	220	965	372	223	152	79	49	49
19	119	277	904	310	210	817	435	213	132	72	46	48
20	160	255	960	290	200	850	467	199	122	68	44	49
21	165	240	777	270	200	785	401	181	130	64	47	48
22	145	231	1050	260	210	679	365	172	121	62	44	49
23	142	223	1100	280	357	683	339	154	120	60	43	49
24	134	224	836	280	1410	673	319	143	114	57	42	47
25	124	227	750	280	3100	639	320	137	112	54	46	45
26	135	220	592	280	2560	583	350	133	102	55	46	45
27	189	210	561	270	1710	596	332	128	96	63	52	164
28	156	234	617	270	1240	977	312	140	94	60	46	655
29	197	1080	1330	260	---	1540	303	157	102	55	44	345
30	204	1160	2610	250	---	1370	284	130	108	45	46	198
31	172	---	1910	250	---	1110	---	121	---	52	43	---
TOTAL	4261	10030	29229	17030	15516	34222	17959	6573	3558	2333	1452	2913
MEAN	137	334	943	549	554	1104	599	212	119	75.3	46.8	97.1
MAX	204	1160	2610	1990	3100	3180	1380	378	155	103	60	655
MIN	105	161	524	250	200	583	284	121	94	45	41	44
CFSM	.47	1.14	3.23	1.88	1.90	3.78	2.05	.73	.41	.26	.16	.33
IN.	0.54	1.28	3.72	2.17	1.98	4.36	2.29	0.84	0.45	0.30	0.18	0.37

CAL YR 1984	TOTAL	203132	MEAN	555	MAX	7660	MIN	105	CFSM	1.90	IN.	25.88
WTR YR 1985	TOTAL	145076	MEAN	397	MAX	3180	MIN	41	CFSM	1.36	IN.	18.48

01509000 TIOUGHNIOGA RIVER AT CORTLAND, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.
CHEMICAL DATA: 1957 (e), 1970, 1972 (a).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1956 to September 1957, once-daily measurements, unpublished.
pH: October 1956 to September 1957, once-daily measurements, unpublished.
WATER TEMPERATURES: October 1956 to current year.

REMARKS.--Daily water-temperature measurements made at 0900 hours. Measurements are reported to half degrees Celsius.

COOPERATION.--Water-temperature records furnished by the city of Cortland.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum daily, 23.5°C July 22, 1957; minimum daily (except water year 1960), 0.0°C on many days during winter periods in water years 1957, 1959, 1962, 1967-84.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum daily, 18.5°C Sept. 5; minimum daily, 0.5° C Jan. 11.

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

(ONCE DAILY AT 0900)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.5	10.5	3.5	3.5	4.0	3.0	4.0	11.0	12.5	---	15.0	14.5
2	11.0	10.0	4.0	4.0	4.0	4.5	4.5	11.0	12.5	12.0	13.0	14.5
3	11.0	8.0	3.5	3.0	2.5	3.5	4.0	11.0	13.0	13.5	13.0	14.5
4	10.0	7.0	3.5	2.0	2.5	2.0	---	10.0	11.5	13.5	13.5	14.5
5	9.5	9.0	2.5	3.0	2.5	2.5	6.5	11.0	12.0	16.0	13.5	18.5
6	8.5	8.0	2.0	2.5	4.5	2.0	9.0	---	12.5	16.5	13.5	17.0
7	9.0	6.0	2.0	2.0	3.5	1.5	7.0	11.0	12.0	15.5	14.5	16.5
8	9.5	5.5	1.5	2.0	---	4.0	---	10.0	13.0	---	15.0	14.5
9	11.0	6.0	2.0	1.0	2.5	3.5	4.5	9.5	13.0	13.0	14.0	15.0
10	12.5	7.5	2.5	.5	3.0	3.5	4.0	12.0	12.5	15.0	15.5	15.0
11	12.0	8.5	4.0	2.0	4.0	4.5	6.0	13.0	13.0	15.0	16.0	14.5
12	13.0	8.0	5.0	2.5	6.0	5.0	5.5	13.0	12.0	13.0	---	12.0
13	11.5	6.0	4.5	2.0	4.5	2.5	8.0	---	12.0	14.0	17.5	11.5
14	---	5.0	4.0	1.5	4.0	4.5	8.0	14.5	12.0	14.0	---	10.5
15	10.5	4.0	4.0	1.0	3.0	3.0	10.0	13.5	11.0	16.0	17.0	11.0
16	10.0	7.0	4.0	1.0	3.0	2.5	11.0	14.0	12.5	15.0	17.0	10.5
17	12.0	5.0	4.5	1.0	3.5	5.0	11.0	13.0	12.0	15.0	14.0	11.5
18	12.5	5.0	4.5	1.0	3.5	2.5	7.0	11.5	12.5	14.5	15.0	12.5
19	12.5	6.0	4.5	3.5	5.0	2.5	11.0	13.0	12.0	16.0	---	12.0
20	12.0	3.5	3.0	2.0	4.0	4.5	10.5	13.0	11.5	16.0	17.5	12.5
21	12.0	3.5	3.0	2.0	5.0	4.5	11.5	12.0	13.0	15.5	16.5	14.0
22	13.0	3.0	3.5	2.5	6.0	5.0	13.0	12.0	13.0	15.0	16.0	12.5
23	11.5	3.5	3.0	3.0	5.5	5.0	13.0	10.0	14.0	13.5	12.5	15.0
24	11.5	5.0	3.0	3.5	6.0	---	13.0	8.0	15.0	12.0	13.5	14.5
25	10.0	5.5	2.5	3.5	1.0	---	12.5	12.5	14.5	13.0	15.0	14.5
26	10.5	5.0	2.0	3.0	1.5	4.0	11.0	13.5	14.0	17.0	15.0	12.0
27	11.0	5.0	---	2.5	3.0	4.0	10.5	13.5	14.0	15.0	15.5	12.0
28	12.5	7.0	2.5	4.0	1.0	5.0	10.5	---	13.0	15.0	15.0	13.5
29	12.5	5.5	7.0	3.0	---	7.0	8.0	12.0	13.5	15.0	15.5	13.0
30	10.0	5.0	4.5	2.0	---	7.5	10.0	12.5	13.5	15.0	14.5	12.0
31	11.0	---	3.0	4.0	---	6.0	---	12.5	---	15.0	13.5	---
MEAN	11.0	6.0	3.5	2.5	3.5	4.0	8.5	12.0	13.0	14.5	15.0	13.5

WTR YR 1985 MEAN 9.0 MAX 18.5 MIN .5

01510000 OTSELIC RIVER AT CINCINNATUS, NY

LOCATION.--Lat 42°32'28", long 75°54'00", Cortland County, Hydrologic Unit 02050102, on right bank 150 ft upstream from Mead Brook, and 300 ft downstream from bridge on County Highway 159 at Cincinnatus.

DRAINAGE AREA.--147 mi².

PERIOD OF RECORD.--June 1938 to September 1964, October 1969 to current year.

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,031.67 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 4 to Feb. 22. Records fair except estimated daily discharges with ice effect, which are poor. Gage height and satellite telemeters at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--42 years (water years 1939-64, 1970-85), 267 ft³/s, 24.67 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,390 ft³/s Dec. 30, 1942; maximum gage height, 10.68 ft Apr. 4, 1950; minimum discharge, 3.8 ft³/s Sept. 25, 1939; minimum gage height, 0.11 ft Aug. 24, 28, 29, Sept. 25, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 12	1330	*2,360	*5.96	No peak greater than base discharge.			

Minimum discharge, 7.7 ft³/s Aug. 24, 28, 29, Sept. 25, gage height, 0.11 ft Oct. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	73	491	792	68	402	722	95	57	39	28	13
2	46	73	466	791	68	442	601	91	52	35	24	12
3	46	73	395	512	62	385	492	87	55	33	20	11
4	44	68	385	380	54	274	508	82	48	33	19	11
5	41	196	317	330	54	383	594	78	43	31	17	30
6	39	191	301	290	54	349	531	93	43	30	16	77
7	39	143	282	270	54	284	438	171	40	32	15	40
8	37	120	257	230	56	304	373	126	39	30	15	28
9	36	112	250	190	58	334	331	102	37	29	15	41
10	36	127	243	180	60	345	283	95	36	29	14	50
11	35	145	292	160	66	427	263	89	35	29	14	39
12	35	148	325	160	66	1900	234	84	39	35	13	30
13	36	133	532	160	68	1360	211	83	52	33	11	25
14	32	119	541	160	64	873	203	78	55	28	8.2	23
15	31	113	452	140	49	681	196	73	45	28	9.9	21
16	30	120	451	130	49	551	181	73	43	43	28	20
17	29	118	499	130	52	511	161	88	77	32	20	19
18	28	109	456	120	52	409	147	91	65	26	15	19
19	32	109	442	120	52	342	196	82	53	23	14	15
20	35	96	472	120	50	370	216	76	46	21	13	13
21	42	91	362	120	52	339	174	70	44	19	12	13
22	41	86	557	120	54	287	155	67	40	19	13	12
23	45	82	483	120	128	301	141	61	39	18	12	12
24	41	83	381	120	585	310	129	56	37	17	10	12
25	39	83	345	120	1270	287	126	53	37	16	12	11
26	58	81	272	120	751	255	133	50	35	20	12	11
27	74	76	263	120	591	272	126	51	33	26	12	440
28	63	89	302	110	435	554	118	64	32	21	11	543
29	132	684	690	100	---	801	110	71	35	19	11	193
30	99	487	1150	82	---	665	101	57	44	17	12	120
31	81	---	627	68	---	552	---	51	---	21	13	---
TOTAL	1444	4228	13281	6565	5022	15549	8194	2488	1336	832	459.1	1904
MEAN	46.6	141	428	212	179	502	273	80.3	44.5	26.8	14.8	63.5
MAX	132	684	1150	792	1270	1900	722	171	77	43	28	543
MIN	28	68	243	68	49	255	101	50	32	16	8.2	11
CFSM	.32	.96	2.91	1.44	1.22	3.41	1.86	.55	.30	.18	.10	.43
IN.	0.37	1.07	3.36	1.66	1.27	3.93	2.07	0.63	0.34	0.21	0.12	0.48

CAL YR 1984 TOTAL 100870 MEAN 276 MAX 5040 MIN 22 CFSM 1.88 IN. 25.53
WTR YR 1985 TOTAL 61302.1 MEAN 168 MAX 1900 MIN 8.2 CFSM 1.14 IN. 15.51

01511000 WHITNEY POINT LAKE AT WHITNEY POINT, NY

LOCATION.--Lat 42°20'34", long 75°57'57", Broome County, Hydrologic Unit 02050102, on left bank at control-gate structure for Whitney Point Dam on Otselic River, 0.3 mi upstream from spillway, 0.9 mi upstream from mouth, and 1.0 mi north of Whitney Point.

DRAINAGE AREA.--257 mi².

PERIOD OF RECORD.--October 1942 to September 1985 (discontinued).

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to October 1970, published as "Whitney Point Reservoir at Whitney Point."

REMARKS.--Lake is formed by earthfill 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). 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. Satellite, gage height, and rain gage telemeters at station.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 975.10 ft Sept. 28, contents, 15,420 acre-ft; minimum, 965.25 ft Jan. 4, contents, 4,499 acre-ft.

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 (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	973.09	973.01	972.73	966.09	966.16	966.30	966.56	972.22	973.40	973.42	973.46	973.63
2	973.14	973.09	972.85	966.66	966.25	966.25	966.38	972.41	973.41	973.46	973.41	973.62
3	973.15	973.18	972.62	966.10	966.32	966.31	966.28	972.52	973.42	973.48	973.41	973.60
4	973.15	973.26	971.94	965.40	966.33	966.05	966.33	972.69	973.42	973.50	973.40	973.60
5	973.14	973.38	971.21	965.75	966.28	965.79	966.46	972.93	973.42	973.50	973.39	973.60
6	973.12	973.43	970.38	965.87	966.24	966.19	966.41	973.10	973.42	973.50	973.39	973.61
7	973.10	973.22	969.51	966.01	966.21	966.15	966.14	973.23	973.39	973.52	973.40	973.64
8	973.06	973.09	968.58	966.10	966.16	966.25	965.75	973.27	973.36	973.52	973.45	973.69
9	973.05	973.07	967.99	966.02	966.10	966.65	965.94	973.17	973.33	973.54	973.47	973.74
10	973.04	973.09	967.39	966.00	966.03	966.89	965.97	973.16	973.31	973.57	973.48	973.71
11	973.04	973.17	966.90	966.01	965.99	966.94	966.03	973.19	973.31	973.56	973.49	973.54
12	973.05	973.18	966.81	966.21	966.01	968.33	966.04	973.21	973.35	973.52	973.50	973.44
13	973.05	973.09	966.85	966.39	966.08	972.97	965.94	973.27	973.37	973.51	973.50	973.40
14	973.06	972.97	966.70	966.36	966.12	973.26	965.79	973.28	973.38	973.52	973.51	973.35
15	973.06	973.00	966.02	966.32	966.13	971.79	965.84	973.26	973.36	973.51	973.55	973.30
16	973.06	973.09	965.87	966.16	966.13	969.69	965.99	973.31	973.30	973.52	973.59	973.30
17	973.06	973.16	965.99	966.05	966.10	967.55	966.13	973.41	973.28	973.55	973.58	973.31
18	973.05	973.17	966.25	966.08	966.06	966.27	966.45	973.45	973.34	973.55	973.55	973.34
19	973.04	973.20	966.16	966.17	966.03	965.99	966.97	973.47	973.38	973.53	973.53	973.38
20	973.04	973.21	966.16	966.19	966.02	966.19	967.90	973.46	973.40	973.52	973.54	973.41
21	973.04	973.21	966.11	966.12	966.01	966.24	968.61	973.46	973.42	973.52	973.55	973.44
22	973.05	973.18	965.94	966.04	966.03	966.14	969.13	973.43	973.39	973.52	973.56	973.47
23	973.09	973.14	966.71	966.00	966.10	966.17	969.57	973.38	973.40	973.51	973.58	973.49
24	973.12	973.10	966.80	966.03	966.18	966.19	969.98	973.33	973.38	973.48	973.58	973.52
25	973.15	973.07	966.46	966.06	967.47	966.24	970.38	973.32	973.34	973.46	973.63	973.56
26	973.18	973.03	965.94	966.03	968.26	966.15	970.76	973.30	973.33	973.51	973.68	973.56
27	973.22	973.03	965.81	965.96	967.18	966.08	971.12	973.29	973.33	973.59	973.69	973.71
28	973.28	973.03	965.95	965.91	966.25	966.23	971.43	973.34	973.33	973.62	973.67	974.94
29	973.34	973.44	966.55	965.95	---	966.93	971.73	973.34	973.36	973.65	973.66	974.26
30	973.39	973.11	967.23	966.04	---	967.34	971.98	973.34	973.38	973.65	973.64	973.54
31	973.29	---	967.06	966.10	---	966.84	---	973.35	---	973.66	973.65	---
MEAN	973.12	973.15	967.72	966.07	966.29	967.17	967.67	973.19	973.37	973.53	973.53	973.59
MAX	973.39	973.44	972.85	966.66	968.26	973.26	971.98	973.47	973.42	973.66	973.69	974.94
MIN	973.04	972.97	965.81	965.40	965.99	965.79	965.75	972.22	973.28	973.42	973.39	973.30
†	12,800	12,370	5,599	5,323	5,501	5,708	11,600	13,170	13,190	13,450	13,500	13,260
††	+0.7	-7.2	-110	-4.5	+3.2	+3.4	+99	+26	+0.3	+4.2	+0.8	-4.0

CAL YR 1984 MEAN 971.22 MAX 992.05 MIN 965.47 †† +0.5
WTR YR 1985 MEAN 970.72 MAX 974.94 MIN 965.40 †† +0.7

† Contents, in acre-feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

01512500 CHENANGO RIVER NEAR CHENANGO FORKS, NY

LOCATION.--Lat 42°13'05", long 75°50'55", Broome County, Hydrologic Unit 02050102, on left bank in Chenango Valley State Park, and 1.2 mi downstream from Tioughnioga River and village of Chenango Forks.

DRAINAGE AREA.--1,483 mi².

PERIOD OF RECORD.--November 1912 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 871.63 ft above National Geodetic Vertical Datum of 1929. Nov. 11, 1912 to Oct. 1, 1914, nonrecording gage and Oct. 2, 1914 to Aug. 2, 1936, waterstage recorder at site 300 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 21, Feb. 24, 25, 27, 28, and Mar. 6, 7. Records good except for estimated daily discharges, which are poor. 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. Satellite telemeter at station. National Weather Service, gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--72 years (water years 1914-85), 2,411 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 96,000 ft³/s July 8, 1935, gage height, 20.3 ft, from floodmarks, from rating curve extended above 32,000 ft³/s on basis of slope-area measurement of peak flow; minimum, 84 ft³/s Sept. 19, 25, 1939, gage height, 2.24 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 12	2200	*15,800	*8.95	No peak greater than base discharge.			

Minimum discharge, 140 ft³/s Aug. 24, gage height, 2.40 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	387	717	4740	5900	880	4530	5900	917	640	441	568	233
2	396	569	4850	7270	860	4430	5830	861	609	412	396	225
3	428	554	4370	6110	680	4250	4500	821	544	370	339	214
4	434	534	4520	4380	580	3400	4220	771	499	345	303	180
5	424	835	3740	3490	660	3250	4480	737	477	329	268	177
6	403	1440	3340	3000	740	3900	4310	782	467	312	222	348
7	388	1280	3080	2790	760	3200	3860	1090	454	308	212	559
8	377	983	3140	2640	840	3250	3250	1340	439	304	217	477
9	372	856	2570	2100	820	4000	2800	1110	426	297	208	475
10	349	862	2440	1900	900	4210	2540	921	406	334	202	823
11	342	1000	2560	1700	980	4800	2300	849	360	374	201	674
12	334	1200	2990	1600	900	12000	2170	800	379	355	193	496
13	333	1150	4300	1500	960	14100	2010	810	462	427	178	417
14	327	1010	5880	1400	1100	11500	1870	811	558	452	181	367
15	322	859	4780	1300	1100	9050	1760	760	575	386	179	328
16	330	849	4190	1200	960	7320	1660	689	528	470	192	254
17	349	883	4040	1100	960	6430	1480	755	569	502	226	232
18	352	863	3980	960	920	4930	1240	853	642	430	214	221
19	347	862	3690	880	900	3610	1580	772	585	363	217	213
20	350	834	4170	780	800	3500	2250	736	512	306	193	211
21	405	792	3700	720	760	3430	1790	689	479	283	181	203
22	439	760	4340	920	864	2980	1520	656	472	270	172	192
23	471	732	5350	1100	1460	2820	1350	624	463	246	170	187
24	460	730	4150	1100	4400	2890	1240	575	452	231	153	189
25	440	734	3660	1100	10000	2880	1180	523	409	208	189	203
26	465	722	2950	1000	10300	2560	1240	497	366	222	212	205
27	577	679	2380	1100	7800	2390	1200	481	336	258	240	2160
28	600	667	2410	1000	5400	2960	1110	570	329	278	231	7200
29	707	4100	4080	900	---	4760	1070	819	360	256	220	3940
30	912	5800	7780	840	---	4970	993	673	451	244	211	2090
31	887	---	7490	800	---	4560	---	574	---	304	218	---
TOTAL	13707	33856	125660	62580	58284	152860	72703	23866	14248	10317	7106	23693
MEAN	442	1129	4054	2019	2082	4931	2423	770	475	333	229	790
MAX	912	5800	7780	7270	10300	14100	5900	1340	642	502	568	7200
MIN	322	534	2380	720	580	2390	993	481	329	208	153	177

CAL YR 1984 TOTAL 948387 MEAN 2591 MAX 25200 MIN 322
WTR YR 1985 TOTAL 598880 MEAN 1641 MAX 14100 MIN 153

SUSQUEHANNA RIVER BASIN

01513110 SUSQUEHANNA RIVER AT JOHNSON CITY, NY

LOCATION.--Lat 42°06'37", long 75°58'30", Broome County, Hydrologic Unit 02050103, at intake of the New York State Electric and Gas Corp., Goudey Station, at Johnson City, 100 ft upstream from Little Choconut Creek, 0.5 mi downstream from C.F.J. Memorial Bridge, 3.5 mi downstream from Chenango River and 4.8 mi upstream from discontinued discharge station (01513500) at Vestal.

DRAINAGE AREA.--3,891 mi².

PERIOD OF RECORD.--Water years 1956 to current year. Prior to October 1960, published as 01513500, "at Johnson City", and prior to October 1967, published as 01513500, "at Vestal"; however, all water-temperature records were collected at present site.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1955 to current year.

REMARKS.--Daily water-temperature measurements made at 0800 hours. Measurements are reported to whole degrees Celsius. During winter periods water is at times recirculated from inside the plant through the intake to prevent icing conditions, thus resulting in reported water temperatures that are slightly above actual river temperatures.

COOPERATION.--Water-temperature records furnished by the New York State Electric and Gas Corp.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum daily, 29.0°C Aug. 4, 1979, July 21, 1980; minimum daily, 0.0°C on many days during winter periods, except 1967, 1976, 1978-80 and 1982-3.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum daily, 26.0°C Aug. 16; minimum daily, 0.0°C on Jan. 9, 10, 18-20, Feb. 28, Mar. 28.

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

(ONCE DAILY AT 0800)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	12.0	4.0	3.0	1.0	1.0	6.0	16.0	19.0	22.0	21.0	18.0
2	14.0	12.0	4.0	4.0	1.0	2.0	5.0	14.0	18.0	22.0	22.0	19.0
3	12.0	9.0	3.0	3.0	2.0	2.0	4.0	13.0	21.0	22.0	22.0	20.0
4	12.0	8.0	3.0	1.0	1.0	2.0	3.0	13.0	18.0	22.0	22.0	21.0
5	12.0	9.0	2.0	1.0	1.0	1.0	5.0	15.0	21.0	23.0	23.0	23.0
6	12.0	9.0	1.0	1.0	1.0	1.0	8.0	14.0	17.0	24.0	23.0	24.0
7	12.0	7.0	1.0	1.0	1.0	.0	8.0	14.0	18.0	23.0	23.0	24.0
8	13.0	6.0	1.0	1.0	1.0	1.0	7.0	13.0	20.0	21.0	23.0	25.0
9	14.0	7.0	1.0	.0	1.0	2.0	6.0	12.0	21.0	23.0	23.0	24.0
10	16.0	7.0	2.0	.0	1.0	2.0	4.0	14.0	20.0	22.0	24.0	23.0
11	16.0	8.0	2.0	1.0	1.0	3.0	6.0	17.0	21.0	21.0	25.0	21.0
12	16.0	8.0	3.0	1.0	1.0	4.0	6.0	19.0	21.0	22.0	23.0	18.0
13	16.0	6.0	3.0	1.0	1.0	2.0	8.0	20.0	18.0	21.0	23.0	16.0
14	16.0	4.0	4.0	1.0	1.0	3.0	9.0	20.0	15.0	23.0	24.0	15.0
15	15.0	4.0	3.0	1.0	1.0	3.0	10.0	20.0	16.0	23.0	25.0	16.0
16	14.0	4.0	3.0	1.0	1.0	2.0	11.0	19.0	18.0	23.0	26.0	16.0
17	15.0	3.0	4.0	1.0	1.0	3.0	11.0	18.0	19.0	23.0	23.0	16.0
18	16.0	3.0	4.0	.0	1.0	2.0	11.0	18.0	20.0	23.0	23.0	17.0
19	16.0	7.0	4.0	.0	1.0	1.0	13.0	16.0	21.0	24.0	23.0	18.0
20	17.0	4.0	3.0	.0	1.0	3.0	12.0	15.0	19.0	25.0	23.0	20.0
21	16.0	4.0	3.0	1.0	1.0	2.0	12.0	18.0	19.0	24.0	22.0	21.0
22	17.0	4.0	2.0	1.0	1.0	2.0	14.0	17.0	21.0	24.0	21.0	22.0
23	16.0	4.0	2.0	1.0	1.0	4.0	17.0	18.0	22.0	23.0	20.0	21.0
24	15.0	3.0	2.0	1.0	1.0	4.0	17.0	18.0	23.0	21.0	21.0	21.0
25	14.0	6.0	2.0	1.0	1.0	4.0	14.0	19.0	21.0	22.0	21.0	18.0
26	14.0	5.0	1.0	1.0	1.0	4.0	13.0	21.0	20.0	24.0	21.0	18.0
27	14.0	6.0	1.0	1.0	1.0	4.0	13.0	19.0	19.0	23.0	22.0	18.0
28	15.0	8.0	2.0	1.0	.0	8.0	14.0	21.0	19.0	22.0	22.0	15.0
29	17.0	9.0	3.0	1.0	---	8.0	11.0	17.0	18.0	23.0	22.0	14.0
30	14.0	6.0	5.0	1.0	---	9.0	13.0	19.0	19.0	24.0	22.0	15.0
31	13.0	---	4.0	1.0	---	8.0	---	19.0	---	24.0	19.0	---
MEAN	14.5	6.5	2.5	1.0	1.0	3.0	9.5	17.0	19.5	23.0	22.5	19.0

WTR YR 1985 MEAN 11.5 MAX 26.0 MIN .0

01515000 SUSQUEHANNA RIVER NEAR WAVERLY, NY

LOCATION.--Lat 41°59'05", long 76°30'05", Bradford County, Pa., Hydrologic Unit 02050103, on left bank 0.2 mi upstream from Cayuta Creek, 0.4 mi upstream from bridge on East Lockhart Street at Sayre, Pa., 1 mi downstream from New York Pennsylvania State line, and 2 mi southeast of Waverly.

DRAINAGE AREA.--4,773 mi².

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

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 743.96 ft above National Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Prior to November 1939, at datum 1.0 ft higher.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 24. Records good except for estimated daily discharges with ice effect, which are fair. Minor regulation by upstream lakes and reservoirs. Slight diversion from upstream tributaries for operation of Erie (Barge) Canal. Satellite telemeter at station. National Weather Service gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--48 years (water years 1938-85), 7,545 ft³/s, 21.47 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121,000 ft³/s June 23, 1972, gage height, 21.24 ft; minimum daily, 237 ft³/s Sept. 22, 23, 1964; minimum gage height, 0.52 ft Sept. 24, 25, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of about 21.4 ft, from flood profile (discharge, 128,000 ft³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 52,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 13	1700	*40,100	*10.51	No peak greater than base discharge.			

Minimum discharge, 501 ft³/s Aug. 23, 24, gage height, 0.76 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	805	1650	17500	16600	2400	14100	14600	3300	2220	1060	1340	739
2	837	1570	16400	15900	2200	12300	15500	3050	2440	1090	1560	698
3	856	1320	14100	16000	2000	11700	14600	2810	2240	1180	1220	675
4	854	1240	15000	14000	2000	10600	13000	2630	1980	1150	1020	664
5	850	1290	13000	11300	1900	9550	12200	2490	1720	1030	959	675
6	852	1600	11400	9680	1800	10500	12100	2400	1510	940	868	680
7	831	2430	9860	8910	1800	10800	11600	2500	1400	846	802	662
8	841	2510	8560	8260	1700	10200	10800	2860	1320	864	752	811
9	796	2330	7920	7000	1600	11300	9720	3550	1250	966	726	930
10	800	2080	7420	5800	1600	11900	8820	3440	1190	1000	717	1030
11	815	2070	8130	4700	1800	12100	8060	2840	1150	1210	683	1370
12	744	2370	9250	4300	1900	19100	7470	2550	1110	1320	631	1520
13	701	2620	10700	4300	2100	38100	6980	2400	1060	1850	609	1490
14	680	2560	13700	4200	2600	37700	6480	2310	1040	1600	603	1270
15	709	2420	14300	4000	2800	29300	6060	2270	1230	1340	652	1060
16	719	2160	12800	3900	2700	22100	5780	2200	1310	1400	634	911
17	675	2140	11500	3600	2600	18100	5530	2160	1360	1610	609	827
18	661	2220	10900	3400	2500	15500	5000	2200	1370	1440	583	755
19	664	2360	10300	3200	2300	12700	4530	3200	1390	1230	572	707
20	669	2430	10500	2900	2200	10900	6190	2770	1360	1100	562	659
21	689	2290	10800	2500	2100	10300	6600	2430	1340	984	554	618
22	743	2060	12100	2000	1900	9760	5940	2250	1250	963	550	592
23	809	2010	16000	2200	3300	8890	5340	2030	1170	1060	522	571
24	859	1930	15400	2800	11000	8570	4750	1840	1160	973	504	553
25	901	1820	12800	3200	23500	8680	4350	1680	1150	831	527	540
26	977	1770	10800	3200	28000	8190	4240	1510	1080	765	568	537
27	961	1750	9200	3000	23900	7410	4220	1360	968	740	794	1530
28	1020	1780	8150	2900	18400	7020	3980	1480	897	793	709	23800
29	1190	6480	10600	2800	---	8170	3730	1920	911	776	662	24000
30	1310	14200	14900	2600	---	10300	3580	2410	988	768	645	14300
31	1640	---	18100	2400	---	11400	---	2130	---	861	686	---
TOTAL	26458	77460	372090	181550	154600	427240	231750	74970	40564	33740	22823	85174
MEAN	853	2582	12000	5856	5521	13780	7725	2418	1352	1088	736	2839
MAX	1640	14200	18100	16600	28000	38100	15500	3550	2440	1850	1560	24000
MIN	661	1240	7420	2000	1600	7020	3580	1360	897	740	504	537
CFSM	.18	.54	2.51	1.23	1.16	2.89	1.62	.51	.28	.23	.15	.59
IN.	0.21	0.60	2.90	1.41	1.20	3.33	1.81	0.58	0.32	0.26	0.18	0.66

CAL YR 1984 TOTAL 3035603 MEAN 8294 MAX 87500 MIN 661 CFSM 1.74 IN. 23.66
WTR YR 1985 TOTAL 1728419 MEAN 4735 MAX 38100 MIN 504 CFSM .99 IN. 13.47

SUSQUEHANNA RIVER BASIN

01520500 TIOGA RIVER AT LINDLEY, NY

LOCATION.--Lat 42°01'43", long 77°07'57", Steuben County, Hydrologic Unit 02050104, on left bank just downstream from bridge on County Highway 120 at Lindley, and 6 mi upstream from Canisteo River.

DRAINAGE AREA.--771 mi².

PERIOD OF RECORD.--January 1930 to current year.

REVISED RECORDS.--WSP 871: 1938. WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 964.50 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 9, 1937, nonrecording gage on bridge at same datum.

REMARKS.--Estimated daily discharges: Dec. 7-9, Jan. 8-11, and Jan. 15 to Feb. 21. Records good except for estimated daily discharges, which are fair. Since March 1979, flood flows regulated by detention in upstream reservoirs. Satellite and gage height telemeters at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--55 years, 804 ft³/s, 14.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 128,000 ft³/s June 23, 1972, gage height, 26.27 ft, from flood-mark in gage house, from rating curve extended above 31,000 ft³/s 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 ft and 26.27 ft; minimum, 6.1 ft³/s Sept. 1, 1939; minimum gage height, 2.68 ft Aug. 28, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 25	1030	*6,390	*9.81	No peak greater than base discharge.			

Minimum discharge, 66 ft³/s Sept. 26, 27, gage height, 2.95 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	172	1700	1590	170	1040	4550	231	1000	102	203	96
2	95	157	1820	1980	170	1160	2470	227	694	92	150	96
3	93	113	1410	1550	160	1040	1940	232	377	95	99	96
4	92	114	1460	1230	160	715	2000	229	290	113	95	94
5	92	148	1170	1090	160	781	1510	229	252	170	94	87
6	92	219	897	886	160	989	1350	222	259	151	97	87
7	92	185	780	799	150	930	1250	225	239	152	99	87
8	92	161	680	700	150	938	963	246	184	141	95	96
9	92	160	600	450	150	1420	930	244	173	99	91	97
10	92	167	661	260	150	1090	965	233	166	98	91	91
11	92	189	1240	240	150	920	870	199	139	98	91	87
12	92	195	1690	287	170	2580	784	174	142	111	91	80
13	92	204	1820	463	200	2370	664	173	150	118	91	80
14	92	174	2060	656	190	1940	597	171	156	102	87	80
15	92	167	1630	520	190	1580	572	172	151	105	91	80
16	92	156	1310	260	180	1180	586	178	148	108	96	79
17	92	130	1240	200	170	1110	517	217	168	111	91	78
18	93	125	1200	200	170	861	381	178	151	114	90	80
19	98	130	1030	200	170	725	380	248	153	112	90	69
20	97	139	1070	290	200	779	530	244	153	112	90	68
21	98	115	1200	350	300	765	637	234	141	111	92	68
22	101	115	1470	320	791	589	566	168	100	103	90	68
23	101	115	1440	280	1760	749	430	139	113	98	90	68
24	98	116	859	260	5630	2810	364	130	118	98	92	69
25	98	122	765	240	5530	2660	377	124	114	97	92	68
26	105	120	634	220	3100	1700	399	121	96	98	91	67
27	102	114	629	200	1920	1520	357	108	92	95	89	77
28	100	124	1110	190	1510	1660	280	178	91	92	89	70
29	170	2990	3510	180	---	1540	236	519	106	92	102	68
30	254	2510	2740	170	---	1430	232	361	115	92	111	68
31	174	---	2010	170	---	2460	---	237	---	102	98	---
TOTAL	3263	9646	41835	16431	23911	42031	27687	6591	6231	3382	3058	2399
MEAN	105	322	1350	530	854	1356	923	213	208	109	98.6	80.0
MAX	254	2990	3510	1980	5630	2810	4550	519	1000	170	203	97
MIN	92	113	600	170	150	589	232	108	91	92	87	67
CFSM	.14	.42	1.75	.69	1.11	1.76	1.20	.28	.27	.14	.13	.10
IN.	0.16	0.47	2.02	0.79	1.15	2.03	1.34	0.32	0.30	0.16	0.15	0.12

CAL YR 1984 TOTAL 463645 MEAN 1267 MAX 10400 MIN 87 CFSM 1.64 IN. 22.37
WTR YR 1985 TOTAL 186465 MEAN 511 MAX 5630 MIN 67 CFSM .66 IN. 9.00

01521000 ARKPORT RESERVOIR NEAR ARKPORT, NY

LOCATION.--Lat 42°23'45", long 77°43'08", Steuben County, Hydrologic Unit 02050104, on right bank 1,000 ft upstream from Arkport Dam on Canisteo River, 1.3 mi west of Arkport, and 2.3 mi upstream from small tributary.

DRAINAGE AREA.--30.5 mi².

PERIOD OF RECORD.--January 1951 to September 1985 (discontinued).

REVISED RECORDS.--WSP 1552: 1951-57. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in 1940 for flood control; first used for flood regulation on Mar. 31, 1940. Usable capacity, 7,936 acre-ft 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. Satellite gage height and rain gage telemeters at station.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,304.04 ft June 23, 1972, contents, 7,944 acre-ft; minimum, 1,226.26 ft Oct. 21, 22, 23, 24, 25, 1980, contents, 0.3 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,235.57 ft Mar. 31, contents, 284 acre-ft; minimum, 1,226.31 ft many days in September, contents, 0.3 acre-ft.

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 (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1227.03	1227.14	1227.37	1227.76	1226.94	1227.38	1229.61	1227.60	1227.57	1227.49	1227.39	1226.33
2	1227.06	1227.13	1227.32	1227.58	1226.95	1227.37	1228.07	1227.60	1227.57	1227.48	1226.75	1226.33
3	1227.07	1227.12	1227.33	1227.36	1227.23	1227.29	1228.05	1227.59	1227.55	1227.47	1226.39	1226.33
4	1227.06	1227.11	1227.31	1227.23	1227.44	1227.13	1228.03	1227.58	1227.53	1227.47	1226.38	1226.33
5	1227.05	1227.37	1227.23	1227.19	1227.14	1227.46	1228.01	1227.57	1227.53	1227.46	1226.38	1226.33
6	1227.05	1227.26	1227.21	1227.18	1226.96	1227.42	1227.97	1227.64	1227.52	1227.45	1226.38	1226.33
7	1227.04	1227.20	1227.19	1227.16	1226.94	1227.43	1227.93	1227.70	1227.50	1227.46	1226.36	1226.33
8	1227.04	1227.17	1227.19	1227.13	1227.08	1228.51	1227.89	1227.65	1227.49	1227.46	1226.36	1226.32
9	1227.04	1227.15	1227.19	1227.27	1226.94	1228.01	1227.86	1227.61	1227.49	1227.46	1226.36	1226.32
10	1227.04	1227.35	1227.20	1227.24	1226.93	1227.92	1227.82	1227.60	1227.47	1227.47	1226.36	1226.32
11	1227.04	1227.41	1227.50	1227.11	1226.92	1227.89	1227.83	1227.59	1227.47	1227.46	1226.36	1226.32
12	1227.04	1227.34	1227.44	1227.08	1226.94	1230.05	1227.81	1227.60	1227.68	1227.51	1226.36	1226.32
13	1227.05	1227.25	1227.55	1227.06	1227.14	1228.04	1227.79	1227.63	1227.69	1227.55	1226.35	1226.32
14	1227.05	1227.20	1227.38	1227.04	1227.15	1227.99	1227.78	1227.59	1227.65	1227.51	1226.35	1226.32
15	1227.05	1227.18	1227.40	1227.08	1227.14	1227.93	1227.78	1227.58	1227.59	1227.50	1226.35	1226.32
16	1227.05	1227.18	1227.28	1227.29	1227.09	1227.83	1227.76	1227.58	1227.61	1227.50	1226.35	1226.32
17	1227.05	1227.17	1227.22	1227.01	1227.04	1227.84	1227.73	1227.66	1227.76	1227.48	1226.35	1226.32
18	1227.05	1227.16	1227.18	1227.00	1227.03	1227.78	1227.71	1227.65	1227.64	1227.47	1226.35	1226.32
19	1227.05	1227.15	1227.23	1227.01	1227.02	1227.72	1227.71	1227.60	1227.59	1227.45	1226.34	1226.32
20	1227.05	1227.13	1227.32	1227.46	1227.28	1227.79	1227.77	1227.58	1227.58	1227.44	1226.34	1226.32
21	1227.06	1227.10	1227.20	1227.32	1227.20	1227.75	1227.74	1227.62	1227.59	1227.44	1226.34	1226.31
22	1227.08	1227.08	1227.50	1227.10	1227.34	1227.69	1227.70	1227.62	1227.56	1227.44	1226.33	1226.31
23	1227.13	1227.08	1227.27	1227.03	1228.41	1227.82	1227.68	1227.59	1227.55	1227.42	1226.33	1226.32
24	1227.15	1227.08	1227.19	1226.97	1228.60	1228.08	1227.68	1227.57	1227.52	1227.40	1226.33	1226.31
25	1227.15	1227.10	1227.15	1226.97	1228.17	1227.99	1227.67	1227.56	1227.49	1227.40	1226.33	1226.31
26	1227.15	1227.09	1227.11	1226.97	1227.66	1227.91	1227.66	1227.55	1227.48	1227.40	1226.33	1226.31
27	1227.20	1227.08	1227.10	1226.96	1227.55	1227.94	1227.65	1227.55	1227.47	1227.40	1226.33	1226.31
28	1227.20	1227.13	1227.40	1226.95	1227.42	1229.36	1227.64	1227.58	1227.47	1227.39	1226.33	1226.31
29	1227.45	1227.44	1227.77	1226.95	---	1228.05	1227.63	1227.58	1227.50	1227.38	1226.33	1226.31
30	1227.27	1227.28	1227.84	1226.94	---	1227.99	1227.61	1227.56	1227.51	1227.38	1226.33	1226.31
31	1227.19	---	1227.48	1226.97	---	1230.43	---	1227.56	---	1227.40	1226.33	---
MEAN	1227.10	1227.19	1227.32	1227.14	1227.27	1227.99	1227.85	1227.60	1227.55	1227.45	1226.39	1226.32
MAX	1227.45	1227.44	1227.84	1227.76	1228.60	1230.43	1229.61	1227.70	1227.76	1227.55	1227.39	1226.33
MIN	1227.03	1227.08	1227.10	1226.94	1226.92	1227.13	1227.61	1227.55	1227.47	1227.38	1226.33	1226.31
†	2.2	2.9	4.1	0.9	3.9	195.8	5.2	5.0	4.4	3.8	0.3	0.3
††	0	0	0	-0.1	+0.1	+3.1	-3.2	0	0	0	-0.1	0

CAL YR 1984 MEAN 1228.35 MAX 1259.04 MIN 1226.73 †† -0.1
WTR YR 1985 MEAN 1227.27 MAX 1230.43 MIN 1226.31 †† 0

† Contents, in acre feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

SUSQUEHANNA RIVER BASIN

01521500 CANISTEO RIVER AT ARKPORT, NY

LOCATION.--Lat 42°23'45", long 77°42'42", Steuben County, Hydrologic Unit 02050104, on left bank 0.2 mi downstream from Arkport Dam, and 0.9 mi west of Arkport.

DRAINAGE AREA.--30.6 mi².

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

REVISED RECORDS.--WSP 1552: 1952-57. WSP 2103: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,202.85 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-8 and Jan. 4 to Feb. 25. Records fair. Since November 1939, flows above 500 ft³/s controlled by detention in Arkport Reservoir (see station 01521000). Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--48 years, 35.3 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s 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).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1935, reached a discharge of 4,820 ft³/s, on basis of slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 600 ft³/s Feb. 23 at 2030 hours, gage height, 3.00 ft; maximum gage height, 3.01 ft Feb. 24 at 2230 hours (ice jam); minimum daily discharge, 0.75 ft³/s July 23; minimum gage height, 0.63 ft July 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	16	50	123	8.0	35	239	6.6	4.8	5.7	15	3.3
2	11	15	38	77	7.8	35	90	6.2	4.9	5.0	6.8	2.7
3	9.6	13	41	48	7.6	27	76	5.8	3.9	4.9	5.1	2.3
4	8.4	12	38	34	7.6	12	78	5.4	3.6	4.9	4.4	1.8
5	7.7	50	26	29	7.4	50	68	5.2	3.6	3.4	3.5	2.4
6	6.7	31	24	24	7.4	46	53	12	3.6	2.0	3.3	1.7
7	6.1	23	23	20	7.2	59	44	16	3.3	2.6	3.6	1.0
8	6.0	18	21	17	7.0	186	37	11	3.1	2.8	3.7	3.7
9	5.9	16	21	16	7.0	122	33	8.8	3.1	3.1	3.4	6.1
10	6.0	52	25	15	7.0	87	28	7.4	3.7	3.4	3.1	7.4
11	5.6	56	74	15	7.2	82	28	6.3	3.9	2.9	3.6	6.3
12	5.5	40	62	14	7.6	289	26	7.7	15	4.9	2.9	5.2
13	5.5	29	117	14	8.4	119	24	10	14	5.7	2.5	4.6
14	5.4	24	61	13	7.8	89	23	6.5	11	4.9	3.0	3.9
15	5.2	21	66	13	7.6	63	23	5.5	6.4	5.1	4.6	3.2
16	5.1	21	45	12	7.4	44	21	5.7	7.7	4.7	7.2	2.7
17	5.0	18	37	11	7.2	46	18	13	21	3.9	3.6	2.0
18	5.2	17	31	10	7.0	40	16	11	9.8	3.3	2.7	1.6
19	5.2	17	40	10	7.0	42	17	7.2	6.4	2.4	2.0	1.6
20	5.4	14	51	9.8	7.0	38	22	5.7	5.8	1.6	1.7	1.4
21	5.5	11	34	9.6	7.0	33	19	9.5	6.3	1.3	1.4	1.0
22	6.8	9.2	106	9.4	11	26	16	8.6	4.7	.91	1.1	1.0
23	10	9.3	51	9.4	310	43	14	6.2	4.2	.75	1.1	.91
24	8.4	10	37	9.0	460	106	12	5.2	3.5	.83	1.2	1.7
25	6.8	11	37	9.0	150	79	11	4.7	3.2	1.1	1.8	2.4
26	9.9	11	36	8.6	73	58	11	4.3	3.3	2.2	2.1	1.7
27	13	9.9	24	8.4	56	77	9.4	4.2	3.3	3.1	2.5	9.4
28	14	14	103	8.4	48	261	8.5	5.8	4.6	4.0	2.7	7.4
29	74	70	171	8.2	---	98	8.2	5.5	7.3	4.8	3.6	6.6
30	29	35	163	8.0	---	74	7.4	4.4	7.9	5.6	4.2	6.0
31	20	---	62	8.0	---	219	---	4.5	---	9.2	4.3	---
TOTAL	325.9	693.4	1715	620.8	1263.2	2585	1080.5	225.9	186.9	110.99	111.7	103.01
MEAN	10.5	23.1	55.3	20.0	45.1	83.4	36.0	7.29	6.23	3.58	3.60	3.43
MAX	74	70	171	123	460	289	239	16	21	9.2	15	9.4
MIN	5.0	9.2	21	8.0	7.0	12	7.4	4.2	3.1	.75	1.1	.91

CAL YR 1984 TOTAL 19309.2 MEAN 52.8 MAX 687 MIN 3.7
WTR YR 1985 TOTAL 9022.30 MEAN 24.7 MAX 460 MIN .75

01523000 ALMOND LAKE NEAR ALMOND, NY

LOCATION.--Lat 42°20'56", long 77°42'10", Steuben County, Hydrologic Unit 02050104, at Almond Dam on Canacadea Creek, 2 mi northeast of Almond, and 3 mi upstream from mouth.

DRAINAGE AREA.--55.8 mi².

PERIOD OF RECORD.--July 1949 to September 1952 (monthly elevations and contents), October 1952 to September 1985 (discontinued). Prior to October 1970, published as "Almond Reservoir near Almond."

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Lake is formed by earthfill dam with concrete spillway, completed by Corps of Engineers in June 1949 for flood control; first used for flood regulation on Mar. 28, 1950. Usable capacity, 14,800 acre-ft 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. Satellite and gage height telemeters at station.

COOPERATION.--Capacity table furnished by Corps of Engineers.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,257.24 ft June 17, contents, 1,361 acre-ft; minimum, 1,249.06 ft Dec. 20, contents, 495 acre-ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Based on field survey by Corps of Engineers in 1938)

1,240.00	80	1,260.00	1,750
1,245.00	230	1,270.00	3,750
1,250.00	570	1,280.00	6,570
1,255.00	1,080	1,290.00	10,300

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1255.34	1255.14	1251.46	1251.26	1250.70	1250.71	1251.12	1251.90	1256.28	1256.17	1255.66	1255.27
2	1255.41	1255.26	1251.20	1251.05	1250.74	1251.18	1251.89	1252.30	1256.22	1256.17	1255.66	1255.29
3	1255.46	1255.32	1250.93	1250.88	1250.58	1251.39	1251.94	1252.68	1256.20	1256.16	1255.62	1255.29
4	1255.48	1255.41	1250.95	1251.43	1250.41	1250.59	1251.74	1252.97	1256.15	1256.14	1255.57	1255.32
5	1255.48	1255.78	1250.58	1251.39	1250.31	1250.89	1250.64	1253.22	1256.07	1256.10	1255.51	1255.36
6	1255.45	1255.80	1250.97	1250.84	1250.48	1250.93	1251.10	1253.54	1256.02	1256.05	1255.44	1255.43
7	1255.38	1255.50	1250.71	1251.03	1250.58	1250.61	1251.26	1254.04	1256.04	1256.01	1255.38	1255.46
8	1255.32	1255.45	1251.15	1250.86	1250.29	1251.54	1250.87	1254.38	1256.07	1255.98	1255.33	1255.54
9	1254.96	1255.45	1250.19	1250.11	1250.39	1251.87	1250.54	1254.62	1256.10	1255.94	1255.28	1255.68
10	1253.61	1255.63	1250.30	1250.70	1250.47	1252.14	1251.17	1254.80	1256.11	1255.95	1255.19	1255.75
11	1252.29	1256.26	1251.16	1251.29	1250.24	1251.16	1251.21	1254.87	1256.11	1255.94	1255.12	1255.84
12	1252.17	1256.30	1251.31	1251.42	1250.30	1252.69	1250.57	1254.98	1256.41	1255.98	1255.06	1255.87
13	1252.17	1256.00	1252.94	1250.93	1251.34	1252.18	1251.27	1255.21	1256.35	1256.06	1254.98	1255.91
14	1252.17	1255.62	1251.66	1250.26	1251.29	1251.77	1251.31	1255.36	1256.52	1256.08	1254.95	1255.93
15	1252.17	1255.28	1251.93	1250.39	1250.73	1250.56	1251.22	1255.47	1256.27	1256.10	1254.99	1255.94
16	1252.16	1255.43	1250.64	1250.26	1250.84	1250.08	1251.01	1255.58	1256.11	1256.18	1255.15	1255.94
17	1252.15	1255.56	1250.53	1250.26	1250.78	1250.90	1250.66	1256.03	1257.11	1256.21	1255.20	1255.95
18	1252.15	1255.62	1250.90	1250.32	1250.50	1250.39	1251.01	1256.83	1256.55	1256.19	1255.19	1255.95
19	1252.12	1255.68	1251.27	1250.41	1250.21	1249.98	1251.34	1256.16	1256.31	1256.13	1255.15	1255.96
20	1252.11	1255.71	1250.61	1250.21	1249.76	1250.23	1252.19	1256.09	1256.31	1256.06	1255.11	1255.95
21	1252.13	1255.71	1250.43	1250.72	1250.34	1251.20	1251.16	1256.16	1256.33	1256.01	1255.06	1255.90
22	1252.15	1255.66	1252.08	1250.66	1251.00	1250.69	1250.42	1256.44	1256.24	1255.93	1255.00	1255.88
23	1252.32	1255.14	1250.89	1250.71	1253.89	1251.63	1250.51	1256.44	1256.13	1255.86	1254.96	1255.89
24	1252.45	1252.73	1250.51	1250.71	1256.94	1252.48	1250.40	1256.34	1256.13	1255.78	1254.96	1255.92
25	1252.52	1251.13	1250.93	1250.41	1254.27	1250.75	1250.33	1256.16	1256.13	1255.72	1254.97	1255.94
26	1252.62	1250.73	1250.35	1250.52	1251.71	1250.51	1250.97	1256.01	1256.11	1255.68	1255.01	1255.96
27	1252.83	1250.35	1251.02	1250.53	1250.18	1251.49	1251.33	1255.99	1256.06	1255.72	1255.08	1256.09
28	1252.99	1250.75	1251.42	1250.51	1250.43	1254.61	1251.25	1256.15	1256.02	1255.70	1255.11	1256.14
29	1254.01	1251.77	1251.09	1250.50		1251.95	1251.14	1256.27	1256.05	1255.65	1255.13	1256.08
30	1254.71	1250.80	1251.38	1250.43		1251.89	1251.38	1256.17	1256.14	1255.58	1255.16	1255.98
31	1254.97		1250.66	1250.52		1251.97		1256.06		1255.57	1255.24	
MEAN	1253.46	1254.57	1251.04	1250.69	1251.06	1251.32	1251.10	1255.14	1256.22	1255.96	1255.20	1255.78
MAX	1255.48	1256.30	1252.94	1251.43	1256.94	1254.61	1252.19	1256.83	1257.11	1256.21	1255.66	1256.14
MIN	1252.11	1250.35	1250.19	1250.11	1249.76	1249.98	1250.33	1251.90	1256.02	1255.57	1254.95	1255.27
†	1,086	692	650	628	675	816	725	1,213	1,220	1,154	1,110	1,193
††	-0.6	-6.6	-0.7	-0.4	+0.8	+2.3	-1.5	+7.9	+0.1	-1.1	-0.7	+1.4

CAL YR 1984 MEAN 1253.95 MAX 1275.96 MIN 1249.94 †† +0.1
WTR YR 1985 MEAN 1253.47 MAX 1257.11 MIN 1249.76 †† +0.1

† Contents, in acre-feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

SUSQUEHANNA RIVER BASIN

01523500 CANACADEA CREEK NEAR HORNELL, NY

LOCATION.--Lat 42°20'05", long 77°41'00", Steuben County, Hydrologic Unit 02050104, on right bank 35 ft downstream from bridge on State Highway 21, 1.2 mi west of Hornell, 1.5 mi downstream from Almond Dam, and 2 mi upstream from mouth.

DRAINAGE AREA.--57.9 mi^2.

PERIOD OF RECORD.--October 1940 to December 1942, October 1944 to current year.

REVISED RECORDS.--WSP 2103: Drainage area. WRD NY 1971: 1969(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,185.68 ft above National Geodetic Vertical Datum of 1929. Oct. 23, 1940 to Dec. 31, 1942, at site 185 ft upstream at different datum.

REMARKS.--Estimated daily discharges: Nov. 21 to Dec. 5, Jan. 7 to Feb. 12 and Feb. 17-21. Records good except for estimated daily discharges during period of no gage-height record Nov. 21 to Dec. 5 and periods with ice effect Jan. 7 to Feb. 12 and Feb. 17-21, which are fair. Since October 1948, floodflows 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. Satellite telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--43 years (1940-42, 1944-85), 65.1 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,430 ft^3/s May 17, 1945, gage height, 5.14 ft, from rating curve extended above 3,400 ft^3/s; maximum gage height, 6.65 ft June 3, 1947; minimum discharge, 0.5 ft^3/s May 29, 1965, gage height, 0.61 ft; minimum daily, 0.6 ft^3/s May 30 to June 1, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1935, reached a stage of 16.61 ft, discharge, 21,000 ft^3/s, from floodmarks on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 784 ft^3/s Feb. 24 at 1830 hours, gage height, 2.74 ft; minimum, 2.1 ft^3/s Sept. 19, gage height, 0.73 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	88	206	31	75	453	11	32	14	12	8.3
2	19	18	60	145	29	56	159	11	26	14	12	8.5
3	19	18	55	82	28	56	157	11	21	14	12	6.9
4	19	18	79	51	28	49	188	11	20	14	12	6.4
5	19	45	37	84	27	97	139	11	20	14	12	5.6
6	20	58	43	50	27	80	94	11	15	14	12	5.2
7	20	41	36	50	26	56	87	11	13	14	12	7.7
8	20	28	38	45	25	291	86	11	13	14	12	14
9	57	27	45	35	25	245	61	11	13	14	11	10
10	79	27	35	29	28	209	47	15	13	14	11	7.2
11	41	54	122	30	36	158	71	15	13	14	11	7.4
12	17	65	98	36	22	479	52	14	86	14	11	7.7
13	17	58	220	45	78	200	41	14	48	14	11	7.9
14	17	58	153	37	105	239	50	14	46	14	12	7.7
15	16	36	132	32	68	126	50	14	46	14	12	7.7
16	16	24	97	31	54	92	50	14	36	13	12	7.9
17	16	24	78	30	45	101	41	29	71	13	11	7.8
18	16	24	53	28	36	71	26	152	77	13	11	7.9
19	16	24	65	27	28	71	45	44	32	13	11	7.1
20	16	24	122	25	24	67	131	35	32	13	11	9.7
21	16	23	54	45	22	75	99	32	32	13	11	9.9
22	17	20	142	82	105	56	54	32	32	12	11	7.3
23	17	74	121	70	536	102	44	32	21	13	9.1	6.6
24	17	96	61	60	770	334	44	32	16	12	8.5	6.6
25	17	40	63	52	577	222	31	32	16	11	8.2	6.6
26	17	30	45	48	173	123	24	24	16	11	7.5	6.6
27	17	22	44	45	118	151	31	16	16	12	7.0	11
28	18	24	146	41	59	485	35	25	15	12	7.0	14
29	18	123	236	39	---	244	29	31	14	12	7.5	14
30	18	44	333	36	---	143	16	31	14	12	7.9	14
31	18	---	117	34	---	351	---	25	---	12	8.0	---
TOTAL	669	1185	3018	1650	3130	5104	2435	771	865	407	323.7	255.2
MEAN	21.6	39.5	97.4	53.2	112	165	81.2	24.9	28.8	13.1	10.4	8.51
MAX	79	123	333	206	770	485	453	152	86	14	12	14
MIN	16	18	35	25	22	49	16	11	13	11	7.0	5.2

CAL YR 1984	TOTAL	36904.4	MEAN	101	MAX	1240	MIN	9.6
WTR YR 1985	TOTAL	19812.9	MEAN	54.3	MAX	770	MIN	5.2

01524500 CANISTEO RIVER BELOW CANACADEA CREEK, AT HORNELL, NY

LOCATION.--Lat 42°18'50", long 77°39'05", Steuben County, Hydrologic Unit 02050104, on right bank 235 ft upstream from Erie Railroad bridge in Hornell, 0.3 mi upstream from Crosby Creek, and 1.5 mi downstream from Canacadea Creek.

DRAINAGE AREA.--158 mi².

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,131.32 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 7, 8, 25, 26, Jan. 8-17, 19-27, 30, 31, and Feb. 2-11, 16-21. Records good except for estimated daily discharges, which are fair. Diversion from Carrington Creek, a tributary upstream from station, by City of Hornell for municipal supply (1985 average, 3.1 ft³/s); sewage enters river downstream from gage. Since Nov. 1939, flood flows regulated by Arkport Reservoir (see station 01521000), and, since October 1948, by Almond Lake (see station 01523000); normal regulation occasionally sufficient to materially affect figures of monthly runoff. Satellite and gage height telemeters at station. Several measurements of water temperature were made during the year.

COOPERATION.--Records of diversion from Carrington Creek furnished by City of Hornell.

AVERAGE DISCHARGE.--45 years, 157 ft³/s, 13.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,560 ft³/s June 23, 1972, gage height, 13.45 ft from floodmark, from rating curve extended above 7,600 ft³/s on basis of critical-depth measurement of peak flow; minimum, 7.4 ft³/s Sept. 13, 14, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,820 ft³/s Feb. 23 at 2130 hours, gage height, 6.61 ft; minimum, 14 ft³/s Aug. 14, gage height, 0.39 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	65	193	450	57	178	1020	50	61	32	23	21
2	63	63	149	344	56	155	433	46	52	36	23	20
3	59	60	150	212	54	138	367	47	47	30	22	19
4	56	59	157	150	44	103	403	51	45	29	23	20
5	55	124	106	177	44	199	333	49	43	28	24	21
6	55	126	107	132	42	172	249	52	39	26	22	19
7	54	98	90	133	80	140	220	61	35	26	21	18
8	54	76	98	120	58	495	203	54	34	26	22	47
9	83	71	109	88	78	547	171	48	33	26	22	35
10	110	112	100	80	110	433	143	49	32	26	21	28
11	80	151	252	84	54	357	163	50	32	25	22	23
12	48	149	222	88	61	974	145	51	135	37	21	22
13	48	123	466	88	107	533	121	55	101	33	21	22
14	47	114	293	88	121	533	128	43	85	28	26	21
15	47	91	274	82	109	317	127	42	76	30	26	21
16	46	77	210	68	76	232	121	44	74	30	46	22
17	45	73	176	78	74	237	108	70	123	26	30	21
18	45	70	138	80	72	187	89	207	117	25	28	21
19	46	69	149	74	70	168	104	91	60	26	25	20
20	46	65	236	50	62	177	182	71	56	26	23	22
21	45	61	139	56	58	169	159	70	58	27	21	21
22	49	66	324	60	221	142	113	66	58	26	23	20
23	52	125	248	58	1280	206	98	61	48	25	23	20
24	50	147	159	62	1730	552	93	58	38	24	23	20
25	48	68	140	64	1210	431	83	52	31	22	22	18
26	53	68	110	64	338	264	74	48	31	24	21	17
27	58	60	111	64	272	292	75	45	31	22	20	41
28	57	67	271	63	169	863	78	57	29	22	19	35
29	118	264	522	62	---	502	72	59	33	22	20	28
30	90	130	712	54	---	311	59	55	31	21	22	28
31	72	---	264	54	---	725	---	53	---	23	22	---
TOTAL	1839	2892	6675	3327	6707	10732	5734	1855	1668	829	727	711
MEAN	59.3	96.4	215	107	240	346	191	59.8	55.6	26.7	23.5	23.7
MAX	118	264	712	450	1730	974	1020	207	135	37	46	47
MIN	45	59	90	50	42	103	59	42	29	21	19	17

CAL YR 1984	TOTAL	84998	MEAN	232	MAX	2240	MIN	36
WTR YR 1985	TOTAL	43696	MEAN	120	MAX	1730	MIN	17

SUSQUEHANNA RIVER BASIN

01526500 TIOGA RIVER NEAR ERWINS, NY

LOCATION.--Lat 42°07'16", long 77°07'46", Steuben County, Hydrologic Unit 02050104, on right bank 20 ft downstream from bridge on Mulholland Road, 1.1 mi northeast of Erwins, and 1.1 mi downstream from Canisteo River.

DRAINAGE AREA.--1,377 mi².

PERIOD OF RECORD.--July 1918 to current year.

REVISED RECORDS.--WSP 891: 1935-38. WSP 1672: 1919(M), 1927(M), 1929(M). WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 931.24 ft above National Geodetic Vertical Datum of 1929. Prior to June 21, 1931, nonrecording gage on highway bridge at same datum.

REMARKS.--Estimated daily discharges: Jan. 8-12 and Jan. 16 to Feb. 21. Records good except for estimated daily discharges, which are fair. High flows regulated by upstream reservoirs. Satellite telemeter at station. National weather service gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--67 years, 1,377 ft³/s, 13.58 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 190,000 ft³/s June 23, 1972, from rating curve extended above 90,000 ft³/s on basis of computation of peak flow at Lindley and Canisteo River at Erwins, 7.2 mi and 2.0 mi upstream, respectively, adjusted for flow from intervening area, gage height, 26.74 ft, from floodmarks; minimum, 18 ft³/s Sept. 2, 3, 1939; minimum gage height, 0.40 ft Sept. 8, 9, 1954, July 23, Aug. 10, 11, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 17,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 25	0400	*12,300	*8.73	No peak greater than base discharge.			

Minimum discharge, 89 ft³/s Sept. 26, gage height, 0.62 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	355	2310	2490	310	1790	9250	440	1210	183	254	134
2	219	326	2530	3510	310	1890	5170	418	1040	164	238	132
3	230	256	1940	2610	310	1710	3590	412	560	162	169	130
4	215	246	2130	1990	310	1240	3620	401	435	160	144	128
5	205	300	1730	1780	300	1270	2870	392	396	236	136	120
6	197	496	1310	1500	290	1790	2440	393	371	212	135	116
7	191	475	1160	1330	280	1550	2220	404	353	213	141	116
8	189	404	1030	1100	280	1920	1790	451	290	204	138	126
9	189	359	1010	740	280	4120	1660	422	265	161	131	163
10	200	365	1020	540	280	2710	1600	397	249	153	128	183
11	244	458	1800	450	290	2300	1450	352	224	152	128	152
12	232	531	2690	580	300	5670	1390	321	226	171	126	130
13	187	520	3010	752	330	5470	1160	313	354	252	123	121
14	180	450	3560	1060	390	4030	1060	308	352	190	123	116
15	179	421	2840	955	350	3180	991	294	309	183	125	114
16	178	391	2340	640	330	2270	991	288	284	202	149	112
17	179	339	2000	430	310	2130	929	331	373	214	151	110
18	179	317	1890	370	310	1720	730	352	398	189	146	110
19	184	309	1640	420	310	1390	693	536	350	180	134	103
20	187	314	1730	600	330	1450	987	428	287	170	130	97
21	187	281	1870	540	580	1450	1320	395	263	168	128	95
22	201	255	2160	500	1070	1160	1070	332	212	160	123	94
23	215	251	2670	470	3590	1280	837	284	228	147	119	95
24	218	306	1610	440	10800	4460	715	257	233	144	125	94
25	214	365	1380	420	10700	5300	696	241	207	141	131	95
26	232	295	1090	400	5640	3170	706	234	181	145	128	92
27	252	268	1020	370	3370	2760	652	215	163	149	126	114
28	263	281	1480	350	2560	4040	549	258	156	143	124	126
29	362	3590	4860	340	---	3960	496	691	181	137	123	142
30	613	3540	4520	320	---	2950	466	552	200	134	157	123
31	401	---	3420	310	---	4120	---	391	---	146	143	---
TOTAL	7132	17064	65750	28307	44510	84250	52098	11503	10350	5365	4376	3583
MEAN	230	569	2121	913	1590	2718	1737	371	345	173	141	119
MAX	613	3590	4860	3510	10800	5670	9250	691	1210	252	254	183
MIN	178	246	1010	310	280	1160	466	215	156	134	119	92
CFSM	.17	.41	1.54	.66	1.15	1.97	1.26	.27	.25	.13	.10	.09
IN.	0.19	0.46	1.78	0.76	1.20	2.28	1.41	0.31	0.28	0.14	0.12	0.10

CAL YR 1984	TOTAL	771647	MEAN	2108	MAX	19400	MIN	178	CFSM	1.53	IN.	20.85
WTR YR 1985	TOTAL	334288	MEAN	916	MAX	10800	MIN	92	CFSM	.67	IN.	9.03

01528000 FIVEMILE CREEK NEAR KANONA, NY

LOCATION.--Lat 42°23'18", long 77°21'29", Steuben County, Hydrologic Unit 02050105, on left bank just downstream from town of Wheeler highway bridge, 1.3 mi upstream from mouth and Kanona.

DRAINAGE AREA.--66.8 mi^2.

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

REVISED RECORDS.--WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,170.30 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1973, at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 20, 22, 23, Dec. 6-9, 25-27, Jan. 4, 6, Jan. 8 to Feb. 24, Feb. 28, Mar. 4-7, 19. Records good except for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--48 years, 75.9 ft^3/s, 15.43 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,110 ft^3/s June 23, 1972, gage height, 6.95 ft present datum; maximum gage height, 7.10 ft present datum, Mar. 31, 1940 (ice jam); minimum discharge, 0.04 ft^3/s Sept. 27, 29, 1941; minimum gage height, 0.42 ft Sept. 7, 8, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 880 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Feb. 23	1730	ice jam	*4.55	No peak greater than base discharge.			
Feb. 24	2330	*805	3.99				

Minimum discharge, 0.30 ft^3/s Sept. 7, 8, gage height, 0.42 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	25	95	151	16	94	621	28	7.9	5.4	2.3	4.4
2	14	22	91	179	16	92	405	25	7.5	5.4	1.8	1.8
3	13	17	80	120	12	78	200	23	7.6	6.6	1.4	1.1
4	12	16	88	76	10	50	179	19	13	6.9	1.4	.83
5	11	40	68	75	12	42	173	18	9.5	5.3	1.4	.69
6	8.6	46	52	64	14	58	139	24	6.1	5.4	1.4	.64
7	7.6	36	50	66	14	50	107	35	4.8	6.1	1.4	.54
8	8.4	28	44	52	14	104	93	29	7.9	4.7	1.5	1.4
9	8.5	25	42	46	10	274	85	21	6.5	6.8	1.1	1.9
10	8.2	37	52	44	12	201	72	21	5.8	7.5	1.2	1.3
11	7.7	50	82	46	16	170	67	19	5.2	5.5	1.1	1.1
12	7.3	49	96	54	26	399	62	14	6.5	6.5	1.1	3.2
13	7.6	44	193	58	36	426	59	62	14	6.7	1.1	2.2
14	12	36	194	52	48	297	56	50	18	6.0	1.3	1.3
15	7.2	30	144	45	40	192	52	28	13	5.9	1.6	1.0
16	5.3	29	118	42	38	136	49	20	10	5.5	2.7	.85
17	6.5	27	97	40	42	136	45	16	11	5.0	2.2	.79
18	6.6	22	81	48	42	107	40	14	10	4.7	1.6	.67
19	10	22	77	42	42	72	49	19	12	4.6	1.1	.64
20	14	16	99	34	36	91	116	19	11	4.1	1.1	.57
21	16	21	81	22	36	77	79	16	7.9	3.8	1.1	.55
22	10	14	192	16	38	66	60	21	7.4	3.6	1.1	.54
23	13	14	184	16	200	71	50	17	6.6	2.9	1.1	.53
24	12	18	113	18	640	93	45	14	5.4	3.0	1.1	.59
25	7.6	19	80	22	715	126	43	11	6.3	2.6	1.2	.65
26	12	17	56	20	373	101	37	10	5.9	2.4	1.1	.59
27	22	17	52	18	172	97	33	8.8	5.2	2.3	1.1	2.6
28	17	20	73	16	96	128	31	19	4.7	1.8	.93	2.3
29	58	114	163	14	---	140	30	13	5.7	1.6	.83	5.6
30	51	91	206	14	---	112	33	7.0	5.9	1.5	.97	2.6
31	34	---	137	14	---	222	---	5.8	---	2.1	1.1	---
TOTAL	439.1	962	3180	1524	2766	4302	3110	646.6	248.3	142.2	41.43	43.47
MEAN	14.2	32.1	103	49.2	98.8	139	104	20.9	8.28	4.59	1.34	1.45
MAX	58	114	206	179	715	426	621	62	18	7.5	2.7	5.6
MIN	5.3	14	42	14	10	42	30	5.8	4.7	1.5	.83	.53
CFSM	.21	.48	1.54	.74	1.48	2.08	1.56	.31	.12	.07	.02	.02
IN.	0.24	0.54	1.77	0.85	1.54	2.40	1.73	0.36	0.14	0.08	0.02	0.02

CAL YR 1984 TOTAL 33937.1 MEAN 92.7 MAX 1390 MIN 4.8 CFSM 1.39 IN. 18.90
WTR YR 1985 TOTAL 17405.10 MEAN 47.7 MAX 715 MIN .53 CFSM .71 IN. 9.69

SUSQUEHANNA RIVER BASIN

01528700 DIVERSION FROM WANETA LAKE TO KEUKA LAKE AT KEUKA, NY

LOCATION.--Lat 42°29'06", long 77°06'39", Steuben County, Hydrologic Unit 02050105, at entrance to conduit on Diversion Canal, 0.8 mi east of Keuka, and 1.0 mi north of Wayne.

DRAINAGE AREA.--45.5 mi².

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

GAGE.--Daily power generation records.

REMARKS.--Records for March 1931 (when diversion and power generation began) 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 Corp.

AVERAGE DISCHARGE.--19 years, 20.0 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73 ft³/s June 23, 1972; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 72 ft³/s many days; no flow many days.

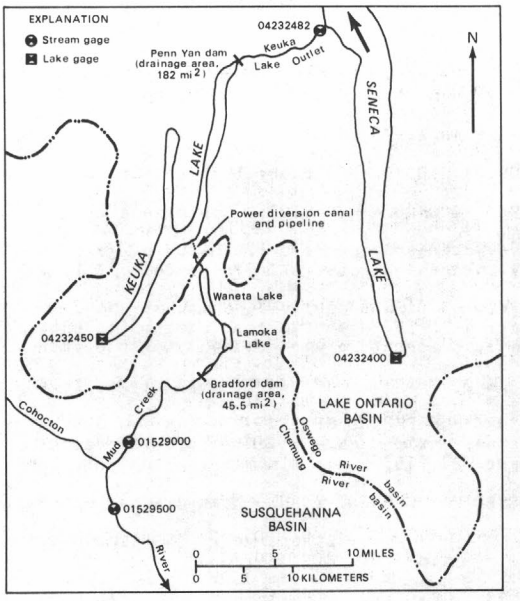


Figure 5.--Gaging stations and transbasin diversion, Cohocton River-Keuka Lake area.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	39	42	72	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	72	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	72	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	38	39	72	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	72	72	72	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	72	72	72	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	72	72	72	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	35	72	72	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	72	72	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	72	72	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	39	68	72	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	63	72	42	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	72	72	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	12	72	72	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	9.1	32	72	38	.00	.00	.00	.00	.00
16	.00	.00	.00	36	.00	72	72	.00	.00	.00	.00	.00
17	.00	.00	.00	72	.00	72	72	.00	.00	.00	.00	.00
18	.00	.00	.00	44	.00	72	72	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	42	72	72	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	69	72	72	.00	.00	.00	.00	.00
21	.00	.00	.00	42	63	72	72	.00	.00	.00	.00	.00
22	.00	.00	.00	72	32	45	33	.00	.00	.00	.00	.00
23	.00	.00	.00	72	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	72	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	39	42	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	72	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	72	42	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	72	72	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	72	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	33	---	72	.00	.00	.00	.00	.00	.00
31	.00	---	.00	72	---	72	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	575.10	1070.00	1676.00	1337.00	.00	.00	.00	.00	.00
MEAN	.00	.00	.00	18.6	38.2	54.1	44.6	.00	.00	.00	.00	.00
MAX	.00	.00	.00	72	72	72	72	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

CAL YR 1984 TOTAL 8789.00 MEAN 24.0 MAX 72 MIN .00
WTR YR 1985 TOTAL 4658.10 MEAN 12.8 MAX 72 MIN .00

01529500 COHOCTON RIVER NEAR CAMPBELL, NY

LOCATION.--Lat 42°15'09", long 77°13'01", Steuben County, Hydrologic Unit 02050105, on left bank just downstream from bridge on town road at junction with County Highway 125, 1.9 mi upstream from Michigan Creek, and 2 mi north of Campbell.

DRAINAGE AREA.--470 mi².

PERIOD OF RECORD.--July 1918 to current year.

REVISED RECORDS.--WSP 891: 1935. WSP 1302: 1919-20(M), 1927-28(M), 1928-38 (monthly runoff). WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,016.34 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 5, 1937, nonrecording gage on highway bridge.

REMARKS.--Estimated daily discharges: Dec. 6-9, Jan. 8 to Feb. 24, Mar. 5-8, Aug. 4-15, Aug. 19-29, Aug. 31 to Sept. 10, and Sept. 15-26. Records good except for periods of estimated daily discharges, which are fair. During each year since March 1931, a large part of flow from 45.5 mi² 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. Satellite telemeter at station. National Weather Service gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--67 years, 449 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 41,100 ft³/s July 8, 1935, gage height, 11.6 ft, from floodmark, from rating curve extended above 24,200 ft³/s on basis of velocity-area and slope-area measurements of peak flow; minimum, 8 ft³/s Sept. 6, 7, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 23	1930	ice jam	*5.02	No peak greater than base discharge.			
Feb. 25	0030	*3,130	4.13				

Minimum daily discharge, 27 ft³/s many days in August and September.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	194	455	844	200	701	2520	215	140	99	48	30
2	173	182	463	955	190	629	1800	201	122	82	40	30
3	179	173	412	799	180	547	1330	195	104	76	33	29
4	154	164	509	710	170	439	1190	182	106	71	30	29
5	138	227	444	656	170	420	1070	175	101	65	30	28
6	139	268	380	560	170	420	907	195	96	62	29	28
7	138	227	380	537	160	330	771	248	88	66	28	27
8	137	204	450	480	150	640	676	219	85	66	30	27
9	136	193	480	400	150	1250	620	186	83	66	30	42
10	126	229	477	380	140	998	551	169	78	99	29	45
11	118	302	583	350	140	922	527	162	74	71	30	50
12	117	290	583	330	160	1740	490	155	116	68	29	37
13	114	264	802	330	180	1750	449	194	160	116	28	38
14	116	246	824	340	200	1510	426	201	162	83	28	34
15	113	235	754	350	190	1180	409	160	126	75	30	33
16	107	230	682	330	190	927	381	154	123	84	54	32
17	107	223	615	320	190	878	350	152	223	75	46	30
18	107	213	561	310	180	733	323	213	160	65	31	30
19	113	206	528	310	180	616	334	170	127	57	30	28
20	123	189	595	300	180	617	490	154	112	50	30	28
21	130	184	501	290	180	554	407	149	108	48	30	27
22	126	165	786	280	300	491	354	160	96	45	29	27
23	143	177	876	270	680	536	324	139	112	38	28	27
24	141	166	682	260	2400	718	299	125	96	34	27	28
25	124	167	587	260	2650	897	286	117	81	30	30	29
26	133	159	471	250	1590	672	274	110	75	31	30	30
27	171	156	470	240	1120	634	260	110	70	33	30	45
28	156	162	488	230	809	863	245	135	68	34	29	75
29	278	547	834	220	---	859	241	144	90	32	30	55
30	277	481	971	210	---	760	229	115	124	30	30	42
31	216	---	762	200	---	1210	---	105	---	45	30	---
TOTAL	4473	6823	18405	12301	13199	25441	18533	5109	3306	1896	986	1040
MEAN	144	227	594	397	471	821	618	165	110	61.2	31.8	34.7
MAX	278	547	971	955	2650	1750	2520	248	223	116	54	75
MIN	107	156	380	200	140	330	229	105	68	30	27	27

CAL YR 1984 TOTAL 233486 MEAN 638 MAX 8850 MIN 94
WTR YR 1985 TOTAL 111512 MEAN 306 MAX 2650 MIN 27

01529950 CHEMUNG RIVER AT CORNING, NY

LOCATION.--Lat 42°08'47", long 77°03'28", Steuben County, Hydrologic Unit 02050105, on right bank adjacent to Corning Glass Works power plant, 0.2 mi upstream from bridge on State Highway 414 (Centerway) at Corning, and 1.7 mi downstream from Cohocton River.

DRAINAGE AREA.--2,006 mi².

PERIOD OF RECORD.--Occasional discharge measurements water years 1941, 1968-69. October 1974 to current year.

REVISED RECORDS.--WRD NY-78-1: 1976, 1977(M). WDR NY-83-3: 1982(M).

GAGE.--Water-stage recorder. Datum of gage is 900.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-10, 25-27, Jan. 4 to Feb. 24, Mar. 5-8, July 31 to Aug. 31, and Sept. 5. Records good except for estimated daily discharges, which are fair. High flows significantly regulated by upstream reservoirs. During each year a large part of flow from 45.5 mi² 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. Satellite and gage height telemeters at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 2,190 ft³/s, 14.83 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 127,000 ft³/s Sept. 26, 1975, gage height, 32.46 ft; minimum, 102 ft³/s Oct. 3, 1980, gage height, 14.22 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of 40.71 ft, from floodmark; discharge 228,000 ft³/s, from peak flows determined at upstream and downstream stations adjusted for drainage area and channel storage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 24,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 24	2200	ice jam	*20.56	No peak greater than base discharge.			
Feb. 25	0300	*15,800	20.50				

Minimum discharge, 123 ft³/s Sept. 22, 24, 25, 26; minimum gage height, 14.22 ft Aug. 23, 24, 28, 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	347	623	3160	3700	740	2820	12800	733	975	334	330	173
2	380	568	3380	5070	720	2780	7980	699	1170	295	300	178
3	418	497	2700	3840	700	2610	5300	676	702	267	220	178
4	382	470	2980	2900	700	2090	5100	650	562	256	190	175
5	347	567	2560	2700	700	1900	4230	632	525	311	180	160
6	334	834	2000	2400	700	2400	3600	640	463	301	180	157
7	328	782	1800	2200	700	2200	3170	696	455	284	180	158
8	323	680	1700	2000	700	2600	2590	738	398	267	180	168
9	321	609	1700	1400	660	5650	2380	679	367	241	170	200
10	323	622	1700	1300	700	4140	2280	627	344	227	170	258
11	358	800	2520	1200	700	3590	2110	570	319	238	170	208
12	349	886	3630	1200	740	7390	2010	528	313	332	170	180
13	305	842	4040	1300	900	7860	1740	523	465	436	160	168
14	297	748	4890	1400	1200	6210	1610	546	520	341	160	161
15	320	708	4040	1500	1500	4920	1520	489	466	314	170	154
16	314	666	3460	1100	1300	3660	1490	454	429	356	220	149
17	308	599	2980	1000	1200	3380	1400	479	556	387	210	150
18	303	564	2790	1000	1100	2790	1190	521	614	343	190	147
19	309	539	2550	920	1000	2410	1130	679	519	309	180	145
20	320	523	2620	900	900	2450	1470	579	437	285	170	135
21	325	477	2700	900	840	2390	1790	522	400	267	170	131
22	341	437	3070	860	1100	1990	1530	472	348	251	160	126
23	360	432	4070	840	3600	2050	1290	409	358	225	160	127
24	371	486	2720	820	13000	4950	1140	363	357	213	160	125
25	356	551	2300	800	13800	6710	1090	333	323	203	170	123
26	365	493	1800	800	7910	4250	1080	317	289	203	170	127
27	424	445	1700	780	5060	3690	997	294	258	200	170	149
28	463	468	2060	800	3840	4910	890	328	241	190	170	186
29	615	4030	5790	760	---	5340	820	683	295	181	170	212
30	954	4570	6080	760	---	4150	775	665	351	171	200	185
31	718	---	4820	760	---	4700	---	495	---	210	190	---
TOTAL	11978	25516	94310	47910	66710	118980	76502	17019	13819	8438	5790	4893
MEAN	386	851	3042	1545	2383	3838	2550	549	461	272	187	163
MAX	954	4570	6080	5070	13800	7860	12800	738	1170	436	330	258
MIN	297	432	1700	760	660	1900	775	294	241	171	160	123

CAL YR 1984 TOTAL 1138425 MEAN 3110 MAX 30100 MIN 297
WTR YR 1985 TOTAL 491865 MEAN 1348 MAX 13800 MIN 123

01530500 NEWTOWN CREEK AT ELMIRA, NY

LOCATION.--Lat 42°06'16", long 76°47'54", Chemung County, Hydrologic Unit 02050105, on left bank 200 ft downstream from bridge on Linden Place in Elmira, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--77.5 mi².

PERIOD OF RECORD.--May 1938 to current year.

REVISED RECORDS.--WSP 1502: 1956. WSP 2103: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 838.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-8 and Jan. 5 to Feb. 23. Records fair except for estimated daily discharges, which are poor. Diurnal fluctuation at low flow caused by operations of a sand and gravel plant upstream. Satellite and rain gage telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--47 years, 87.2 ft³/s, 15.28 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 4,000 ft³/s June 23, 1972 (backwater from Chemung River); maximum gage height, 19.28 ft June 23, 1972, from floodmarks (backwater from Chemung River); minimum daily discharge, 1.7 ft³/s Sept. 16, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Mar. 12	1200	*826	*8.61	No peak greater than base discharge.			

Minimum daily discharge, 1.7 ft³/s Sept. 16; minimum gage height, 4.89 ft Aug. 5.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	22	413	153	20	106	509	28	28	12	12	4.7
2	19	20	249	168	20	98	250	27	19	12	8.7	4.1
3	19	20	226	122	20	81	191	26	17	15	6.9	7.3
4	17	20	222	102	20	59	169	24	17	14	6.9	8.4
5	16	60	142	96	20	94	143	22	16	12	5.8	9.4
6	14	55	130	86	20	96	123	24	15	11	4.9	9.3
7	14	33	110	76	20	77	106	29	12	10	5.1	8.8
8	15	25	98	64	20	131	95	26	12	9.6	4.8	12
9	15	21	92	54	20	189	86	23	12	10	5.0	9.0
10	16	29	96	54	20	140	76	21	11	15	4.3	6.7
11	17	43	190	50	23	127	71	20	11	16	4.3	5.3
12	19	38	184	47	28	448	65	19	12	47	5.8	3.8
13	20	31	209	44	84	298	60	19	12	28	6.0	2.6
14	18	26	168	43	72	230	56	18	11	13	7.3	2.3
15	19	23	144	40	62	174	53	17	9.9	15	9.0	2.0
16	18	22	109	38	54	135	52	19	9.9	18	9.2	1.7
17	18	21	85	37	49	123	48	24	12	13	7.5	4.1
18	18	19	79	34	47	105	46	24	11	13	7.9	3.4
19	18	18	82	32	46	88	54	21	13	12	8.1	3.5
20	18	18	115	30	45	91	67	18	12	12	8.8	4.8
21	18	17	96	28	45	81	52	16	10	11	9.5	4.0
22	21	16	241	27	60	71	45	17	9.6	9.5	8.5	4.4
23	24	16	176	26	400	82	43	16	11	9.8	8.0	5.8
24	21	15	128	25	531	107	42	14	11	9.6	6.9	7.5
25	20	15	113	24	397	129	41	13	12	10	7.5	9.1
26	22	15	85	23	230	92	39	13	11	12	8.3	8.8
27	22	15	84	22	176	85	36	13	12	11	9.9	13
28	21	23	93	22	120	94	33	21	11	9.2	8.7	8.7
29	32	462	168	22	---	100	31	20	12	8.3	8.7	6.5
30	28	194	227	21	---	91	29	16	13	9.6	11	5.6
31	24	---	139	21	---	231	---	16	---	16	8.5	---
TOTAL	599	1352	4693	1631	2669	4053	2711	624	385.4	423.6	233.8	186.6
MEAN	19.3	45.1	151	52.6	95.3	131	90.4	20.1	12.8	13.7	7.54	6.22
MAX	32	462	413	168	531	448	509	29	28	47	12	13
MIN	14	15	79	21	20	59	29	13	9.6	8.3	4.3	1.7
CFSM	.25	.58	1.95	.68	1.23	1.69	1.17	.26	.17	.18	.10	.08
IN.	0.29	0.65	2.25	0.78	1.28	1.95	1.30	0.30	0.18	0.20	0.11	0.09

CAL YR 1984	TOTAL	49210	MEAN	134	MAX	2230	MIN	14	CFSM	1.73	IN.	23.62
WTR YR 1985	TOTAL	19561.4	MEAN	53.6	MAX	531	MIN	1.7	CFSM	.69	IN.	9.39

01531000 CHEMUNG RIVER AT CHEMUNG, NY

LOCATION.--Lat 42°00'08", long 76°38'06", Chemung County, Hydrologic Unit 02050105, on right bank 100 ft upstream from bridge on State Highway 427, 0.7 mi southwest of Chemung, and 10.0 mi upstream from mouth.

DRAINAGE AREA.--2,506 mi².

PERIOD OF RECORD.--September 1903 to current year (gage heights only for some winter periods).

REVISED RECORDS.--WSP 891: 1935-39. WSP 1432: 1904, 1907, 1915. WSP 2103: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 778.63 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Jan. 10, 1930, nonrecording gage on highway bridge 60 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 22. Records good except for estimated daily discharges, which are fair. High flows significantly regulated by upstream reservoirs. During each year a large part of flow from 45.5 mi² 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. Satellite telemeter at station. National Weather Service gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--79 years (water years 1906-13, 1915-85), 2,540 ft³/s, 13.76 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 189,000 ft³/s June 23, 1972, gage height, 31.62 ft, from flood-mark, from rating curve extended above 65,000 ft³/s 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 ft³/s Aug. 14, 1911, gage height, 1.47 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 30,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 25	0700	*20,400	*10.77	No peak greater than base discharge.			

Minimum discharge, 174 ft³/s Sept. 22, gage height, 2.93 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	462	759	5390	4460	800	3700	16900	914	925	429	333	271
2	478	698	4580	5830	780	3480	10700	862	1700	399	398	246
3	510	640	3930	4840	780	3210	7010	826	1110	363	414	245
4	529	578	3950	3860	780	2600	6470	794	806	349	344	243
5	488	691	3380	3420	780	2320	5640	760	698	325	295	239
6	452	954	2810	2960	780	3120	4840	764	640	381	272	228
7	441	1030	2370	2640	780	2720	4240	804	597	359	283	217
8	436	880	2140	2520	780	2760	3640	864	566	354	288	228
9	437	775	2130	1700	740	6110	3230	828	493	354	275	279
10	433	767	2080	1400	760	5260	2970	757	463	334	256	314
11	432	879	2910	1300	760	4370	2730	710	435	339	250	329
12	459	1050	4470	1300	800	7400	2620	670	428	352	244	287
13	447	1040	4710	1400	1000	10700	2310	640	447	739	238	263
14	395	955	5860	1500	1400	7600	2080	643	617	531	243	240
15	384	869	4770	1600	1600	6150	1940	644	601	436	249	230
16	380	826	4060	1200	1500	4780	1890	607	553	456	256	223
17	373	767	3410	1100	1300	4220	1800	597	535	436	273	215
18	369	707	3150	1100	1200	3650	1590	668	722	417	287	212
19	367	677	2800	1000	1100	2950	1440	754	652	380	280	208
20	389	649	2790	1000	1000	2820	1610	795	581	355	258	208
21	386	626	2980	980	920	2820	2180	694	509	329	246	197
22	423	562	3280	960	1200	2410	1980	652	476	323	237	190
23	456	520	4800	920	3830	2290	1660	597	447	302	231	190
24	452	549	3510	900	16000	4520	1440	537	445	288	223	192
25	457	601	2800	880	19000	8180	1320	495	431	276	243	194
26	461	630	2230	860	10800	5500	1290	464	384	278	245	187
27	481	557	1950	840	6490	4510	1240	451	351	303	242	237
28	533	564	2100	840	5030	5230	1140	486	331	276	239	275
29	632	4490	5360	820	---	6260	1040	627	349	260	230	271
30	935	6320	7250	820	---	5040	974	928	406	256	243	295
31	965	---	6270	820	---	5650	---	759	---	299	295	---
TOTAL	14842	31610	114220	55770	82690	142330	99914	21591	17698	11278	8410	7153
MEAN	479	1054	3685	1799	2953	4591	3330	696	590	364	271	238
MAX	965	6320	7250	5830	19000	10700	16900	928	1700	739	414	329
MIN	367	520	1950	820	740	2290	974	451	331	256	223	187
CFSM	.19	.42	1.47	.72	1.18	1.83	1.33	.28	.24	.15	.11	.09
IN.	0.22	0.47	1.70	0.83	1.23	2.11	1.48	0.32	0.26	0.17	0.12	0.11

CAL YR 1984 TOTAL 1444670 MEAN 3947 MAX 50000 MIN 367 CFSM 1.58 IN. 21.45
WTR YR 1985 TOTAL 607506 MEAN 1664 MAX 19000 MIN 187 CFSM .66 IN. 9.02

LAKES AND RESERVOIRS IN SUSQUEHANNA RIVER BASIN

01499500 EAST SIDNEY LAKE AT EAST SIDNEY, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

01511000 WHITNEY POINT LAKE AT WHITNEY POINT, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

01517900 TIOGA LAKE.--Lat 41°53'57", long 77°08'21", Tioga County, Hydrologic Unit 02050104, at Tioga Dam on Tioga River, 0.75 mi south of Tioga and 1.7 mi upstream from Crooked Creek. DRAINAGE AREA, 280 mi². PERIOD OF RECORD, November 1979 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Reservoir is formed by rolled earth and rockfill dam. Flood flows are routed to Hammond Lake through a connecting channel with weir at elevation 1,101.0 ft and to Hammond Dam spillway with crest at elevation 1,131.0 ft. Storage began in November 1979. Capacity at elevation 1,131.0 ft is 62,000 acre-ft. Recreation lake elevation is 1,081.0 ft, capacity 9,500 acre-ft. Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow is regulated by two service gates and low-flow by-pass system. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 32,560 acre-ft Feb. 16, 1984, elevation, 1,109.34 ft; minimum, 2,210 acre-ft Oct. 25, 1980, elevation, 1,060.05 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 11,260 acre-ft Nov. 29, elevation, 1,084.53 ft; minimum, 8,460 acre-ft Sept. 27, elevation, 1,078.67 ft.

MONTHEND ELEVATION AND CONTENTS: See following page.

01518498 HAMMOND LAKE.--Lat 41°53'56", long 77°08'52", Tioga County, Hydrologic Unit 02050104, at Hammond Dam on Crooked Creek, 3 mi upstream from mouth and 0.8 mi southwest of Tioga. DRAINAGE AREA, 122 mi². PERIOD OF RECORD, November 1979 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Reservoir is formed by rolled earth and rockfill dam with concrete chute spillway with uncontrolled weir at elevation 1,131.0 ft. Storage began in November 1979. Capacity at elevation 1,131.0 ft is 63,000 acre-ft. Recreation lake elevation is 1,086.0 ft, capacity 8,850 acre-ft. Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow is regulated by two gates through a connecting channel that discharges into Tioga Lake, and a low-flow outlet to Crooked Creek. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 30,620 acre-ft Feb. 16, 1984, elevation, 1,109.34 ft; minimum, 2,430 acre-ft Oct. 24, 1980, elevation, 1,074.00 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 9,680 acre-ft Mar. 12, elevation, 1,087.29 ft; minimum, 8,260 acre-ft Oct. 21, elevation, 1,085.21 ft.

MONTHEND ELEVATION AND CONTENTS: See following page.

01519995 COWANESQUE LAKE.--Lat 41°59'05", long 77°09'05", Tioga County, Hydrologic Unit 02050104, at Cowanesque Dam on Cowanesque River, 1.8 mi southwest of Lawrenceville, and 2.5 mi upstream from mouth. DRAINAGE AREA, 298 mi². PERIOD OF RECORD, December 1979 to current year. GAGE, water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Reservoir is formed by rolled earth and rockfill dam with concrete chute spillway with uncontrolled weir at elevation 1,117.0 ft. Storage began in December 1979. Capacity at elevation 1,117.0 ft is 89,110 acre-ft. Recreation lake elevation is 1,045.0 ft, capacity 7,330 acre-ft. Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow is regulated by two service gates and low-flow by-pass system. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 32,110 acre-ft Feb. 16, 1984, elevation, 1,079.57 ft; minimum, 65 acre-ft June 23, 1980, elevation, 1,011.50 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 9,550 acre-ft Feb. 25, elevation, 1,050.00 ft; minimum, 6,640 acre-ft Oct. 1, elevation, 1,043.29 ft.

MONTHEND ELEVATION AND CONTENTS: See following page.

01521000 ARKPORT RESERVOIR NEAR ARKPORT, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

01523000 ALMOND LAKE NEAR ALMOND, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

DIVERSION OF WATER AFFECTING THE SUSQUEHANNA RIVER BASIN

01528700 Diversion from Waneta Lake to Keuka Lake at Keuka, NY (see station for daily discharge).

Lakes and reservoirs in Susquehanna River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01517900 Tioga Lake			01518498 Hammond Lake		
Sept. 30.....	1,080.07	9,080	--	1,085.65	8,590	--
Oct. 31.....	1,079.45	8,800	- 4.6	1,085.45	8,440	- 2.4
Nov. 30.....	1,082.20	10,090	+21.7	1,086.42	9,110	+11.3
Dec. 31.....	1,081.46	9,730	- 5.9	1,086.27	9,020	+ 1.5
CAL YR 1984.....	--	--	+ 1.4	--	--	- 0.6
Jan. 31.....	1,084.20	11,100	+22.3	1,086.33	9,050	+ 0.5
Feb. 28.....	1,081.20	9,600	-27.0	1,086.35	9,060	+ 0.2
Mar. 31.....	1,081.86	9,920	+ 5.2	1,086.57	9,200	+ 2.3
Apr. 30.....	1.081.35	9,670	- 4.2	1,086.11	8,920	- 4.7
May 31.....	1,081.57	9,780	+ 1.8	1,086.40	9,090	+ 2.8
June 30.....	1,081.94	9,960	+ 3.0	1,086.08	8,900	- 3.2
July 31.....	1,081.70	9,820	- 2.3	1,086.10	8,910	+ 0.2
Aug. 31.....	1,080.40	9,230	- 9.6	1,086.08	8,890	- 0.3
Sept. 30.....	1,078.86	8,540	-11.6	1,086.09	8,900	+ 0.2
WTR YR 1985.....	--	--	- 0.7	--	--	+ 1.2

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01519995 Cowanesque Lake		
Sept. 30.....	1,043.25	6,620	--
Oct. 31.....	1,045.31	7,460	+13.7
Nov. 30.....	1,045.23	7,430	- 0.5
Dec. 31.....	1,045.36	7,480	+ 0.8
CAL YR 1984.....	--	--	+ 0.08
Jan. 31.....	1,045.07	7,360	- 2.0
Feb. 28.....	1,045.50	7,540	+ 3.2
Mar. 31.....	1,045.00	7,330	- 3.4
Apr. 30.....	1,045.43	7,510	+ 3.0
May 31.....	1,046.02	7,760	+ 4.1
June 30.....	1,045.90	7,710	- 0.8
July 31.....	1,045.33	7,470	- 3.9
Aug. 31.....	1,044.28	7,030	- 7.2
Sept. 30.....	1,044.44	7,100	+ 1.2
WTR YR 1985.....	--	--	+ 0.7

03011020 ALLEGHENY RIVER AT SALAMANCA, NY

LOCATION.--Lat 42°09'23", long 78°42'56", Cattaraugus County, Hydrologic Unit 05010001, on left bank 230 ft upstream from Main Street bridge in Salamanca, 1.3 mi downstream from Great Valley Creek, and 1.6 mi upstream from Little Valley Creek.

DRAINAGE AREA.--1,608 mi².

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1964, published as "at Red House."

REVISED RECORDS.--WSP 1385: 1907, 1909-12, 1913(M), 1914-15, 1916-17(M), 1925, 1927. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,358.00 ft above National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Sept. 3, 1917, nonrecording gage and Sept. 4, 1917 to Sept. 30, 1964, water-stage recorder at site 7.5 mi downstream at different datum. Oct. 1, 1964 to Sept. 30, 1967, at present site at datum 0.04 ft lower.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 24. Records good except for estimated daily discharges, which are fair. U.S. Army Corps of Engineers satellite and gage height telemeters at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--82 years, 2,784 ft³/s, 23.51 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,000 ft³/s June 23, 1972, gage height, 24.01 ft from floodmarks; minimum daily, 79 ft³/s Sept. 10, 11, 1971.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 17,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 25	0500	*22,300	*11.61	No other peak greater than base discharge.			

Minimum discharge, 251 ft³/s Sept. 23, 24, 25, 26, gage height, 2.84 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	446	1260	2380	9590	1100	6550	10300	945	1040	685	446	497
2	497	1120	2850	9190	1100	5220	9700	898	2640	630	446	423
3	504	1020	3020	7120	1100	4440	8160	873	1680	589	380	355
4	493	944	4470	5630	1100	3590	7580	868	1310	613	338	332
5	439	2200	3800	4840	1100	4880	6920	828	1120	580	309	321
6	412	3000	3410	4130	1100	5440	5990	822	947	563	287	297
7	391	2400	3140	3550	1100	4280	5470	978	850	519	289	273
8	377	1930	2600	3160	1100	6160	4840	1020	766	668	736	268
9	371	1640	2380	2480	1100	9900	4370	887	713	977	1570	320
10	366	2680	2410	1850	1100	7730	3780	804	697	1050	825	706
11	366	4970	3440	1700	1100	6560	3410	778	640	863	641	716
12	358	5240	3970	1700	1000	10200	3180	766	953	708	534	647
13	346	4260	5880	1600	1000	12700	2840	758	2090	629	483	528
14	331	3530	6330	1600	980	11600	2610	764	1850	603	450	468
15	324	3000	6220	1500	960	10300	2430	744	1400	762	427	429
16	324	2940	5530	1500	960	8160	2260	717	1240	1500	738	397
17	320	2650	4840	1400	960	6370	2060	716	1670	1190	684	370
18	316	2230	4220	1400	960	5110	1840	742	1770	816	559	348
19	316	2000	3750	1400	940	4180	1740	1090	1530	665	430	328
20	314	1780	3940	1400	920	3800	1960	933	1460	591	379	309
21	313	1540	3460	1300	1100	3590	1980	876	1770	543	342	293
22	379	1320	5150	1300	1300	3080	1690	849	1480	623	320	273
23	535	1200	5390	1300	3800	2980	1520	741	1580	831	305	262
24	741	1200	4440	1300	13000	5860	1430	668	1540	657	294	254
25	653	1170	3990	1200	21500	8060	1360	615	1310	538	315	263
26	734	1080	3220	1200	16600	6570	1300	582	1040	501	338	253
27	1020	1010	3000	1200	12700	5730	1220	556	894	518	507	281
28	809	991	4600	1200	9160	8680	1130	636	807	496	423	287
29	2330	1660	12700	1200	---	9300	1070	839	745	441	361	334
30	2410	2280	13000	1200	---	8030	1010	771	713	394	338	306
31	1700	---	10700	1100	---	7320	---	626	---	376	459	---
TOTAL	19235	64245	148230	80240	99940	206370	105150	24690	38245	21119	14953	11138
MEAN	620	2142	4782	2588	3569	6657	3505	796	1275	681	482	371
MAX	2410	5240	13000	9590	21500	12700	10300	1090	2640	1500	1570	716
MIN	313	944	2380	1100	920	2980	1010	556	640	376	287	253
CFSM	.39	1.33	2.97	1.61	2.22	4.14	2.18	.50	.79	.42	.30	.23
IN.	0.44	1.49	3.43	1.86	2.31	4.77	2.43	0.57	0.88	0.49	0.35	0.26

CAL YR 1984 TOTAL 1296447 MEAN 3542 MAX 27200 MIN 313 CFSM 2.20 IN. 29.99
WTR YR 1985 TOTAL 833555 MEAN 2284 MAX 21500 MIN 253 CFSM 1.42 IN. 19.28

ALLEGHENY RIVER BASIN

03013000 CONEWANGO CREEK AT WATERBORO, N.Y.

LOCATION.--Lat 42°10'15", long 79°04'10", Chautauqua County, Hydrologic Unit 05010002, on right bank 300 ft downstream from bridge on State Highway 394 at Waterboro, 0.2 mi downstream from Davis Brook, 0.4 mi upstream from Harris Brook, and 1.9 mi northeast of Kennedy.

DRAINAGE AREA.--290 mi².

PERIOD OF RECORD.--September 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,255.30 ft above National Geodetic Vertical Datum of 1929 (U. S. Army 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.

REMARKS.--Estimated daily discharges: Jan. 10 to Feb. 21. Records fair. U. S. Army Corps of Engineers satellite telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--47 years, 534 ft³/s, 25.01 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,600 ft³/s Apr. 7, 1947; maximum gage height, 12.13 ft Feb. 22, 1981; minimum discharge observed, 22 ft³/s Aug. 18, 1940, Sept. 27, 29, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,300 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Jan. 2	0300	2,710	8.73	Mar. 13	2000	2,550	8.51
Feb. 27	1900	*6,120	*11.53				

Minimum discharge, 38 ft³/s Sept. 30; minimum gage height, 3.06 ft many days in September.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	335	335	2660	160	4680	2210	165	130	86	71	52
2	153	359	445	2650	160	3770	2220	157	117	83	70	50
3	146	369	472	2400	150	2830	2100	153	104	83	67	49
4	134	319	630	1860	150	2050	1930	147	99	83	65	49
5	122	809	526	1380	150	1670	1810	143	94	81	62	49
6	113	837	448	1060	150	1660	1560	140	91	100	61	48
7	107	717	390	760	150	1530	1310	150	87	133	63	48
8	107	554	359	493	150	1740	1050	148	110	209	64	47
9	106	435	373	368	160	2160	801	138	131	337	62	53
10	121	1050	372	280	160	2330	582	132	121	283	59	61
11	125	1510	657	250	170	2290	500	126	103	212	57	66
12	118	1590	895	230	170	2310	484	122	266	161	56	62
13	111	1440	1380	220	180	2510	444	121	379	132	54	58
14	108	1210	1550	210	190	2500	420	115	364	123	58	55
15	103	965	1540	200	190	2360	388	106	275	167	114	51
16	102	899	1330	190	200	2040	349	104	225	213	138	54
17	100	779	1070	180	210	1680	313	102	224	174	111	46
18	100	621	779	180	220	1360	281	101	198	141	84	46
19	100	511	578	180	230	1070	267	100	170	121	73	46
20	101	432	586	170	240	850	320	98	155	105	67	44
21	110	367	525	160	250	725	341	109	143	93	62	42
22	124	324	998	160	268	607	298	116	128	94	60	41
23	155	299	961	150	321	560	267	106	155	90	57	40
24	149	287	745	150	1300	964	240	97	191	85	55	40
25	133	274	558	160	2560	1360	222	94	209	83	60	41
26	209	262	391	160	4160	1450	212	92	163	81	60	41
27	372	249	374	170	5830	1250	200	92	129	82	56	43
28	329	245	977	170	5660	1480	190	100	108	78	55	43
29	865	310	1960	170	---	1870	184	102	99	75	55	43
30	703	303	2480	170	---	2030	175	94	92	70	54	40
31	513	---	2630	170	---	2040	---	96	---	70	53	---
TOTAL	5963	18661	27314	17711	23889	57726	21668	3666	4860	3928	2083	1448
MEAN	192	622	881	571	853	1862	722	118	162	127	67.2	48.3
MAX	865	1590	2630	2660	5830	4680	2220	165	379	337	138	66
MIN	100	245	335	150	150	560	175	92	87	70	53	40
CFSM	.66	2.14	3.04	1.97	2.94	6.42	2.49	.41	.56	.44	.23	.17
IN.	0.76	2.39	3.50	2.27	3.06	7.40	2.78	0.47	0.62	0.50	0.27	0.19

CAL YR 1984 TOTAL 250489 MEAN 684 MAX 4940 MIN 78 CFSM 2.36 IN. 32.13
WTR YR 1985 TOTAL 188917 MEAN 518 MAX 5830 MIN 40 CFSM 1.79 IN. 24.23

03013946 CHAUTAUQUA LAKE AT BEMUS POINT, NY

LOCATION.--Lat 42°09'23", long 79°23'39", Chautauqua County, Hydrologic Unit 05010002, 6 ft east of lake shore, 30 ft south of the intersection of Pauline Avenue and Lakeside Avenue, and 950 ft southeast of the ferry landing, at Bemus Point.

DRAINAGE AREA.--189 mi².

PERIOD OF RECORD.--October 1972 to September 1973; November 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Nov. 1974 at site 950 ft northwest at same datum.

REMARKS.--Lake regulated for flood control by Warner Dam. Area of water surface, 20.98 mi². Gage height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,311.23 ft Mar. 5, 1976; minimum, 1,306.35 ft Mar. 11, 12, 13, 14, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,309.31 ft Mar. 12, minimum, 1,306.89 ft Feb. 12.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1308.07	1308.07	1307.37	1308.47	1307.25	1308.75	1309.06	1308.08	1308.14	1308.11	1308.02	1307.73
2	1308.06	1308.09	1307.36	1308.54	1307.21	1308.70	1309.05	1308.07	1308.15	1308.09	1308.00	1307.73
3	1308.05	1308.08	1307.36	1308.49	1307.18	1308.65	1309.01	1308.07	1308.17	1308.08	1307.98	1307.71
4	1308.04	1308.05	1307.37	1308.42	1307.14	1308.63	1309.00	1308.05	1308.16	1308.07	1307.96	1307.71
5	1308.03	1308.13	1307.35	1308.35	1307.10	1308.77	1308.99	1308.04	1308.16	1308.06	1307.93	1307.70
6	1308.02	1308.13	1307.35	1308.26	1307.09	1308.78	1308.91	1308.05	1308.15	1308.11	1307.91	1307.70
7	1308.01	1308.08	1307.33	1308.18	1307.06	1308.70	1308.84	1308.04	1308.13	1308.13	1307.91	1307.69
8	1308.01	1308.01	1307.28	1308.12	1307.04	1308.88	1308.75	1308.02	1308.12	1308.19	1307.91	1307.70
9	1308.02	1307.96	1307.25	1308.04	1307.00	1309.07	1308.66	1308.01	1308.14	1308.25	1307.89	1307.72
10	1308.03	1308.13	1307.23	1307.96	1306.97	1309.05	1308.56	1308.02	1308.14	1308.27	1307.88	1307.73
11	1308.01	1308.26	1307.26	1307.89	1306.93	1309.00	1308.48	1308.03	1308.13	1308.27	1307.91	1307.71
12	1307.99	1308.29	1307.29	1307.86	1306.93	1309.18	1308.41	1308.03	1308.27	1308.27	1307.89	1307.68
13	1307.99	1308.26	1307.49	1307.82	1306.92	1309.28	1308.33	1308.02	1308.37	1308.26	1307.87	1307.66
14	1307.99	1308.20	1307.57	1307.77	1306.93	1309.25	1308.25	1308.02	1308.39	1308.29	1307.87	1307.64
15	1307.99	1308.17	1307.62	1307.75	1306.93	1309.21	1308.18	1308.01	1308.36	1308.32	1307.88	1307.62
16	1307.99	1308.11	1307.62	1307.70	1306.94	1309.12	1308.16	1308.00	1308.34	1308.31	1307.90	1307.60
17	1307.99	1308.09	1307.60	1307.67	1306.96	1309.04	1308.14	1308.00	1308.30	1308.26	1307.88	1307.58
18	1307.97	1308.06	1307.57	1307.63	1306.98	1308.96	1308.11	1307.98	1308.26	1308.21	1307.86	1307.56
19	1307.93	1307.98	1307.55	1307.58	1307.00	1308.85	1308.12	1307.95	1308.22	1308.19	1307.83	1307.55
20	1307.90	1307.93	1307.54	1307.54	1307.02	1308.77	1308.13	1307.93	1308.21	1308.18	1307.81	1307.54
21	1307.87	1307.85	1307.52	1307.53	1307.00	1308.70	1308.13	1307.98	1308.21	1308.17	1307.79	1307.52
22	1307.85	1307.77	1307.62	1307.55	1307.03	1308.61	1308.12	1307.98	1308.21	1308.17	1307.77	1307.51
23	1307.81	1307.70	1307.64	1307.55	1307.43	1308.57	1308.12	1307.98	1308.24	1308.15	1307.75	1307.49
24	1307.77	1307.64	1307.61	1307.54	1308.29	1308.65	1308.13	1307.97	1308.24	1308.13	1307.74	1307.48
25	1307.73	1307.57	1307.58	1307.53	1308.92	1308.71	1308.12	1307.95	1308.21	1308.11	1307.82	1307.46
26	1307.79	1307.53	1307.55	1307.49	1308.96	1308.65	1308.11	1307.94	1308.19	1308.10	1307.81	1307.43
27	1307.85	1307.48	1307.54	1307.44	1308.91	1308.59	1308.10	1307.93	1308.17	1308.09	1307.79	1307.45
28	1307.87	1307.44	1307.68	1307.41	1308.83	1308.68	1308.09	1307.97	1308.15	1308.07	1307.78	1307.42
29	1308.08	1307.43	1308.13	1307.37	---	1308.80	1308.09	1307.98	1308.14	1308.06	1307.76	1307.40
30	1308.11	1307.39	1308.40	1307.32	---	1308.78	1308.08	1307.96	1308.13	1308.04	1307.76	1307.38
31	1308.10	---	1308.41	1307.28	---	1308.82	---	1308.03	---	1308.04	1307.76	---
MEAN	1307.96	1307.93	1307.55	1307.81	1307.36	1308.84	1308.41	1308.00	1308.21	1308.16	1307.86	1307.59
MAX	1308.11	1308.29	1308.41	1308.54	1308.96	1309.28	1309.06	1308.08	1308.39	1308.32	1308.02	1307.73
MIN	1307.73	1307.39	1307.23	1307.28	1306.92	1308.57	1308.08	1307.93	1308.12	1308.04	1307.74	1307.38

CAL YR 1984 MEAN 1308.00 MAX 1309.71 MIN 1306.69
WTR YR 1985 MEAN 1307.98 MAX 1309.28 MIN 1306.92

03014500 CHADAKOIN RIVER AT FALCONER, NY

LOCATION.--Lat 42°06'45", long 79°12'15", Chautauqua County, Hydrologic Unit 05010002, on left bank 10 ft downstream from South Dow Street Bridge in Falconer, 1.8 mi upstream from mouth, and 6 mi downstream from Chautauqua Lake.

DRAINAGE AREA.--194 mi^2.

PERIOD OF RECORD.--November 1934 to current year.

REVISED RECORDS.--WSP 803: 1936(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,256.41 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Chautauqua Lake. Diurnal fluctuation caused by mills upstream from station. Monthly figures for 1951-66 water years adjusted for regulation. Gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--50 years (water years 1936-85), 353 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,250 ft^3/s Sept. 14, 1979, gage height, 4.93 ft; minimum, 2.7 ft^3/s Nov. 20, 21, 1960, gage height, 0.15 ft; minimum daily, 3.0 ft^3/s Nov. 20, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,330 ft^3/s Mar. 12 at 1700 hours, gage height, 3.34 ft; minimum, 2.9 ft^3/s Sept. 6, gage height, 0.17 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	340	494	821	396	971	1100	92	52	59	49	75
2	162	348	479	840	392	955	1100	93	50	59	48	77
3	105	440	488	813	387	928	1110	89	55	57	74	53
4	104	683	492	797	382	891	1060	82	41	56	73	75
5	85	725	479	787	382	993	1070	76	80	62	50	34
6	67	727	484	787	341	988	1090	68	70	64	48	30
7	67	706	459	764	341	986	993	51	69	58	81	75
8	68	686	428	766	337	1090	977	50	69	75	75	79
9	68	660	430	724	341	1130	945	54	73	60	54	88
10	54	718	435	699	337	1110	889	73	65	58	64	79
11	46	748	444	631	337	1080	863	71	67	57	68	77
12	46	785	452	550	332	1220	828	69	79	57	62	77
13	66	787	472	543	337	1230	803	69	155	56	66	77
14	65	761	470	539	337	1210	774	67	412	193	63	78
15	41	741	471	539	332	1190	649	66	403	424	73	77
16	54	759	466	531	50	1130	254	43	407	418	63	78
17	192	759	469	527	48	1110	251	60	409	416	62	78
18	225	708	469	526	48	1070	250	60	348	165	60	78
19	241	695	470	520	48	987	254	62	191	77	61	77
20	333	683	468	489	48	967	251	63	65	77	60	78
21	329	654	461	214	378	936	250	68	64	82	59	77
22	333	620	485	214	411	903	204	54	68	77	43	77
23	331	599	472	214	474	902	93	51	62	76	50	78
24	329	553	465	214	770	935	93	50	64	75	83	80
25	329	501	471	445	1000	950	94	51	62	75	80	78
26	347	496	446	445	1040	925	93	52	62	76	77	83
27	332	488	457	445	1030	905	93	55	62	74	77	79
28	376	484	558	440	993	951	93	60	63	74	77	77
29	361	496	764	440	---	989	93	52	62	73	76	77
30	225	480	814	435	---	968	92	53	60	73	82	77
31	343	---	800	430	---	961	---	71	---	76	75	---
TOTAL	5890	18830	15512	17129	11649	31561	16709	1975	3789	3379	2033	2223
MEAN	190	628	500	553	416	1018	557	63.7	126	109	65.6	74.1
MAX	376	787	814	840	1040	1230	1110	93	412	424	83	88
MIN	41	340	428	214	48	891	92	43	41	56	43	30

CAL YR 1984	TOTAL	173897	MEAN	475	MAX	1430	MIN	41
WTR YR 1985	TOTAL	130679	MEAN	358	MAX	1230	MIN	30

LAKES IN ALLEGHENY RIVER BASIN

03013946 Chautauqua Lake at Bemus Point, NY (see station for daily mean elevation).

STREAMS TRIBUTARY TO LAKE ERIE

04213500 CATTARAUGUS CREEK AT GOWANDA, NY
(National stream-quality accounting network station)

LOCATION.--Lat 42°27'50", long 78°56'07", Erie County, Hydrologic Unit 04120102, on right bank 380 ft downstream from bridge on State Highways 39 and 62 at Gowanda, 4.2 mi downstream from South Branch, and 17.8 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--436 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1912; WDR NY-82-3: Drainage area. WRD NY 1971: 1956(M). WRD NY 1974: 1940-42 (M, P).

GAGE.--Water-stage recorder. Datum of gage is 738.85 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1969, at datum 0.11 ft lower.

REMARKS.--Estimated daily discharges: Jan. 7 to Feb. 23. Records good except for estimated daily discharges, which are fair. Diurnal fluctuation at low and medium flow caused by powerplant 20 mi. upstream from station. Gage height telemeter at station.

AVERAGE DISCHARGE.--45 years (water years 1941-85), 738 ft³/s, 23.20 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,600 ft³/s Mar. 7, 1956, gage height, 14.14 ft; minimum, about 6 ft³/s Aug. 21, 1941, result of regulation; minimum gage height, 0.90 ft Oct. 26, 1951; minimum daily discharge, 52 ft³/s Sept. 13, 1945, Aug. 1, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 29	2400	9,580	7.78	Feb. 23	1630	*14,100	*9.31

Minimum discharge, 51 ft³/s Aug. 30, gage height, 1.11 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251	305	611	2270	310	1150	4100	350	402	157	130	99
2	300	414	723	1830	300	1250	2170	339	254	148	117	96
3	258	364	823	1160	300	993	1780	334	219	223	108	81
4	241	319	1020	865	300	768	1880	306	196	194	103	97
5	221	602	659	789	300	2060	1820	300	187	155	101	106
6	209	629	611	691	300	1330	1500	568	184	285	97	115
7	198	532	554	600	300	1000	1270	506	173	441	106	100
8	196	420	554	540	290	4130	1050	388	171	397	112	132
9	204	368	574	480	280	3230	934	327	175	394	100	309
10	206	1710	597	450	280	2000	804	299	162	265	94	198
11	196	1910	1490	440	280	1720	836	280	171	208	110	165
12	190	1320	1470	430	270	4200	785	272	469	181	103	125
13	183	866	3300	430	270	2670	701	267	533	172	96	119
14	187	680	1730	420	260	2060	674	245	398	320	177	109
15	179	638	1420	410	260	1750	626	246	268	399	206	104
16	182	718	1040	400	260	1300	585	246	257	259	217	97
17	181	593	833	390	260	1470	536	244	340	192	136	95
18	193	531	690	380	250	1100	514	246	281	161	111	94
19	193	530	614	380	250	919	661	252	199	151	105	94
20	242	460	796	370	250	1070	1340	241	203	140	96	93
21	217	410	630	360	500	1180	870	381	211	136	92	92
22	237	366	1770	350	980	911	636	317	200	140	94	93
23	259	360	1100	340	7000	1360	548	245	359	135	90	94
24	225	359	771	330	10700	4030	505	219	308	124	90	97
25	210	362	677	330	6610	2470	479	207	215	114	118	101
26	283	348	541	330	2480	1470	467	206	183	151	116	96
27	400	322	573	330	1740	1450	437	214	163	207	108	106
28	309	318	1900	330	1210	5370	424	233	154	141	100	109
29	592	468	4960	320	---	3450	404	227	165	123	98	103
30	480	416	5230	310	---	2080	373	199	168	113	68	97
31	361	---	1910	310	---	2600	---	294	---	118	112	---
TOTAL	7783	17638	40171	17365	36790	62541	29709	8998	7368	6344	3511	3416
MEAN	251	588	1296	560	1314	2017	990	290	246	205	113	114
MAX	592	1910	5230	2270	10700	5370	4100	568	533	441	217	309
MIN	179	305	541	310	250	768	373	199	154	113	68	81
CFSM	.58	1.35	2.97	1.28	3.01	4.63	2.27	.67	.56	.47	.26	.26
IN.	0.66	1.50	3.43	1.48	3.14	5.34	2.53	0.77	0.63	0.54	0.30	0.29

CAL YR 1984 TOTAL 345271 MEAN 943 MAX 12100 MIN 177 CFSM 2.16 IN. 29.46
WTR YR 1985 TOTAL 241634 MEAN 662 MAX 10700 MIN 68 CFSM 1.52 IN. 20.62

04213500 CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1959, 1963-64, 1972 to current year.
CHEMICAL DATA: 1959 (e), 1963 (b), 1972 (a), 1975 (b), 1976-78 (c), 1979-80 (d), 1981-82 (c), 1983-85 (b).
MINOR ELEMENTS DATA: 1972-74 (a), 1975 (b), 1976-77 (c), 1978-85 (b).
ORGANIC DATA: OC--1975 (b), 1976-77 (c), 1978-80 (d), 1981 (c).
NUTRIENT DATA: 1975 (b), 1976-77 (c), 1978-80 (d), 1981-82 (c), 1983-85 (b).
BIOLOGICAL DATA:
Bacterial--1978-80 (d), 1981-82 (c), 1983-85 (b).
Phytoplankton--1978 (b), 1979-80 (c), 1981 (b).
SEDIMENT DATA: 1964 (b), 1978-82 (c), 1983-85 (b).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1958 to September 1959, unpublished; January 1978 to September 1981.
pH: October 1958 to September 1959, unpublished.
WATER TEMPERATURES: October 1958 to September 1959, January 1978 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 952 microsiemens Oct. 7, 1958; minimum daily, 150 microsiemens Feb. 19, 1981.
WATER TEMPERATURES: Maximum daily, 29.0°C Aug. 19, 1978; minimum daily, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 to SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
08...	1500	411	335	8.2	6.0	12	730	11.6	97	310
MAR										
29...	1000	3610	166	7.6	8.0	65	740	11.3	98	K250
JUN										
13...	1530	564	322	8.2	13.0	6.1	740	9.5	93	4200
AUG										
21...	1145	94	461	8.2	20.0	2.0	753	9.1	101	K34

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
08...	68	160	42	50	8.5	11	1.6	118	30	17
MAR										
29...	7700	76	24	24	3.9	4.2	1.1	52	17	7.2
JUN										
13...	680	150	35	46	8.6	10	1.9	116	31	16
AUG										
21...	K10	170	35	50	11	26	2.1	136	42	34

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

04213500 - CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV 08...	<.10	4.0	221	190	.67	.090	1.7	<.010	<.010	<.010
MAR 29...	<.10	3.4	103	92	.87	.120	.60	.020	<.010	<.010
JUN 13...	<.10	4.5	209	190	1.1	.150	.80	.030	<.010	<.010
AUG 21...	<.10	2.3	258	250	.46	.640	1.1	.020	.010	<.010

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 08...	<10	<1	59	<.5	<1	<1	<3	1	17	1
MAR 29...	30	<1	29	<.5	<1	<1	<3	3	44	<1
JUN 13...	130	1	57	<.5	<1	7	<3	<1	20	<1
AUG 21...	30	1	73	<.5	<1	<1	<3	2	3	3

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 08...	<4	11	1.3	<10	2	<1	<1	87	<6	13
MAR 29...	6	9	<.1	<10	1	<1	<1	45	<6	6
JUN 13...	5	6	.1	<10	1	<1	<1	85	<6	17
AUG 21...	18	6	.1	<10	3	<1	<1	110	<6	6

04213500 - CATTARAUGUS CREEK AT GOWANDA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV								
08...	1505	20	3.0	1.0	336	8.2	5.5	11.3
08...	1510	50	3.1	1.0	335	8.2	5.5	11.4
08...	1515	80	3.1	1.0	335	8.2	6.0	11.3
08...	1520	110	2.0	1.0	334	8.2	6.0	11.4
08...	1525	140	1.6	1.0	312	8.2	6.0	11.3
MAR								
29...	1005	20	6.5	3.0	168	7.4	8.0	12.3
29...	1010	40	5.9	3.0	167	7.7	8.0	11.5
29...	1015	60	6.0	3.0	166	7.7	8.0	11.5
29...	1020	80	6.3	3.0	164	7.7	8.0	10.7
29...	1025	100	6.1	3.0	166	7.8	8.0	10.7
JUN								
13...	1535	20	1.2	1.0	322	8.2	12.5	9.4
13...	1540	40	1.7	1.0	320	8.2	12.5	9.4
13...	1545	60	1.8	1.0	322	8.2	12.5	9.5
13...	1550	80	1.6	1.0	322	8.2	12.5	9.5
13...	1555	100	1.8	1.0	322	8.2	12.5	9.6
13...	1600	120	1.5	1.0	322	8.2	13.0	9.7
AUG								
21...	1150	13	.5	.5	461	8.2	20.0	9.1
21...	1155	30	.9	.5	461	8.3	20.0	9.1
21...	1200	47	.5	.5	462	8.2	20.0	9.0
21...	1205	64	.8	.5	462	8.2	20.0	9.2
21...	1210	81	.8	.5	458	8.2	20.0	9.1
21...	1215	98	.8	.5	460	8.2	20.0	9.2

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
08...	1500	411	71	78	87
MAR					
29...	1000	3610	688	6710	89
JUN					
13...	1530	564	119	181	93
AUG					
21...	1145	94	20	5.1	98

STREAMS TRIBUTARY TO LAKE ERIE

0421402001 CATTARAUGUS CREEK BELOW IRVING, NY

LOCATION.--Lat 42°33'53", long 79°07'30", Chautauqua County, Hydrologic Unit 04120102, on left bank at downstream side of Conrail railroad bridge, 0.6 mi west of Irving, and 0.9 mi upstream from mouth.

DRAINAGE AREA.--554 mi².

PERIOD OF RECORD.--February to September 1985.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is International Great Lakes Datum of 1955.

COOPERATION.--Station established and maintained in cooperation with U.S. Army Corps of Engineers, Buffalo District, to evaluate post-breakwater construction magnitude and frequency of peak stages.

EXTREMES FOR CURRENT YEAR.--Maximum elevation during period February to September, 582.46 ft Feb. 25; minimum, 571.10 ft Sept. 25.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	---		---	573.30	572.72	572.37	572.21
2					---	---		---	573.15	572.82	572.34	572.31
3					---	---		---	573.01	572.96	572.49	572.33
4					---	---		---	572.93	572.80	572.50	572.57
5					---	---		---	573.00	572.89	572.50	572.39
6					---	† 572.62		---	572.99	573.04	572.51	572.56
7					---	572.57		---	572.92	573.04	572.65	572.30
8					---	572.94		573.03	572.95	572.99	572.57	572.34
9					---	572.76		573.07	573.23	572.98	572.44	572.41
10					---	572.63		573.15	573.10	572.89	572.47	572.34
11					---	572.57		573.08	572.63	572.84	572.42	572.11
12					---	573.93		573.06	573.12	572.75	572.22	572.12
13					† 572.27	572.90		573.16	573.31	572.71	572.48	572.06
14					† 572.36	572.93		572.97	573.08	573.02	572.48	572.21
15					---	572.89		572.89	573.00	572.94	572.53	572.23
16					---	572.76		573.10	573.12	572.95	572.39	572.17
17					---	572.80		573.10	573.03	572.76	572.24	572.17
18					---	572.29		573.25	573.33	572.72	572.38	572.20
19					---	572.33		573.13	573.27	572.89	572.70	572.19
20					---	572.83		573.22	573.14	572.86	572.50	572.20
21					---	---		573.13	572.93	572.78	572.35	571.99
22					---	---		572.97	573.06	572.88	572.30	571.99
23					---	---		572.88	573.09	572.57	572.32	572.00
24					---	---		572.99	573.03	572.59	572.27	572.55
25					† 582.46	---		573.06	573.04	572.72	572.32	571.97
26					---	---		573.01	572.77	572.83	572.46	572.17
27					---	---		573.05	572.69	572.69	572.62	572.11
28					---	---		572.87	572.74	572.65	572.63	572.11
29					---	---		572.88	572.86	572.69	572.41	571.96
30					---	---		572.96	572.64	572.47	572.42	572.01
31					---	---		573.25	---	572.52	572.07	---
MEAN					---	---		---	573.02	572.81	572.43	572.21
MAX					---	---		---	573.33	573.04	572.70	572.57
MIN					---	---		---	572.63	572.47	572.07	571.96

† - observed instantaneous reading.

04214500 BUFFALO CREEK AT GARDENVILLE, NY

LOCATION.--Lat 42°51'17", long 78°45'19", Erie County, Hydrologic Unit 04120103, on left back 300 ft downstream from bridge on Union Road in Gardenville, 2 mi upstream from Cayuga Creek, and 10.1 mi upstream from mouth.

DRAINAGE AREA.--142 mi².

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1337: 1939-52. WSP 1912; WDR NY-82-3: Drainage area. WRD NY-78-1: 1939-1976 (P).

GAGE.--Water-stage recorder. Datum of gage is 603.65 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 26, 1968, water-stage recorder at site 400 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Nov. 20-23, Dec. 5-11, 25-28, Jan. 4 to Feb. 23, Feb. 27 to Mar. 7, Mar. 16, 18, 19. Records good except estimated daily discharges with ice effect, which are fair. Gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--47 years, 200 ft³/s, 19.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s Mar. 1, 1955, Mar. 7, 1956, from rating curve extended above 3,200 ft³/s on basis of slope-area measurement at gage height 7.07 ft; maximum gage height, 14.34 ft Mar. 21, 1978 (ice jam); minimum discharge, 0.2 ft³/s Sept. 1, 1964; minimum gage height, 0.58 ft Aug. 22, 23, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,750 ft³/s and maximum (*);

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 30	0230	*8,260	8.03	Feb. 23	2230	7,620	7.74
Feb. 23	0800	ice jam	*b9.30	Mar. 31	2400	4,400	6.00

b Backwater from ice.

Minimum discharge, 8.5 ft³/s Aug. 22, 23, gage height, 0.58 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	54	150	1630	130	320	1880	68	288	30	18	23
2	108	64	237	740	120	540	562	64	99	25	18	17
3	82	86	330	328	120	300	467	62	61	24	15	14
4	63	87	346	200	120	170	639	59	47	23	13	13
5	51	176	150	160	110	1200	544	59	41	30	13	29
6	45	158	120	150	110	480	403	422	39	45	11	33
7	42	104	110	140	120	300	308	306	36	56	26	23
8	42	74	170	110	110	1710	244	145	34	49	21	74
9	41	64	200	86	110	872	246	95	33	42	15	271
10	42	255	200	80	110	491	200	78	31	33	12	142
11	41	437	520	82	110	450	214	68	30	26	12	73
12	39	296	469	90	120	1530	208	65	200	22	12	43
13	39	178	1330	100	110	886	174	63	221	21	14	30
14	38	140	402	90	120	630	159	53	128	32	13	25
15	36	123	349	110	130	550	148	49	71	61	12	22
16	36	167	244	130	200	330	136	48	74	120	13	19
17	35	173	196	120	160	502	117	49	77	45	23	18
18	37	207	154	110	140	280	108	54	60	28	16	16
19	43	260	135	100	130	230	168	61	44	23	13	15
20	94	140	172	90	120	294	326	57	49	22	11	15
21	82	88	139	64	150	356	175	63	51	20	10	15
22	71	72	781	90	1000	232	129	72	42	18	9.2	14
23	67	88	313	120	4000	248	108	49	43	21	8.8	13
24	54	97	191	130	6680	556	96	41	42	18	9.7	14
25	48	118	140	130	2900	541	92	37	37	15	21	13
26	52	100	90	120	726	280	91	37	31	17	17	13
27	104	81	110	130	520	256	84	38	27	51	20	16
28	79	77	620	140	300	1300	81	88	26	31	17	15
29	74	163	3450	130	---	797	81	84	28	20	16	18
30	86	120	3170	130	---	437	74	50	31	17	19	15
31	63	---	522	140	---	1120	---	136	---	17	19	---
TOTAL	1791	4247	15510	5970	18776	18188	8262	2620	2021	1002	467.7	1061
MEAN	57.8	142	500	193	671	587	275	84.5	67.4	32.3	15.1	35.4
MAX	108	437	3450	1630	6680	1710	1880	422	288	120	26	271
MIN	35	54	90	64	110	170	74	37	26	15	8.8	13
CFSM	.41	1.00	3.52	1.36	4.73	4.13	1.94	.60	.47	.23	.11	.25
IN.	0.47	1.11	4.06	1.56	4.92	4.76	2.16	0.69	0.53	0.26	0.12	0.28

CAL YR 1984 TOTAL 103877 MEAN 284 MAX 3710 MIN 11 CFSM 2.00 IN. 27.21
WTR YR 1985 TOTAL 79915.7 MEAN 219 MAX 6680 MIN 8.8 CFSM 1.54 IN. 20.94

STREAMS TRIBUTARY TO LAKE ERIE

04215000 CAYUGA CREEK NEAR LANCASTER, NY

LOCATION.--Lat 42°53'24", long 78°38'43", Erie County, Hydrologic Unit 04120103, on right bank 150 ft upstream from low dam in Como Lake Park, 700 ft downstream from bridge on Bowen Road, 800 ft downstream from Little Buffalo Creek, 2 mi southeast of Lancaster, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--96.4 mi².

PERIOD OF RECORD.--September 1938 to September 1968. October 1971 to April 1974 (peak discharges only). May 1974 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and low concrete dam as control. Datum of gage is 672.02 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 5, 7-10, Jan. 4 to Feb. 23. Records good except estimated daily discharges with ice effect, which are poor. Since August 1962, undetermined amount of flow diverted by Lancaster Country Club for irrigation upstream from station. Concrete dam configuration modified in September 1974 resulting in a lower point of zero flow. Gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--41 years (water years 1939-68, 1975-85) 130 ft³/s, 18.31 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,440 ft³/s Sept. 14, 1979, gage height, 10.48 ft; maximum gage height, 12.58 ft Mar. 30, 1960 (ice jam); practically no flow part of Aug. 8, 9, 1939, when stoplogs were installed in the dam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 29	2215	*7,770	*9.58	Mar. 31	2230	3,020	6.92
Feb. 23	2045	a6,500	b9.31				

a About.
b Backwater from ice.

Minimum discharge, 1.9 ft³/s Aug. 21, 22, gage height, 2.51 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	19	103	1310	54	241	1120	30	204	11	6.8	16
2	37	23	159	507	54	399	320	27	65	8.7	6.1	10
3	30	31	282	236	54	238	305	26	32	6.8	5.0	7.6
4	23	39	250	160	52	146	382	24	23	8.9	3.8	6.2
5	19	94	130	140	52	874	399	24	18	9.1	3.2	20
6	16	87	109	120	50	329	272	308	16	18	3.1	31
7	14	52	94	100	50	224	198	240	14	26	10	17
8	14	34	100	84	50	1040	164	101	12	22	10	180
9	14	28	110	78	49	516	168	51	11	18	5.8	1190
10	14	86	120	72	49	315	141	36	10	13	4.0	307
11	14	210	321	68	52	298	148	27	9.7	9.6	3.4	199
12	13	160	297	66	58	1080	140	23	123	8.0	3.4	90
13	12	97	524	66	54	643	111	20	147	7.1	3.2	50
14	12	74	210	64	52	415	94	16	80	8.9	3.3	34
15	15	61	228	62	50	344	85	15	37	43	3.6	25
16	11	78	170	60	50	242	75	14	45	148	3.4	20
17	11	96	141	58	50	309	62	14	108	33	2.9	17
18	12	129	105	56	52	207	56	15	58	18	2.6	14
19	13	189	86	54	54	175	84	29	28	12	2.5	12
20	21	97	100	52	58	213	207	23	24	12	2.1	11
21	25	62	83	50	110	207	116	28	36	11	2.0	9.7
22	24	43	502	47	220	155	78	27	24	10	2.0	9.0
23	29	50	202	45	2300	169	58	16	24	9.6	2.1	8.6
24	22	60	144	44	5830	269	48	18	19	7.6	2.1	7.7
25	18	100	129	44	1990	278	45	21	13	6.3	5.3	7.7
26	21	73	89	45	508	172	45	9.4	11	5.2	6.1	10
27	35	52	73	47	362	164	40	11	9.4	12	6.5	8.9
28	30	47	506	48	243	702	38	46	8.2	9.8	19	9.2
29	25	116	3100	49	---	436	39	45	9.5	6.3	194	8.1
30	26	74	2010	52	---	247	31	18	13	4.5	35	6.5
31	22	---	341	54	---	832	---	57	---	5.0	26	---
TOTAL	610	2361	10818	3938	12607	11879	5069	1359.4	1231.8	528.4	388.3	2342.2
MEAN	19.7	78.7	349	127	450	383	169	43.9	41.1	17.0	12.5	78.1
MAX	37	210	3100	1310	5830	1080	1120	308	204	148	194	1190
MIN	11	19	73	44	49	146	31	9.4	8.2	4.5	2.0	6.2
CFSM	.20	.82	3.62	1.32	4.67	3.97	1.75	.46	.43	.18	.13	.81
IN.	0.24	0.91	4.17	1.52	4.86	4.58	1.96	0.52	0.48	0.20	0.15	0.90

CAL YR 1984 TOTAL 60236.1 MEAN 165 MAX 3100 MIN 5.1 CFSM 1.71 IN. 23.24
WTR YR 1985 TOTAL 53132.1 MEAN 146 MAX 5830 MIN 2.0 CFSM 1.51 IN. 20.50

04215500 CAZENOVIA CREEK AT EBENEZER, NY

LOCATION.--Lat 42°49'47", long 78°46'31", Erie County, Hydrologic Unit 04120103, on right bank 30 ft upstream from bridge on Ridge Road in Ebenezer, 4.0 mi upstream from mouth, and 5 mi southeast of Buffalo.

DRAINAGE AREA.--135 mi².

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

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1973: 1972 (M). WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.86 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 4, 1955, at datum 2.00 ft higher. Apr. 4 to Oct. 12, 1955, nonrecording gage at temporary site 1.3 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 24-27, Jan. 4 to Feb. 23, June 21-24, Aug. 28, Sept. 7, 13, 26. Records good except estimated daily discharges with ice effect Jan. 4 to Feb. 23, which are poor. Gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--45 years (water years 1941-85), 231 ft³/s, 23.24 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,500 ft³/s Mar. 1, 1955, gage height, 15.82 ft present datum, from rating curve extended above 7,700 ft³/s; minimum, 2.6 ft³/s Nov. 7, 1953; minimum gage height, 1.87 ft June 28,

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 29	2345	*9,420	*11.86	Mar 31	2245	4,000	7.85
Feb. 23	2100	8,410	11.21				

Minimum discharge, 10 ft³/s Aug. 24, gage height, 1.96 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	51	182	1610	120	292	1850	64	47	24	22	16
2	95	86	259	675	110	538	582	61	42	21	18	15
3	72	100	428	285	110	307	480	59	38	25	15	13
4	57	113	407	160	110	196	607	55	35	19	14	15
5	47	279	254	130	100	1380	669	53	32	25	13	37
6	40	224	186	110	100	463	478	557	29	61	13	25
7	37	136	1010	100	100	266	325	265	26	54	33	16
8	35	94	2030	92	100	1960	225	125	90	46	20	102
9	35	78	2020	82	100	923	203	89	242	44	14	137
10	35	587	1640	74	100	535	160	76	240	38	13	46
11	33	654	597	82	110	516	177	65	113	27	13	31
12	30	413	433	90	120	2080	189	60	79	22	12	22
13	29	241	1280	100	110	910	150	55	89	20	14	17
14	29	182	373	94	120	627	138	49	91	48	13	15
15	29	158	295	110	130	504	131	51	62	134	13	15
16	27	286	178	120	190	328	119	48	48	115	14	14
17	27	224	138	110	150	436	107	52	55	46	23	13
18	28	268	107	100	130	270	102	74	51	29	15	13
19	31	269	92	92	120	213	124	54	49	23	12	13
20	90	148	124	80	110	260	237	41	60	21	12	13
21	69	108	98	66	250	336	154	35	54	19	11	14
22	60	96	672	90	600	218	114	32	46	18	11	14
23	54	100	238	110	4000	313	103	34	47	19	11	14
24	46	94	130	120	6920	955	93	54	48	16	12	14
25	40	115	100	120	2840	639	85	87	41	14	30	14
26	50	97	88	110	718	320	82	54	31	24	23	15
27	129	80	98	130	516	361	78	47	26	84	17	20
28	80	79	814	130	300	2140	74	422	24	37	16	15
29	79	182	4080	120	---	1070	72	165	25	22	14	17
30	87	115	3160	120	---	560	68	78	25	21	20	16
31	60	---	541	120	---	1260	---	58	---	25	16	---
TOTAL	1613	5657	22052	5532	18484	21176	7976	3019	1885	1141	497	741
MEAN	52.0	189	711	178	660	683	266	97.4	62.8	36.8	16.0	24.7
MAX	129	654	4080	1610	6920	2140	1850	557	242	134	33	137
MIN	27	51	88	66	100	196	68	32	24	14	11	13
CFSM	.39	1.40	5.27	1.32	4.89	5.06	1.97	.72	.47	.27	.12	.18
IN.	0.44	1.56	6.08	1.52	5.09	5.84	2.20	0.83	0.52	0.31	0.14	0.20

CAL YR 1984 TOTAL 116587 MEAN 319 MAX 4080 MIN 19 CFSM 2.36 IN. 32.13
WTR YR 1985 TOTAL 89773 MEAN 246 MAX 6920 MIN 11 CFSM 1.82 IN. 24.74

LAKE ERIE

04215900 LAKE ERIE AT BUFFALO, NY

LOCATION.--Lat 42°52'39", long 78°53'26", Erie County, Hydrologic Unit 04120200, near outer end of Buffalo River South Pier, at Buffalo.

DRAINAGE AREA.--263,700 mi².

PERIOD OF RECORD.--January 1860 to current year. Records prior to October 1960 in files of Lake Survey Center.

REVISED RECORDS.--WDR NY-75-1: 1974.

GAGE.--Water-stage recorder. Elevations are in feet International Great Lakes Datum (1955). Prior to Feb. 5, 1899, nonrecording gages.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 579.09 ft Nov. 3, 1955; minimum, 564.17 ft Mar. 10, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 576.69 ft Mar. 12; minimum elevation, 569.00 ft Dec. 14.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571.55	571.97	572.32	572.08	571.52	572.31	574.46	573.01	573.46	572.81	572.54	572.37
2	571.94	572.01	571.28	571.81	571.50	572.33	573.48	572.89	573.23	572.93	572.46	572.42
3	572.70	571.31	572.67	571.63	571.55	571.71	573.50	573.17	573.06	573.09	572.62	572.50
4	571.88	571.68	572.48	571.81	571.46	571.59	572.98	573.25	572.99	572.89	572.61	572.77
5	571.27	571.87	571.29	572.03	571.20	573.59	573.21	573.50	573.09	573.02	572.65	572.53
6	571.29	571.73	571.89	572.23	571.54	572.44	574.75	573.39	573.06	573.17	572.67	572.74
7	571.64	571.48	572.40	572.62	571.80	572.46	573.30	573.44	572.98	573.20	572.80	572.43
8	571.68	571.56	572.24	571.90	571.75	572.80	573.39	573.11	573.04	573.04	572.70	572.45
9	571.63	571.67	571.22	571.80	571.55	572.60	573.47	573.19	573.35	573.07	572.56	572.51
10	571.62	571.70	571.24	571.16	571.44	572.62	573.52	573.26	573.19	573.05	572.60	572.40
11	571.50	572.29	571.33	571.71	571.25	572.57	573.41	573.14	572.64	573.00	572.51	572.15
12	571.54	571.89	571.45	573.17	570.76	573.90	573.16	573.13	573.28	572.88	572.28	572.20
13	571.62	571.65	571.26	572.98	572.12	572.79	573.07	573.27	573.44	572.84	572.65	572.17
14	571.56	571.54	570.57	572.98	572.33	572.88	573.24	573.01	573.17	573.26	572.58	572.33
15	571.42	572.36	571.42	572.19	571.85	572.85	573.30	572.99	573.05	573.14	572.64	572.33
16	571.55	573.36	571.45	571.62	571.66	572.73	573.38	573.16	573.25	573.06	572.48	572.27
17	571.66	572.30	571.58	572.15	571.93	572.87	573.18	573.17	573.14	572.90	572.34	572.29
18	571.54	571.69	571.59	571.95	571.59	572.74	573.53	573.35	573.46	572.88	572.61	572.33
19	571.73	571.30	571.76	573.70	571.86	572.69	573.35	573.28	573.42	573.09	572.83	572.31
20	571.74	571.49	572.16	574.49	571.55	572.76	573.28	573.35	573.26	573.01	572.63	572.34
21	571.77	571.36	571.03	574.74	571.56	572.46	573.34	573.20	573.00	572.96	572.46	572.03
22	571.57	571.36	573.31	572.64	571.66	572.39	573.32	573.03	573.18	572.98	572.41	572.11
23	571.61	571.63	571.98	572.86	571.68	572.51	573.28	572.93	573.24	572.72	572.45	572.13
24	571.62	571.96	571.69	571.85	572.02	572.34	573.26	573.08	573.08	572.77	572.37	572.72
25	571.42	571.67	572.67	571.76	571.95	572.65	573.55	573.15	573.14	572.90	572.45	571.98
26	571.76	571.42	571.50	571.88	572.07	572.73	573.35	573.08	572.81	572.99	572.59	572.39
27	571.58	571.34	571.35	571.76	572.36	572.88	573.27	573.11	572.67	572.84	572.84	572.15
28	571.70	572.02	571.88	571.59	572.32	572.87	573.33	572.86	572.82	572.79	572.81	572.26
29	571.41	571.64	571.87	571.46	---	573.03	573.29	572.92	572.94	572.83	572.51	572.08
30	571.58	571.57	571.53	571.35	---	572.53	573.28	573.06	572.69	572.51	572.50	572.17
31	571.07	---	571.13	571.45	---	572.36	---	573.46	---	572.27	572.14	---
MEAN	571.62	571.76	571.73	572.24	571.71	572.64	573.41	573.16	573.10	572.93	572.56	572.33
MAX	572.70	573.36	573.31	574.74	572.36	573.90	574.75	573.50	573.46	573.26	572.84	572.77
MIN	571.07	571.30	570.57	571.16	570.76	571.59	572.98	572.86	572.64	572.27	572.14	571.98

CAL YR 1984 MEAN 571.92 MAX 573.36 MIN 570.55
WTR YR 1985 MEAN 572.44 MAX 574.75 MIN 570.57

04216000 NIAGARA RIVER AT BUFFALO, NY

LOCATION.--Lat 42°52'40", long 78°55'00", Erie County, Hydrologic Unit 04120104, at head of Niagara River at Buffalo, and 34.3 mi upstream from mouth.

DRAINAGE AREA.--263,700 mi².

PERIOD OF RECORD.--January 1860 to September 1960 (monthly discharges only published in WSP 1912), October 1960 to current year. Records of January 1926 to September 1960 daily discharges available in files of U.S. Department of Commerce and U.S. Geological Survey.

REVISED RECORDS.--WSP 1912: 1862(M), 1955 (M), 1936 (M), WDR NY-77-1: Drainage area.

GAGE.--Discharge determined from several powerplants at Niagara Falls and discharge over the falls. Discharge before 1926 determined from records of Corps of Engineers gages at Buffalo and Cleveland.

REMARKS.--Records do not include water diverted from Lake Michigan by Illinois and Michigan Canal during period of its operation prior to 1910 and by Chicago Sanitary and Ship Canal, which began operation in 1900, and from Lake Erie by Welland and New York State Canals before 1918. Records include water diverted into Lake Superior from Hudson Bay drainage by the Long Lake project, which began operation in July 1939, and by the Ogoki project, which began operation in July 1943. Figures of monthly mean discharge for 1860 to 1960 and daily discharge for 1961 to 1965, published in WSP 1912, are the official records of the U.S. Lake Survey, and have been coordinated with and concurred by the counterpart Canadian agencies, as have been the extremes for period of record through December 1976 and records October 1977 to current year.

COOPERATION.--Records of daily discharge furnished by Detroit District Corps of Engineers and Canada Department of the Environment.

AVERAGE DISCHARGE.--125 years, 204,900 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 299,000 ft³/s Nov. 17, 1955; minimum daily, 90,000 ft³/s Jan. 13, 1964, Aug. 29, 1984. Maximum monthly mean discharge, 264,700 ft³/s May 1974; minimum monthly mean, 116,200 ft³/s February 1936.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 286,000 ft³/s Apr. 1; minimum daily, 170,000 ft³/s Jan. 31.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216000	218000	231000	234000	178000	232000	286000	256000	271000	244000	232000	237000
2	224000	229000	218000	233000	178000	233000	272000	251000	264000	246000	234000	238000
3	244000	214000	233000	228000	180000	224000	262000	259000	258000	249000	239000	239000
4	225000	219000	238000	225000	176000	209000	262000	263000	256000	247000	238000	244000
5	214000	223000	218000	226000	173000	260000	262000	268000	258000	244000	238000	240000
6	212000	222000	219000	236000	182000	235000	283000	267000	257000	251000	239000	244000
7	219000	216000	234000	232000	196000	236000	244000	268000	254000	252000	244000	240000
8	220000	216000	239000	237000	188000	252000	263000	260000	256000	247000	241000	240000
9	220000	221000	218000	222000	190000	248000	252000	259000	262000	246000	239000	240000
10	219000	224000	213000	216000	187000	246000	258000	262000	257000	247000	239000	237000
11	217000	231000	213000	216000	186000	245000	266000	261000	251000	246000	238000	232000
12	216000	228000	216000	244000	176000	264000	258000	260000	255000	244000	233000	233000
13	221000	223000	216000	253000	198000	247000	257000	262000	263000	243000	238000	230000
14	219000	220000	198000	250000	208000	245000	257000	257000	261000	250000	238000	236000
15	216000	230000	217000	234000	202000	242000	265000	254000	258000	248000	241000	237000
16	217000	256000	217000	221000	198000	233000	270000	260000	260000	247000	237000	233000
17	219000	236000	220000	227000	202000	242000	264000	258000	259000	243000	236000	234000
18	220000	227000	218000	220000	199000	224000	262000	264000	266000	242000	238000	235000
19	222000	213000	220000	253000	203000	234000	260000	262000	263000	245000	245000	234000
20	223000	215000	232000	277000	198000	238000	246000	264000	260000	245000	241000	235000
21	222000	215000	213000	281000	201000	229000	268000	260000	256000	244000	236000	229000
22	221000	219000	249000	202000	206000	225000	269000	256000	260000	245000	235000	229000
23	219000	227000	235000	214000	217000	237000	266000	253000	258000	237000	236000	231000
24	219000	223000	223000	189000	232000	234000	269000	255000	256000	238000	236000	241000
25	216000	218000	234000	179000	244000	224000	270000	260000	256000	241000	239000	233000
26	223000	215000	228000	180000	238000	240000	257000	258000	249000	243000	239000	232000
27	221000	214000	214000	180000	240000	244000	268000	259000	246000	242000	245000	229000
28	223000	224000	222000	176000	235000	247000	268000	250000	245000	241000	247000	235000
29	216000	221000	233000	173000	---	242000	273000	253000	250000	241000	240000	231000
30	219000	219000	226000	172000	---	238000	268000	255000	244000	235000	240000	231000
31	213000	---	218000	170000	---	234000	---	260000	---	230000	231000	---
TOTAL	6815000	6676000	6923000	6800000	5611000	7383000	7925000	8034000	7709000	7563000	7392000	7059000
MEAN	219800	222500	223300	219400	200400	238200	264200	259200	257000	244000	238500	235300
MAX	244000	256000	249000	281000	244000	264000	286000	268000	271000	252000	247000	244000
MIN	212000	213000	198000	170000	173000	209000	244000	250000	244000	230000	231000	229000

CAL YR 1984 TOTAL 82848000 MEAN 226400 MAX 256000 MIN 190000
WTR YR 1985 TOTAL 85890000 MEAN 235300 MAX 286000 MIN 170000

ST. LAWRENCE RIVER MAIN STEM

04216052 BLACK ROCK CANAL AT PORTER AVENUE, BUFFALO, NY

LOCATION.--Lat 42°53'52", long 78°54'07", Erie County, Hydrologic Unit 04120104, on right bank at U. S. Navy Installation at Porter Avenue, Buffalo and 0.6 mi upstream from Peace bridge.

DRAINAGE AREA.--263,700 mi².

PERIOD OF RECORD.--October 1984 to September 1985.

GAGE.--Water-stage recorder. Datum of gage is International Great Lakes datum of 1955.

EXTREMES FOR CURRENT YEAR.--Maximum recorded elevation, 575.32 ft Apr. 1; minimum recorded 568.93 Dec. 14.

ELEVATION, (FEET IGLD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	572.15	572.08	---			---	574.88	---	573.62	572.94	572.59	572.47
2	573.07	572.04	---			---	---	---	573.38	573.05	572.58	572.58
3	572.11	571.41	---			---	---	---	573.21	573.19	572.76	572.62
4	571.67	571.76	---			---	---	---	573.12	573.00	572.75	572.91
5	571.56	571.97	---			---	---	---	573.22	573.10	572.76	572.66
6	571.79	571.82	---			---	---	---	573.18	573.27	572.78	572.87
7	571.96	571.56	---			---	---	---	573.10	573.26	572.93	572.57
8	571.92	571.63	---			---	---	---	573.14	573.14	572.83	572.60
9	571.86	571.77	---			---	---	---	573.41	573.17	572.69	572.64
10	571.82	571.81	---			---	---	---	573.29	573.14	572.72	572.52
11	571.77	572.37	571.23			---	---	---	572.75	573.11	572.64	572.29
12	571.83	571.51	570.77			---	---	---	573.22	572.99	572.42	572.32
13	571.88	571.37	571.24			572.90	---	---	573.44	572.98	572.75	572.26
14	571.74	571.34	570.22			572.94	---	---	573.28	573.33	572.73	572.47
15	571.74	572.36	570.68			573.00	---	573.18	573.18	573.20	572.76	572.48
16	571.76	572.02	571.31			572.94	---	573.24	573.32	573.17	572.63	572.42
17	571.88	571.26	571.93			573.08	---	573.22	573.22	573.00	572.48	572.42
18	571.74	571.72	571.01			572.97	---	573.43	573.53	572.98	572.69	572.47
19	572.23	570.98	---			572.99	---	573.33	573.50	573.18	573.00	572.46
20	571.59	570.76	---			573.08	---	573.50	573.32	573.13	572.75	572.48
21	572.32	570.75	---			572.75	---	573.37	573.12	573.05	572.51	572.21
22	571.71	570.80	---			572.50	---	573.24	573.28	573.13	572.77	572.22
23	571.80	571.44	---			572.66	---	573.18	573.30	572.81	572.58	572.29
24	571.85	571.42	---			572.48	---	573.31	573.23	572.88	572.49	572.84
25	571.68	571.52	---			572.75	---	573.36	573.23	573.03	572.58	572.22
26	571.96	571.43	---			572.87	---	573.28	572.93	573.09	572.72	572.46
27	571.80	571.35	---			573.07	---	573.32	572.83	572.96	572.93	572.30
28	571.94	572.06	---			573.08	---	573.04	572.93	572.91	572.95	572.39
29	571.57	571.50	---			573.08	---	573.12	573.04	572.96	572.64	572.24
30	571.70	571.58	---			572.69	---	573.23	572.82	572.67	572.66	572.30
31	571.15	---	---			572.44	---	573.51	---	572.44	572.26	---
MEAN	571.86	571.58	---			---	---	---	573.20	573.04	572.69	572.47
MAX	573.07	572.37	---			---	---	---	573.62	573.33	573.00	572.91
MIN	571.15	570.75	---			---	---	---	572.75	572.44	572.26	572.21

ST. LAWRENCE RIVER MAIN STEM

04216060 NIAGARA RIVER AT BIRD ISLAND, BUFFALO, NEW YORK

LOCATION.--Lat 42°54'53", long 78°54'12", Erie County, Hydrologic Unit 04120104, at Anderson Park dock at foot of Ferry Street on Bird Island, Buffalo, 0.6 mi downstream from head of river.

DRAINAGE AREA.--263,700 mi².

PERIOD OF RECORD.--October 1984 to September 1985.

GAGE.--Water-stage recorder. Datum of gage is International Great Lakes Datum of 1955.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, about 570.50 ft Jan. 21; minimum, 564.71 ft, Dec. 14.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	566.20	566.29	---	566.69	567.96	567.09	568.81	567.37	567.86	567.00	566.69	566.71
2	566.47	566.75	---	---	567.97	567.03	568.07	567.29	567.40	567.11	566.75	566.89
3	567.25	566.02	---	---	567.93	566.63	567.86	567.52	567.26	567.20	566.87	566.83
4	566.46	566.27	---	---	568.08	566.00	567.30	567.53	567.22	567.06	566.86	567.09
5	566.03	566.52	---	---	567.92	568.18	567.36	567.58	567.32	567.11	566.89	566.88
6	565.96	566.36	---	---	567.92	567.35	569.08	567.58	567.24	567.23	566.92	567.09
7	566.23	566.13	---	---	567.94	567.24	568.01	567.67	567.12	567.26	567.08	566.82
8	566.27	566.13	---	---	567.97	567.30	567.82	567.37	567.15	567.16	566.97	---
9	566.29	566.29	---	---	567.93	567.16	567.62	567.33	567.43	567.17	566.85	---
10	566.25	566.28	---	---	567.82	567.11	567.71	567.46	567.46	567.19	566.86	---
11	566.17	566.74	---	---	567.46	567.02	567.70	567.32	567.07	567.18	566.86	---
12	566.20	566.66	565.96	---	566.94	568.31	567.38	567.31	---	567.04	566.68	---
13	566.26	566.35	566.00	---	567.83	567.51	567.24	567.47	567.75	566.98	566.88	---
14	566.20	566.10	565.34	---	568.49	567.21	567.33	567.31	567.48	567.31	566.93	---
15	566.10	566.55	565.95	---	568.07	567.22	567.50	567.18	567.27	567.26	567.01	---
16	566.19	567.81	565.93	---	567.85	567.05	567.63	567.23	567.33	567.27	566.87	---
17	566.23	566.95	566.40	---	567.99	567.13	567.46	567.22	567.25	567.03	566.73	---
18	566.23	566.47	566.27	---	567.71	567.05	567.69	567.37	567.53	566.98	566.84	---
19	566.23	565.82	566.35	---	567.78	566.97	567.59	567.29	567.49	567.19	567.45	---
20	566.38	565.97	566.79	---	567.57	567.05	567.71	567.50	567.48	567.14	566.95	---
21	566.28	565.96	565.65	---	567.26	566.87	567.73	567.34	567.27	567.01	566.84	---
22	566.31	566.05	567.57	---	567.22	566.66	567.70	567.22	567.36	567.20	566.84	---
23	566.25	566.59	566.69	---	567.21	566.80	567.77	567.12	567.35	566.88	566.83	---
24	566.23	566.30	566.39	---	567.57	566.65	567.74	567.24	567.40	566.88	566.79	---
25	566.10	566.09	567.12	---	567.17	566.88	567.98	567.25	567.38	567.02	566.86	567.35
26	566.36	566.00	566.50	---	567.12	567.05	567.99	567.19	567.09	567.11	567.06	567.10
27	566.13	565.83	565.93	---	567.36	567.14	567.88	567.26	567.00	567.03	567.19	566.66
28	566.31	566.10	566.38	568.08	567.36	567.11	567.95	567.06	566.98	566.94	567.15	566.71
29	566.08	---	566.67	568.10	---	567.07	567.79	567.17	567.08	566.97	566.88	566.53
30	566.12	---	566.33	567.92	---	567.07	567.58	567.23	566.91	566.79	566.94	566.55
31	565.73	---	566.04	568.04	---	566.63	---	567.46	---	566.63	566.57	---
MEAN	566.24	---	---	---	567.69	567.08	567.77	567.34	---	567.08	566.90	---
MAX	567.25	---	---	---	568.49	568.31	569.08	567.67	---	567.31	567.45	---
MIN	565.73	---	---	---	566.94	566.00	567.24	567.06	---	566.63	566.57	---

NIAGARA RIVER BASIN

04216200 SCAJAQUADA CREEK AT BUFFALO, NY

LOCATION.--Lat 42°54'41", long 78°47'45", Erie County, Hydrologic Unit 04120104, on right bank 58 ft upstream from point where stream goes underground in concrete-lined tunnel, 86 ft upstream from Pine Ridge Road, 0.2 mi east of boundary line of city of Buffalo, and 6.2 mi upstream from mouth.

DRAINAGE AREA.--15.4 mi².

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

REVISED RECORDS.--WSP 1912; WDR NY-82-3: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 626.26 ft above National Geodetic Vertical Datum of 1929 (city of Buffalo bench mark).

REMARKS.--Estimated daily discharges: Dec. 5-7, 25-27, Jan. 9 to Feb. 12, Feb. 15-22, 26, 27. Records good except estimated daily discharges with ice effect Jan. 9 to Feb. 12, which are fair. Prior to July 1982 discharge included flow diverted from Lake Erie and Niagara River as sewage-plant effluent entering basin upstream from station. Gage height telemeter at station. Several measurements of water temperature were made during the year.

COOPERATION.--Town of Cheektowaga maintains records of sewage-plant discharge.

AVERAGE DISCHARGE.--28 years, 34.0 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,620 ft³/s Aug. 7, 1963, gage height, 14.38 ft; minimum, 1.2 ft³/s Sept. 12, 13, 1982, July 4, 1985, gage height, 1.36 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 29	1645	859	6.45	Mar. 28	1215	815	6.23
Jan. 1	0845	713	5.70	Mar. 31	2330	615	5.18
Feb. 23	1930	*1,220	*8.21				

Minimum discharge, 1.2 ft³/s July 4, gage height, 1.36.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	19	10	236	3.5	30	156	4.0	20	3.0	5.6	4.5
2	7.7	43	5.2	38	3.5	64	23	4.0	5.7	3.0	3.1	5.7
3	4.2	4.4	42	14	3.5	23	40	3.7	4.2	3.0	2.7	3.4
4	3.2	33	14	8.5	3.5	25	26	3.6	3.7	2.8	2.4	3.3
5	2.8	24	6.0	6.9	3.5	208	72	4.4	3.5	5.3	2.4	6.3
6	2.3	8.2	5.2	5.9	3.5	54	25	120	3.2	28	2.6	4.0
7	2.4	4.6	5.0	5.2	3.5	29	12	43	3.1	3.7	65	3.1
8	2.6	3.5	5.1	6.0	3.5	215	11	11	3.1	12	7.1	35
9	2.7	7.4	11	4.8	3.5	52	8.4	6.8	2.9	4.2	3.4	33
10	2.7	38	17	4.5	3.5	32	6.6	4.8	2.8	4.3	2.8	19
11	2.6	63	25	4.2	4.5	30	6.2	4.1	6.3	3.3	4.8	8.1
12	2.7	24	22	4.1	10	257	5.6	3.8	130	4.4	2.7	4.6
13	2.3	14	23	4.0	27	72	5.2	3.6	19	3.2	2.8	3.9
14	2.1	8.7	14	3.8	18	32	4.9	3.5	7.2	14	2.9	3.3
15	2.3	9.3	20	3.8	15	24	4.9	3.9	7.4	4.9	3.2	3.1
16	2.5	9.7	12	3.8	14	14	4.8	4.8	38	9.6	3.5	3.0
17	2.6	5.5	9.4	3.8	13	17	4.3	4.4	26	4.0	2.6	3.1
18	4.1	10	7.0	3.8	13	11	4.5	24	15	3.0	2.4	3.0
19	3.1	7.9	8.0	3.8	12	8.9	26	9.8	5.3	4.1	2.2	2.7
20	2.9	4.9	10	3.8	12	9.8	14	7.8	17	8.3	25	2.8
21	3.4	4.1	29	3.8	12	8.5	7.5	18	13	3.5	2.6	2.6
22	3.4	3.3	101	3.7	240	7.4	5.6	4.3	16	2.8	2.8	2.6
23	2.5	3.1	17	3.6	804	7.3	5.4	4.0	9.3	2.7	2.5	2.6
24	2.4	3.2	10	3.6	688	30	5.0	3.5	4.0	2.7	12	3.4
25	2.6	3.0	8.0	3.6	153	18	4.6	3.3	3.8	2.8	69	2.8
26	8.8	3.1	4.8	3.6	47	9.7	4.3	5.7	3.5	6.6	17	3.0
27	3.2	3.1	4.8	3.6	37	21	4.0	4.6	3.4	3.5	6.7	8.3
28	2.5	6.7	71	3.6	24	199	5.6	15	3.4	2.6	68	2.9
29	3.0	5.3	426	3.6	---	39	4.4	5.5	3.8	2.4	22	2.4
30	2.5	3.6	116	3.5	---	16	4.2	3.9	3.3	2.8	98	2.5
31	2.4	---	21	3.5	---	181	---	84	---	13	11	---
TOTAL	113.5	380.6	1079.5	408.4	2178.5	1744.6	511.0	426.8	386.9	173.5	438.3	188.0
MEAN	3.66	12.7	34.8	13.2	77.8	56.3	17.0	13.8	12.9	5.60	14.1	6.27
MAX	19	63	426	236	804	257	156	120	130	28	98	35
MIN	2.1	3.0	4.8	3.5	3.5	7.3	4.0	3.3	2.8	2.4	2.2	2.4

CAL YR 1984 TOTAL 8190.7 MEAN 22.4 MAX 438 MIN 1.7
WTR YR 1985 TOTAL 8029.6 MEAN 22.0 MAX 804 MIN 2.1

04216218 BLACK ROCK CANAL AT BLACK ROCK LOCK, BUFFALO, NEW YORK

LOCATION.--Lat 42°56'01", long 78°54'18", Erie County, Hydrologic Unit 04120104, at Black Rock Lock adjacent to U.S. Army Corps of Engineers installation at foot of Hamilton Street, Buffalo and 0.2 mi downstream from International railroad bridge.

DRAINAGE AREA.--263,700 mi².

PERIOD OF RECORD.--October 1984 to September 1985.

GAGE.--Water stage recorder. Datum of gage is International Great Lake Datum of 1955.

EXTREMES FOR CURRENT YEAR.--Estimated maximum daily elevation about 575.00 ft Apr. 6; estimated minimum daily elevation about 570.50 ft Dec. 14.

ELEVATION (FEET IGLD), WATER YEAR 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571.41	572.18	---	---	571.48	---	---		---	572.95	572.44	572.34
2	571.70	572.34	---	---	571.48	---	---		---	572.91	572.43	572.43
3	572.70	571.73	---	---	571.50	---	---		---	573.02	572.62	---
4	571.92	572.08	---	---	571.45	---	---		---	572.83	572.61	---
5	571.40	572.28	---	---	571.21	---	---		---	572.91	572.61	---
6	571.31	572.00	---	---	571.50	---	575.00		---	---	572.65	---
7	571.73	571.67	---	---	571.92	---	---		---	---	572.80	---
8	571.88	571.77	---	---	571.76	---	---		---	---	572.69	---
9	571.77	572.03	---	---	571.60	---	---		---	---	572.56	---
10	571.61	572.24	---	---	571.49	---	---		---	---	572.58	---
11	571.44	572.05	571.32	---	571.44	---	---		---	---	572.49	---
12	571.53	---	571.44	---	571.46	---	---		---	---	572.28	---
13	571.63	---	571.45	---	572.14	572.92	---		---	---	572.60	---
14	571.65	---	570.50	---	572.29	573.03	---		---	---	572.59	---
15	571.61	---	---	---	571.85	572.92	---		---	---	572.61	---
16	571.67	---	---	---	572.08	572.79	---		---	---	572.48	---
17	571.78	---	---	---	571.97	572.90	---		---	---	572.34	---
18	571.70	---	---	---	571.60	572.73	---		---	572.86	572.54	---
19	571.85	---	---	---	---	572.86	---		---	573.04	572.86	---
20	571.87	---	---	---	---	572.97	---		---	572.98	572.61	---
21	572.22	---	---	---	---	572.52	---		---	572.89	572.43	---
22	571.78	---	---	---	---	572.49	---		---	572.99	572.40	---
23	571.62	---	---	---	---	572.74	---		---	572.66	572.44	---
24	571.71	---	---	---	---	572.71	---		---	572.73	572.35	---
25	571.47	---	---	---	---	572.77	---		573.09	572.89	572.43	---
26	571.82	---	---	---	---	572.86	---		572.75	572.94	572.57	---
27	571.88	---	---	---	---	572.94	---		573.18	572.81	572.80	---
28	571.88	---	---	---	---	573.11	---		573.11	---	572.81	---
29	571.40	---	---	571.34	---	---	---		573.03	---	572.50	---
30	571.60	---	---	571.35	---	---	---		572.98	572.47	572.51	---
31	571.12	---	---	571.42	---	---	---		---	572.29	572.11	---
MEAN	571.70	---	---	---	---	---	---		---	---	572.54	---
MAX	572.70	---	---	---	---	---	---		---	---	572.86	---
MIN	571.12	---	---	---	---	---	---		---	---	572.11	---

ST. LAWRENCE RIVER MAIN STEM

04216220 NIAGARA RIVER AT BLACK ROCK LOCK, BUFFALO, NEW YORK

LOCATION.--Lat 42°56'02", long 78°54'17", Erie County, Hydrologic Unit 04120104, at Black Rock Lock adjacent to U.S. Army Corps of Engineers installation at foot of Hamilton Street, Buffalo and 0.2 mi downstream from International railroad bridge.

DRAINAGE AREA.--263,700 mi².

PERIOD OF RECORD.--October 1984 to September 1985.

GAGE.--Water-stage recorder. Datum of gage is International Great Lakes Datum of 1955.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 569.38 ft Jan. 21; minimum, 563.25 ft Dec. 14.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	565.20	565.22	---	565.39	567.67	566.30	567.62	566.17	566.90	565.95	565.53	565.59
2	565.44	565.78	---	565.61	567.66	566.18	567.00	566.06	566.36	566.08	565.61	565.71
3	566.25	565.03	---	565.50	567.60	565.84	566.70	566.27	566.20	566.17	565.74	565.71
4	565.43	565.28	---	565.31	567.77	564.95	566.16	566.31	566.13	566.01	565.74	565.96
5	565.08	565.47	---	565.50	567.61	567.11	566.15	566.35	566.21	566.04	565.76	565.76
6	564.95	565.38	---	565.92	567.55	566.38	567.90	566.34	566.20	566.17	565.78	565.97
7	565.18	565.15	---	565.77	567.53	566.26	567.05	566.38	566.12	566.19	565.91	565.71
8	565.25	565.15	---	565.80	567.59	566.25	566.71	566.12	566.11	566.10	565.82	565.74
9	565.27	565.33	---	565.31	567.55	566.11	566.51	566.10	566.43	566.11	565.72	565.80
10	565.21	565.27	---	564.77	567.45	566.04	566.59	566.22	566.53	566.12	565.74	565.72
11	565.15	---	564.76	564.76	567.03	565.94	566.51	566.08	566.11	566.10	565.73	565.54
12	565.18	---	564.83	566.19	566.51	567.19	566.22	566.05	566.23	565.95	565.55	565.56
13	565.22	---	564.89	566.48	567.30	566.52	566.04	566.21	566.56	565.91	565.73	565.46
14	565.18	---	564.06	566.42	568.03	566.09	566.09	566.07	566.41	566.21	565.80	565.64
15	565.08	---	564.81	565.93	567.63	566.09	566.26	565.85	566.19	566.16	565.84	565.64
16	565.14	---	564.77	565.19	567.42	565.94	566.36	566.15	566.23	566.14	565.73	565.58
17	565.18	---	565.15	565.51	567.52	566.01	566.22	566.17	566.21	565.95	565.62	565.61
18	565.19	---	565.14	565.53	567.24	565.93	566.53	566.31	566.51	565.89	565.70	565.67
19	565.17	---	565.18	566.62	567.29	565.84	566.46	566.24	566.49	566.08	566.03	565.65
20	565.36	---	565.72	567.88	567.10	565.87	566.63	566.46	566.33	566.04	565.82	565.69
21	565.23	---	564.61	568.80	566.72	565.73	566.66	566.28	566.14	565.92	565.72	565.46
22	565.32	---	566.39	567.61	566.69	565.50	566.61	566.17	566.19	566.08	565.72	---
23	565.19	---	565.67	---	566.62	565.59	566.65	566.10	566.17	565.77	565.72	---
24	565.19	---	565.34	---	566.98	565.43	566.62	566.21	566.26	565.78	565.68	---
25	565.08	---	566.00	---	566.47	565.69	566.90	566.23	566.29	565.90	565.75	---
26	565.32	---	565.57	---	566.39	565.92	566.91	566.18	566.06	565.96	565.79	---
27	565.09	---	564.84	---	566.60	566.03	566.79	566.23	565.96	565.91	565.94	---
28	565.25	---	565.27	---	566.62	566.08	566.84	566.03	565.95	565.81	566.03	---
29	565.01	---	565.62	567.64	---	566.00	566.63	566.13	566.02	565.82	565.74	---
30	565.01	---	565.28	567.62	---	566.07	566.32	566.21	565.88	565.66	565.81	---
31	564.75	---	565.05	567.78	---	565.41	---	566.46	---	565.48	565.44	---
MEAN	565.21	---	---	---	567.22	566.01	566.62	566.20	566.25	565.98	565.75	---
MAX	566.25	---	---	---	568.03	567.19	567.90	566.46	566.90	566.21	566.03	---
MIN	564.75	---	---	---	566.39	564.95	566.04	565.85	565.88	565.48	565.44	---

04216418 TONAWANDA CREEK AT ATTICA, NY

LOCATION.--Lat 42°51'50", long 78°17'02", Wyoming County, Hydrologic Unit 04120104, on right bank behind Village Hall and fire station, 150 ft downstream from bridge on State Highway 238 (Main Street) at Attica, and 0.4 mi upstream from Tannery Creek.

DRAINAGE AREA.--76.9 mi².

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

REVISED RECORDS.--WDR NY-79-1: 1978 (M). WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder, crest-stage gages, and concrete weir. Datum of gage is 954.63 ft above National Geodetic Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 4-8, 24-27, Jan. 4, 5, 8-10, Jan. 12 to Feb. 23, Feb. 28 to Mar. 1, Mar. 3, 4, 6, and 7. Records good except for estimated daily discharges with ice effect, which are fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--8 years, 117 ft³/s, 20.66 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,700 ft³/s Dec. 29, 1984, gage height, 9.25 ft; maximum gage height, 12.40 ft Feb. 18, 1979 (backwater from ice); minimum discharge, 5.4 ft³/s July 27, 28, 29, 1983; minimum gage height, 3.34 ft July 27, 28, 29, 1983 and Aug. 14, 15, 16, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, about 6,000 ft³/s June 23, 1972, gage height, about 12.0 ft present site and datum, from information supplied by Village of Attica.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 29	1700	*4,700	*9.25	Mar. 12	0945	1,280	5.79
Jan. 1	0830	1,510	6.10	Mar. 28	1645	1,510	6.10
Feb. 23	2045	a2,600	b8.18	Mar. 31	2000	2,930	7.66

a About.
b Backwater from ice.

Minimum daily discharge, 6.1 ft³/s Aug. 14, 15, 16, gage height, 3.34 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	33	80	813	72	180	787	41	121	20	9.5	25
2	49	37	110	283	64	259	313	41	50	20	9.5	20
3	49	44	138	172	60	160	270	39	36	18	9.5	14
4	45	37	130	100	58	110	300	34	32	17	9.5	19
5	41	47	86	90	54	485	316	33	29	14	9.5	40
6	35	54	70	88	54	230	233	237	29	21	9.5	34
7	35	47	60	89	52	150	176	164	25	36	9.5	24
8	33	39	70	70	52	745	146	85	23	30	9.5	52
9	32	33	86	68	56	386	136	59	22	29	9.5	357
10	32	61	80	64	60	271	109	49	21	23	9.5	115
11	33	142	190	64	70	288	113	42	20	20	7.1	81
12	32	120	229	62	80	772	113	41	123	16	7.1	46
13	32	76	546	60	90	387	103	38	84	16	7.1	35
14	30	66	203	60	80	288	99	35	61	14	6.6	29
15	29	56	196	60	70	240	91	30	41	43	6.1	25
16	29	49	141	58	64	190	85	30	41	38	12	23
17	27	49	111	56	68	216	76	30	53	23	12	21
18	27	49	90	54	70	152	64	30	40	18	7.2	16
19	27	59	78	54	72	131	140	37	31	16	7.1	14
20	51	51	81	54	70	187	168	36	28	14	7.7	14
21	42	44	78	56	90	162	102	51	27	14	8.3	14
22	39	32	361	58	120	117	81	43	27	14	8.3	14
23	37	32	138	64	1500	145	70	32	27	14	8.3	14
24	33	32	94	64	2630	218	65	30	26	13	7.1	13
25	30	44	76	66	835	181	56	29	23	12	7.1	12
26	35	51	66	70	383	138	54	27	20	13	7.1	12
27	47	44	60	72	276	237	53	27	20	36	7.1	12
28	44	40	602	68	180	915	48	55	20	21	7.1	12
29	40	94	2550	64	---	473	47	46	20	18	90	12
30	40	64	695	64	---	290	46	33	20	11	30	12
31	37	---	274	70	---	882	---	68	---	10	39	---
TOTAL	1129	1626	7769	3135	7330	9585	4460	1572	1140	622	394.4	1131
MEAN	36.4	54.2	251	101	262	309	149	50.7	38.0	20.1	12.7	37.7
MAX	51	142	2550	813	2630	915	787	237	123	43	90	357
MIN	27	32	60	54	52	110	46	27	20	10	6.1	12
CFSM	.47	.70	3.26	1.31	3.41	4.02	1.94	.66	.49	.26	.17	.49
IN.	0.55	0.79	3.76	1.52	3.55	4.64	2.16	0.76	0.55	0.30	0.19	0.55

CAL YR 1984 TOTAL 49608 MEAN 136 MAX 2550 MIN 15 CFSM 1.77 IN. 24.00
WTR YR 1985 TOTAL 39893.4 MEAN 109 MAX 2630 MIN 6.1 CFSM 1.42 IN. 19.30

04216500 LITTLE TONAWANDA CREEK AT LINDEN, NY

LOCATION.--Lat 42°52'37", long 78°09'48", Genesee County, Hydrologic Unit 04120104, on right bank at upstream side of bridge on County Highway 13A (Depot Road) in Linden and 9.3 mi upstream from mouth.

DRAINAGE AREA.--22.1 mi².

PERIOD OF RECORD.--July 1912 to November 1919, April 1920 to September 1968, October 1977 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Concrete control since Oct. 15, 1930. Datum of gage is 1,081.62 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 26, 1943, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Jan. 3 to Feb. 21 and Feb. 28 to Mar. 6. Records good except for estimated daily discharges, which are fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--63 years (water years 1913-19, 1921-68, 1978-85), 27.4 ft³/s, 16.84 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,700 ft³/s Mar. 7, 1956, gage height, 16.04 ft, from high-water mark; minimum, 0.08 ft³/s Aug. 3, 4, 1955; minimum gage height, -0.14 ft Jan. 17, 1966 (siphonic action).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 530 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 29	2030	*1,880	*11.90	Mar. 31	2215	1,010	7.79
Feb. 24	1530	1,100	8.21				

Minimum discharge, 0.27 ft³/s Feb. 15, gage height, 0.16 ft (siphonic action).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	6.6	20	252	9.6	54	317	11	33	4.7	1.3	.63
2	12	8.9	22	131	9.4	50	107	10	13	4.6	1.0	.63
3	8.3	8.8	26	60	9.0	41	96	9.8	7.7	5.1	1.1	.61
4	7.3	7.5	29	38	8.6	30	99	9.2	5.9	3.9	.90	.70
5	6.2	9.8	19	34	8.4	110	91	8.4	4.3	2.3	.94	.80
6	5.7	11	19	30	7.8	76	72	32	3.7	3.1	.94	.79
7	4.7	8.8	20	29	7.6	56	52	36	3.2	3.2	1.2	.67
8	4.5	7.3	21	26	7.4	254	44	20	2.6	2.8	.99	1.6
9	4.4	6.9	19	23	7.2	138	44	14	2.9	2.9	.80	9.2
10	4.7	11	21	21	6.8	86	38	11	2.2	3.4	.80	6.3
11	4.9	23	39	19	7.8	81	39	9.8	2.0	2.1	.85	4.4
12	4.5	21	42	18	8.4	195	33	9.5	27	1.8	.78	3.0
13	4.8	15	108	17	6.4	133	28	8.2	20	1.7	.76	2.0
14	4.3	12	50	15	3.0	100	27	7.0	13	2.7	.73	1.4
15	3.8	11	49	14	1.4	83	25	6.4	7.9	5.7	.75	1.2
16	3.1	12	36	13	6.0	60	22	6.2	9.0	6.2	.66	1.2
17	3.1	12	30	12	6.4	66	18	5.6	31	4.2	.54	1.2
18	2.9	12	24	18	7.0	44	18	5.3	13	2.2	.47	1.2
19	3.8	15	21	16	7.8	38	62	9.8	8.2	1.8	.51	1.1
20	8.1	11	22	15	8.8	47	60	7.0	6.9	1.7	.44	.86
21	6.4	11	19	14	9.6	39	34	10	7.3	1.5	.44	.82
22	7.9	8.0	96	13	26	33	25	8.1	5.6	1.2	.40	.88
23	7.1	8.3	44	13	400	36	21	5.9	5.5	1.1	.38	.78
24	5.7	9.9	31	13	939	51	19	5.0	3.7	1.1	.52	.72
25	4.9	12	28	12	409	50	17	4.4	3.5	1.1	.69	.65
26	7.9	11	20	12	126	40	16	3.7	3.1	1.8	.62	.58
27	9.9	11	19	12	90	49	14	4.2	3.4	1.3	.73	.77
28	8.1	10	92	11	58	174	14	18	4.0	1.1	.66	.77
29	8.8	23	726	10	---	130	14	12	5.4	.86	.52	.69
30	8.1	16	452	10	---	73	12	6.0	4.6	.81	.54	.61
31	7.0	---	101	10	---	224	---	15	---	.92	.65	---
TOTAL	189.5	350.8	2265	931	2202.4	2641	1478	328.5	262.6	78.89	22.61	46.76
MEAN	6.11	11.7	73.1	30.0	78.7	85.2	49.3	10.6	8.75	2.54	.73	1.56
MAX	12	23	726	252	939	254	317	36	33	6.2	1.3	9.2
MIN	2.9	6.6	19	10	1.4	30	12	3.7	2.0	.81	.38	.58
CFSM	.28	.53	3.31	1.36	3.56	3.86	2.23	.48	.40	.11	.03	.07
IN.	0.32	0.59	3.81	1.57	3.71	4.45	2.49	0.55	0.44	0.13	0.04	0.08

CAL YR 1984 TOTAL 14620.3 MEAN 39.9 MAX 760 MIN 1.2 CFSM 1.81 IN. 24.61
WTR YR 1985 TOTAL 10797.06 MEAN 29.6 MAX 939 MIN .38 CFSM 1.34 IN. 18.17

04217000 TONAWANDA CREEK AT BATAVIA, NY
(National stream-quality accounting network station)

LOCATION.--Lat 42°59'51", long 78°11'20", Genesee County, Hydrologic Unit 04120104, on right bank 150 ft downstream from municipal dam, 500 ft upstream from bridge on Walnut Street in Batavia, and 5.0 mi downstream from Little Tonawanda Creek. Water-quality sampling site at discharge station.

DRAINAGE AREA.--171 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1627: 1956-57. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 876.33 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 11 to Feb. 22 and Mar. 18-28. Records good except for estimated daily discharges with ice effect Jan. 11 to Feb. 22, which are fair. Diversion upstream from station by city of Batavia for municipal supply; sewage, which may include water from municipal and industrial wells upstream from gage, enters creek downstream from gage. Gage height telemeter at station. Several measurements of water temperature were made during the year.

COOPERATION.--City of Batavia maintains records of diversion.

AVERAGE DISCHARGE.--41 years, 210 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,200 ft³/s Mar. 31, 1960, gage height, 12.70 ft; maximum gage height, 13.85 ft Apr. 6, 1947; minimum discharge, 0.4 ft³/s Aug. 5-7, 1955; minimum gage height, 0.59 ft July 26, 27, 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.--From records of city of Batavia, maximum stage, 14.5 ft in March 1942.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 30	1230	5,320	11.59	Apr. 1	1600	2,520	7.62
Feb. 25	0500	*6,050	*12.45				

Minimum discharge, 5.2 ft³/s Aug. 22, gage height, 1.24 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	63	114	951	78	442	1880	90	296	32	17	38
2	89	61	212	1480	74	513	1310	85	156	27	18	25
3	88	87	166	790	68	409	698	82	87	23	15	19
4	75	72	351	373	66	283	732	77	64	26	13	17
5	64	77	207	305	66	584	710	74	55	29	9.4	36
6	59	108	170	252	64	808	598	146	52	23	11	46
7	57	84	159	235	64	496	444	402	47	49	15	34
8	51	68	134	193	64	725	331	226	42	41	15	64
9	49	61	179	165	62	1160	317	143	39	37	11	250
10	49	63	171	160	62	1100	279	111	38	33	9.6	304
11	52	179	292	160	62	640	276	94	32	30	9.9	169
12	51	231	345	160	64	768	266	82	93	24	7.8	93
13	47	150	611	150	68	1210	232	78	217	21	8.2	62
14	46	117	587	130	74	898	208	68	145	23	7.6	48
15	44	101	375	120	74	626	195	62	92	36	7.5	38
16	42	98	316	110	74	442	179	58	78	119	11	32
17	40	115	254	100	70	464	165	57	165	54	20	26
18	41	110	203	96	68	360	150	56	124	35	9.7	22
19	47	121	173	88	66	310	202	67	80	28	7.1	20
20	62	128	177	84	64	340	515	70	61	26	7.3	19
21	82	94	160	74	80	390	303	65	64	24	6.9	17
22	66	77	427	82	120	300	215	92	58	20	9.0	14
23	73	72	458	86	537	280	171	62	54	21	17	14
24	63	77	261	90	4140	340	149	52	50	17	11	14
25	56	86	222	94	5610	440	133	46	41	13	21	14
26	56	107	131	94	2230	320	125	42	36	14	24	13
27	93	87	158	84	873	350	117	43	30	33	22	14
28	83	80	241	82	498	700	108	66	27	31	20	19
29	72	156	1100	80	---	1110	108	123	27	19	54	19
30	80	139	4530	84	---	802	101	66	34	14	51	14
31	68	---	2150	84	---	540	---	65	---	14	46	---
TOTAL	1904	3069	15034	7036	15440	18150	11217	2850	2384	936	512.0	1514
MEAN	61.4	102	485	227	551	585	374	91.9	79.5	30.2	16.5	50.5
MAX	93	231	4530	1480	5610	1210	1880	402	296	119	54	304
MIN	40	61	114	74	62	280	101	42	27	13	6.9	13

CAL YR 1984 TOTAL 101879 MEAN 278 MAX 4530 MIN 18
WTR YR 1985 TOTAL 80046.0 MEAN 219 MAX 5610 MIN 6.9

04217000 TONAWANDA CREEK AT BATAVIA, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1978 to current year.
CHEMICAL DATA: 1971 (a), 1978 (c), 1980 (d), 1981-82 (c), 1983-85 (b).
MINOR ELEMENT DATA: 1978-85 (b).
ORGANIC DATA: OC--1978-80 (c), 1981 (b).
NUTRIENT DATA: 1971 (a), 1978 (c), 1979-80 (d), 1981-82 (c), 1983-85 (b).
BIOLOGICAL DATA:
Bacteria--1978 (c), 1979-80 (d), 1981 (b), 1982 (c), 1983-85 (b).
Phytoplankton--1978 (b), 1979-80 (c), 1981 (b).
SEDIMENT DATA: 1978 (c), 1979-80 (d), 1981-82 (c), 1983-85 (b).

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

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 850 microsiemens Mar. 14, 1978; minimum daily, 200 microsiemens Feb. 20, 1981.
WATER TEMPERATURES: Maximum daily, 27.0°C July 15, 19, 1979, July 19, 21, 1980; minimum daily, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV										
08...	1000	69	436	8.0	6.0	3.5	735	11.0	92	110
MAR										
28...	1030	670	332	8.0	8.0	55	730	11.1	98	K10000
JUN										
12...	0830	43	541	7.6	17.5	5.0	730	7.4	81	520
AUG										
20...	1430	7.9	531	8.1	22.5	1.5	755	9.3	109	320

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV										
08...	K66	210	69	62	13	13	2.3	140	28	26
MAR										
28...	7900	140	47	43	8.7	13	1.5	96	23	21
JUN										
12...	850	220	40	64	14	25	2.5	178	31	45
AUG										
20...	30	230	38	66	16	22	3.1	193	34	34

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

04217000 TONAWANDA CREEK AT BATAVIA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV 08...	<.10	3.3	284	230	.45	<.010	1.6	<.010	<.010	.010
MAR 28...	.10	3.7	209	170	1.3	.070	.90	.040	.010	.010
JUN 12...	.20	2.7	326	290	.89	.070	1.0	.050	.020	<.010
AUG 20...	<.10	1.7	296	290	.32	.060	.70	.020	.020	.020

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 08...	10	<1	61	<.5	<1	<1	<3	3	30	3
MAR 28...	20	1	39	<.5	<1	1	<3	5	18	<1
JUN 12...	<10	1	71	2.3	<1	<1	<3	1	16	<1
AUG 20...	<10	3	80	<.5	<1	<1	<3	2	15	3

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 08...	<4	40	.7	<10	2	<1	<1	150	<6	4
MAR 28...	16	18	<.1	<10	2	<1	<1	94	<6	7
JUN 12...	20	54	<.1	<10	<1	<1	<1	160	<6	11
AUG 20...	8	120	.3	<10	3	<1	<1	190	<6	7

04217000 TONAWANDA CREEK AT BATAVIA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV								
08...	1005	10	1.3	1.0	435	8.0	6.0	10.5
08...	1010	20	1.6	1.0	436	8.0	6.0	10.6
08...	1015	30	1.8	1.0	436	8.0	6.0	10.7
08...	1020	40	1.7	1.0	436	8.0	6.0	10.8
08...	1025	50	1.7	1.0	437	7.7	6.5	10.7
MAR								
28...	1035	20	3.8	2.0	334	7.7	8.0	10.8
28...	1040	35	5.0	2.0	330	7.7	8.0	11.0
28...	1045	50	4.0	2.0	327	7.7	8.0	10.8
28...	1050	65	4.0	2.0	333	7.6	8.0	11.5
28...	1055	80	3.4	2.0	338	7.3	8.0	11.6
JUN								
12...	0835	20	1.4	1.0	538	7.6	17.5	7.2
12...	0840	30	1.9	1.0	544	7.6	17.5	7.3
12...	0845	40	2.3	1.0	544	7.6	17.5	7.4
12...	0850	50	1.3	1.0	541	7.6	17.5	7.6
AUG								
20...	1435	6	.4	.4	531	8.1	22.5	9.3
20...	1440	10	.4	.4	531	8.1	22.5	9.0
20...	1445	14	.5	.5	528	8.1	22.5	9.2
20...	1450	18	.5	.5	530	8.1	22.5	9.1
20...	1455	22	.4	.4	532	8.1	22.5	9.1

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
08...	1000	69	31	5.8	70
MAR					
28...	1030	670	239	432	98
JUN					
12...	0830	43	12	1.4	95
AUG					
20...	1430	7.9	8	0.2	77

04217500 TONAWANDA CREEK NEAR ALABAMA, NY

LOCATION.--Lat 43°05'28", long 78°27'15", Genesee County, Hydrologic Unit 04120104, on right bank 15 ft downstream from bridge on Meadville Road, 0.4 mi downstream from inoperable canal feeder connecting Tonawanda and Oak Orchard Creeks, 1.1 mi upstream from small tributary, and 3.2 mi west of Alabama.

DRAINAGE AREA.--231 mi².

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WSP 1912: Drainage area. WRD NY 1974: 1973. WDR NY-75-1: 1959 (P).

GAGE.--Water-stage recorder. Datum of gage is 605.93 ft above National Geodetic Vertical Datum of 1929. Prior to October 1965, nonrecording gage at same site and datum.

REMARKS.--Estimated daily discharges: Nov. 22, Dec. 5-9, 24-28, Jan. 7 to Feb. 28, Mar. 3-7, 7-19. Records good except estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--30 years, 284 ft³/s, 16.70 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,980 ft³/s Mar. 31, 1960, gage height, 14.28 ft; maximum gage height, 15.95 ft Jan. 23, 1959 (ice jam); minimum daily, 7.7 ft³/s Sept. 14, 15, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,100 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 31	0500	5,840	13.05	Feb. 25	1400	*7,140	13.49
Feb. 24	2030	ice jam	*14.09	Apr. 2	0330	2,580	11.33

Minimum discharge, 10 ft³/s Aug. 23, 24, gage height, 4.90 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	79	145	1560	150	794	1680	122	195	42	21	48
2	83	87	179	1810	150	806	2060	109	295	43	21	49
3	114	81	218	1410	150	780	1120	103	137	38	22	36
4	99	107	335	711	150	540	981	99	90	34	21	30
5	87	104	300	486	140	640	984	95	72	32	19	37
6	75	116	190	389	140	1100	944	120	63	36	16	46
7	70	126	160	330	140	920	741	452	56	37	17	54
8	67	101	180	280	130	1010	552	391	51	55	19	60
9	63	87	190	220	130	1610	475	218	46	53	20	136
10	61	86	202	210	130	1330	434	154	43	47	18	464
11	61	143	234	200	140	917	382	127	42	43	15	216
12	63	259	447	210	150	991	382	109	79	40	15	141
13	62	216	563	210	150	1580	332	96	223	37	14	88
14	58	156	860	200	140	1350	288	89	197	34	12	66
15	56	132	535	180	140	1020	269	78	141	34	13	55
16	53	121	479	170	130	781	248	71	110	59	14	47
17	52	130	351	170	140	680	223	66	175	102	13	42
18	53	138	281	180	150	620	202	64	218	58	17	38
19	53	134	233	160	150	490	203	64	137	42	19	33
20	60	158	212	150	140	482	599	76	96	36	14	30
21	85	123	215	130	150	526	554	78	81	31	12	28
22	90	100	301	120	180	450	341	80	77	28	12	27
23	80	86	764	140	540	380	252	87	71	25	11	25
24	83	92	410	140	2100	431	211	63	63	24	11	24
25	73	96	290	150	6400	605	185	55	59	24	16	24
26	68	126	220	160	5020	521	166	51	50	21	22	23
27	71	118	220	160	1530	426	157	50	45	21	30	24
28	107	104	230	160	990	664	146	53	41	28	23	26
29	93	105	979	160	---	1280	137	98	40	40	21	26
30	85	195	3240	150	---	1220	135	110	38	28	40	29
31	91	---	4670	150	---	863	---	80	---	23	61	---
TOTAL	2291	3706	17833	10856	19750	25807	15383	3508	3031	1195	599	1972
MEAN	73.9	124	575	350	705	832	513	113	101	38.5	19.3	65.7
MAX	114	259	4670	1810	6400	1610	2060	452	295	102	61	464
MIN	52	79	145	120	130	380	135	50	38	21	11	23
CFSM	.32	.54	2.49	1.52	3.05	3.60	2.22	.49	.44	.17	.08	.28
IN.	0.37	0.60	2.87	1.75	3.18	4.16	2.48	0.56	0.49	0.19	0.10	0.32

CAL YR 1984 TOTAL 136403 MEAN 373 MAX 4670 MIN 27 CFSM 1.61 IN. 21.97
WTR YR 1985 TOTAL 105931 MEAN 290 MAX 6400 MIN 11 CFSM 1.26 IN. 17.06

04217750 MURDER CREEK NEAR AKRON, NY

LOCATION.--Lat 43°02'49", long 78°30'47", Erie County, Hydrologic Unit 04120104, on left bank at downstream side of bridge on State Highway 93, 2.0 mi northwest of Akron and 5.7 mi upstream from mouth.

DRAINAGE AREA.--58.8 mi^2.

PERIOD OF RECORD.--Occasional low flow discharge measurements, water years 1964-65. November 1982 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 623.78 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 18 to Dec. 12, Dec. 24-28, Jan. 3 to Feb. 24, and Mar. 1-10, 18-27. Records good except for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 3,000 ft^3/s Feb. 25, 1985, gage height, 7.16 ft; minimum, 1.4 ft^3/s Sept. 21, 1985, gage height, 1.48 ft.

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

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Dec. 31	0530	1,020	5.00	Feb. 25	1030	*3,000	*7.16

Minimum discharge, 1.4 ft^3/s Sept. 21, gage height, 1.48 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	10	32	506	13	250	302	27	18	13	5.0	2.1
2	11	12	50	428	13	200	379	25	30	13	4.3	2.0
3	9.8	16	60	200	13	150	261	22	28	12	3.8	3.1
4	9.8	23	70	110	13	130	203	21	19	10	3.7	3.4
5	10	30	58	70	13	150	214	20	14	9.1	4.1	3.8
6	11	45	50	50	12	160	200	26	11	10	3.9	3.7
7	9.9	35	42	35	12	180	177	47	10	10	6.4	2.4
8	9.1	25	34	30	12	250	133	74	8.5	13	6.6	2.0
9	9.5	18	30	27	12	320	102	57	7.7	12	4.9	8.6
10	9.0	23	27	24	13	290	87	38	8.2	10	3.8	6.0
11	7.7	35	25	22	14	236	79	31	8.0	9.7	2.6	6.3
12	7.5	70	45	20	14	241	71	28	24	9.9	3.8	13
13	7.5	60	69	18	13	324	63	25	35	7.6	4.3	9.3
14	7.5	45	77	17	13	346	57	22	55	12	4.3	5.1
15	7.5	35	82	16	13	256	54	19	48	9.4	4.3	3.2
16	7.5	40	70	15	13	207	51	17	50	8.9	4.6	3.6
17	7.3	45	66	14	13	168	46	14	66	8.0	3.3	3.3
18	8.0	60	57	13	13	130	43	12	74	7.3	2.0	3.5
19	9.0	52	48	13	14	100	44	14	62	7.1	2.5	3.2
20	12	40	43	12	14	90	67	15	44	6.3	3.4	2.9
21	11	32	39	12	30	80	107	19	37	4.8	3.5	1.8
22	9.0	26	60	12	50	74	86	15	33	4.8	3.3	2.0
23	8.0	30	81	12	400	70	59	14	31	4.5	3.5	3.6
24	7.0	35	90	11	1120	64	46	12	27	4.1	3.0	3.4
25	6.6	40	50	11	2710	70	40	10	24	4.1	5.0	3.4
26	6.2	35	43	11	1340	80	35	8.7	21	4.7	5.4	3.5
27	6.0	32	40	12	543	88	29	9.0	17	4.1	5.1	3.6
28	8.0	29	45	12	345	115	27	9.7	16	3.0	3.5	2.3
29	12	27	164	12	---	169	27	9.6	15	4.1	2.9	1.8
30	11	28	510	13	---	203	27	17	13	4.5	3.1	3.3
31	10	---	888	13	---	179	---	19	---	4.8	2.3	---
TOTAL	277.4	1033	3045	1771	6798	5370	3116	697.0	854.4	245.8	122.2	119.2
MEAN	8.95	34.4	98.2	57.1	243	173	104	22.5	28.5	7.93	3.94	3.97
MAX	12	70	888	506	2710	346	379	74	74	13	6.6	13
MIN	6.0	10	25	11	12	64	27	8.7	7.7	3.0	2.0	1.8
CFSM	.15	.59	1.67	.97	4.13	2.94	1.77	.38	.48	.13	.07	.07
IN.	0.18	0.65	1.93	1.12	4.30	3.40	1.97	0.44	0.54	0.16	0.08	0.08

CAL YR 1984 TOTAL 25876.5 MEAN 70.7 MAX 1130 MIN 4.1 CFSM 1.20 IN. 16.37
WTR YR 1985 TOTAL 23449.0 MEAN 64.2 MAX 2710 MIN 1.8 CFSM 1.09 IN. 14.84

NIAGARA RIVER BASIN

04218000 TONAWANDA CREEK AT RAPIDS, NY

LOCATION.--Lat 43°05'35", long 78°38'11", Niagara County, Hydrologic Unit 04120104, on right bank at downstream side of bridge on Rapids Road at Rapids, 4.6 mi east of Pendleton, 4.9 mi downstream from Beeman Creek, and 5.9 mi upstream from Mud Creek.

DRAINAGE AREA.--349 mi^2, includes 0.76 mi^2 in Mud Creek from which flow is diverted into Black Creek.

PERIOD OF RECORD.--August 1955 to September 1965, March 1978 to September 1979 (seasonal gage-height records only), October 1979 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 571.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges Dec. 6-8, 26-28, Jan. 7 to Feb. 23, Mar. 5-7, Mar. 12 to May 13. Records good except for period of no gage-height record, Mar. 12 to May 13, which is fair and periods with ice effect, Dec. 6-8, 26-28, Jan. 7 to Feb. 23, Mar. 5-7, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--6 years (water years 1956-65, 1980-85) 377 ft^3/s, 14.67 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,280 ft^3/s Apr. 1, 1960, gage height, 16.96 ft; minimum 4.5 ft^3/s July 28, 1983, gage height, 0.91 ft.

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

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 1	1730	4,380	13.70	Apr. 3	unknown	2,640	9.65
Feb. 26	1500	*6,240	*16.38				

Minimum discharge, 18 ft^3/s Aug. 23, 24, gage height, 1.10 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	104	203	4120	230	2030	1100	180	115	52	37	61
2	94	102	169	3770	220	1440	1900	180	242	55	34	50
3	100	106	222	2800	210	1320	2300	170	272	56	32	50
4	127	102	250	2150	200	1170	1400	160	156	52	32	39
5	115	128	359	1260	200	940	1200	160	106	47	32	36
6	102	133	300	760	190	1200	1100	160	86	46	29	38
7	91	147	210	560	190	1500	1100	160	74	48	28	44
8	84	152	190	430	180	1660	1000	480	66	51	28	52
9	80	127	204	330	180	1930	860	720	61	69	30	68
10	76	119	223	280	190	2140	720	420	56	69	30	163
11	73	132	237	270	190	1910	620	270	52	64	28	366
12	71	215	318	260	200	1500	540	200	67	58	25	224
13	71	305	478	260	210	1500	500	150	119	54	22	143
14	71	254	650	250	200	2000	480	131	271	51	22	94
15	68	196	809	250	190	1800	410	117	244	52	22	69
16	65	171	609	240	180	1500	370	102	182	52	21	56
17	63	158	506	230	180	1200	340	93	260	81	22	47
18	61	161	408	220	200	960	300	92	352	104	21	41
19	62	164	343	210	210	780	270	91	325	71	21	37
20	62	166	299	200	220	680	260	88	214	57	25	33
21	65	180	276	180	210	620	560	100	156	50	23	30
22	91	149	358	170	220	580	940	102	124	43	20	28
23	99	124	531	180	680	540	620	99	110	40	18	25
24	90	112	724	190	2940	520	410	98	98	37	18	24
25	93	113	515	200	4840	540	310	78	85	36	20	23
26	87	119	330	210	6100	800	260	68	76	37	24	22
27	81	147	290	210	5480	740	230	65	66	34	29	22
28	84	138	320	220	3710	580	210	63	58	31	37	22
29	113	127	648	220	---	840	200	66	55	35	31	22
30	106	142	1690	230	---	1700	190	107	52	47	28	22
31	101	---	2750	230	---	1600	---	118	---	39	40	---
TOTAL	2644	4493	15419	21090	28150	38220	20700	5088	4200	1618	829	1951
MEAN	85.3	150	497	680	1005	1233	690	164	140	52.2	26.7	65.0
MAX	127	305	2750	4120	6100	2140	2300	720	352	104	40	366
MIN	61	102	169	170	180	520	190	63	52	31	18	22
CFSM	.24	.43	1.42	1.95	2.88	3.53	1.98	.47	.40	.15	.08	.19
IN.	0.28	0.48	1.64	2.25	3.00	4.07	2.21	0.54	0.45	0.17	0.09	0.21

CAL YR 1984 TOTAL 173165 MEAN 473 MAX 4550 MIN 38 CFSM 1.36 IN. 18.46
WTR YR 1985 TOTAL 144402 MEAN 396 MAX 6100 MIN 18 CFSM 1.13 IN. 15.39

NIAGARA RIVER BASIN

04218518 ELLICOTT CREEK BELOW WILLIAMSVILLE, NY

LOCATION.--Lat 42°58'40", long 78°45'50", Erie County, Hydrologic Unit 04120104, on right bank 15 ft upstream from bridge on State Highway 324 (Sheridan Drive), 0.8 mi upstream from sewage treatment plant, 1.4 mi northwest of Williamsville, and 10.8 mi upstream from mouth.

DRAINAGE AREA.--81.6 mi².

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 586.41 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 9-30, Dec. 6-8, 24-27, 29, Jan. 8 to Feb. 23, and Mar. 4-6, 17, 18. Records good except for periods with ice effect, Dec. 6-8, 24-27, 29, Jan. 8 to Feb. 23, and Mar. 4-6, 17, 18, which are fair. Regulation by intermittent pumping from stone quarry into stream upstream from station. Records at medium and high flows may be comparable with those obtained at station 04218500 between October 1955 and September 1972. Gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--13 years, 132 ft³/s, 21.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,640 ft³/s Feb. 25, 1985, gage height, 11.19 ft; no flow for part of July 27, 1976, gage height, 0.73 ft result of pipeline construction.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 30	2200	2,040	8.07	Apr. 1	1915	1,040	5.58
Feb. 25	0145	*3,640	*11.19				

Minimum discharge, 3.6 ft³/s Nov. 23, 24, gage height, 0.97 ft (result of regulation).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	35	58	498	54	258	788	64	80	29	15	19
2	26	54	51	860	52	309	578	61	82	27	15	22
3	26	28	82	398	50	322	276	60	50	27	13	25
4	27	34	144	175	48	190	282	59	42	21	12	18
5	42	68	140	127	45	280	306	60	45	24	15	18
6	22	74	68	101	44	500	356	104	33	31	13	17
7	19	49	58	94	43	357	222	219	30	32	23	15
8	18	37	58	80	43	472	163	187	25	40	21	25
9	19	36	61	68	44	726	141	110	23	34	21	26
10	18	50	74	64	45	378	128	85	27	38	14	85
11	18	84	112	62	46	263	115	74	31	26	12	70
12	18	115	175	62	52	414	110	68	101	25	14	47
13	17	105	179	60	47	812	101	63	109	23	13	32
14	16	85	151	60	45	476	93	58	101	26	14	25
15	17	76	114	58	43	332	86	54	60	32	14	21
16	16	70	125	54	43	282	84	53	59	25	14	16
17	15	52	102	52	45	240	82	50	82	26	13	16
18	15	57	85	52	49	230	77	54	86	21	11	16
19	16	72	75	48	52	197	90	51	63	23	13	16
20	25	93	73	44	50	188	148	48	62	19	12	16
21	28	71	94	40	52	189	156	56	45	16	12	15
22	27	44	177	43	130	154	110	51	38	20	11	14
23	26	28	241	45	660	160	91	40	37	16	9.9	14
24	24	31	130	46	2300	182	80	39	44	14	17	14
25	22	36	96	49	3280	245	73	22	30	19	42	13
26	25	43	70	48	1440	232	70	20	39	15	23	13
27	35	53	72	52	601	191	68	21	27	14	27	15
28	30	39	102	52	329	283	69	32	26	12	47	15
29	26	41	460	54	---	474	59	47	22	15	35	14
30	26	53	1470	56	---	282	64	52	22	17	67	13
31	22	---	1180	56	---	263	---	78	---	18	25	---
TOTAL	709	1713	6077	3558	9732	9881	5066	2040	1521	725	607.9	685
MEAN	22.9	57.1	196	115	348	319	169	65.8	50.7	23.4	19.6	22.8
MAX	42	115	1470	860	3280	812	788	219	109	40	67	85
MIN	15	28	51	40	43	154	59	20	22	12	9.9	13
CFSM	.28	.70	2.40	1.41	4.26	3.91	2.07	.81	.62	.29	.24	.28
IN.	0.32	0.78	2.77	1.62	4.44	4.50	2.31	0.93	0.69	0.33	0.28	0.31

CAL YR 1984 TOTAL 53876 MEAN 147 MAX 1850 MIN 13 CFSM 1.80 IN. 24.56
WTR YR 1985 TOTAL 42314.9 MEAN 116 MAX 3280 MIN 9.9 CFSM 1.42 IN. 19.29

NIAGARA RIVER BASIN

04219000 ERIE (BARGE) CANAL AT LOCK 30, MACEDON, NY

LOCATION.--Lat 43°04'20", long 77°17'45", Wayne County, Hydrologic Unit 04140201, on left bank in Macedon, 500 ft downstream from headgate in old Erie Canal, 700 ft downstream from bridge on State Highway 350, 0.2 mi downstream from Lock 30, and 2.6 mi upstream from Ganargua Creek.

PERIOD OF RECORD.--November 1919 to December 1920, October 1977 to current year (navigation seasons only), October 1950 to September 1977. Prior to October 1956, published as "Barge Canal at Lock 30, Macedon."

REVISED RECORDS.--WSP 1237: 1951

GAGE.--Water-stage recorder. Datum of gage is 447.58 ft above National Geodetic Vertical Datum of 1929. Nov. 1, 1919 to Dec. 28, 1920, nonrecording gage at same site at different datum.

REMARKS.--Estimated daily discharges: Nov. 23-30, Mar. 1 to May 8. Records good except estimated daily discharges Mar. 1 to May 8, which are fair. This record represents net diversion from Niagara River basin into Oswego River basin through Erie (Barge) Canal. During the non-navigation period, when the pool upstream from Lock 30 is drained, discharge consists of leakage through guard gates, runoff from small areas tributary to canal upstream from station, or diversion for use downstream in the Canal system. Several measurements of water temperature were made during the year.

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.

AVERAGE DISCHARGE.--27 years (water years 1951-77), 200 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 874 ft^3/s Dec. 3, 1969; no significant flow at times in many years.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	252				10	12	12	239	291	270	276
2	283	245				10	12	12	245	286	285	272
3	280	245				10	12	12	247	311	299	255
4	261	241				10	12	12	251	304	299	264
5	255	240				10	12	12	248	299	294	267
6	257	239				10	12	12	255	310	287	259
7	268	232				10	12	12	251	315	280	265
8	260	229				10	12	12	268	294	285	280
9	267	228				10	12	46	276	313	286	266
10	260	231				10	12	116	264	302	288	263
11	268	229				10	12	158	254	295	292	257
12	267	230				10	12	159	254	307	296	260
13	270	233				10	12	168	263	306	279	261
14	271	235				10	12	155	256	312	282	269
15	262	231				11	12	162	259	293	282	281
16	262	221				11	12	158	277	306	276	263
17	253	214				11	12	162	265	299	285	261
18	247	206				11	12	174	261	286	284	287
19	250	202				11	12	169	266	293	270	267
20	259	202				11	12	174	266	296	274	262
21	263	200				11	12	192	270	288	268	255
22	273	195				11	12	225	269	280	273	268
23	259	433				11	12	232	279	283	256	260
24	266	343				11	12	236	279	284	220	266
25	250	261				12	12	243	276	299	219	270
26	247	163				12	12	244	276	285	219	264
27	251	57				12	12	242	280	286	249	257
28	267	32				12	12	233	267	295	266	279
29	249	12				12	12	244	275	298	244	288
30	249	12				12	12	233	290	281	252	264
31	249	---				12	---	241	---	273	261	---
TOTAL	8106	6293				334	360	4462	7926	9170	8420	8006
MEAN	261	210				10.8	12.0	144	264	296	272	267
MAX	283	433				12	12	244	290	315	299	288
MIN	247	12				10	12	12	239	273	219	255

ST. LAWRENCE RIVER MAIN STEM

04219640 NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY
(National stream-quality accounting network station)

WATER QUALITY RECORDS

LOCATION.--Lat 43°16'10", long 79°03'52", Niagara County, Hydrologic Unit 04120104, water samples collected about 2 mi upstream from Coast Guard wharf, at Fort Niagara and 1.5 mi south of Youngstown.

DRAINAGE AREA.--265,000 mi².

PERIOD OF RECORD.--Water years 1971 to current year.
CHEMICAL DATA: 1971 (a), 1973-74 (b), 1975-82 (c), 1983-85 (b).
MINOR ELEMENT DATA: 1971 (a), 1972-85 (b).
ORGANIC DATA: OC--1973 (a), 1974-75 (b), 1978-80 (c), 1981 (b).
NUTRIENT DATA: 1971 (a), 1973-74 (b), 1975-82 (c), 1983-85 (b).
BIOLOGICAL DATA:
Bacteria--1973 (b), 1974 (d), 1975-82 (c), 1983-85 (b).
Phytoplankton--1973 (b), 1974 (d), 1975-77 (c), 1978-81 (c).
Periphyton--1974 (a), 1975-80 (b).
SEDIMENT DATA: 1975-77 (c), 1978 (b), 1979-82 (c), 1983-85 (b).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: September 1973 to June 1980.
WATER TEMPERATURES: September 1973 to June 1980.

REMARKS.--Published in 1971 as "at Youngstown'. Discharge is the daily mean reported for Niagara River at Buffalo (station 04216000).

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	DISCHARGE, IN CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
NOV										
27...	0900	214000	283	8.2	7.5	.50	745	11.8	101	K160
MAY										
21...	0930	260000	263	8.3	11.5	1.5	760	11.3	104	60
JUN										
13...	0930	263000	269	8.0	14.5	1.5	750	10.5	105	K24
AUG										
21...	0730	236000	277	8.4	22.0	.50	760	9.1	104	38

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
NOV										
27...	K6	130	28	37	8.6	9.6	1.3	100	26	18
MAY										
21...	K20	120	52	35	8.1	8.8	1.3	69	24	14
JUN										
13...	K8	120	25	34	7.9	8.1	1.5	93	24	16
AUG										
21...	74	120	26	35	8.2	8.6	1.3	96	24	12

K results based on colony count outside the ideal range (non-ideal colony count)

04219640 - NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
NOV 27...	.10	.19	156	160	.23	.020	.30	<.010	.010	.030
MAY 21...	<.10	.06	165	130	.29	.020	.30	<.010	<.010	<.010
JUN 13...	.20	.07	188	150	.25	.060	.60	.020	<.010	<.010
AUG 21...	.10	.29	173	150	.15	<.010	.20	.020	.010	<.010

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)
NOV 27...	20	<1	27	<.5	<1	<1	<3	2	<3	2
MAY 21...	70	<1	26	<.5	<1	<1	<3	8	<3	9
JUN 13...	<10	<1	25	1.8	<1	<1	<3	1	4	1
AUG 21...	30	<1	27	<.5	<1	<1	<3	3	4	3

DATE	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV 27...	<4	<1	.1	<10	<1	<1	<1	170	<6	4
MAY 21...	7	<1	<.1	<10	2	<1	<1	160	<6	6
JUN 13...	15	<1	<.1	<10	<1	<1	<1	150	<6	19
AUG 21	6	1	.1	<10	1	<1	<1	160	<6	5

04219640 - NIAGARA RIVER (LAKE ONTARIO) AT FORT NIAGARA, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV								
27...	0905	1000	44.0	3.0	282	8.2	7.5	11.0
27...	0910	1000	44.0	10.0	283	8.3	7.5	11.1
27...	0915	1000	44.0	20.0	282	8.2	7.5	11.0
27...	0920	1000	44.0	30.0	282	8.2	7.5	10.9
27...	0925	1000	44.0	40.0	282	8.2	7.5	10.8
27...	0930	1700	27.0	3.0	283	8.3	7.5	11.3
27...	0935	1700	27.0	10.0	283	--	7.5	--
27...	0940	1700	27.0	18.0	283	--	7.5	--
27...	0945	1700	27.0	25.0	283	--	7.5	--
MAY								
21...	0935	1000	50.0	3.0	262	8.3	11.5	11.2
21...	0940	1000	50.0	10.0	261	8.3	11.5	11.2
21...	0945	1000	50.0	25.0	261	8.3	11.5	11.1
21...	0950	1000	50.0	40.0	261	8.3	11.5	11.0
21...	0955	1700	35.0	3.0	263	8.3	11.5	11.4
21...	1000	1700	35.0	10.0	264	8.3	11.5	11.2
21...	1005	1700	35.0	20.0	265	8.3	11.5	11.1
21...	1010	1700	35.0	30.0	264	8.3	11.5	11.0
JUN								
13...	0935	1000	46.0	3.0	268	8.1	14.5	10.4
13...	0940	1000	46.0	10.0	266	8.1	14.5	10.3
13...	0945	1000	46.0	25.0	269	8.1	14.5	9.8
13...	0950	1700	30.0	3.0	269	8.0	14.5	10.6
13...	0955	1700	30.0	10.0	269	8.0	14.5	10.5
13...	1000	1700	30.0	20.0	269	8.0	14.5	10.2
13...	1005	1700	30.0	30.0	269	8.0	14.5	10.2
AUG								
21...	0735	1000	48.0	3.0	278	8.4	22.0	9.1
21...	0740	1000	48.0	10.0	277	8.4	22.0	9.0
21...	0745	1000	48.0	25.0	280	8.4	22.5	9.2
21...	0750	1000	48.0	40.0	286	8.4	22.5	8.9
21...	0755	1700	36.0	3.0	277	8.4	22.0	9.2
21...	0800	1700	36.0	10.0	277	8.4	22.0	9.0
21...	0805	1700	36.0	20.0	277	8.4	22.0	8.9
21...	0810	1700	36.0	30.0	276	8.4	22.0	9.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	DISCHARGE, IN CUBIC FEET PER SECOND	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
27...	0900	214000	6	3470	72
MAY					
21...	0930	260000	8	5620	94
JUN					
13...	0930	263000	10	7100	89
AUG					
21...	0730	236000	2	1270	74

04221000 GENESEE RIVER AT WELLSVILLE, NY

LOCATION.--Lat 42°07'20", long 77°57'27", Allegany County, Hydrologic Unit 04130002, on left bank 35 ft upstream from concrete weir at Wellsville, 0.5 mi upstream from bridge on State Highway 17, 0.6 mi upstream from Crowner Brook and sewage treatment plant, 0.6 mi downstream from Dyke Creek, and 140.9 mi upstream from mouth.

DRAINAGE AREA.--288 mi².

PERIOD OF RECORD.--August 1955 to September 1958, October 1972 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,470.00 ft above National Geodetic Vertical Datum of 1929. October 1957 to September 1958, nonrecording gage at site 0.4 mi upstream at datum 3.00 ft higher. August 1955 to September 1957, at same site at datum 8.00 ft higher.

REMARKS.--Estimated daily discharges: Dec. 7-9, Jan. 8 to Feb. 24, Mar. 2, 8, 9. Records good except for estimated daily discharges, which are fair. Record for station 04221500 Genesee River at Scio, 5.2 mi downstream, published for June 1916 to September 1972. Satellite and gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--16 years (water years 1956-58, 1973-85), 402 ft³/s, 18.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,800 ft³/s Mar. 8, 1956 (site and datum then in use, from graph based on gage readings) and Oct. 28, 1981 (present site and datum); maximum gage height, 13.60 ft October 28, 1981; minimum daily, 18 ft³/s Sept. 9, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since June 1916, 38,500 ft³/s June 23, 1972, gage height, 20.7 ft present datum, from floodmark, on basis of contracted-opening measurement of peak flow 0.5 mi downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 24	2330	*5,630	*9.27	No other peak greater than base discharge.			

Minimum discharge, 23 ft³/s Sept. 22, 23, 24, 25, 26, 27, gage height, 4.24 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	143	490	1070	110	681	1520	129	416	73	70	42
2	85	143	398	921	100	580	1040	124	176	65	50	35
3	75	129	452	690	100	508	926	128	137	65	42	32
4	69	126	478	589	100	394	870	113	118	73	39	30
5	62	272	363	542	100	666	749	106	102	59	33	28
6	58	271	370	468	100	535	650	114	97	54	32	26
7	55	201	340	435	100	442	583	143	86	59	36	24
8	54	173	300	390	98	940	531	117	79	62	49	52
9	54	162	290	340	98	1000	475	101	75	80	39	73
10	62	231	300	330	98	785	412	93	69	65	33	56
11	56	328	534	290	96	722	399	88	63	62	30	53
12	53	320	485	270	96	2000	365	87	167	56	29	41
13	50	257	966	260	96	1380	331	86	154	69	27	35
14	49	235	757	250	94	1200	310	81	121	60	28	33
15	48	215	754	230	94	940	289	78	92	86	30	40
16	48	221	624	210	94	753	273	79	138	192	88	35
17	47	198	560	190	94	694	252	129	359	98	53	29
18	47	181	491	180	92	573	228	227	174	76	36	27
19	46	173	481	160	100	476	257	147	136	61	31	26
20	44	149	511	150	100	503	389	116	127	53	29	25
21	49	138	405	150	110	433	288	108	131	49	28	24
22	59	142	660	140	140	369	242	101	102	65	26	24
23	85	132	497	140	1000	617	221	87	109	54	25	23
24	70	128	418	130	3600	1430	206	78	113	42	26	23
25	62	124	406	130	3520	1090	196	70	93	37	31	25
26	117	117	350	120	1590	797	187	67	79	38	36	24
27	139	112	333	120	1150	758	170	73	71	44	34	34
28	105	227	851	120	786	1350	157	231	66	37	31	70
29	402	602	1340	120	---	1050	152	166	71	35	29	40
30	224	355	1280	110	---	879	137	102	90	34	33	33
31	166	---	882	110	---	1190	---	148	---	59	56	---
TOTAL	2607	6205	17366	9355	13856	25735	12805	3517	3811	1962	1159	1062
MEAN	84.1	207	560	302	495	830	427	113	127	63.3	37.4	35.4
MAX	402	602	1340	1070	3600	2000	1520	231	416	192	88	73
MIN	44	112	290	110	92	369	137	67	63	34	25	23
CFSM	.29	.72	1.94	1.05	1.72	2.88	1.48	.39	.44	.22	.13	.12
IN.	0.34	0.80	2.24	1.21	1.79	3.32	1.65	0.45	0.49	0.25	0.15	0.14

CAL YR 1984 TOTAL 187451 MEAN 512 MAX 6130 MIN 44 CFSM 1.78 IN. 24.21
WTR YR 1985 TOTAL 99440 MEAN 272 MAX 3600 MIN 23 CFSM .94 IN. 12.84

04223000 GENESEE RIVER AT PORTAGEVILLE, NY

LOCATION.--Lat 42°34'13", long 78°02'33", Wyoming County, Hydrologic Unit 04130002, on left bank at Portageville, 500 ft downstream from bridge on State Highway 436, 800 ft upstream from abandoned railroad bridge piers, 0.9 mi upstream from Upper Falls, and 89.8 mi upstream from mouth.

DRAINAGE AREA.--984 mi².

PERIOD OF RECORD.--August 1908 to current year. Prior to December 1945, published as "at St. Helena". Records published for both sites December 1945 to September 1950.

REVISED RECORDS.--WSP 264: 1908. WSP 564: 1916(M). WSP 2112; WDR NY-82-3: Drainage area. WRD NY 1972: 1950(M), 1951(M), 1956(M), 1959(M), 1964(M), 1967(M).

GAGE.--Water-stage recorder. Datum of gage is 1,080.00 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 24, 1911, nonrecording gage and Aug. 24, 1911 to Sept. 30, 1946, water-stage recorder at site 8 mi downstream at different datum. Oct. 1, 1946 to June 21, 1972, water-stage recorder at site 1,200 ft downstream at datum 2.60 ft higher (destroyed by flood of June 1972). July 12, 1972 to May 18, 1973, nonrecording gage at site 500 ft upstream at datum 11.48 ft higher.

REMARKS.--Estimated daily discharges: Jan. 3 to Feb. 23. Records good except estimated daily discharges with ice effect, which are fair. Since July 1928, some seasonal regulation by Rushford Lake. Diurnal fluctuation at low flow caused by powerplant. Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake. Gage height telemeter at station. Satellite gage height and rain gage telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--77 years (water years 1909-85), 1,255 ft³/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 90,000 ft³/s June 23, 1972, gage height, 35.25 ft site and datum then in use, from high-water mark, from rating curve extended above 25,000 ft³/s on basis of contracted-opening measurement of 71,000 ft³/s at highway bridge 0.4 mi upstream and contracted-opening measurement of 98,200 ft³/s 0.7 mi downstream from gage; minimum, 18 ft³/s Oct. 5, 17, 1913, gage height, 1.70 ft site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 25	0100	*15,500	*15.74	No other peak greater than base discharge.			

Minimum discharge, 60 ft³/s Sept. 26, gage height, 8.19 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	845	538	1250	3540	330	1850	7850	432	546	211	99	126
2	874	476	1500	4000	330	1700	4250	414	613	197	126	114
3	677	460	1250	2200	320	1430	3190	400	408	180	115	109
4	337	429	1840	1600	320	1130	3320	392	335	175	99	103
5	444	703	1590	1500	320	1680	2860	370	293	182	90	96
6	743	965	1450	1300	310	2020	2060	430	263	176	89	94
7	727	715	1260	1200	310	1430	1800	530	252	172	100	92
8	713	595	888	1100	300	4160	1530	492	235	173	97	95
9	695	714	900	840	300	6220	1400	410	217	193	90	120
10	600	1280	871	640	290	3710	1190	366	213	216	87	265
11	297	1500	1910	620	290	3150	1130	338	215	192	83	198
12	277	1470	1920	620	310	7800	1080	328	305	158	73	167
13	444	1010	3970	620	310	6170	966	321	653	146	70	140
14	444	832	2810	600	310	4720	912	313	600	147	75	123
15	439	728	2620	600	290	3420	870	294	427	168	96	113
16	433	711	1960	600	290	2370	809	285	368	187	117	102
17	411	688	1660	600	290	1990	750	276	761	286	138	97
18	261	618	1390	600	290	1590	697	308	708	214	152	110
19	249	587	1240	580	320	1340	663	413	494	173	119	84
20	249	552	1670	420	350	1390	1250	354	420	142	100	71
21	252	476	1280	380	520	1410	1200	341	389	126	90	66
22	259	461	2920	380	600	1140	834	349	338	107	82	64
23	295	448	2200	380	6000	1220	719	316	301	95	68	63
24	332	770	1480	370	13000	5260	655	276	283	113	66	63
25	310	789	1290	370	11700	4380	612	256	289	101	77	64
26	320	489	1050	360	5160	2470	588	240	252	102	79	62
27	459	433	1020	360	3440	2250	558	232	220	132	144	81
28	493	440	1660	350	2130	6750	515	244	204	133	196	99
29	1290	1290	6400	350	---	5450	488	460	205	121	147	113
30	1170	1310	6650	340	---	3630	448	385	202	108	138	119
31	742	---	3300	340	---	4360	---	348	---	92	122	---
TOTAL	16081	22477	63199	27760	48730	97590	45194	10913	11009	4918	3224	3213
MEAN	519	749	2039	895	1740	3148	1506	352	367	159	104	107
MAX	1290	1500	6650	4000	13000	7800	7850	530	761	286	196	265
MIN	249	429	871	340	290	1130	448	232	202	92	66	62

CAL YR 1984	TOTAL	661560	MEAN	1808	MAX	18900	MIN	249
WTR YR 1985	TOTAL	354308	MEAN	971	MAX	13000	MIN	62

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY

LOCATION.--Lat 42°44'00", long 77°54'40", Livingston County, Hydrologic Unit 04130002, at Mount Morris Dam on Genesee River, 2.0 mi northwest of Mount Morris, 5 mi upstream from Canaseraga Creek, and 69.3 mi upstream from mouth.

DRAINAGE AREA.--1,080 mi².

PERIOD OF RECORD.--January 1952 to current year. Prior to October 1970, published as "Mount Morris Reservoir near Mount Morris."

REVISED RECORDS.--WSP 1437: 1955. WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U. S. Army Corps of Engineers). Prior to Apr. 8, 1952, reference point at same site and datum.

REMARKS.--Lake is formed by a concrete gravity-type dam with overflow spillway, completed by U. S. Army 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.--Capacity table provided by U. S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 755.46 ft June 25, 1972, contents, 322,600 acre-ft; minimum, 584.23 ft Sept. 2, 1976, contents, 475.8 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 665.78 ft Feb.28, contents, 89,660 acre-ft; minimum, 585.70 ft Sept. 24, 26, contents 730 acre-ft.

Capacity table (elevation, in feet, and usable contents, in acre-feet)
(Furnished by U. S. Army Corps of Engineers in 1953)

584.00	436	600.00	5,610	640.00	43,700
586.00	782	605.00	8,250	660.00	78,200
588.00	1,210	610.00	11,600	680.00	119,800
590.00	1,730	620.00	19,800	700.00	166,300
595.00	3,410	630.00	30,500	730.00	245,200
				750.00	305,100

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	592.20	590.20	594.50	631.00	593.70	662.88	633.90	589.42	589.50	588.61	587.60	586.40
2	590.00	589.85	597.25	633.79	593.63	657.83	636.46	589.40	591.21	588.56	587.52	586.41
3	588.00	589.80	594.86	634.75	592.94	651.59	634.69	589.40	589.65	588.49	587.49	586.30
4	587.70	589.70	599.30	633.09	592.50	645.25	631.72	589.41	589.43	588.38	587.46	586.32
5	586.90	590.10	600.10	629.48	592.35	639.84	628.08	589.41	589.42	588.29	587.40	586.26
6	588.14	593.10	597.78	625.18	592.56	634.75	623.44	589.44	589.42	588.24	587.34	586.19
7	588.22	591.70	595.73	619.95	592.69	628.88	618.39	590.14	589.41	588.28	587.28	586.14
8	588.21	590.65	592.65	613.95	592.55	624.33	613.33	590.06	589.35	588.31	587.26	586.39
9	590.61	590.30	593.60	607.83	592.11	628.30	606.90	589.48	589.28	588.31	587.21	586.49
10	594.01	594.11	592.13	599.23	592.07	629.10	597.31	589.43	589.17	588.33	587.14	587.07
11	592.13	595.38	595.68	591.14	592.28	626.75	594.18	589.42	589.04	588.38	587.11	587.36
12	590.70	596.66	598.99	594.68	592.60	627.31	594.07	589.45	589.15	588.32	587.08	586.97
13	592.00	593.70	600.37	595.69	593.08	635.77	593.79	589.49	590.35	588.19	587.03	586.77
14	593.27	592.38	605.96	595.53	593.80	637.40	593.36	589.49	590.41	588.07	586.96	586.55
15	593.23	591.55	602.27	598.27	594.06	635.52	593.03	589.49	589.48	588.00	586.93	586.39
16	593.15	591.25	596.49	601.62	593.65	631.75	592.45	589.49	589.31	587.98	586.94	586.29
17	593.10	591.28	594.33	602.64	593.70	626.90	591.90	589.49	590.29	588.02	587.04	586.16
18	591.55	590.82	593.39	603.61	593.73	621.51	591.50	589.50	591.80	588.23	587.09	586.17
19	590.00	590.48	592.58	604.40	593.87	614.80	591.43	589.45	589.76	588.24	587.15	586.22
20	589.95	590.26	593.93	604.26	593.64	608.56	593.62	589.43	589.41	588.11	587.10	585.99
21	589.90	590.00	593.10	601.20	594.64	604.22	596.90	589.42	589.35	587.97	586.95	585.83
22	588.85	589.75	597.77	594.58	598.30	597.19	593.04	589.43	589.33	587.91	586.85	585.77
23	588.25	589.70	604.41	597.18	608.39	594.45	591.90	589.42	589.36	587.83	586.79	585.76
24	588.50	590.84	596.98	599.48	635.36	606.43	591.21	589.42	589.29	587.72	586.73	585.74
25	588.85	592.00	593.64	601.02	653.62	619.99	590.86	589.42	589.21	587.63	586.72	585.76
26	588.90	590.64	592.24	601.78	662.35	622.00	590.67	589.42	589.13	587.57	586.80	585.75
27	589.33	589.82	591.79	601.57	665.25	621.02	590.54	589.41	589.00	587.78	586.85	585.94
28	589.92	589.64	592.69	601.24	665.40	623.80	590.06	589.41	588.82	587.88	586.92	586.11
29	593.00	591.60	611.74	599.71	---	631.34	589.72	589.61	588.71	587.89	586.95	586.22
30	594.40	597.27	624.63	594.19	---	631.50	589.54	589.51	588.68	587.80	586.71	586.40
31	591.75	---	629.92	593.56	---	629.93	---	589.42	---	587.70	586.51	---
MEAN	590.47	591.48	598.74	606.63	605.17	627.45	602.27	589.49	589.52	588.10	587.06	586.27
MAX	594.40	597.27	629.92	634.75	665.40	662.88	636.46	590.14	591.80	588.61	587.60	587.36
MIN	586.90	589.64	591.79	591.14	592.07	594.45	589.54	589.40	588.68	587.57	586.51	585.74
†	2,061	3,702	31,180	2,754	87,060	31,100	1,595	1,579	1,379	1,136	873	868
††	+11.5	+27.6	+447	-462	+1,518	-910	-496	-0.26	-3.37	-3.96	-4.29	-0.08

CAL YR 1984 MEAN 603.63 MAX 670.54 MIN 586.30 †† +28.2
WTR YR 1985 MEAN 596.87 MAX 665.40 MIN 585.74 †† -0.67

† Contents, in acre-feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

04224775 CANASERAGA CREEK ABOVE DANSVILLE, NY

LOCATION.--Lat 42°32'08", long 77°42'16", Livingston County, Hydrologic Unit 04130002, on right bank on Poags Hole Road, 0.7 mi upstream from Stony Brook, and 1.7 mi south of Dansville.

DRAINAGE AREA.--88.9 mi².

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

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 715.60 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-9, 25-27, Jan. 6-28, Jan. 31 to Feb. 8, Feb. 12-17, 20, 22-25, 28, Mar. 1, 5-8, and Apr. 7-24. Records fair. Gage height telemeter at station. Satellite gage height and rain gage telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years, 98.1 ft³/s, 14.99 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,870 ft³/s Sept. 20, 1977, gage height, 5.51 ft; minimum discharge, 6.7 ft³/s Aug. 27, Sept 7, 8, 1985; minimum gage height, 0.70 ft several days in August, September, and October 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 22	2200	ice jam	*3.50	No peak greater than base discharge.			
Feb. 24	0200	*a640	b2.72				

a About.
b Backwater from ice.

Minimum discharge, 6.7 ft³/s Aug. 27, Sept. 7, 8, gage height, 0.78 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	36	118	274	54	120	375	36	23	14	8.6	7.2
2	28	33	111	242	48	125	244	34	18	13	8.3	7.0
3	24	31	103	159	44	116	205	33	17	13	8.3	6.9
4	22	31	115	130	36	83	205	32	16	12	8.2	6.9
5	21	71	75	126	40	120	185	32	17	12	7.9	7.0
6	19	53	64	100	48	110	159	46	17	12	7.9	7.0
7	18	41	52	80	46	110	120	47	16	12	7.9	6.8
8	18	35	48	50	44	260	160	36	16	13	7.8	8.8
9	18	33	54	52	47	301	100	32	16	12	7.6	8.7
10	18	78	61	46	49	242	100	30	15	12	7.5	8.0
11	17	113	187	52	47	234	98	28	14	12	7.7	7.7
12	17	91	166	60	84	436	94	27	34	12	7.3	7.3
13	17	63	275	72	310	305	86	27	37	11	7.5	7.2
14	16	53	173	70	300	254	80	24	31	12	7.9	7.1
15	16	47	187	66	110	201	76	23	22	11	7.9	7.1
16	16	47	151	44	78	163	73	23	25	11	8.5	7.0
17	16	45	134	56	62	146	70	23	36	11	7.3	7.0
18	16	42	113	62	49	130	68	22	25	11	7.2	6.9
19	17	42	113	54	42	126	90	21	22	10	7.0	6.9
20	17	38	144	44	40	126	110	21	20	9.9	6.9	6.9
21	17	33	103	42	40	118	80	24	22	9.8	6.9	6.9
22	23	31	252	46	70	109	60	23	18	9.5	6.9	6.9
23	25	32	161	50	510	112	56	20	17	9.2	6.9	6.9
24	22	32	127	54	570	163	52	19	16	9.2	6.9	7.1
25	19	32	100	54	380	174	51	17	15	8.9	7.3	7.0
26	32	31	82	52	266	134	50	17	14	9.3	7.1	6.9
27	40	30	70	50	197	146	46	17	13	9.1	7.0	8.6
28	33	33	156	50	120	288	44	20	13	8.7	6.9	7.4
29	146	146	312	51	---	224	42	21	15	8.5	7.2	7.1
30	62	88	350	51	---	192	39	17	16	8.5	7.3	7.1
31	42	---	205	54	---	290	---	19	---	8.9	7.5	---
TOTAL	836	1511	4362	2393	3731	5658	3218	811	596	335.5	233.1	217.3
MEAN	27.0	50.4	141	77.2	133	183	107	26.2	19.9	10.8	7.52	7.24
MAX	146	146	350	274	570	436	375	47	37	14	8.6	8.8
MIN	16	30	48	42	36	83	39	17	13	8.5	6.9	6.8
CFSM	.30	.57	1.59	.87	1.50	2.06	1.20	.29	.22	.12	.08	.08
IN.	0.35	0.63	1.83	1.00	1.56	2.37	1.35	0.34	0.25	0.14	0.10	0.09

CAL YR 1984 TOTAL 43471 MEAN 119 MAX 1480 MIN 10 CFSM 1.34 IN. 18.19
WTR YR 1985 TOTAL 23901.9 MEAN 65.5 MAX 570 MIN 6.8 CFSM .74 IN. 10.00

04227000 CANASERAGA CREEK AT SHAKERS CROSSING, NY

LOCATION.--Lat 42°44'13", long 77°50'27", Livingston County, Hydrologic Unit 04130002, on right bank 100 ft upstream from bridge on State Highway 408 at Shakers Crossing, 1.4 mi upstream from mouth, and 1.5 mi northeast of Mount Morris.

DRAINAGE AREA.--335 mi².

PERIOD OF RECORD.--July 1915 to September 1922 (gage height only), November 1958 to September 1970, October 1974 to current year.

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 545.52 ft above National Geodetic Vertical Datum of 1929. Prior to July 1981 at site 250 ft east on left bank of old filled-in channel at same datum and prior to November 1958 at site 250 ft east and 40 ft north at datum 5.52 ft lower. April 1968 to September 1970, and since October 1974, auxiliary water-stage recorder 0.6 mi downstream from base gage.

REMARKS.--Estimated daily discharges: Dec. 6-8, 25-27, Jan. 8-17, 21-25, Jan. 31 to Feb. 10, and Feb. 15-23. Records good except for estimated daily discharges with ice effect, which are fair. Gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--22 years (water years 1960-70, 1975-85), 288 ft³/s, 11.67 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,270 ft³/s Mar. 4, 1976, gage height, 13.33 ft; maximum gage height, 23.62 ft present datum, May 17, 1916 (backwater from Genesee River); minimum discharge, 4.3 ft³/s Aug. 19, 1970, gage height, 2.26 ft, result of temporary regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972 reached an estimated discharge of 11,200 ft³/s from U. S. Army Corps of Engineers publication (Tropical Storm Agnes, June 1972).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 23	2330	*a3,600	b11.13	Mar. 31	2400	3,210	c10.96
Feb. 24	0030	ice jam	*11.14				

a About.
b Backwater from ice.
c Backwater from Genesee River.

Minimum discharge, 23 ft³/s Aug. 11, 20, 23, 24, gage height, 3.41 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	131	229	798	140	187	2190	132	95	59	34	33
2	113	118	268	799	130	112	1030	133	93	55	33	29
3	105	113	226	350	120	340	830	127	81	49	31	28
4	94	107	288	290	90	502	747	122	74	47	29	29
5	87	158	210	240	90	370	653	120	73	45	29	32
6	82	167	180	200	100	514	499	163	78	44	28	31
7	80	136	150	180	110	392	386	205	73	54	27	28
8	80	118	170	160	100	931	341	149	67	53	28	41
9	82	113	192	150	110	1430	321	127	66	53	27	94
10	84	165	201	140	110	798	327	117	66	51	25	62
11	84	270	420	150	119	635	322	109	64	47	25	47
12	80	249	416	180	128	1520	294	111	131	43	27	37
13	75	189	626	190	285	1510	261	149	164	45	25	34
14	73	164	544	180	349	908	254	110	145	43	27	32
15	75	150	529	160	240	717	250	101	99	50	28	30
16	73	151	390	130	180	496	234	102	90	50	37	29
17	73	144	315	160	160	525	214	104	160	45	33	29
18	80	133	274	189	150	343	205	186	108	42	26	29
19	80	131	252	182	140	304	261	118	94	37	25	28
20	82	119	333	129	110	357	332	104	80	34	24	33
21	80	108	269	105	110	328	255	111	82	34	24	27
22	87	97	604	80	300	319	214	112	74	34	24	27
23	99	107	488	120	1900	325	192	93	67	31	23	28
24	92	107	335	130	3060	461	179	81	64	30	24	29
25	84	110	280	150	1970	656	167	80	58	29	28	30
26	105	107	190	148	883	390	167	78	53	33	30	29
27	138	105	210	139	625	364	159	77	51	43	29	43
28	113	107	262	148	330	862	156	80	49	31	27	54
29	301	287	758	146	---	714	159	94	61	29	29	36
30	222	246	1120	152	---	514	152	88	68	28	32	32
31	155	---	575	140	---	888	---	81	---	29	33	---
TOTAL	3152	4407	11304	6415	12139	18712	11751	3564	2528	1297	871	1070
MEAN	102	147	365	207	434	604	392	115	84.3	41.8	28.1	35.7
MAX	301	287	1120	799	3060	1520	2190	205	164	59	37	94
MIN	73	97	150	80	90	112	152	77	49	28	23	27
CFSM	.30	.44	1.09	.62	1.30	1.80	1.17	.34	.25	.12	.08	.11
IN.	0.35	0.49	1.26	0.71	1.35	2.08	1.30	0.40	0.28	0.14	0.10	0.12

CAL YR 1984 TOTAL 143105 MEAN 391 MAX 3170 MIN 50 CFSM 1.17 IN. 15.89
WTR YR 1985 TOTAL 77210 MEAN 212 MAX 3060 MIN 23 CFSM .63 IN. 8.57

04227500 GENESEE RIVER NEAR MOUNT MORRIS, NY

LOCATION.--Lat 42°46'00", long 77°50'21", Livingston County, Hydrologic Unit 04130002, on right bank 100 ft north of Jones Bridge Road, 0.8 mi downstream from Canaseraga Creek, 2.8 mi northeast of Mount Morris and 63.0 mi upstream from mouth.

DRAINAGE AREA.--1,424 mi^2.

PERIOD OF RECORD.--May 1903 to April 1906, August 1908 to April 1914, July 1915 to current year. Prior to 1968, published as "at Jones Bridge."

REVISED RECORDS.--WSP 1277: 1952. WSP 1387: 1913. WSP 1437: 1955. WSP 2112; WDR NY-82-3: Drainage area. WDR NY-78-1: 1974-77 (M, m).

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 540.12 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 11, 1915, nonrecording gage on bridge at datum 2.85 ft lower.

REMARKS.--Estimated daily discharges: Jan. 12 to Feb. 22. Records good except for period of estimated daily discharges with ice effect, which are fair. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake (see station 04221991) since July 1928, and at high flows since November 1951 by Mount Morris Lake (see station 04224000). Monthly figures of discharge and runoff 1952 to 1966 water years adjusted for change in contents in Rushford Lake and Mount Morris Lake. U.S. Army Corps of Engineers gage height telemeter at station. Satellite gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--75 years (water years 1909-13, 1916-85), 1,668 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,100 ft^3/s May 17, 1916, gage height, 25.44 ft; maximum gage height, 25.77 ft, present datum (ice jam); minimum discharge, 12 ft^3/s July 23, 1955, gage height, 0.22 ft, partially obstructed intake; minimum daily, 30 ft^3/s Aug. 8, 1909.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,510 ft^3/s Mar. 3 at 0415 hours, gage height, 13.01 ft; minimum, 46 ft^3/s Sept. 25, gage height, 1.29 ft, result of regulation.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	765	1510	3560	780	5940	8140	652	530	291	139	160
2	1120	633	2010	3710	760	7910	7060	610	868	287	142	156
3	1120	583	1710	3530	760	8430	6650	584	586	269	162	141
4	540	551	2100	4220	760	7390	6870	560	465	246	144	143
5	404	620	2150	4530	760	6550	6560	539	427	246	126	144
6	776	1330	1980	4220	760	6720	5860	606	401	250	115	130
7	876	1030	1800	3930	760	5860	4830	813	366	268	118	120
8	862	806	1270	3250	760	5950	3990	760	346	254	124	166
9	823	696	1300	2460	740	6630	3560	621	329	267	116	256
10	788	1440	1210	2070	740	6000	2640	536	317	278	109	252
11	528	1930	1990	1000	780	5700	1940	490	298	285	107	298
12	361	2060	2870	1100	800	6330	1870	483	443	244	104	232
13	394	1540	3400	1200	860	6130	1700	512	769	226	90	205
14	503	1180	4010	1300	960	6960	1590	455	835	214	91	176
15	501	1000	3750	1100	1200	6980	1510	432	618	235	98	158
16	490	929	3060	960	1200	6540	1390	420	496	252	135	146
17	487	925	2320	980	1100	5940	1260	416	676	293	150	131
18	423	838	2030	1100	1100	5120	1160	484	1100	319	163	127
19	320	773	1780	1000	1000	4280	1170	532	670	258	157	136
20	314	721	2130	940	960	3340	1620	507	525	223	128	118
21	316	645	1980	900	900	2860	2180	489	498	199	116	96
22	333	544	2650	900	1100	2400	1520	475	445	185	104	91
23	354	548	3390	880	3910	1930	1230	455	403	150	94	89
24	413	730	2650	880	5630	2920	1050	396	370	146	79	87
25	422	961	1900	880	3110	3960	951	370	356	153	99	89
26	427	808	1530	860	2400	3790	900	352	345	157	106	82
27	538	546	1410	860	2770	3700	855	345	309	191	106	117
28	636	532	1520	840	3970	4230	796	359	286	183	190	157
29	1450	1070	3420	820	---	5220	745	455	303	170	224	143
30	1790	2040	3810	800	---	5880	713	546	303	153	194	153
31	1120	---	3350	780	---	6290	---	460	---	148	178	---
TOTAL	20469	28774	71990	55560	41330	167880	82310	15714	14683	7040	4008	4499
MEAN	660	959	2322	1792	1476	5415	2744	507	489	227	129	150
MAX	1790	2060	4010	4530	5630	8430	8140	813	1100	319	224	298
MIN	314	532	1210	780	740	1930	713	345	286	146	79	82

CAL YR 1984 TOTAL 924169 MEAN 2525 MAX 10000 MIN 314
WTR YR 1985 TOTAL 514257 MEAN 1409 MAX 8430 MIN 79

04227980 CONESUS LAKE NEAR LAKEVILLE, NY

LOCATION.--Lat 42°47'39", long 77°43'15", Livingston County, Hydrologic Unit 04130003, on west shore of Conesus Lake at Geneseo Water Works pumping station, 300 ft east of State Highway 256, and 3.0 mi south of Lakeville.

DRAINAGE AREA.--69.8 mi².

PERIOD OF RECORD.--July 1963 to current year. Since 1930 in files of village of Geneseo.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Oct. 1, 1970 to Sept. 30, 1975, at datum 800.00 ft higher. Prior to Oct. 1, 1970, nonrecording gage at site 200 ft downstream at datum 796.59 ft higher.

REMARKS.--Lake level maintained by plank and pile dam at outlet. Area of water surface, 5.08 mi². Daily average of about 2 ft³/s diverted from lake for water supply for Avon, Geneseo, and Lakeville Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 822.50 ft June 24, 1972; minimum observed, 816.33 ft present datum, Nov. 3-8, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 819.00 ft Apr. 2; minimum, 817.02 ft Nov. 28.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	817.98	817.42	817.13	817.83	817.41	818.13	818.83	818.14	818.32	818.28	817.82	817.24
2	817.98	817.41	817.15	817.91	817.40	818.12	818.77	818.14	818.31	818.28	817.80	817.26
3	817.97	817.41	817.14	817.93	817.39	818.10	818.75	818.12	818.31	818.27	817.77	817.25
4	817.96	817.34	817.14	817.93	817.37	818.10	818.76	818.11	818.31	818.23	817.75	817.25
5	817.93	817.37	817.14	817.92	817.35	818.14	818.77	818.10	818.36	818.19	817.73	817.26
6	817.91	817.41	817.18	817.91	817.35	818.14	818.77	818.17	818.35	818.18	817.69	817.24
7	817.89	817.40	817.18	817.89	817.33	818.13	818.77	818.22	818.36	818.19	817.68	817.25
8	817.89	817.37	817.15	817.90	817.32	818.15	818.74	818.23	818.35	818.16	817.66	817.30
9	817.89	817.30	817.15	817.88	817.31	818.20	818.70	818.23	818.35	818.16	817.59	817.43
10	817.89	817.32	817.15	817.85	817.29	818.23	818.64	818.23	818.35	818.15	817.55	817.41
11	817.88	817.38	817.18	817.83	817.27	818.25	818.60	818.24	818.33	818.13	817.54	817.41
12	817.88	817.38	817.20	817.81	817.27	818.33	818.58	818.26	818.38	818.11	817.52	817.39
13	817.86	817.37	817.23	817.79	817.27	818.45	818.44	818.31	818.42	818.09	817.50	817.36
14	817.84	817.36	817.27	817.78	817.26	818.52	818.40	818.33	818.43	818.08	817.49	817.30
15	817.82	817.30	817.29	817.76	817.25	818.54	818.37	818.34	818.41	818.09	817.48	817.27
16	817.81	817.28	817.31	817.73	817.24	818.53	818.33	818.34	818.43	818.08	817.48	817.24
17	817.77	817.29	817.32	817.72	817.23	818.52	818.28	818.34	818.46	818.06	817.46	817.20
18	817.76	817.25	817.32	817.70	817.22	818.49	818.23	818.34	818.47	818.04	817.44	817.18
19	817.73	817.23	817.33	817.68	817.20	818.46	818.23	818.35	818.45	818.01	817.41	817.16
20	817.71	817.23	817.34	817.66	817.19	818.42	818.28	818.32	818.45	817.99	817.40	817.15
21	817.65	817.20	817.34	817.64	817.18	818.38	818.29	818.35	818.45	817.98	817.36	817.13
22	817.63	817.17	817.41	817.61	817.20	818.34	818.28	818.36	818.43	817.95	817.34	817.12
23	817.62	817.14	817.44	817.59	817.42	818.30	818.28	818.35	818.43	817.94	817.30	817.10
24	817.60	817.13	817.45	817.56	817.77	818.29	818.28	818.34	818.45	817.92	817.28	817.12
25	817.55	817.12	817.46	817.54	817.99	818.30	818.23	818.32	818.45	817.87	817.30	817.10
26	817.55	817.11	817.44	817.52	818.09	818.27	818.22	818.31	818.41	817.89	817.30	817.08
27	817.52	817.09	817.43	817.50	818.14	818.25	818.20	818.29	818.37	817.91	817.31	817.10
28	817.49	817.04	817.43	817.48	818.15	818.27	818.18	818.29	818.34	817.88	817.29	817.09
29	817.51	817.09	817.51	817.46	---	818.29	818.17	818.31	818.31	817.86	817.28	817.06
30	817.47	817.10	817.68	817.44	---	818.30	818.15	818.29	818.29	817.84	817.27	817.05
31	817.44	---	817.74	817.42	---	818.38	---	818.29	---	817.84	817.27	---
MEAN	817.75	817.27	817.31	817.72	817.42	818.30	818.45	818.27	818.38	818.05	817.49	817.22
MAX	817.98	817.42	817.74	817.93	818.15	818.54	818.83	818.36	818.47	818.28	817.82	817.43
MIN	817.44	817.04	817.13	817.42	817.18	818.10	818.15	818.10	818.29	817.84	817.27	817.05

CAL YR 1984 MEAN 818.17 MAX 820.09 MIN 817.04
WTR YR 1985 MEAN 817.81 MAX 818.83 MIN 817.04

04228500 GENESEE RIVER AT AVON, NY

LOCATION.--Lat 42°55'04", long 77°45'27", Livingston County, Hydrologic Unit 04130003, on right bank 250 ft downstream from bridge on U.S. Highway 20 (State Highway 5), 0.3 mi west of Avon, 0.8 mi downstream from Conesus Creek, and 35.6 mi upstream from mouth.

DRAINAGE AREA.--1,673 mi².

PERIOD OF RECORD.--August 1955 to current year.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 500.11 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 13 to Feb. 13, and Feb. 15. Records good except for estimated daily discharges with ice effect, which are fair. Diurnal fluctuation at low flow caused by powerplant. Flow regulated to some extent by Rushford Lake (see station 04221990), at high flows by Mount Morris Lake (see station 04224000), and by Conesus Lake (see station 04227980). Monthly figures of discharge and runoff August 1955 to September 1965 adjusted for change in contents in Rushford Lake and Mount Morris Lake. Satellite gage height and rain gage telemeter at station. National Weather Service gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--30 years (water years 1956-85), 1,937 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft³/s, June 25, 1972, gage height, 40.67 ft; minimum, 47 ft³/s, Oct. 10-11, 1980, gage height, 13.70 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,310 ft³/s, Apr. 1 at 1400 hours, gage height, 31.38 ft; minimum, 131 ft³/s, Sept. 26, gage height, 13.95 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1050	1020	1720	4160	920	5080	8980	795	703	332	186	197
2	1110	777	1670	4640	900	6990	8230	753	783	322	177	186
3	1150	677	1860	3880	880	7980	6950	723	858	310	179	183
4	958	646	1740	3930	900	7770	6930	687	627	288	187	176
5	546	625	2110	4450	900	6650	6790	660	534	268	177	180
6	543	957	2030	4330	900	6980	6380	693	510	272	165	185
7	910	1190	1840	4090	880	6440	5440	861	449	278	161	168
8	920	953	1500	3730	880	6200	4480	928	407	286	162	176
9	905	806	1270	2910	880	7280	3980	814	379	275	163	283
10	865	962	1290	2290	900	6590	3450	692	361	283	158	355
11	797	1730	1450	1790	920	6020	2430	627	341	300	156	326
12	504	1970	2490	1450	940	6210	2130	597	502	289	155	297
13	400	1830	3020	1600	1000	6990	1980	645	787	253	153	242
14	494	1350	3810	1800	1200	6950	1820	592	1040	244	149	216
15	570	1150	3800	1600	1300	7170	1730	540	894	244	149	195
16	569	1030	3480	1400	1400	6760	1620	516	715	256	154	183
17	583	997	2650	1200	1290	6310	1490	503	715	265	170	173
18	588	964	2200	1300	1210	5500	1380	533	1050	323	179	164
19	481	885	1910	1200	1150	4900	1350	562	971	311	188	161
20	394	829	1870	1100	1080	4020	1760	648	714	261	182	165
21	386	769	2160	1100	993	3310	2170	604	623	233	164	154
22	384	667	2230	1000	972	2930	2000	592	579	221	156	140
23	402	638	3390	1000	2750	2290	1490	564	520	205	148	135
24	437	642	3180	980	6730	2430	1280	518	469	183	141	136
25	495	920	2260	980	6740	3860	1150	448	424	183	142	134
26	505	990	1740	980	4010	4040	1080	419	411	194	152	136
27	541	735	1450	960	3290	3900	1020	401	384	208	160	141
28	677	624	1490	960	3630	4050	962	429	345	210	152	163
29	800	689	2650	940	---	4980	909	454	327	206	211	183
30	1730	1600	4680	940	---	5730	863	596	350	196	226	174
31	1460	---	4170	920	---	6120	---	603	---	189	217	---
TOTAL	22154	29622	73110	63610	49545	172430	92224	18997	17772	7888	5219	5707
MEAN	715	987	2358	2052	1769	5562	3074	613	592	254	168	190
MAX	1730	1970	4680	4640	6740	7980	8980	928	1050	332	226	355
MIN	384	624	1270	920	880	2290	863	401	327	183	141	134

CAL YR 1984 TOTAL 982152 MEAN 2683 MAX 9850 MIN 366
WTR YR 1985 TOTAL 558278 MEAN 1530 MAX 8980 MIN 134

04228845 HONEOYE LAKE NEAR HONEOYE, NY

LOCATION.--Lat 42°45'44", long 77°30'26", Ontario County, Hydrologic Unit 04130003, on east shore of Honeoye Lake, at Trident Marina on East Lake Road, 1.9 mi south of U.S. Highway 20A, and 2.0 mi southeast of Honeoye.

DRAINAGE AREA.--41.0 mi².

PERIOD OF RECORD.--July to December 1963. Occasional readings January to August 1964. October 1964 to current year.

REVISED RECORD.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. July 10, 1963 to Sept. 28, 1967, nonrecording gage and Sept. 29, 1967 to Sept. 30, 1969, recording gage at datum 800.35 ft higher. Oct. 1, 1969 to Sept. 30, 1975, at datum 800.00 ft higher.

REMARKS.--Area of water surface, 2.71 mi².

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 806.91 ft June 23, 1972; minimum observed, 802.15 ft present datum, Oct. 5, 1965, Oct. 1, 2, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 804.03 ft Feb. 26; minimum, 802.30 ft Sept. 4.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	803.22	803.17	803.30	803.88	803.19	803.86	803.83	803.19	803.04	803.11	802.71	802.33
2	803.23	803.13	803.31	803.88	803.20	803.79	803.88	803.17	803.03	803.09	802.69	802.32
3	803.23	803.11	803.34	803.85	803.20	803.72	803.89	803.14	803.02	803.07	802.68	802.32
4	803.21	803.11	803.34	803.81	803.19	803.68	803.87	803.12	803.01	803.05	802.67	802.32
5	803.20	803.11	803.34	803.77	803.18	803.67	803.86	803.10	803.01	803.04	802.66	802.33
6	803.19	803.11	803.38	803.73	803.18	803.62	803.83	803.15	803.00	803.02	802.64	802.34
7	803.19	803.10	803.39	803.69	803.17	803.57	803.76	803.22	802.99	803.00	802.61	802.34
8	803.18	803.10	803.38	803.67	803.17	803.56	803.71	803.22	802.99	802.98	802.59	802.36
9	803.19	803.10	803.38	803.63	803.17	803.60	803.66	803.20	802.99	802.97	802.59	802.46
10	803.19	803.14	803.38	803.59	803.16	803.59	803.61	803.19	802.98	802.96	802.58	802.48
11	803.18	803.17	803.40	803.55	803.15	803.59	803.56	803.18	802.96	802.94	802.57	802.48
12	803.18	803.17	803.42	803.52	803.16	803.68	803.51	803.21	803.02	802.91	802.56	802.47
13	803.18	803.18	803.44	803.49	803.20	803.77	803.47	803.25	803.05	802.90	802.55	802.46
14	803.17	803.18	803.46	803.47	803.20	803.80	803.45	803.22	803.04	802.91	802.54	802.44
15	803.16	803.19	803.47	803.45	803.20	803.78	803.43	803.21	803.03	802.90	802.53	802.42
16	803.15	803.19	803.49	803.43	803.19	803.75	803.39	803.18	803.07	802.90	802.54	802.41
17	803.15	803.19	803.49	803.41	803.19	803.71	803.35	803.16	803.25	802.88	802.52	802.41
18	803.15	803.19	803.49	803.39	803.18	803.66	803.33	803.14	803.26	802.87	802.51	802.40
19	803.14	803.20	803.49	803.37	803.17	803.62	803.35	803.16	803.24	802.85	802.46	802.39
20	803.14	803.19	803.50	803.35	803.16	803.58	803.44	803.14	803.22	802.83	802.44	802.39
21	803.14	803.19	803.51	803.32	803.16	803.53	803.44	803.14	803.22	802.82	802.42	802.38
22	803.13	803.19	803.54	803.31	803.18	803.49	803.41	803.12	803.20	802.82	802.41	802.38
23	803.13	803.19	803.55	803.29	803.42	803.46	803.39	803.10	803.18	802.78	802.39	802.38
24	803.13	803.19	803.54	803.28	803.79	803.44	803.38	803.08	803.19	802.76	802.37	802.36
25	803.12	803.19	803.53	803.27	803.98	803.44	803.34	803.07	803.17	802.74	802.39	802.35
26	803.13	803.19	803.50	803.25	804.02	803.42	803.30	803.05	803.13	802.74	802.39	802.33
27	803.14	803.19	803.49	803.24	803.99	803.41	803.28	803.05	803.10	802.75	802.38	802.37
28	803.14	803.22	803.50	803.23	803.92	803.43	803.26	803.05	803.08	802.74	802.37	802.37
29	803.17	803.26	803.60	803.22	---	803.48	803.23	803.04	803.12	802.73	802.35	802.36
30	803.17	803.27	803.80	803.21	---	803.49	803.21	803.02	803.12	802.71	802.34	802.36
31	803.15	---	803.82	803.20	---	803.57	---	803.03	---	802.71	802.34	---
MEAN	803.17	803.17	803.47	803.48	803.32	803.60	803.51	803.14	803.09	802.89	802.51	802.38
MAX	803.23	803.27	803.82	803.88	804.02	803.86	803.89	803.25	803.26	803.11	802.71	802.48
MIN	803.12	803.10	803.30	803.20	803.15	803.41	803.21	803.02	802.96	802.71	802.34	802.32

CAL YR 1984 MEAN 803.34 MAX 804.18 MIN 802.85
WTR YR 1985 MEAN 803.14 MAX 804.02 MIN 802.32

04229500 HONEOYE CREEK AT HONEOYE FALLS, NY

LOCATION.--Lat 42°57'26", long 77°35'21", Monroe County, Hydrologic Unit 04130003, on right bank 25 ft downstream from bridge on State Highway 65 at Honeoye Falls, and 15.3 mi upstream from mouth.

DRAINAGE AREA.--196 mi².

PERIOD OF RECORD.--October 1945 to September 1970, October 1972 to current year.

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 610.00 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1970, water-stage recorder at same site at datum 609.76 ft NGVD.

REMARKS.--Estimated daily discharges: Nov. 20-23, Dec. 5-9, 25-28, Jan. 4-30, Feb. 2-26, July 23 to Sept. 8, and Sept. 14-30. Records fair except estimated daily discharges, which are poor. Outlet of Honeoye Lake not controlled (see station 04228845). Some diversion from and regulation of Hemlock and Canadice Lakes for water supply of city of Rochester. Diurnal fluctuation at low flow caused by mills upstream from station. Prior to 1967 water year, published monthly figures adjusted for change in contents in, and diversion from, Hemlock and Canadice Lakes. During low-water periods the village of Honeoye Falls pumps water from two deep wells with maximum pumping capacity of 600 gal/min (1.33 ft³/s). This pumped water enters creek upstream from gage. Satellite gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--38 years (water years 1946-70, 1973-85), 120 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,630 ft³/s Mar. 28, 1950, gage height, 6.42 ft datum then in use, from rating curve extended above 2,700 ft³/s by logarithmic plotting; minimum, 0.06 ft³/s Aug. 28, 1949.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1972, reached a stage of about 6.3 ft current datum; discharge, about 6,600 ft³/s, from rating curve extended above 2,700 ft³/s by logarithmic plotting.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,100 ft³/s Feb. 24 at 2100 hours, gage height, 3.27 ft; maximum gage height, 3.99 ft Feb. 24 at 0400 (ice jam); minimum daily discharge, 2.7 ft³/s Aug. 23; minimum observed gage height, 0.28 ft Sept. 19.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	26	47	338	47	229	725	61	100	35	12	5.2
2	11	28	50	440	40	229	489	54	77	27	11	4.5
3	16	24	49	276	29	205	321	49	39	24	9.0	4.5
4	15	23	54	120	25	156	308	44	26	21	7.8	5.2
5	15	22	44	72	24	166	294	42	24	19	6.8	7.0
6	12	26	31	58	24	238	279	58	24	17	6.2	6.8
7	9.7	29	41	52	24	197	243	99	23	18	5.8	5.8
8	8.3	25	54	50	24	277	207	97	21	18	5.4	7.2
9	7.5	19	48	52	24	387	186	73	19	16	5.2	7.6
10	7.8	20	52	52	25	282	170	61	18	14	4.7	19
11	8.6	32	84	52	25	229	162	54	17	19	4.2	16
12	48	44	114	52	25	260	147	52	43	18	3.6	12
13	59	39	145	52	27	446	131	74	116	14	3.4	9.0
14	32	32	129	54	48	414	124	85	113	13	3.4	7.4
15	17	27	100	80	84	315	120	64	61	14	3.7	6.2
16	14	25	95	90	70	246	114	55	44	14	4.2	5.4
17	14	23	85	62	52	226	102	55	132	14	4.0	4.9
18	15	21	78	46	40	201	88	51	114	13	3.8	4.3
19	16	20	70	45	40	175	99	51	75	10	3.6	3.8
20	17	16	73	45	42	181	233	59	54	9.7	3.3	3.5
21	18	14	78	45	54	159	186	63	50	8.8	3.0	3.3
22	17	14	184	45	110	135	138	62	44	8.6	2.8	3.2
23	16	15	216	48	310	129	120	49	36	8.4	2.7	3.0
24	16	16	138	48	1000	129	110	39	29	7.8	3.1	2.9
25	16	18	90	48	820	152	100	33	27	7.2	3.6	2.9
26	16	20	43	49	430	138	93	29	27	9.0	4.3	3.3
27	20	20	42	52	309	121	85	28	25	13	4.7	5.2
28	24	20	88	54	234	134	78	40	22	12	4.4	5.0
29	24	29	187	56	---	216	73	65	27	10	5.2	4.7
30	32	52	565	58	---	184	70	45	35	8.6	5.8	4.4
31	29	---	415	52	---	241	---	41	---	11	6.0	---
TOTAL	580.9	739	3489	2643	4006	6797	5595	1732	1462	452.1	156.7	183.2
MEAN	18.7	24.6	113	85.3	143	219	187	55.9	48.7	14.6	5.05	6.11
MAX	59	52	565	440	1000	446	725	99	132	35	12	19
MIN	7.5	14	31	45	24	121	70	28	17	7.2	2.7	2.9

CAL YR 1984 TOTAL 53246.1 MEAN 145 MAX 1230 MIN 4.5
WTR YR 1985 TOTAL 27835.9 MEAN 76.3 MAX 1000 MIN 2.7

04230380 OATKA CREEK AT WARSAW, NY

LOCATION.--Lat 42°44'39", long 78°08'16", Wyoming County, Hydrologic Unit 04130003, on right bank 400 ft downstream from bridge on Court Street, Warsaw.

DRAINAGE AREA.--39.1 mi².

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

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 987.15 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Estimated daily discharges: Dec. 4-8, 25, 26, Jan. 4, Jan. 7 to Feb. 23, Feb. 27, 28, Mar. 3-7. Records fair. Gage height telemeter at station. Satellite gage height and rain gage telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--21 years (water years 1965-85), 53.3 ft³/s, 18.51 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,010 ft³/s June 23, 1972, gage height, 9.75 ft, from rating curve extended above 1,770 ft³/s on basis of slope-area measurement of peak discharge; minimum, 0.90 ft³/s Aug. 1, 1965; minimum gage height, 0.96 ft Aug. 30-31, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 690 ft³/s and maximum(*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 29	1830	*2,060	*6.57	Feb. 24	1600	1,500	5.50
Feb. 23	2000	1,120	4.70	Mar. 31	1930	1,340	5.16

Minimum discharge, 2.1 ft³/s Aug. 23, gage height, 1.23 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	16	38	334	30	99	368	25	35	6.2	5.9	5.3
2	31	21	35	150	28	113	154	24	17	5.4	3.9	3.9
3	22	18	54	93	26	80	147	23	13	5.2	3.1	3.3
4	17	18	40	72	22	60	151	21	12	4.5	2.9	17
5	16	29	32	70	20	160	148	21	15	4.3	2.8	14
6	14	23	32	66	22	100	114	93	13	4.9	2.6	8.7
7	13	19	34	60	22	90	89	67	11	8.3	3.7	4.9
8	13	17	50	52	20	438	80	39	9.7	9.4	3.2	12
9	13	16	34	48	20	191	76	29	9.8	7.1	2.8	112
10	13	53	40	44	22	129	71	24	8.9	5.2	2.5	36
11	13	67	72	42	24	124	71	22	7.8	4.5	2.6	20
12	13	44	83	44	26	366	64	26	91	3.9	2.5	11
13	13	32	211	46	26	194	58	20	53	4.0	2.5	8.4
14	12	26	72	48	24	148	57	17	32	4.4	2.8	6.4
15	12	25	75	42	22	118	56	17	20	5.7	5.6	4.9
16	12	29	56	40	22	99	53	18	22	6.1	5.9	4.6
17	12	27	51	40	24	102	48	18	18	4.1	3.0	4.4
18	16	26	43	42	26	81	47	19	14	3.9	2.6	5.8
19	17	28	42	40	26	73	80	23	10	3.2	2.4	3.5
20	27	22	44	38	24	83	72	17	10	3.2	2.3	3.5
21	19	19	42	28	30	70	53	31	9.7	3.4	2.3	3.6
22	18	21	205	30	80	64	47	20	7.8	9.8	2.3	3.6
23	19	19	55	30	600	73	41	15	9.3	3.9	2.3	3.5
24	16	22	44	30	1150	96	38	14	7.3	3.3	2.4	3.2
25	14	25	40	28	484	84	35	12	5.8	3.2	4.9	3.7
26	25	22	36	26	181	78	36	12	5.2	15	4.2	3.1
27	24	20	38	28	120	143	34	14	4.8	9.5	4.5	7.6
28	21	27	210	30	90	389	32	27	5.2	4.4	6.7	6.8
29	27	44	876	30	---	195	31	18	9.8	3.5	29	4.6
30	23	28	381	28	---	126	28	13	8.1	3.2	10	4.1
31	18	---	134	28	---	423	---	31	---	4.7	9.5	---
TOTAL	546	803	3199	1727	3211	4589	2379	770	495.2	167.4	143.7	333.4
MEAN	17.6	26.8	103	55.7	115	148	79.3	24.8	16.5	5.40	4.64	11.1
MAX	31	67	876	334	1150	438	368	93	91	15	29	112
MIN	12	16	32	26	20	60	28	12	4.8	3.2	2.3	3.1
CFSM	.45	.69	2.63	1.42	2.94	3.79	2.03	.63	.42	.14	.12	.28
IN.	0.52	0.76	3.04	1.64	3.05	4.37	2.26	0.73	0.47	0.16	0.14	0.32

CAL YR 1984 TOTAL 23676.7 MEAN 64.7 MAX 1150 MIN 7.5 CFSM 1.65 IN. 22.53
WTR YR 1985 TOTAL 18363.7 MEAN 50.3 MAX 1150 MIN 2.3 CFSM 1.29 IN. 17.47

04230500 OATKA CREEK AT GARBUTT, NY

LOCATION.--Lat 43°00'36", long 77°47'30", Monroe County, Hydrologic Unit 04130003, on right bank 40 ft downstream from bridge on Union Street in Garbutt, 1.5 mi west of Scottsville, and 4.2 mi upstream from mouth.

DRAINAGE AREA.--200 mi².

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

REVISED RECORDS.--WSP 2112; WDR NY-82-3: Drainage area. WRD NY 1971: 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 560.86 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 5-8, 25-27, Jan. 8-10, 12-22, 30-31, Feb. 3-10, 14-16, 19-21, Feb. 28-Mar. 1 and Mar. 4-8. Records good except for periods of estimated daily discharges, which are fair. National Weather Service gage height telemeter at station. Satellite gage height and rain gage telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--40 years, 213 ft³/s, 14.46 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft³/s Mar. 31, 1960, gage height, 8.64 ft; minimum, 3.3 ft³/s Sept. 11, 12, 1958; minimum gage height, 1.88 ft June 19, 1959, result of regulation; minimum daily discharge, 13 ft³/s Oct. 30 to Nov. 1, 1966.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 31	0815	2,200	6.01	Apr. 2	0730	1,730	5.53
Feb. 25	0800	*4,010	*7.39				

Minimum discharge, 25 ft³/s Aug. 23, gage height, 2.29 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	75	100	1160	118	480	1370	136	145	50	39	29
2	87	71	90	1050	119	459	1560	130	142	48	38	28
3	96	69	110	924	110	437	939	129	104	49	36	27
4	101	72	108	591	92	350	744	123	83	48	35	26
5	89	74	120	382	90	370	674	122	75	46	35	31
6	83	73	100	323	92	560	629	129	71	49	35	29
7	78	82	84	295	92	540	521	224	68	50	35	28
8	75	78	92	250	92	640	424	220	66	47	35	29
9	75	75	112	190	92	958	375	161	63	48	34	31
10	74	72	112	210	100	1040	351	135	60	48	34	111
11	72	80	125	212	104	680	325	125	58	47	33	100
12	72	136	182	200	107	621	310	119	79	47	33	59
13	71	139	238	190	109	835	282	118	196	47	33	45
14	69	107	322	190	100	975	265	114	180	46	33	36
15	66	94	325	180	110	757	251	107	133	47	33	33
16	65	90	264	160	110	587	237	101	110	48	33	33
17	65	89	213	150	114	489	220	98	113	45	32	33
18	66	90	183	150	111	446	203	98	124	43	31	33
19	66	89	162	150	100	369	211	99	97	43	31	33
20	66	88	148	140	100	349	411	98	82	42	30	33
21	71	85	151	120	100	340	364	96	72	42	29	33
22	83	74	186	120	118	313	269	90	66	41	29	33
23	74	71	332	131	413	288	228	94	63	41	28	33
24	71	75	329	134	1660	300	201	84	59	41	28	34
25	70	73	210	133	3520	382	183	76	56	40	31	33
26	69	76	140	130	2500	349	174	72	54	42	29	33
27	70	79	130	128	1070	317	167	72	52	40	30	38
28	81	77	173	127	620	386	158	75	51	39	30	34
29	81	80	387	125	---	616	152	96	54	39	33	33
30	76	99	1480	120	---	726	145	90	53	38	31	32
31	79	---	1980	110	---	595	---	87	---	40	30	---
TOTAL	2347	2532	8688	8475	12063	16554	12343	3518	2629	1381	1006	1143
MEAN	75.7	84.4	280	273	431	534	411	113	87.6	44.5	32.5	38.1
MAX	101	139	1980	1160	3520	1040	1560	224	196	50	39	111
MIN	65	69	84	110	90	288	145	72	51	38	28	26
CFSM	.38	.42	1.40	1.36	2.15	2.67	2.05	.56	.44	.22	.16	.19
IN.	0.44	0.47	1.62	1.58	2.24	3.08	2.30	0.65	0.49	0.26	0.19	0.21

CAL YR 1984 TOTAL 102303 MEAN 280 MAX 2970 MIN 55 CFSM 1.40 IN. 19.03
WTR YR 1985 TOTAL 72679 MEAN 199 MAX 3520 MIN 26 CFSM .99 IN. 13.52

04230650 GENESEE RIVER AT BALLANTYNE BRIDGE, NEAR MORTIMER, NY

LOCATION.--Lat 43°05'32", long 77°40'50", Monroe County, Hydrologic Unit 04130003, on right bank 400 ft upstream from Ballantyne Bridge on State Highway 252, 1.6 mi west of Mortimer, and 2.8 mi upstream from Erie (Barge) Canal.

DRAINAGE AREA.--2,210 mi².

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORD.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily gage heights: Jan. 6-16. River regulated for operation of Erie (Barge) Canal, downstream powerplants, and at high stages by Mount Morris Lake (see station 04224000). Satellite and gage height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 19.33 ft Mar. 5, 1976; minimum, 8.20 ft Nov. 9, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 16.35 ft Feb. 25; minimum, 8.81 ft Nov. 23.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.09	12.10	11.69	13.20	12.05	13.17	15.20	12.04	12.13	12.07	11.89	11.78
2	12.08	12.04	10.83	13.60	12.10	14.02	15.51	12.00	11.96	11.98	11.85	11.81
3	12.07	12.09	9.95	12.75	11.95	14.33	14.38	11.89	12.14	11.99	11.66	11.80
4	12.08	12.13	9.57	12.76	11.95	14.28	14.15	11.72	12.02	12.01	11.43	11.83
5	11.90	11.97	9.80	13.17	11.91	13.58	14.32	11.95	11.94	11.94	11.27	11.92
6	12.07	12.11	9.70	13.10	11.97	14.11	14.03	11.98	12.00	11.93	11.08	11.97
7	12.22	11.98	9.94	12.70	11.95	13.87	13.45	11.90	11.90	12.01	11.05	11.99
8	12.19	12.10	11.36	12.75	11.78	13.76	13.34	12.02	11.90	12.02	11.03	12.07
9	12.13	11.94	10.28	12.45	11.47	14.60	12.99	11.57	11.96	12.02	11.06	11.72
10	12.07	11.99	11.07	12.10	11.69	14.10	12.84	11.49	12.00	11.98	11.18	11.39
11	12.10	12.27	11.31	11.90	11.75	13.52	12.50	11.99	11.87	11.95	11.24	11.47
12	12.01	12.40	10.24	11.90	11.96	13.35	12.30	11.79	11.98	11.89	11.25	11.83
13	11.96	12.29	10.99	12.10	12.08	14.27	12.17	12.06	11.95	11.82	11.36	11.98
14	12.13	11.87	11.73	12.10	12.06	14.31	11.90	12.03	11.95	11.83	11.59	11.98
15	12.26	12.11	11.69	12.10	12.15	14.36	12.21	12.01	12.11	11.90	11.71	11.90
16	12.17	12.10	11.47	11.90	12.22	13.95	12.21	12.00	12.11	12.03	11.76	11.78
17	12.13	11.82	11.90	12.26	12.11	13.74	12.06	12.09	12.07	11.95	11.77	11.72
18	12.15	11.84	11.99	12.07	12.24	13.54	12.00	11.97	12.17	11.84	11.77	11.67
19	12.03	11.77	11.89	12.22	11.87	13.23	11.94	12.11	12.03	11.90	11.75	11.69
20	11.90	11.33	11.69	12.20	11.61	13.00	12.24	12.05	12.06	11.96	11.76	11.70
21	12.11	10.65	12.09	12.24	10.23	12.66	12.32	11.90	11.93	11.95	11.75	11.66
22	11.85	9.76	11.73	12.24	9.22	12.43	12.19	12.05	11.92	11.91	11.75	11.52
23	12.09	9.02	12.54	12.32	10.36	11.83	12.12	12.03	11.96	11.80	11.63	11.47
24	12.17	9.40	12.17	12.32	13.77	11.46	11.98	11.91	12.08	11.72	11.58	11.50
25	12.15	9.69	12.04	12.26	16.10	12.17	11.88	11.93	12.00	11.66	11.67	11.50
26	12.10	9.43	11.69	12.14	14.87	12.97	12.06	12.15	12.00	11.80	11.71	11.41
27	12.20	9.21	11.61	12.35	12.80	12.91	12.06	11.97	11.98	11.84	11.74	11.53
28	12.16	9.27	11.80	12.17	12.23	12.99	11.93	11.88	11.93	11.87	11.70	11.55
29	12.07	9.19	11.62	12.09	---	13.46	11.92	12.07	11.87	11.89	11.74	11.52
30	12.37	9.88	13.34	12.24	---	13.79	12.05	11.95	11.95	11.94	11.84	11.54
31	12.17	---	13.50	12.01	---	13.80	---	12.04	---	11.91	11.86	---
MEAN	12.10	11.19	11.39	12.38	12.09	13.47	12.74	11.95	12.00	11.91	11.56	11.71
MAX	12.37	12.40	13.50	13.60	16.10	14.60	15.51	12.15	12.17	12.07	11.89	12.07
MIN	11.85	9.02	9.57	11.90	9.22	11.46	11.88	11.49	11.87	11.66	11.03	11.39

CAL YR 1984 MEAN 12.43 MAX 16.19 MIN 9.02
WTR YR 1985 MEAN 12.04 MAX 16.10 MIN 9.02

04231000 BLACK CREEK AT CHURCHVILLE, NY

LOCATION.--Lat 43°06'02", long 77°52'57", Monroe County, Hydrologic Unit 04130003, on right bank at east end of Carrol Street in Churchville, 100 ft downstream from main-line tracks of Penn Central Transportation Co., and 0.3 mi downstream from Black Creek Dam.

DRAINAGE AREA.--130 mi².

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

REVISED RECORDS.--WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 551.88 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 9 to Feb. 22. Records good except for estimated daily discharges with ice effect, which are fair. Prior to May 1952, small diversion by Penn Central Transportation Co. and slight regulation by pumping operations upstream from station. National Weather Service gage height telemeter at station. Satellite rain gage and gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--40 years, 114 ft³/s, 11.91 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,880 ft³/s Mar. 31, 1960, gage height, 9.44 ft; minimum, 0.22 ft³/s Aug. 19, 1970; minimum gage height, 0.93 ft Aug. 5-7, Sept. 15, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 31	1400	884	4.81	Apr. 2	0800	892	4.83
Feb. 25	1730	*2,690	*8.05				

Minimum discharge, 0.34 ft³/s Aug. 22, 23, gage height, 0.97 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	24	33	671	41	397	595	69	62	13	3.3	7.8
2	23	26	29	611	41	317	828	64	77	12	4.4	7.0
3	24	30	31	667	40	288	494	60	57	11	3.6	6.5
4	21	31	40	372	40	209	375	56	33	9.4	2.8	5.5
5	20	39	34	229	39	179	398	55	23	8.1	2.4	5.4
6	18	42	32	160	39	269	386	67	19	9.9	2.5	7.4
7	18	34	30	134	39	397	327	96	16	11	2.8	7.5
8	18	29	31	98	39	467	240	99	14	11	2.7	8.9
9	19	27	32	92	38	694	195	77	12	10	2.8	17
10	20	32	37	86	38	641	172	60	10	9.6	2.4	33
11	20	47	52	80	39	424	157	52	8.5	10	2.0	37
12	19	54	68	74	40	392	147	46	37	14	1.3	23
13	20	50	81	68	42	541	136	44	76	13	1.2	15
14	21	42	91	64	45	603	128	38	67	12	1.2	10
15	23	37	91	60	50	436	123	35	46	12	1.3	7.9
16	28	34	83	58	54	348	117	34	38	12	1.3	6.5
17	40	31	77	56	56	279	105	33	60	14	1.1	5.3
18	38	29	66	52	54	239	99	35	71	14	.92	4.9
19	31	28	58	50	50	205	108	38	60	11	1.8	4.2
20	28	26	54	48	45	188	159	37	38	9.0	1.5	3.9
21	27	24	51	46	50	174	221	34	29	8.6	1.0	3.6
22	26	20	89	45	70	155	174	33	23	8.8	.64	3.9
23	27	21	130	44	318	143	127	31	20	6.1	.60	4.6
24	27	22	127	42	1040	145	105	30	17	4.7	.62	5.6
25	30	22	93	42	2480	155	94	26	13	4.3	2.4	3.9
26	26	23	69	42	1670	161	88	24	11	4.8	5.1	4.2
27	26	22	62	43	791	144	82	28	9.9	5.9	8.2	9.8
28	27	26	76	44	466	159	77	36	9.9	4.4	8.2	7.3
29	27	32	208	44	---	234	75	43	13	3.0	10	5.9
30	26	32	461	43	---	278	73	38	14	2.3	11	4.9
31	24	---	830	42	---	285	---	43	---	2.6	6.4	---
TOTAL	763	936	3246	4207	7754	9546	6405	1461	984.3	281.5	97.48	277.4
MEAN	24.6	31.2	105	136	277	308	214	47.1	32.8	9.08	3.14	9.25
MAX	40	54	830	671	2480	694	828	99	77	14	11	37
MIN	18	20	29	42	38	143	73	24	8.5	2.3	.60	3.6
CFSM	.19	.24	.81	1.05	2.13	2.37	1.65	.36	.25	.07	.02	.07
IN.	0.22	0.27	0.93	1.20	2.22	2.73	1.83	0.42	0.28	0.08	0.03	0.08

CAL YR 1984 TOTAL 47780 MEAN 131 MAX 1430 MIN 11 CFSM 1.01 IN. 13.67
WTR YR 1985 TOTAL 35958.68 MEAN 98.5 MAX 2480 MIN .60 CFSM .76 IN. 10.29

04232000 GENESEE RIVER AT ROCHESTER, NY

LOCATION.--Lat 43°10'50", long 77°37'40", Monroe County, Hydrologic Unit 04130003, on right bank 40 ft downstream from Rochester Gas and Electric Corp. plant 5, 100 ft upstream from bridge on Driving Park Avenue in Rochester, and 6.4 mi upstream from mouth.

DRAINAGE AREA.--2,467 mi².

PERIOD OF RECORD.--April 1904 to September 1918, December 1919 to current year. Published as "at Driving Park Avenue," 1919-68.

REVISED RECORDS.--WSP 1912; WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 246.24 ft above National Geodetic Vertical Datum of 1929 (247.00 ft, Barge Canal datum). April 1904 to December 1910, nonrecording gage and December 1910 to September 1918, water-stage recorder at site 5 mi 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 3.00 ft higher.

REMARKS.--Estimated daily discharges: Oct. 1 to Dec. 29 and Apr. 23 to Sept. 30. Records poor. Extensive diurnal fluctuation caused by powerplants upstream from station. New York State Erie (Barge) Canal crosses river 5.4 mi upstream from station. Water diverted by the canal from Lake Erie is discharged into river from the west, the canal again diverting a smaller amount of water from river to the east. Additional regulation is provided by Rushford Lake and Mount Morris Lake.

AVERAGE DISCHARGE.--78 years, (water years 1905-18, 1921-85), 2,808 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,300 ft³/s Mar. 30, 1916, gage height, 15.3 ft site and datum then in use; maximum at present site, 34,400 ft³/s Mar. 19, 1942; maximum gage height, 17.08 ft Apr. 2, 1940, present datum; minimum discharge, less than 10 ft³/s, occurred during low-water periods when powerplant was shut down; minimum daily, 91 ft³/s Jan. 9, 29, Feb. 1, 8, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Discharge on Mar. 18, 1865, was about 54,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,400 ft³/s Feb. 25 at 1115 hours, gage height, 13.00 ft, result of regulation; minimum daily 446 ft³/s Aug. 24.

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

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1610	1580	2420	7640	1380	6610	12800	1710	1720	802	554	519
2	1670	1320	2340	8300	1330	9050	13000	1620	1760	768	538	504
3	1750	1220	2600	6720	1430	10100	10900	1570	1590	750	530	495
4	1570	1190	2500	5950	1420	9830	9300	1490	1220	715	532	486
5	1120	1190	2870	5720	1150	8260	9460	1460	1080	683	518	511
6	1080	1530	2690	5420	1260	9040	8910	1570	1040	695	502	513
7	1430	1790	2460	5250	1190	8650	7530	2200	959	707	499	488
8	1420	1520	2180	4800	1340	8740	6130	2260	902	706	498	507
9	1410	1350	2010	3910	1190	11400	5310	1850	858	693	497	634
10	1370	1500	2050	2850	1180	10300	4460	1590	826	697	488	1030
11	1300	2350	2350	2720	1280	8990	3660	1460	793	718	484	963
12	1090	2820	3680	2120	1250	8670	3520	1400	1130	715	480	761
13	1010	2670	4490	2140	1420	10400	3460	1480	2040	666	478	639
14	1040	2050	5550	2550	1460	10400	3220	1430	2220	651	471	574
15	1070	1790	5480	2700	1820	10200	2920	1310	1760	656	475	536
16	1070	1650	4930	2010	1770	9250	2850	1240	1450	671	478	519
17	1100	1600	3890	1580	1690	8190	2750	1210	1690	672	491	505
18	1110	1570	3300	2240	1700	7400	2560	1240	2050	721	497	495
19	990	1480	2910	2010	1740	6540	2700	1280	1770	699	505	489
20	903	1410	2830	1780	1730	5430	3350	1370	1380	642	494	493
21	913	1330	3140	1510	1930	4840	3710	1330	1230	610	473	481
22	948	1180	3630	1580	2060	4580	3790	1290	1140	596	462	466
23	934	1150	5420	1610	4410	4140	2940	1250	1050	574	450	464
24	960	1170	5020	1650	10900	3930	2580	1140	964	547	446	467
25	1020	1450	3530	1720	15000	4600	2350	1020	897	542	461	462
26	1020	1530	2620	1760	12000	5180	2220	970	875	567	467	462
27	1070	1280	2290	1660	8080	4890	2110	956	833	585	485	498
28	1250	1170	2600	1970	6000	5180	2000	1030	784	579	478	504
29	1370	1280	4920	1720	---	6470	1910	1200	794	566	553	516
30	2310	2320	7600	1740	---	7390	1830	1260	832	549	561	502
31	2030	---	8070	1560	---	8610	---	1260	---	554	543	---
TOTAL	38938	47440	112370	96890	89110	237260	144230	43446	37637	20296	15388	16483
MEAN	1256	1581	3625	3125	3183	7654	4808	1401	1255	655	496	549
MAX	2310	2820	8070	8300	15000	11400	13000	2260	2220	802	561	1030
MIN	903	1150	2010	1510	1150	3930	1830	956	784	542	446	462

CAL YR 1984 TOTAL 1474253 MEAN 4028 MAX 15600 MIN 373
WTR YR 1985 TOTAL 899488 MEAN 2464 MAX 15000 MIN 446

04232006 GENESEE RIVER AT CHARLOTTE DOCKS AT ROCHESTER, NY
(National stream-quality accounting network station)

WATER QUALITY RECORDS

LOCATION.--Lat 43°13'26", long 77°36'59", Monroe County, Hydrologic Unit 04130003, at Charlotte Docks, at the Rochester Cement Corp., in Rochester, 0.4 mi upstream from Rattlesnake Point, 1.6 mi upstream from Stutson Street Bridge, and 3.9 mi downstream from gaging station (04232000) at Rochester.

DRAINAGE AREA.--2,457 mi² at station 04232000.

PERIOD OF RECORD.--Water years 1971 to current year.
CHEMICAL DATA: 1971-72 (a), 1974 (b), 1975-82 (c), 1983-85 (b).
MINOR ELEMENTS DATA: 1971-73 (a), 1974-85 (b).
ORGANIC DATA: OC--1974 (a), 1975 (b), 1977 (b), 1978-80 (c), 1981 (b).
NUTRIENT DATA: 1971 (a), 1974 (b), 1975-82 (c), 1983-85 (b).
BIOLOGICAL DATA:
Bacteria--1974 (b), 1975-82 (c), 1983-85 (b).
Phytoplankton--1974 (b), 1975-77 (c), 1978-81 (b).
Periphyton--1975-80 (b).
SEDIMENT DATA: 1974 (b), 1975-82 (c), 1983-85 (b).

REMARKS.--Water-discharge data are based on records for station 04232000 Genesee River at Rochester.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	DISCHARGE, IN CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TURBIDITY (NTU)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
NOV 26...	1300	2100	738	8.0	3.5	5.5	745	12.0	93	2800
MAY 20...	1230	1900	905	8.4	19.0	4.0	755	8.4	92	K1900
JUN 12...	1300	2210	806	7.8	20.5	9.5	750	7.8	88	4300
AUG 20...	1100	285	844	7.6	25.0	2.0	757	5.2	64	K1300

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
NOV 26...	480	250	86	73	16	58	2.3	164	99	93
MAY 20...	K4	300	153	90	18	64	3.6	148	120	120
JUN 12...	860	230	108	69	14	70	3.4	123	99	120
AUG 20...	K1	210	98	62	13	93	3.8	111	95	150

K results based on colony count outside the ideal range (non-ideal colony count)

04232006 GENESEE RIVER AT CHARLOTTE DOCKS, ROCHESTER, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV 26...	.10	3.4	444	440	.89	.480	.50	.040	.020	.020
MAY 20...	.20	1.1	580	510	.88	.390	.70	.060	<.010	<.010
JUN 12...	.20	1.2	492	450	.78	.310	1.2	.140	<.010	<.010
AUG 20...	.30	1.3	503	490	.29	.480	1.3	.110	.090	.050

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV 26...	20	<1	51	<.5	<1	1	<3	3	12	3
MAY 20...	50	<1	64	<.5	<1	<1	<3	11	12	5
JUN 12...	10	<1	53	1.9	<1	2	<3	4	39	2
AUG 20...	440	3	56	<.5	1	<1	<3	3	15	7

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV 26...	13	65	.1	<10	1	<1	<1	950	<6	15
MAY 20...	31	28	.1	<10	1	<1	<1	1300	<6	11
JUN 12...	39	16	<.1	<10	4	<1	<1	920	<6	34
AUG 20...	28	120	.2	<10	6	<1	<1	790	<6	14

04232006 GENESEE RIVER AT CHARLOTTE DOCKS, ROCHESTER, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV								
26...	1305	40	17.0	3.0	738	8.3	3.5	11.1
26...	1310	40	17.0	7.0	738	8.0	3.5	11.1
26...	1315	40	17.0	12.0	735	7.9	3.5	10.9
26...	1320	40	17.0	15.0	734	7.9	3.5	11.0
26...	1325	100	14.0	3.0	739	8.0	3.5	11.5
26...	1330	100	14.0	7.0	738	8.0	3.5	11.5
26...	1335	100	14.0	12.0	738	8.0	3.5	11.3
26...	1340	180	10.0	3.0	736	8.1	3.5	11.5
26...	1345	180	10.0	7.0	738	8.1	3.5	11.5
26...	1350	180	10.0	10.0	739	8.1	3.5	11.3
MAY								
20...	1235	40	22.0	3.0	903	8.1	19.0	8.4
20...	1240	40	22.0	7.0	890	8.1	18.5	8.1
20...	1245	40	22.0	15.0	555	8.0	14.0	7.5
20...	1250	40	22.0	20.0	543	8.0	13.5	7.6
20...	1255	100	14.0	3.0	904	8.1	18.5	8.4
20...	1300	100	14.0	7.0	909	8.1	18.5	8.2
20...	1305	100	14.0	12.0	918	8.1	18.5	7.8
20...	1310	180	12.0	3.0	918	8.1	19.0	8.6
20...	1315	180	12.0	7.0	909	8.1	18.5	8.4
20...	1320	180	12.0	11.0	905	8.1	18.5	7.9
JUN								
12...	1305	40	20.0	3.0	810	7.8	20.5	7.0
12...	1310	40	20.0	7.0	811	7.8	20.5	7.1
12...	1315	40	20.0	12.0	811	7.8	20.5	6.8
12...	1320	40	20.0	18.0	810	7.8	20.5	6.6
12...	1325	100	16.0	3.0	807	7.8	20.5	7.1
12...	1330	100	16.0	7.0	807	7.8	20.5	7.1
12...	1335	100	16.0	11.0	809	7.8	20.5	6.9
12...	1340	100	16.0	15.0	805	7.8	20.5	6.8
12...	1345	140	12.0	3.0	800	7.8	20.5	7.1
12...	1350	140	12.0	7.0	800	7.8	20.5	7.2
12...	1355	140	12.0	11.0	801	7.8	20.5	6.6
AUG								
20...	1105	40	20.0	3.0	1000	7.4	25.5	5.6
20...	1110	40	20.0	8.0	979	7.4	25.0	4.9
20...	1115	40	20.0	13.0	516	7.5	21.0	4.6
20...	1120	40	20.0	18.0	363	7.5	18.0	5.8
20...	1125	100	14.0	3.0	1010	7.5	25.0	5.2
20...	1130	100	14.0	8.0	995	7.5	25.0	4.9
20...	1135	100	14.0	13.0	688	7.5	22.5	3.7
20...	1140	180	11.0	3.0	1010	7.6	25.0	5.7
20...	1145	180	11.0	7.0	1000	7.6	25.0	5.2
20...	1150	180	11.0	11.0	872	7.5	24.5	3.8

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	DISCHARGE, IN CUBIC FEET PER SECOND	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
26...	1300	2100	11	62	90
JUN					
12...	1300	2210	31	185	97
AUG					
20...	1100	590	25	40	75

04232040 IRONDEQUOIT CREEK NEAR PITTSFORD, NY

LOCATION.--Lat 43°03'15", long 77°29'28", Monroe County, Hydrologic Unit 04140101, on right bank 140 ft upstream from bridge on Thornell Road, 0.9 mi south of creek passage under Erie (Barge) Canal, and 2.7 mi southeast of Pittsford.

DRAINAGE AREA.--44.4 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955, 1961-62, 1964-66, 1968, and annual maximum, water years 1962-63, 1965-66, 1968-70, 1972. March 1980 to current year.

REVISED RECORDS.--WDR NY-81-3: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Prior to March 1980, nonrecording gage and crest-stage gage at site 150 ft downstream at same datum. Elevation of gage is 405 ft above National Geodetic Vertical Datum of 1929, from Corps of Engineers river-profile map.

REMARKS.--Estimated daily discharges: Dec. 6-14, Jan. 7-27, Jan. 31 to Feb. 12, Feb. 15-21, Mar. 2-7, 17-19, and Aug. 15-17. Records fair. Unpublished water-quality records are available in files of Monroe County Department of Health. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--5 years (water years 1981-85), 39.2 ft³/s, 11.99 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,140 ft³/s Mar. 12, 1962, gage height, 8.6 ft at site then in use; minimum discharge measured, 8.10 ft³/s Sept. 17, 1964; minimum gage height at present site, 2.98 ft Sept. 12, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 360 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 24	1100	*506	*7.52	No other peak greater than base discharge.			

Minimum discharge, 9.8 ft³/s Aug. 21-25, gage height, 3.11 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	27	36	150	28	57	248	27	74	20	16	17
2	32	27	36	176	27	54	93	25	40	18	16	14
3	33	27	33	63	25	42	69	25	28	18	16	14
4	30	28	33	45	23	33	73	25	24	18	15	13
5	29	33	29	42	25	45	71	25	29	17	13	17
6	28	32	28	39	24	54	64	45	31	17	12	17
7	27	29	28	35	23	49	52	57	24	17	13	14
8	27	27	29	32	22	124	47	39	22	16	14	29
9	27	26	31	33	23	225	46	31	23	16	14	27
10	28	34	35	31	25	98	43	28	23	17	13	30
11	28	41	38	30	27	76	42	26	21	17	13	22
12	27	38	42	31	30	104	41	28	71	16	12	19
13	27	33	49	31	34	175	42	33	76	15	12	19
14	27	31	46	32	35	92	44	26	57	14	12	17
15	27	29	41	31	30	74	44	23	39	18	11	16
16	26	28	39	31	29	61	43	23	36	27	11	16
17	26	27	36	29	30	54	41	25	49	20	10	16
18	28	25	33	30	29	45	39	28	38	18	10	16
19	30	25	31	31	28	46	60	33	27	15	10	16
20	36	25	33	26	30	53	79	28	28	14	10	16
21	34	25	34	24	30	48	50	29	38	14	9.9	17
22	33	23	76	26	46	44	40	26	24	14	9.8	17
23	32	23	56	28	224	44	36	22	22	14	9.8	19
24	30	25	41	29	459	46	34	22	20	14	9.8	15
25	28	25	38	29	275	51	32	21	17	15	13	14
26	29	25	28	28	102	44	32	21	17	16	15	13
27	29	25	28	29	74	40	32	24	17	19	19	23
28	29	28	38	30	57	52	31	31	17	16	14	23
29	29	40	125	30	---	72	32	29	22	16	15	18
30	29	35	249	29	---	53	29	24	22	15	18	16
31	28	---	84	28	---	82	---	35	---	14	22	---
TOTAL	902	866	1503	1258	1814	2137	1629	884	976	515	408.3	540
MEAN	29.1	28.9	48.5	40.6	64.8	68.9	54.3	28.5	32.5	16.6	13.2	18.0
MAX	36	41	249	176	459	225	248	57	76	27	22	30
MIN	26	23	28	24	22	33	29	21	17	14	9.8	13
CFSM	.66	.65	1.09	.91	1.46	1.55	1.22	.64	.73	.37	.30	.41
IN.	0.76	0.73	1.26	1.05	1.52	1.79	1.36	0.74	0.82	0.43	0.34	0.45

CAL YR 1984 TOTAL 18588 MEAN 50.8 MAX 371 MIN 18 CFSM 1.14 IN. 15.57
WTR YR 1985 TOTAL 13432.3 MEAN 36.8 MAX 459 MIN 9.8 CFSM .83 IN. 11.25

04232046 THOMAS CREEK AT FAIRPORT, NY

LOCATION.--Lat 43°06'22, long 77°27'44", Monroe County, Hydrologic Unit 04140101, on right bank 48 ft upstream from culvert on Foreman Center Road, 0.5 mi northwest of Fairport, and 0.8 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--28.5 mi^2, flow from 0.86 mi^2 noncontributing.

PERIOD OF RECORD.--March 1980 to current year.

REVISED RECORDS.--WDR NY-81-3: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 403 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 6-8, 25-27, Jan. 4, 8-12, 15-29, 31, Feb. 2-21, 28, Mar. 3-7. Records fair except for Oct. 1 to Nov. 25, which are poor. Unpublished water-quality records are available in files of Monroe County Health Department. Discharge subsequent to July 20, 1983 includes undetermined diversion (maximum 25 ft^3/s) from Erie (Barge) Canal upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--5 years (water years 1981-85), 16.7 ft^3/s, 8.22 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 232 ft^3/s Feb. 15, 1984, gage height, 2.71 ft; maximum gage height, 3.62 ft Jan. 12, 1982 (ice jam); minimum discharge, 2.0 ft^3/s Aug. 19, 20, Sept. 10, 1982; minimum gage height, 1.22 ft June 7, 8, 13, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Feb. 24	1745	*181	*2.49	No other peak greater than base discharge.			

Minimum discharge, 2.4 ft^3/s July 25, 26, Aug. 19, gage height, 1.34 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	5.9	7.0	57	6.5	42	69	8.3	14	6.8	4.3	4.0
2	7.2	6.8	4.3	67	5.8	36	63	8.3	9.1	6.4	4.0	3.4
3	6.4	6.2	5.6	49	5.4	30	38	8.3	7.3	6.4	3.6	3.2
4	6.3	7.9	4.8	27	5.0	23	33	8.3	6.4	7.0	3.3	3.1
5	5.8	14	4.2	19	5.6	24	34	8.7	7.7	6.2	3.1	12
6	5.4	11	3.8	15	5.6	32	32	16	6.8	7.1	3.1	7.7
7	5.4	8.4	3.6	13	5.0	37	25	18	5.4	6.8	3.1	4.8
8	5.4	7.1	3.5	12	4.4	54	19	31	5.5	5.4	3.2	7.5
9	5.4	7.1	3.8	11	4.4	80	17	47	5.5	5.7	3.1	7.4
10	5.4	11	4.6	10	5.8	73	15	50	5.5	5.6	3.0	14
11	5.4	14	6.4	10	7.4	56	13	47	5.4	5.4	3.2	8.5
12	5.6	11	7.1	9.8	9.8	59	13	39	19	6.4	3.4	5.6
13	5.9	10	8.9	9.2	12	74	11	34	21	5.2	3.5	4.9
14	5.8	9.8	9.3	9.4	11	60	10	29	17	4.8	3.5	4.2
15	5.4	9.1	9.0	9.2	11	40	9.5	16	17	5.8	5.2	4.2
16	5.4	9.4	7.6	8.6	11	30	9.1	4.1	15	5.1	4.0	4.1
17	5.1	8.5	6.8	8.0	9.8	24	8.0	4.2	15	4.3	3.1	3.9
18	6.0	7.8	5.8	7.6	10	22	7.8	4.3	11	3.9	2.8	3.8
19	5.6	7.5	5.6	6.8	8.8	18	21	4.7	8.5	3.6	2.7	3.8
20	6.3	7.4	6.2	6.4	9.2	18	32	4.4	7.1	3.5	2.7	3.8
21	6.7	7.1	6.0	5.8	9.2	16	23	7.7	6.4	3.3	3.1	3.7
22	8.2	6.9	15	5.6	18	14	16	5.6	6.4	3.2	3.1	3.7
23	6.5	6.9	14	5.8	64	13	12	4.2	6.4	3.1	3.1	3.4
24	6.4	6.6	11	6.2	143	14	10	4.0	6.4	3.1	3.4	3.9
25	6.1	6.4	8.6	6.6	151	13	9.8	3.6	6.4	2.9	5.0	3.9
26	7.1	17	8.0	6.6	96	12	9.8	3.7	6.4	3.9	5.6	3.5
27	6.4	25	7.4	8.0	71	11	9.4	4.6	6.4	4.6	6.0	9.2
28	6.4	21	9.8	9.4	56	18	9.1	4.9	6.5	4.0	4.2	6.4
29	6.7	17	36	8.6	---	21	9.0	4.3	11	3.7	4.2	5.0
30	6.4	7.2	72	7.1	---	20	8.4	4.2	7.8	3.5	4.3	4.3
31	6.4	---	58	8.2	---	30	---	11	---	3.9	6.1	---
TOTAL	189.0	301.0	363.7	442.9	761.7	1014	595.9	448.4	279.3	150.6	116.0	160.9
MEAN	6.10	10.0	11.7	14.3	27.2	32.7	19.9	14.5	9.31	4.86	3.74	5.36
MAX	8.2	25	72	67	151	80	69	50	21	7.1	6.1	14
MIN	5.1	5.9	3.5	5.6	4.4	11	7.8	3.6	5.4	2.9	2.7	3.1
CFSM	.22	.36	.42	.52	.98	1.18	.72	.52	.34	.18	.14	.19
IN.	0.25	0.40	0.49	0.59	1.02	1.36	0.80	0.60	0.38	0.20	0.16	0.22

CAL YR 1984 TOTAL 7209.9 MEAN 19.7 MAX 219 MIN 3.0 CFSM .71 IN. 9.68
WTR YR 1985 TOTAL 4823.4 MEAN 13.2 MAX 151 MIN 2.7 CFSM .48 IN. 6.48

04232047 IRONDEQUOIT CREEK AT LINDEN AVENUE, EAST ROCHESTER, NY

LOCATION.--Lat 43°07'16", long 77°28'36", Monroe County, Hydrologic Unit 04140101, on left bank 200 ft upstream from bridge on Linden Avenue, 2.2 mi upstream from Allen Creek, and 7.8 mi upstream from mouth.

DRAINAGE AREA.--101 mi², flow from 4.95 mi² noncontributing.

PERIOD OF RECORD.--August 1973 to current year.

REVISED RECORDS.--WDR NY-78-1: 1977. WDR NY-81-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 341.46 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharge: Dec. 7, 25-27, Jan. 5-11, 15-29, Jan. 31 to Feb. 21, Feb. 28, Mar. 3-7, 17-19. Records good except for estimated daily discharges with ice effect, which are fair. Prior to 1980, flow of undetermined magnitude diverted from Erie (Barge) Canal into Thomas Creek, a tributary upstream from station; diversion resumed July 20, 1983. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--12 years, 92.7 ft³/s, 12.46 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft³/s Oct. 29, 1974, gage height, 15.64 ft (result of dewatering of Erie (Barge) Canal through accidental break in canal wall at Bushnell Basin); minimum discharge, 13 ft³/s Aug. 19, 1985; minimum gage height, 11.15 ft July 19, 1981, Aug. 6, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 570 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 24	1945	*848	*14.43	No other peak greater than base discharge.			

Minimum discharge, 13 ft³/s Aug. 19, gage height, 11.19 ft; minimum gage height, 11.15 ft Aug. 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	37	56	325	45	121	404	46	108	35	27	31
2	48	42	53	328	43	114	226	45	59	33	24	26
3	44	40	55	167	40	94	144	43	44	35	23	23
4	40	43	51	107	37	74	137	41	39	34	21	21
5	38	56	45	84	40	96	144	42	49	30	21	53
6	37	50	44	72	39	110	128	76	51	35	21	36
7	36	43	44	66	37	110	99	85	46	35	21	22
8	37	40	44	60	35	239	85	73	43	32	21	47
9	37	39	46	60	37	394	80	73	45	33	22	48
10	37	54	50	58	41	245	75	76	44	32	23	73
11	37	68	63	54	46	181	72	73	39	30	24	43
12	35	57	70	54	52	231	68	71	138	35	23	35
13	35	49	82	54	60	329	65	78	128	29	23	33
14	35	47	78	54	60	216	65	68	89	29	23	29
15	35	45	68	52	56	155	64	54	61	35	33	27
16	34	44	63	52	52	123	61	41	65	37	20	26
17	33	43	57	49	52	110	57	41	77	30	16	26
18	38	41	51	50	52	96	56	43	63	27	15	25
19	39	40	49	50	49	92	118	50	48	25	15	24
20	45	38	53	44	50	96	151	44	42	25	14	24
21	45	37	51	39	50	87	104	50	56	25	16	23
22	49	37	116	41	100	81	84	42	42	26	17	23
23	43	37	104	44	429	81	72	37	37	24	17	23
24	40	37	74	46	766	85	64	35	34	22	20	25
25	38	37	62	47	603	88	58	33	31	22	39	25
26	42	50	48	46	289	78	56	34	30	27	35	24
27	42	68	49	48	189	71	55	40	28	28	53	45
28	40	70	72	50	120	102	55	46	29	24	32	37
29	42	76	262	49	---	119	54	42	47	23	31	29
30	40	58	413	47	---	94	51	36	38	22	40	26
31	37	---	223	47	---	171	---	65	---	25	45	---
TOTAL	1219	1423	2596	2344	3469	4283	2952	1623	1650	904	775	952
MEAN	39.3	47.4	83.7	75.6	124	138	98.4	52.4	55.0	29.2	25.0	31.7
MAX	49	76	413	328	766	394	404	85	138	37	53	73
MIN	33	37	44	39	35	71	51	33	28	22	14	21
CFSM	.41	.49	.87	.79	1.29	1.44	1.02	.55	.57	.30	.26	.33
IN.	0.47	0.55	1.01	0.91	1.34	1.66	1.14	0.63	0.64	0.35	0.30	0.37

CAL YR 1984 TOTAL 34821 MEAN 95.1 MAX 724 MIN 28 CFSM .99 IN. 13.49
WTR YR 1985 TOTAL 24190 MEAN 66.3 MAX 766 MIN 14 CFSM .69 IN. 9.37

04232050 ALLEN CREEK NEAR ROCHESTER, NY

LOCATION.--Lat 43°07'49", long 77°31'08", Monroe County, Hydrologic Unit 04140101, on right bank 525 ft downstream from Penn Central Transportation Co. bridge, near Rochester, and about 1.3 mi upstream from Irondequoit Creek.

DRAINAGE AREA.--30.1 mi^2, flow from 3.5 mi^2 noncontributing.

PERIOD OF RECORD.--November 1959 to current year.

REVISED RECORDS.--WRD NY 1974: 1972(M), 1973(M, P). WDR NY-76-1: 1960-75 (M, P), 1960-63, 1972-74.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 323.54 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-8, 21, 25, 26, Jan. 6 to Feb. 11, Feb. 14-16, 19-21, Mar. 2-7, 17-19, Apr. 5-8, Sept. 4-11, 16, 18, 20. Records good except those for Oct. 1 to Dec. 12, which are fair and estimated daily discharges with ice effect, Jan. 6 to Feb. 11, which are poor. Discharge prior to January 1980 included undetermined diversion (maximum 20 ft^3/s) from Erie (Barge) Canal upstream from station. January 1980 to present, diversion reduced to a maximum of 3 ft^3/s for use by Oak Hill Country Club. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--25 years (water years 1961-85), 32.8 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,280 ft^3/s May 17, 1974, gage height, 7.42 ft, from rating curve extended above 1,000 ft^3/s on basis of contracted-opening measurement of peak discharge and step-backwater analysis; minimum daily, 1.7 ft^3/s Jan. 24, 1963; minimum gage height, 1.16 ft Feb. 19, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Dec. 29	1945	460	4.15	Mar. 31	2245	692	4.55
Feb. 23	2130	*725	*4.60				

Minimum discharge, 5.2 ft^3/s Nov. 25, 28, gage height, 1.93 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	11	11	208	7.6	23	237	14	41	18	17	15
2	17	13	8.2	76	7.2	22	82	14	21	17	14	15
3	15	11	14	43	7.0	16	61	13	18	19	14	15
4	13	14	9.8	33	7.0	10	53	13	17	17	13	14
5	13	18	6.8	27	7.2	35	58	13	26	16	13	23
6	13	14	6.4	20	7.2	27	42	36	20	30	12	21
7	13	12	6.2	17	7.0	22	33	23	17	23	14	17
8	14	11	6.8	15	6.8	181	29	20	16	17	13	39
9	14	11	7.8	14	7.2	115	25	18	18	21	12	28
10	13	21	11	14	7.6	54	21	17	17	20	13	33
11	13	26	18	13	8.4	42	20	16	16	18	14	21
12	11	17	25	12	11	97	18	17	99	28	13	21
13	11	15	43	11	17	95	18	17	42	18	13	18
14	11	13	28	11	16	42	17	15	25	18	13	16
15	11	13	30	10	15	33	17	15	20	28	25	15
16	11	14	24	9.4	13	24	16	15	32	20	17	15
17	11	13	23	9.0	13	20	14	14	34	17	13	15
18	13	12	21	9.4	13	17	15	17	26	16	13	15
19	11	12	21	9.4	13	17	61	18	19	15	12	15
20	11	12	25	8.2	11	18	34	15	17	14	13	15
21	12	11	18	7.2	12	13	22	20	16	14	13	15
22	16	5.9	54	9.6	66	12	20	15	19	14	14	15
23	12	5.8	26	9.2	381	11	20	15	25	13	13	15
24	11	5.7	22	7.4	361	15	26	15	24	13	16	20
25	11	5.5	17	7.6	117	13	22	14	27	12	25	16
26	15	5.4	14	7.2	50	18	18	17	26	18	17	16
27	12	5.4	15	7.0	37	29	16	21	22	15	21	41
28	11	10	35	7.2	25	59	17	20	24	14	19	19
29	13	15	214	7.0	---	46	16	17	31	12	21	17
30	11	7.8	125	7.2	---	30	15	16	18	13	18	16
31	11	---	50	7.6	---	202	---	40	---	16	19	---
TOTAL	389	360.5	936.0	653.6	1251.2	1358	1063	550	773	544	477	576
MEAN	12.5	12.0	30.2	21.1	44.7	43.8	35.4	17.7	25.8	17.5	15.4	19.2
MAX	17	26	214	208	381	202	237	40	99	30	25	41
MIN	11	5.4	6.2	7.0	6.8	10	14	13	16	12	12	14

CAL YR 1984 TOTAL 13063.5 MEAN 35.7 MAX 456 MIN 5.4
WTR YR 1985 TOTAL 8931.3 MEAN 24.5 MAX 381 MIN 5.4

0423205010 IRONDEQUOIT CREEK AT BLOSSOM ROAD, ROCHESTER, NY

LOCATION.--Lat 43°08'50", long 77°30'48", Monroe County, Hydrologic Unit 04140101, on right bank 120 ft downstream from bridge on Blossom Road, 1.6 mi east of Rochester, 2.5 mi downstream from Allen Creek, and 3.6 mi upstream from mouth.

DRAINAGE AREA.--143 mi^2, flow from 8.45 mi^2 noncontributing.

PERIOD OF RECORD.--Occasional discharge measurements water years 1977-80. December 1980 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 246.31 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Estimated daily discharges: Dec. 6-8, 25, 26, Feb. 5-21, 24, and Mar. 3-7, 16-19. Records fair except those above 300 ft^3/s and those for estimated daily discharges, which are poor. Discharge includes undetermined diversion from Erie (Barge) Canal. Water-quality sampling site operated by Monroe County Department of Health; data in files of that organization. Several measurements of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,370 ft^3/s Feb. 14, 1984, gage height, 7.91 ft; minimum, 28 ft^3/s Sept. 11, 14, 1982, gage height, 1.69 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Feb. 24	2315	*1,290	*7.86	No other peak greater than base discharge.			

Minimum discharge, 29 ft^3/s Aug. 17, 20, gage height, 1.90 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	57	84	501	68	217	670	71	161	53	52	49
2	72	65	78	483	66	201	405	69	93	50	44	43
3	67	62	86	274	62	170	265	67	68	53	39	41
4	60	66	79	190	58	140	217	62	59	52	37	38
5	57	93	67	150	62	180	176	63	78	44	35	98
6	55	80	64	130	60	190	175	119	77	61	34	76
7	55	68	62	120	58	180	169	123	68	67	35	48
8	56	63	64	110	54	388	150	107	63	51	36	96
9	57	51	66	110	60	560	145	101	63	58	32	87
10	57	60	76	100	66	392	155	103	65	60	32	142
11	57	80	100	98	74	288	177	100	56	51	34	77
12	55	66	113	96	86	363	139	96	236	70	33	65
13	56	59	149	98	100	470	123	104	183	52	32	60
14	56	58	131	100	100	333	117	93	130	48	33	53
15	56	57	120	94	96	246	114	78	94	77	57	50
16	55	100	108	86	88	200	111	60	104	70	41	47
17	53	111	99	82	88	170	103	58	120	53	33	47
18	62	87	90	84	86	150	102	60	104	47	31	44
19	61	77	87	82	82	150	198	74	77	44	30	43
20	68	70	97	72	80	153	216	63	64	44	29	41
21	70	66	88	62	84	140	158	74	80	43	30	40
22	80	57	199	66	163	129	128	62	64	44	30	40
23	67	55	163	70	609	127	112	54	57	42	30	40
24	62	56	123	70	1100	135	106	51	51	39	34	48
25	60	55	100	72	932	137	98	48	46	37	60	47
26	68	64	82	70	519	126	91	50	44	49	46	43
27	65	90	86	72	336	131	86	64	43	51	77	88
28	61	94	127	74	237	183	85	73	44	44	51	63
29	65	113	415	74	---	202	86	65	80	40	58	49
30	61	85	591	72	---	160	78	55	60	39	55	44
31	58	---	347	72	---	289	---	101	---	45	65	---
TOTAL	1894	2165	4141	3834	5474	6900	4955	2368	2532	1578	1265	1747
MEAN	61.1	72.2	134	124	196	223	165	76.4	84.4	50.9	40.8	58.2
MAX	80	113	591	501	1100	560	670	123	236	77	77	142
MIN	53	51	62	62	54	126	78	48	43	37	29	38

CAL YR 1984 TOTAL 52443 MEAN 143 MAX 1140 MIN 38
WTR YR 1985 TOTAL 38853 MEAN 106 MAX 1100 MIN 29

04232100 STERLING CREEK AT STERLING, NY

LOCATION.--Lat 43°19'31", long 76°38'51", Cayuga County, Hydrologic Unit 04140101, on right bank at Sterling, 25 ft downstream from bridge on State Highway 104A, 1.8 mi southwest of Sterling Valley, and 1.9 mi upstream from Sterling Valley Creek.

DRAINAGE AREA.--44.4 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 264.69 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-8, 25-28, Jan. 4-24, Jan. 26 to Feb. 11, Feb. 14-21, 28, and Mar. 3-7. Records good except those above 300 ft³/s and estimated daily discharges, which are fair. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--28 years (water years 1958-85), 66.5 ft³/s, 20.34 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,760 ft³/s, revised, Mar. 22, 1980, gage height, 5.99 ft; minimum, 0.32 ft³/s Sept. 14, 1966, gage height, 1.50 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 630 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 25	2115	*840	*4.22	No other peak greater than base discharge.			

Minimum discharge, 1.7 ft³/s Aug. 12-14, gage height, 1.62 ft.

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supersede figures published in WSP 1677, 1707, and the reports for 1979 and 1980.

Water Year	Date	Discharge (ft³/s)	Gage Height (ft)	Water Year	Date	Discharge (ft³/s)	Gage Height (ft)
1960	Apr. 4, 1960	1,300	5.13	1980	Mar. 22, 1980	1,760	5.99
1979	Mar. 6, 1979	1,520	5.56				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	109	359	38	237	104	26	13	9.0	3.6	13
2	17	22	100	382	37	226	99	24	13	7.6	3.3	8.2
3	17	22	96	267	31	190	94	23	13	5.7	2.9	7.1
4	16	22	96	160	33	100	100	23	11	5.2	2.6	4.4
5	18	36	78	110	34	110	105	23	11	4.7	2.5	7.9
6	15	42	54	84	35	110	107	33	11	4.7	2.5	10
7	13	42	48	68	35	110	93	52	11	6.0	2.4	8.5
8	14	35	60	50	37	125	80	52	9.7	6.4	2.2	7.3
9	15	31	61	45	38	190	70	43	9.3	5.6	2.2	7.3
10	15	39	66	42	39	215	63	36	9.8	4.6	2.2	9.9
11	14	55	85	47	41	252	58	28	9.1	4.6	1.9	8.5
12	13	62	115	48	44	392	53	34	24	4.3	1.7	7.1
13	13	68	251	50	49	435	47	43	39	4.6	1.7	6.8
14	12	62	246	50	54	349	44	31	47	5.0	2.3	5.8
15	11	53	202	48	54	246	44	27	35	15	7.5	4.6
16	11	46	159	47	52	166	41	22	39	28	8.0	4.2
17	11	45	126	44	54	134	39	20	79	17	3.4	3.7
18	9.9	43	101	47	56	110	36	19	62	14	2.3	3.6
19	10	39	86	47	56	94	38	17	49	11	2.2	3.3
20	13	34	79	42	54	91	54	14	36	9.2	2.2	3.2
21	13	33	74	56	52	81	50	14	28	7.4	2.2	2.9
22	18	31	153	52	68	73	43	13	23	6.3	1.9	2.8
23	19	30	164	48	273	69	38	12	19	6.3	1.9	2.8
24	18	29	153	47	627	65	33	11	15	5.9	2.0	3.2
25	17	28	120	45	779	64	31	10	12	3.9	2.9	3.4
26	25	27	84	44	699	61	30	8.9	10	4.3	3.3	3.3
27	27	25	76	42	500	57	29	11	9.1	4.4	3.6	10
28	25	29	96	42	330	68	28	13	8.4	3.3	2.9	20
29	29	93	302	41	---	86	28	11	8.4	3.2	2.5	14
30	25	121	428	38	---	72	28	10	9.4	2.8	6.0	11
31	21	---	300	37	---	63	---	9.7	---	3.1	21	---
TOTAL	512.9	1264	4168	2529	4199	4641	1707	713.6	673.2	223.1	109.8	207.8
MEAN	16.5	42.1	134	81.6	150	150	56.9	23.0	22.4	7.20	3.54	6.93
MAX	29	121	428	382	779	435	107	52	79	28	21	20
MIN	9.9	20	48	37	31	57	28	8.9	8.4	2.8	1.7	2.8
CFSM	.37	.95	3.02	1.84	3.38	3.38	1.28	.52	.50	.16	.08	.16
IN.	0.43	1.06	3.49	2.12	3.52	3.89	1.43	0.60	0.56	0.19	0.09	0.17

CAL YR 1984 TOTAL 27415.1 MEAN 74.9 MAX 1010 MIN 2.8 CFSM 1.69 IN. 22.97
WTR YR 1985 TOTAL 20948.4 MEAN 57.4 MAX 779 MIN 1.7 CFSM 1.29 IN. 17.55

04232400 SENECA LAKE AT WATKINS GLEN, NY

LOCATION.--Lat 42°23'00", long 76°52'05", Schuyler County, Hydrologic Unit 04140201, on east bank about 300 ft from lake on shorter of two boat slips at Watkins Glen.

DRAINAGE AREA.--704 mi².

PERIOD OF RECORD.--October 1956 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datm of 1929 (1.59 ft Barge Canal datum). Prior to Oct. 1, 1975, at datum 438.41 ft higher.

REMARKS.--Area of water surface, 67.6 mi². 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 and Gas Corp.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 448.88 ft June 25, 1972; minimum, 442.64 ft Mar. 14, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 445.26 ft June 24; minimum, 443.51 ft Feb. 21.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	444.98	444.90	444.36	444.54	443.83	443.88	444.56	444.79	444.85	445.11	444.93	444.45
2	445.01	444.92	444.39	444.60	443.84	443.94	444.59	444.78	444.85	445.08	444.90	444.42
3	444.92	444.92	444.39	444.58	443.81	443.97	444.57	444.79	444.88	445.08	444.85	444.46
4	444.95	444.78	444.44	444.52	443.80	443.97	444.59	444.77	444.88	445.10	444.85	444.40
5	444.96	444.79	444.44	444.51	443.80	444.00	444.61	444.77	444.87	445.06	444.78	444.48
6	444.89	444.82	444.51	444.44	443.84	443.97	444.65	444.81	444.88	445.06	444.74	444.44
7	444.83	444.76	444.47	444.42	443.83	443.88	444.71	444.85	444.87	445.09	444.71	444.49
8	444.82	444.66	444.41	444.40	443.84	443.88	444.74	444.87	444.87	445.08	444.76	444.45
9	444.88	444.56	444.38	444.32	443.83	443.99	444.77	444.83	444.84	445.07	444.77	444.53
10	444.89	444.52	444.36	444.25	443.81	444.04	444.76	444.83	444.87	445.09	444.70	444.55
11	444.86	444.54	444.37	444.22	443.78	444.06	444.73	444.83	444.89	445.07	444.76	444.56
12	444.88	444.53	444.33	444.21	443.79	444.14	444.71	444.85	444.94	445.07	444.76	444.48
13	444.87	444.53	444.41	444.20	443.74	444.24	444.72	444.88	444.96	445.04	444.66	444.51
14	444.86	444.51	444.45	444.20	443.69	444.24	444.70	444.90	444.95	445.02	444.69	444.44
15	444.87	444.44	444.49	444.20	443.65	444.25	444.74	444.86	444.95	445.05	444.68	444.41
16	444.83	444.44	444.48	444.10	443.63	444.20	444.78	444.82	444.99	445.09	444.75	444.39
17	444.81	444.42	444.53	444.03	443.63	444.19	444.79	444.80	445.03	445.08	444.70	444.33
18	444.85	444.39	444.54	444.00	443.63	444.18	444.76	444.80	445.01	445.04	444.62	44.34
19	444.83	444.37	444.55	444.00	443.63	444.08	444.83	444.80	445.01	444.99	444.60	444.34
20	444.85	444.30	444.55	443.98	443.61	444.10	444.91	444.78	445.04	445.01	444.68	444.32
21	444.84	444.25	444.52	443.94	443.57	444.10	444.93	444.82	445.06	445.00	444.62	444.33
22	444.86	444.21	444.55	443.94	443.57	444.07	444.94	444.81	445.04	444.96	444.63	444.32
23	444.91	444.18	444.53	443.90	443.67	444.10	444.91	444.81	445.07	445.02	444.56	444.26
24	444.86	444.17	444.52	443.89	443.84	444.15	444.83	444.81	445.13	444.89	444.54	444.28
25	444.84	444.16	444.56	443.89	443.99	444.20	444.80	444.81	445.15	444.80	444.52	444.28
26	444.88	444.16	444.56	443.90	443.98	444.20	444.76	444.80	445.15	444.89	444.54	444.20
27	444.86	444.15	444.52	443.88	443.99	444.19	444.78	444.80	445.13	444.96	444.54	444.34
28	444.87	444.18	444.48	443.88	443.93	444.25	444.77	444.86	445.12	444.87	444.53	444.36
29	444.98	444.29	444.50	443.87	---	444.32	444.78	444.87	445.14	444.84	444.54	444.23
30	444.95	444.30	444.56	443.83	---	444.36	444.77	444.82	445.14	444.89	444.49	444.26
31	444.95	---	444.54	443.79	---	444.38	---	444.80	---	444.91	444.58	---
MEAN	444.89	444.47	444.47	444.14	443.77	444.11	444.75	444.82	444.99	445.01	444.68	444.39
MAX	445.01	444.92	444.56	444.60	443.99	444.38	444.94	444.90	445.15	445.11	444.93	444.56
MIN	444.81	444.15	444.33	443.79	443.57	443.88	444.56	444.77	444.84	444.80	444.49	444.20

CAL YR 1984 MEAN 444.96 MAX 446.26 MIN 443.65
WTR YR 1985 MEAN 444.55 MAX 445.15 MIN 443.57

04232450 KEUKA INLET (KEUKA LAKE) AT HAMMONDSPORT, NY
(Formerly published as Keuka Lake at Hammondsport)

LOCATION.--Lat 42°24'22", long 77°13'08", Steuben County, Hydrologic Unit 04140201, on left bank of Keuka Inlet at end of Liberty Street extension at Hammondsport, and 300 ft upstream from mouth.

DRAINAGE AREA.--Keuka Inlet 25.0 mi²; Keuka Lake at mouth 182 mi².

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WSP 2112: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 1, 1975, at datum 710.00 ft higher.

REMARKS.--Lake regulated by village of Penn Yan; prior to July 1962, by New York State Electric and Gas Corp. Area of water surface, 18.3 mi². During each year, a large part of flow from 45.5 mi² of drainage area of Mud Creek (Susquehanna River basin) is diverted into Keuka Lake for power development. For table of diversion, see station 01528700.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 719.35 ft June 24, 1972; minimum daily, 711.40 ft Feb. 2, 3, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 714.50 June 12; minimum, 712.32 ft Jan.30, 31, Feb. 3, 4.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	713.41	713.19	712.79	712.87	712.36	712.92	713.65	714.07	714.33	713.97	713.85	713.51
2	713.40	713.17	712.82	712.91	712.36	712.91	713.73	714.07	714.33	713.96	713.86	713.48
3	713.34	713.14	712.82	712.91	712.35	712.91	713.76	714.08	714.35	713.95	713.85	713.47
4	713.36	713.07	712.82	712.88	712.36	712.90	713.80	714.06	714.35	713.95	713.82	713.46
5	713.36	713.08	712.81	712.86	712.39	712.93	713.79	714.07	714.35	713.93	713.80	713.48
6	713.34	713.07	712.83	712.83	712.43	712.93	713.78	714.09	714.35	713.94	713.78	713.48
7	713.31	713.04	712.80	712.82	712.43	712.90	713.79	714.11	714.34	713.94	713.74	713.48
8	713.30	712.99	712.76	712.81	712.44	712.92	713.77	714.14	714.33	713.94	713.72	713.49
9	713.32	712.93	712.75	712.78	712.44	713.02	713.76	714.12	714.33	713.94	713.73	713.55
10	713.32	712.91	712.74	712.75	712.44	713.05	713.72	714.12	714.33	713.95	713.72	713.57
11	713.32	712.92	712.74	712.73	712.44	713.07	713.70	714.12	714.34	713.96	713.70	713.53
12	713.31	712.90	712.73	712.70	712.48	713.19	713.70	714.15	714.39	713.95	713.71	713.49
13	713.31	712.86	712.78	712.66	712.49	713.36	713.70	714.19	714.34	713.98	713.69	713.48
14	713.31	712.83	712.80	712.63	712.50	713.43	713.68	714.22	714.31	713.98	713.68	713.45
15	713.30	712.78	712.80	712.61	712.52	713.45	713.68	714.21	714.25	713.97	713.68	713.42
16	713.29	712.74	712.78	712.57	712.53	713.45	713.70	714.22	714.23	713.96	713.72	713.41
17	713.29	712.73	712.79	712.56	712.52	713.45	713.74	714.24	714.22	713.99	713.71	713.39
18	713.32	712.70	712.78	712.55	712.52	713.44	713.74	714.26	714.18	713.99	713.67	713.37
19	713.31	712.68	712.78	712.51	712.52	713.41	713.81	714.25	714.14	713.99	713.63	713.37
20	713.33	712.66	712.79	712.47	712.53	713.40	713.89	714.24	714.09	713.97	713.64	713.35
21	713.31	712.65	712.78	712.46	712.50	713.40	713.93	714.27	714.07	713.95	713.63	713.36
22	713.35	712.64	712.83	712.47	712.49	713.36	713.96	714.29	714.02	713.93	713.62	713.34
23	713.34	712.62	712.85	712.48	712.58	713.34	713.98	714.29	714.00	713.92	713.59	713.32
24	713.34	712.62	712.83	712.47	712.75	713.34	713.97	714.28	713.97	713.86	713.57	713.32
25	713.33	712.62	712.83	712.46	712.89	713.35	714.00	714.28	713.93	713.82	713.57	713.31
26	713.35	712.62	712.82	712.45	712.92	713.31	714.02	714.27	713.94	713.85	713.56	713.28
27	713.32	712.62	712.80	712.45	712.93	713.28	714.03	714.27	713.93	713.88	713.55	713.37
28	713.30	712.63	712.79	712.42	712.93	713.30	714.04	714.33	713.91	713.87	713.54	713.36
29	713.34	712.74	712.81	712.37	---	713.32	714.05	714.33	713.97	713.85	713.53	713.33
30	713.29	712.75	712.86	712.35	---	713.34	714.06	714.30	713.99	713.83	713.53	713.32
31	713.28	---	712.85	712.36	---	713.40	---	714.29	---	713.85	713.53	---
MEAN	713.33	712.83	712.80	712.62	712.54	713.22	713.83	714.20	714.19	713.93	713.67	713.42
MAX	713.41	713.19	712.86	712.91	712.93	713.45	714.06	714.33	714.39	713.99	713.86	713.57
MIN	713.28	712.62	712.73	712.35	712.35	712.90	713.65	714.06	713.91	713.82	713.53	713.28

CAL YR 1984 MEAN 714.04 MAX 716.15 MIN 712.46
WTR YR 1985 MEAN 713.39 MAX 714.39 MIN 712.35

04232482 KEUKA LAKE OUTLET AT DRESDEN, NY

LOCATION.--Lat 42°40'49", long 76°57'15", Yates County, Hydrologic Unit 04140201, on right bank at upstream side of bridge on Milo Street in Dresden, and 0.4 mi upstream from mouth.

DRAINAGE AREA.--207 mi^2.

PERIOD OF RECORD.--April 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 444.67 ft (revised) above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1982, at datum 2.00 ft higher.

REMARKS.--Estimated daily discharges: Jan. 30-31, Feb. 20-22, Apr. 12-26. Records good. Flow regulated by village of Penn Yan. During each year a large part of flow from 45.5 mi^2 of Mud Creek drainage area (Susquehanna River basin) is diverted into Keuka Lake (Oswego basin) for power development. For table of diversion, see station 01528700. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--20 years, 201 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,000 ft^3/s June 22, 1972, gage height, 10.37 ft, present datum, from rating curve extended above 2,100 ft^3/s on basis of contracted-opening measurement at Mays Mill, adjusted for intervening area; minimum, 3.2 ft^3/s Sept. 6, 7, 8, 9, 10, 1982, gage height, 1.47 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 985 ft^3/s Feb. 20 at 0900 hours, gage height, 4.04 ft; minimum discharge, 14 ft^3/s Feb. 15-19 and June 9, minimum gage height, 1.49 ft, June 9.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	194	38	233	18	256	364	24	21	20	19	20
2	26	185	30	238	17	254	291	23	21	20	19	20
3	25	172	86	252	19	244	323	23	21	20	19	20
4	24	174	169	245	19	238	394	22	21	19	19	20
5	24	175	162	237	20	259	402	22	22	19	19	20
6	24	167	163	234	20	247	403	29	21	21	19	20
7	24	163	156	230	20	247	370	29	21	22	19	20
8	24	161	156	226	20	312	362	22	21	23	19	20
9	25	160	151	224	20	311	355	21	19	23	19	24
10	24	163	157	214	20	293	356	20	15	22	19	69
11	24	162	186	215	20	210	320	20	29	21	19	128
12	24	161	192	223	18	223	143	22	132	23	18	19
13	24	157	203	225	15	211	102	38	260	22	18	18
14	24	153	176	222	15	249	77	22	243	23	18	18
15	24	154	180	216	15	346	62	21	237	23	19	18
16	24	146	185	230	14	336	54	22	239	23	19	18
17	24	141	177	207	14	336	47	21	257	22	18	21
18	24	139	170	213	14	323	43	21	254	21	18	27
19	24	87	170	202	113	324	36	21	252	21	17	27
20	26	20	174	121	470	322	35	21	249	21	17	27
21	25	19	165	248	160	313	30	22	243	21	17	27
22	26	19	221	341	210	311	29	21	242	21	17	28
23	26	19	194	313	325	310	28	20	241	21	17	30
24	25	19	187	233	319	315	27	20	232	21	17	30
25	25	19	179	133	288	309	27	20	120	20	17	30
26	113	19	171	132	264	305	27	20	21	22	17	28
27	178	19	168	135	264	306	27	22	20	20	19	29
28	185	21	174	132	258	307	26	26	20	20	19	24
29	221	51	201	83	---	270	25	25	23	19	19	23
30	201	34	222	62	---	223	24	24	20	19	20	21
31	193	---	192	25	---	334	---	25	---	20	20	---
TOTAL	1787	3273	5155	6244	2989	8844	4809	709	3537	653	570	844
MEAN	57.6	109	166	201	107	285	160	22.9	118	21.1	18.4	28.1
MAX	221	194	222	341	470	346	403	38	260	23	20	128
MIN	24	19	30	25	14	210	24	20	15	19	17	18

CAL YR 1984	TOTAL	92915	MEAN	254	MAX	975	MIN	13
WTR YR 1985	TOTAL	39414	MEAN	108	MAX	470	MIN	14

04233000 CAYUGA INLET NEAR ITHACA, NY

LOCATION.--Lat 42°23'35", long 76°32'43", Tompkins County, Hydrologic Unit 04140201, on left bank 0.8 mi upstream from Enfield (formerly Butternut) Creek, and 5 mi south of Ithaca.

DRAINAGE AREA.--35.2 mi².

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

REVISED RECORDS.--WSP 2112: Drainage area. WRD NY 1974: 1973.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 437.16 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Estimated daily discharges: Jan. 7 to Mar. 1, Mar. 5-8. Records fair.

AVERAGE DISCHARGE.--48 years (water years 1938-85), 38.6 ft³/s, 14.89 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft³/s June 23, 1972, gage height, 8.10 ft, from rating curve extended above 1,600 ft³/s on basis of slope-area measurements at gage heights 5.5 ft and 7.58 ft; minimum discharge, 1.7 ft³/s July 22, 1955; minimum gage height, 0.42 ft Aug. 30, 31, Sept. 1, 2, 1939, July 22, 1955. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 24	unknown	*618	*a2.80	No peak greater than base discharge.			

a From maximum stage indicator.

Minimum discharge, 2.9 ft³/s Sept. 20, gage height, 0.50 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	13	97	52	14	56	126	21	17	7.7	11	4.6
2	13	12	59	56	14	52	101	20	12	7.7	6.9	4.3
3	10	12	52	56	14	46	88	19	11	7.6	5.5	4.0
4	8.6	11	57	46	14	37	80	19	10	7.0	4.9	4.1
5	7.9	27	41	40	14	37	73	18	11	6.4	4.5	4.3
6	7.6	25	38	40	14	35	63	19	10	6.0	4.3	4.0
7	7.6	19	35	34	15	35	56	22	9.4	6.5	4.5	3.6
8	7.6	15	31	28	15	62	51	21	9.5	6.2	4.5	4.8
9	7.6	14	30	24	15	93	47	19	9.4	6.1	4.0	6.5
10	7.6	15	31	21	16	78	42	17	8.8	8.9	3.7	5.6
11	7.6	19	45	21	18	72	40	16	8.1	10	3.8	4.8
12	7.6	17	49	20	20	190	37	16	12	8.8	3.7	4.4
13	7.6	17	56	19	41	162	34	18	15	7.7	3.5	4.3
14	7.6	14	50	19	37	121	32	16	12	6.7	3.7	4.1
15	7.6	13	45	18	32	106	31	15	9.8	8.7	5.6	3.9
16	7.2	13	41	18	28	89	29	15	13	11	10	3.9
17	7.2	13	38	17	25	80	27	15	13	7.1	5.8	3.7
18	7.7	12	34	17	23	70	26	23	10	6.1	8.8	3.5
19	7.9	13	33	17	22	61	30	22	8.6	5.4	4.8	3.4
20	10	12	38	16	22	57	45	19	7.6	5.2	4.0	3.3
21	9.5	11	32	16	23	51	39	16	8.3	5.1	3.8	3.3
22	10	11	46	16	29	44	34	14	7.7	4.9	3.7	3.3
23	14	11	61	15	70	43	32	13	11	4.5	3.7	3.4
24	12	11	47	15	300	46	29	12	8.2	4.3	3.5	3.6
25	10	11	40	15	190	54	28	11	7.4	4.0	4.7	3.6
26	14	11	38	15	110	48	27	11	6.8	8.1	4.1	3.4
27	14	11	29	14	80	44	26	12	7.6	7.0	3.7	15
28	12	12	29	14	64	44	25	27	7.3	5.2	3.6	10
29	26	59	30	14	---	48	24	19	12	4.5	3.7	7.4
30	20	43	46	14	---	45	22	14	9.4	4.3	4.9	5.8
31	15	---	59	14	---	76	---	13	---	15	5.4	---
TOTAL	323.0	497	1357	741	1279	2082	1344	532	302.9	213.7	152.3	143.9
MEAN	10.4	16.6	43.8	23.9	45.7	67.2	44.8	17.2	10.1	6.89	4.91	4.80
MAX	26	59	97	56	300	190	126	27	17	15	11	15
MIN	7.2	11	29	14	14	35	22	11	6.8	4.0	3.5	3.3
CFSM	.30	.47	1.24	.68	1.30	1.91	1.27	.49	.29	.20	.14	.14
IN.	0.34	0.53	1.43	0.78	1.35	2.20	1.42	0.56	0.32	0.23	0.16	0.15

CAL YR 1984 TOTAL 20085.4 MEAN 54.9 MAX 853 MIN 7.2 CFSM 1.56 IN. 21.23
WTR YR 1985 TOTAL 8967.8 MEAN 24.6 MAX 300 MIN 3.3 CFSM .70 IN. 9.48

04233500 CAYUGA INLET (CAYUGA LAKE) AT ITHACA, NY
(Formerly published as Cayuga Lake at Ithaca)

LOCATION.--Lat 42°26'45", long 76°30'45", Tompkins County, Hydrologic Unit 04140201, on left bank of natural channel 40 ft upstream from flood-control channel of Cayuga Inlet, at north end of Taughannock Boulevard, and 1 mi upstream from mouth of Inlet, at Ithaca.

DRAINAGE AREA.--Cayuga Inlet 143 mi²; Cayuga Lake at mouth 1,564 mi²; Cayuga Lake portion 785 mi².

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.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (1.43 ft Barge Canal datum). Prior to September 1925, nonrecording gage at several sites within 1 mi of present site. Prior to October 1968, at datum 378.57 ft higher. October 1968 to September 1975, at datum 376.57 ft higher.

REMARKS.--Lake regulated at Mud Lock by New York State Department of Transportation. Area of water surface, 66.9 mi². Seneca River (Cayuga and Seneca Canal) enters lake 0.5 mi upstream from Mud Lock and is included in first drainage area given above.

EXTREMES FOR PERIOD OF RECORD.--(1905-25 and since 1956): Maximum elevation, 386.33 ft June 26, 1972; minimum daily, 377.64 ft present datum, Mar. 28, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 382.79 ft June 27; minimum, 378.68 ft Feb. 12.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	382.00	381.04	380.40	379.95	378.89	380.11	380.63	381.96	382.45	382.59	382.19	381.79
2	382.02	381.12	380.53	380.13	378.90	380.21	380.79	381.94	382.46	382.57	382.15	381.81
3	381.92	381.06	380.54	380.13	378.85	380.21	380.85	381.99	382.50	382.56	382.11	381.81
4	381.97	380.90	380.60	380.11	378.82	380.10	381.00	381.95	382.49	382.56	382.09	381.80
5	381.95	381.00	380.54	380.19	378.80	380.27	381.01	381.95	382.48	382.50	382.05	381.85
6	381.86	381.08	380.57	380.09	378.83	380.33	381.05	382.00	382.52	382.50	382.01	381.86
7	381.81	381.08	380.53	380.08	378.82	380.25	381.12	382.07	382.49	382.53	381.99	381.88
8	381.80	381.00	380.47	380.11	378.85	380.35	381.14	382.10	382.50	382.50	382.06	381.86
9	381.84	380.93	380.45	380.02	378.82	380.45	381.17	382.03	382.47	382.47	382.04	381.92
10	381.84	380.95	380.42	379.95	378.76	380.47	381.13	382.05	382.54	382.50	382.00	381.97
11	381.80	381.04	380.47	379.90	378.73	380.43	381.20	382.06	382.55	382.49	382.05	381.96
12	381.81	381.09	380.42	379.80	378.74	380.64	381.27	382.07	382.61	382.46	382.07	381.90
13	381.79	381.12	380.52	379.66	378.77	380.97	381.28	382.11	382.62	382.42	381.97	381.92
14	381.77	381.02	380.50	379.54	378.81	381.02	381.22	382.14	382.62	382.41	381.99	381.84
15	381.78	380.80	380.47	379.57	378.86	381.12	381.25	382.09	382.61	382.43	381.99	381.82
16	381.73	380.77	380.37	379.46	378.86	381.03	381.33	382.17	382.61	382.49	382.09	381.78
17	381.68	380.75	380.38	379.38	378.85	381.06	381.33	382.28	382.67	382.48	382.01	381.75
18	381.67	380.67	380.28	379.33	378.84	381.06	381.27	382.33	382.72	382.43	381.94	381.75
19	381.63	380.66	380.06	379.23	378.85	380.88	381.36	382.31	382.72	382.36	381.92	381.75
20	381.65	380.60	380.23	379.11	378.85	380.87	381.45	382.29	382.72	382.37	382.00	381.73
21	381.58	380.54	380.12	379.00	378.83	380.79	381.49	382.34	382.72	382.31	381.95	381.76
22	381.61	380.41	380.17	378.96	378.85	380.65	381.53	382.36	382.65	382.30	381.96	381.73
23	381.62	380.29	380.15	378.90	379.01	380.55	381.61	382.36	382.67	382.31	381.89	381.67
24	381.51	380.21	380.07	378.87	379.35	380.46	381.61	382.36	382.73	382.13	381.87	381.70
25	381.44	380.10	380.08	378.89	379.65	380.42	381.76	382.35	382.73	382.05	381.83	381.71
26	381.42	380.02	379.96	378.91	379.80	380.35	381.85	382.36	382.71	382.13	381.89	381.60
27	381.35	380.01	379.87	378.84	380.01	380.32	381.91	382.37	382.67	382.19	381.88	381.81
28	381.29	380.01	379.81	378.85	380.05	380.37	381.90	382.45	382.63	382.11	381.89	381.81
29	381.36	380.22	379.84	378.87	---	380.43	381.92	382.45	382.66	382.08	381.89	381.69
30	381.26	380.23	379.97	378.86	---	380.48	381.91	382.38	382.63	382.13	381.85	381.70
31	381.23	---	379.95	378.83	---	380.41	---	382.36	---	382.14	381.94	---
MEAN	381.68	380.69	380.28	379.47	379.00	380.55	381.34	382.19	382.60	382.37	381.99	381.80
MAX	382.02	381.12	380.60	380.19	380.05	381.12	381.92	382.45	382.73	382.59	382.19	381.97
MIN	381.23	380.01	379.81	378.83	378.73	380.10	380.63	381.94	382.45	382.05	381.83	381.60

CAL YR 1984 MEAN 381.58 MAX 383.65 MIN 379.13
WTR YR 1985 MEAN 381.18 MAX 382.73 MIN 378.73

04234000 FALL CREEK NEAR ITHACA, NY

LOCATION.--Lat 42°27'12", long 76°28'23", Tompkins County, Hydrologic Unit 04140201, on left bank in Forest Home, 0.2 mi east of Ithaca, 0.5 mi upstream from Cornell University dam, and 2.2 mi upstream from mouth.

DRAINAGE AREA.--126 mi².

PERIOD OF RECORD.--July 1908 to June 1909 (gage heights only), February 1925 to current year.

REVISED RECORDS.--WSP 874: 1935-38. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 795.13 ft above National Geodetic Vertical Datum of 1929. July 1908 to June 1909, nonrecording gage at bridge 1.2 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 6-9, 25-28, Jan. 4 to Feb. 9, Feb. 11-24, and Mar. 3-8. Records good except for estimated daily discharges, which are fair. Diversion from point about 1 mi upstream from station by Cornell University for water supply and at several sites for irrigation purposes. Records of diversion from Fall Creek are in files of Cornell University. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--60 years (water years 1926-85), 186 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s 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 ft³/s Aug. 25, 1927, result of regulation; minimum daily, 3.6 ft³/s Aug. 17, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 23	2145	ice jam	*5.95	Feb. 25	0800	*1,590	3.41

No peak greater than base discharge.

Minimum discharge, 8.3 ft³/s Sept. 26; minimum gage height, 0.26 ft, July 31, Sept. 26 (result of regulation).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	67	881	423	94	317	617	98	56	45	59	18
2	64	76	574	500	90	319	442	94	51	36	33	16
3	58	88	417	315	78	280	344	90	40	32	23	14
4	57	72	410	220	68	160	334	84	36	32	20	12
5	48	232	273	230	74	250	318	83	35	28	17	13
6	42	226	220	190	86	280	270	113	37	26	15	23
7	39	136	200	200	98	220	224	159	33	38	14	23
8	38	107	190	170	100	300	202	117	31	35	15	22
9	38	96	200	110	92	470	194	91	30	29	14	45
10	38	109	209	160	85	393	175	81	30	62	12	71
11	37	162	305	150	86	372	172	72	25	47	12	33
12	36	145	323	140	96	1070	158	71	31	70	13	22
13	36	121	484	130	110	1040	148	90	59	105	12	18
14	37	108	423	110	110	790	148	72	77	47	13	16
15	34	105	328	110	96	533	143	60	49	39	20	17
16	34	108	312	96	88	379	135	63	43	167	32	17
17	33	103	297	96	84	384	123	77	92	70	28	13
18	32	97	267	100	84	298	116	69	71	41	18	11
19	33	106	248	100	86	241	271	74	47	32	15	9.8
20	43	96	312	86	76	277	459	71	38	28	13	10
21	52	87	235	78	78	252	225	58	52	26	12	11
22	49	86	338	84	110	211	176	59	45	24	12	11
23	61	83	332	100	350	217	153	48	49	21	12	10
24	55	92	238	100	1100	243	139	44	45	19	13	9.5
25	45	99	210	98	1380	252	135	39	31	17	14	10
26	60	93	130	90	663	197	162	39	27	19	16	9.9
27	104	88	140	86	503	191	138	41	25	36	14	59
28	75	95	200	88	315	260	123	59	25	27	11	156
29	166	738	410	90	---	345	121	77	46	20	11	57
30	119	477	804	86	---	284	108	51	50	18	12	33
31	81	---	401	84	---	297	---	43	---	24	20	---
TOTAL	1689	4298	10311	4620	6280	11122	6473	2287	1306	1260	545	790.2
MEAN	54.5	143	333	149	224	359	216	73.8	43.5	40.6	17.6	26.3
MAX	166	738	881	500	1380	1070	617	159	92	167	59	156
MIN	32	67	130	78	68	160	108	39	25	17	11	9.5
CFSM	.43	1.13	2.64	1.18	1.78	2.85	1.71	.59	.35	.32	.14	.21
IN.	0.50	1.27	3.04	1.36	1.85	3.28	1.91	0.68	0.39	0.37	0.16	0.23

CAL YR 1984 TOTAL 86527 MEAN 236 MAX 3840 MIN 32 CFSM 1.87 IN. 25.55
WTR YR 1985 TOTAL 50981.2 MEAN 140 MAX 1380 MIN 9.5 CFSM 1.11 IN. 15.05

04234500 CANANDIAGUA LAKE AT CANANDAIGUA, NY

LOCATION.--Lat 42°52'19", long 77°16'22", Ontario County, Hydrologic Unit 04140201, at south end of city pier at northern end of Canandaigua Lake, 1 mi southeast of Canandaigua.

DRAINAGE AREA.--184 mi^2.

PERIOD OF RECORD.--November 1939 to current year. December 1927 to November 1939, records for site on west side of E. T. Waldorf's boathouse collected by, and in files of, city of Canandaigua.

REVISED RECORDS.--WSP 2112: Drainage area. WRD NY 1971: 1970.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. June 26, 1946 to Sept. 30, 1975, at datum 681.17 ft higher, and prior to June 26, 1946, nonrecording gage at E. T. Waldorf's boathouse at same datum.

REMARKS.--Lake elevation regulated by one gate on West outlet, which is a 1.5 mi long canal, and by two gates on East outlet, which is the natural outlet. Sill elevations of West and East outflow structures are 684.37 ft and 684.94 ft, respectively. Water diverted for municipal supply for villages of Newark, Palmyra, and Gorham. Records of diversion in files of city of Canandaigua. Area of water surface, 16.6 mi^2.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 692.11 ft June 24, 1972; minimum daily, 685.62 ft Jan. 30, 1942.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 689.03 ft Apr. 6; minimum, 686.81 ft Feb. 5.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	687.92	687.83	687.24	687.43	686.87	687.68	688.67	688.59	688.67	688.40	688.01	687.47
2	687.92	687.66	687.24	687.44	686.88	687.70	688.74	688.59	688.66	688.40	687.99	687.44
3	687.93	687.64	687.27	687.45	686.89	687.70	688.75	688.58	688.65	688.39	687.98	687.44
4	687.87	687.71	687.24	687.44	686.88	687.75	688.73	688.59	688.63	688.38	687.96	687.44
5	687.84	687.63	687.24	687.42	686.87	687.81	688.74	688.59	688.62	688.38	687.95	687.44
6	687.84	687.61	687.27	687.41	686.88	687.80	688.74	688.62	688.60	688.38	687.95	687.45
7	687.81	687.59	687.27	687.40	686.88	687.83	688.68	688.65	688.61	688.38	687.87	687.43
8	687.80	687.60	687.24	687.39	686.89	687.87	688.64	688.66	688.61	688.36	687.89	687.44
9	687.79	687.57	687.21	687.37	686.89	687.95	688.60	688.67	688.62	688.34	687.82	687.48
10	687.78	687.56	687.19	687.33	686.88	688.01	688.58	688.68	688.58	688.33	687.84	687.48
11	687.77	687.52	687.18	687.31	686.88	688.10	688.55	688.67	688.58	688.31	687.81	687.47
12	687.76	687.46	687.20	687.28	686.89	688.19	688.50	688.69	688.62	688.29	687.78	687.44
13	687.75	687.40	687.18	687.27	686.92	688.29	688.46	688.72	688.69	688.29	687.78	687.42
14	687.74	687.36	687.20	687.25	686.92	688.34	688.45	688.71	688.66	688.31	687.76	687.39
15	687.73	687.38	687.19	687.19	686.92	688.33	688.41	688.74	688.64	688.29	687.75	687.37
16	687.73	687.35	687.21	687.19	686.92	688.33	688.38	688.67	688.60	688.27	687.74	687.35
17	687.72	687.32	687.18	687.19	686.92	688.30	688.37	688.60	688.58	688.25	687.73	687.34
18	687.71	687.31	687.17	687.16	686.92	688.26	688.40	688.61	688.55	688.24	687.74	687.32
19	687.71	687.28	687.17	687.14	686.92	688.25	688.44	688.64	688.46	688.24	687.68	687.30
20	687.70	687.26	687.16	687.12	686.91	688.20	688.54	688.66	688.49	688.21	687.64	687.29
21	687.72	687.25	687.19	687.10	686.91	688.16	688.58	688.65	688.47	688.20	687.61	687.26
22	687.69	687.24	687.21	687.04	686.92	688.14	688.59	688.63	688.50	688.19	687.59	687.26
23	687.70	687.23	687.20	687.00	687.06	688.14	688.59	688.63	688.54	688.13	687.57	687.26
24	687.68	687.21	687.20	686.97	687.35	688.16	688.61	688.62	688.53	688.14	687.54	687.23
25	687.67	687.20	687.17	686.95	687.57	688.18	688.61	688.61	688.43	688.15	687.56	687.19
26	687.68	687.19	687.14	686.93	687.65	688.20	688.60	688.61	688.38	688.11	687.56	687.21
27	687.68	687.19	687.13	686.91	687.69	688.22	688.60	688.61	688.35	688.09	687.54	687.20
28	687.69	687.20	687.14	686.89	687.68	688.25	688.60	688.61	688.36	688.08	687.52	687.22
29	687.69	687.22	687.20	686.88	---	688.29	688.60	688.62	688.39	688.07	687.49	687.21
30	687.71	687.23	687.30	686.87	---	688.31	688.60	688.66	688.40	688.03	687.48	687.21
31	687.67	---	687.34	686.87	---	688.44	---	688.67	---	688.02	687.46	---
MEAN	687.75	687.41	687.21	687.18	687.03	688.10	688.58	688.64	688.55	688.25	687.73	687.35
MAX	687.93	687.83	687.34	687.45	687.69	688.44	688.75	688.74	688.69	688.40	688.01	687.48
MIN	687.67	687.19	687.13	686.87	686.87	687.68	688.37	688.58	688.35	688.02	687.46	687.19

CAL YR 1984 MEAN 687.90 MAX 689.07 MIN 686.68
WTR YR 1985 MEAN 687.82 MAX 688.75 MIN 686.87

04235000 CANANDAIGUA OUTLET AT CHAPIN, NY

LOCATION.--Lat 42°55'05", long 77°13'59", Ontario County, Hydrologic Unit 04140201, on right bank at Chapin, 25 ft upstream from bridge on State Highway 488, and 4.1 mi downstream from Canandaigua Lake.

DRAINAGE AREA.--195 mi^2.

PERIOD OF RECORD.--November 1939 to current year. Prior to October 1964, published as "Canandaigua Lake Outlet."

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 671.44 ft above National Geodetic Vertical Datum of 1929. Prior to June 25, 1974, at site 0.1 mi upstream at datum 676.90 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 9, 10, 15-24, 26-31, Feb. 2-13, 15-16, 20, 22. 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. Gage height telemeter at station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--45 years (water years 1941-85), 153 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,710 ft^3/s June 24, 1972, gage height, 11.08 ft present datum, at site then in use; minimum, 4.6 ft^3/s Sept. 17, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 534 ft^3/s Apr. 3 at 2100 hours, gage height, 4.99 ft; minimum daily, 29 ft^3/s Feb. 3; minimum gage height, 3.04 ft, Nov. 7, 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	35	53	249	38	181	239	109	71	50	52	35
2	53	34	52	234	32	78	510	61	54	50	53	34
3	58	32	52	214	29	72	527	72	52	51	53	34
4	57	32	50	209	36	73	518	75	51	49	52	33
5	57	33	48	203	42	80	517	78	51	50	49	34
6	50	31	50	201	48	84	512	85	50	51	46	35
7	49	31	65	197	56	81	455	89	50	52	47	33
8	48	47	149	196	56	128	431	83	50	51	45	35
9	47	182	151	180	58	131	415	79	50	51	44	35
10	47	219	151	180	62	97	348	78	50	53	44	34
11	47	213	159	181	58	90	335	78	49	54	43	34
12	47	206	159	177	43	159	339	83	74	50	43	34
13	45	195	161	168	38	397	380	95	126	49	42	33
14	45	150	152	169	40	421	380	82	360	50	41	37
15	43	55	155	160	33	420	336	99	357	54	47	37
16	49	51	152	130	33	409	107	334	353	52	46	38
17	40	49	152	160	39	406	91	285	364	51	46	44
18	41	48	148	150	38	391	95	72	358	51	45	44
19	39	48	148	150	39	385	108	68	317	51	44	46
20	39	47	150	140	33	376	118	67	74	52	43	47
21	38	47	154	130	38	348	109	66	55	51	43	46
22	39	45	206	140	60	266	109	62	54	52	41	46
23	39	45	173	130	239	97	109	60	54	62	40	47
24	38	45	168	130	296	87	109	57	55	52	39	47
25	37	44	163	132	246	88	111	53	55	49	41	45
26	39	44	153	120	221	88	113	52	54	48	40	45
27	38	44	152	120	223	88	113	52	48	48	38	55
28	36	46	159	74	218	92	114	60	48	50	38	49
29	38	57	190	37	---	96	114	55	52	55	36	47
30	36	51	220	33	---	94	113	53	50	60	38	47
31	34	---	197	32	---	127	---	59	---	53	38	---
TOTAL	1353	2206	4292	4726	2392	5930	7875	2701	3486	1602	1357	1210
MEAN	43.6	73.5	138	152	85.4	191	263	87.1	116	51.7	43.8	40.3
MAX	58	219	220	249	296	421	527	334	364	62	53	55
MIN	34	31	48	32	29	72	91	52	48	48	36	33

CAL YR 1984	TOTAL	64451	MEAN	176	MAX	666	MIN	28
WTR YR 1985	TOTAL	39130	MEAN	107	MAX	527	MIN	29

04235250 FLINT CREEK AT PHELPS, NY

LOCATION.--Lat 42°57'28", long 77°04'06", Ontario County, Hydrologic Unit 04140201, on right bank 25 ft downstream from bridge on Eagle Street at Phelps, and 1.1 mi upstream from Canandaigua Outlet.

DRAINAGE AREA.--102 mi².

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 523.14 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 8-10, Jan. 6 to Feb. 25. Records good except estimated daily discharges with ice effect, which are fair. Small diversion (during periods of low ground-water level) by Phelps Cement Products, Inc., located about 0.2 mile upstream. Since 1967, flow from Canandaigua Lake diverted into Flint Creek for municipal supply of village of Gorham; presently not exceeding 0.3 ft³/s. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 88.9 ft³/s, 11.84 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,940 ft³/s 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 24	1030	ice jam	*5.09	No peak greater than base discharge.			
Feb. 25	0800	*787	4.01				

Minimum discharge, 0.73 ft³/s Aug. 22, 24, gage height, 0.70 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	27	93	256	25	145	498	40	31	29	5.6	2.3
2	16	24	94	261	24	136	441	36	23	21	4.2	2.0
3	18	22	82	180	24	112	304	34	18	18	3.5	2.0
4	17	22	80	127	24	90	230	32	16	16	3.2	2.6
5	14	27	72	103	24	85	202	31	15	12	2.9	3.5
6	14	30	58	88	23	93	178	40	13	11	2.7	3.3
7	13	30	50	74	23	92	143	67	12	16	2.7	2.2
8	13	25	52	50	23	180	118	57	11	13	2.7	3.3
9	13	24	54	40	23	364	105	43	10	11	2.1	3.2
10	13	40	56	40	23	312	94	36	10	10	2.0	4.1
11	14	55	102	39	23	255	88	32	8.6	9.7	1.4	4.6
12	13	54	135	38	25	389	80	34	30	7.6	1.6	6.3
13	12	47	157	37	27	545	73	53	73	7.3	2.1	5.0
14	12	40	155	36	33	427	74	43	75	7.2	1.8	4.1
15	12	37	142	35	40	293	75	30	48	8.1	1.9	3.4
16	11	35	127	35	38	201	69	26	44	8.4	2.1	2.9
17	11	32	111	34	35	167	59	26	183	7.5	1.9	2.7
18	12	31	93	33	32	145	56	26	115	7.1	1.9	2.4
19	12	29	82	33	31	118	90	30	69	6.3	1.7	2.0
20	14	27	88	32	30	115	185	29	49	5.8	1.3	1.8
21	15	24	84	31	29	102	135	27	46	5.3	1.4	1.8
22	16	23	184	30	54	88	101	25	33	5.1	1.4	1.7
23	16	24	181	30	290	83	82	22	26	4.6	1.2	1.6
24	18	26	135	29	720	88	70	19	23	3.9	.84	1.5
25	17	24	106	29	740	102	63	18	19	3.7	1.7	1.8
26	19	24	72	28	496	92	59	17	13	6.3	1.9	1.9
27	21	22	74	28	298	84	54	17	11	5.9	2.3	6.2
28	22	25	86	27	174	98	51	21	12	5.0	2.1	5.6
29	27	77	156	26	---	137	49	21	36	4.1	2.0	5.7
30	39	101	275	26	---	125	45	18	40	3.8	2.5	6.3
31	32	---	212	25	---	163	---	20	---	5.0	2.9	---
TOTAL	511	1028	3448	1880	3351	5426	3871	970	1112.6	284.7	69.54	97.8
MEAN	16.5	34.3	111	60.6	120	175	129	31.3	37.1	9.18	2.24	3.26
MAX	39	101	275	261	740	545	498	67	183	29	5.6	6.3
MIN	11	22	50	25	23	83	45	17	8.6	3.7	.84	1.5
CFSM	.16	.34	1.09	.59	1.18	1.72	1.26	.31	.36	.09	.02	.03
IN.	0.19	0.37	1.26	0.69	1.22	1.98	1.41	0.35	0.41	0.10	0.03	0.04

CAL YR 1984	TOTAL	37202.9	MEAN	102	MAX	994	MIN	3.9	CFSM	1.00	IN.	13.57
WTR YR 1985	TOTAL	22049.64	MEAN	60.4	MAX	740	MIN	.84	CFSM	.59	IN.	8.04

04235396 OWASCO LAKE NEAR AUBURN, NY

LOCATION.--Lat 42°53'56", long 76°32'17", Cayuga County, Hydrologic Unit 04140201, on east side of breakwater at city of Auburn water intake and pumping station, 1 mi south of city limits of Auburn, and 1.8 mi upstream from State dam.

DRAINAGE AREA.--205 mi².

PERIOD OF RECORD.--October 1967 to current year. Records since 1912 collected by, and in files of, city of Auburn.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to May 1, 1982, nonrecording gage read once daily by employees of city of Auburn Water Division at same site and datum from reference mark at elevation 718.59 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Lake elevation regulated by gates on outlet at State dam. Area of water surface, 10.6 mi².

COOPERATION.--Records furnished by city of Auburn until April 30, 1982.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 716.88 ft June 25, 1972; minimum observed, 708.58 ft Feb. 17, 18, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum observed elevation since 1912, 716.91 ft Mar. 23, 1936, Apr. 9, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 712.85 ft Mar 15; minimum observed, 709.10 ft Feb. 22, 23.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	711.26	710.85	710.64	712.57	710.82	711.51	712.25	711.62	712.34	712.22	712.03	711.54
2	711.20	710.80	710.93	712.51	710.75	711.54	712.32	711.64	712.33	712.21	712.02	711.53
3	711.15	710.73	711.08	712.30	710.67	711.58	712.39	711.66	712.33	712.20	712.00	711.53
4	711.04	710.72	711.20	712.14	710.58	711.60	712.43	711.69	712.37	712.18	712.00	711.53
5	710.97	710.75	711.30	712.12	710.51	711.69	712.47	711.73	712.35	712.16	711.99	711.60
6	710.89	710.80	711.35	712.11	710.45	711.71	712.50	711.78	712.32	712.15	711.97	711.64
7	710.81	710.86	711.37	712.09	710.39	711.73	712.48	711.85	712.31	712.14	711.95	711.63
8	710.75	710.91	711.35	712.06	710.36	711.75	712.46	711.91	712.32	712.14	711.92	711.63
9	710.74	710.95	711.34	712.02	710.33	711.82	712.43	711.95	712.33	712.12	711.91	711.65
10	710.75	710.95	711.32	711.97	710.28	711.90	712.39	711.96	712.34	712.13	711.90	711.66
11	710.75	710.93	711.37	711.92	710.25	712.02	712.36	711.97	712.32	712.15	711.88	711.64
12	710.74	710.91	711.42	711.90	709.97	712.32	712.32	712.01	712.35	712.13	711.86	711.61
13	710.73	710.89	711.53	711.86	709.73	712.65	712.28	712.06	712.38	712.10	711.85	711.58
14	710.74	710.86	711.66	711.80	709.68	712.81	712.25	712.08	712.38	712.10	711.84	711.56
15	710.75	710.85	711.85	711.73	709.66	712.84	712.18	712.11	712.38	712.12	711.83	711.54
16	710.74	710.77	711.84	711.67	709.63	712.82	712.12	712.13	712.40	712.16	711.83	711.53
17	710.75	710.73	711.96	711.60	709.56	712.75	712.05	712.14	712.43	712.17	711.83	711.51
18	710.75	710.69	712.02	711.50	709.38	712.68	712.00	712.15	712.52	712.17	711.82	711.50
19	710.78	710.65	712.05	711.41	709.28	712.61	712.00	712.17	712.54	712.16	711.80	711.50
20	710.83	710.61	712.05	711.39	709.20	712.48	711.99	712.20	712.57	712.14	711.76	711.49
21	710.87	710.53	712.05	711.37	709.18	712.37	711.98	712.20	712.58	712.14	711.74	711.48
22	710.92	710.48	712.23	711.33	709.10	712.28	711.95	712.20	712.51	712.13	711.72	711.47
23	710.92	710.44	712.25	711.29	709.17	712.18	711.90	712.21	712.38	712.09	711.70	711.45
24	710.95	710.37	712.12	711.26	710.00	712.08	711.85	712.22	712.30	712.06	711.70	711.43
25	710.97	710.30	712.11	711.23	710.83	712.02	711.80	712.22	712.25	712.05	711.73	711.42
26	711.02	710.26	712.06	711.19	711.18	711.97	711.76	712.23	712.20	712.05	711.71	711.40
27	711.01	710.23	712.04	711.15	711.36	711.94	711.68	712.27	712.17	712.06	711.66	711.39
28	711.00	710.21	712.03	711.10	711.41	711.92	711.63	712.28	712.17	712.06	711.65	711.38
29	711.00	710.28	712.11	711.02	---	712.04	711.58	712.29	712.20	712.05	711.61	711.29
30	710.96	710.45	712.54	710.93	---	712.04	711.60	712.30	712.21	712.04	711.58	711.22
31	710.91	---	712.62	710.86	---	712.04	---	712.37	---	712.04	711.57	---
MEAN	710.89	710.66	711.74	711.66	710.13	712.12	712.11	712.05	712.35	712.12	711.82	711.51
MAX	711.26	710.95	712.62	712.57	711.41	712.84	712.50	712.37	712.58	712.22	712.03	711.66
MIN	710.73	710.21	710.64	710.86	709.10	711.51	711.58	711.62	712.17	712.04	711.57	711.22

CAL YR 1984 MEAN 711.71 MAX 713.42 MIN 709.17
WTR YR 1985 MEAN 711.61 MAX 712.84 MIN 709.10

04235500 OWASCO OUTLET NEAR AUBURN, NY

LOCATION.--Lat 42°56'48", long 76°35'56", Cayuga County, Hydrologic Unit 04140201, on left bank 2.5 mi downstream from center of Auburn, and 4 mi downstream from State dam at outlet of Owasco Lake.

DRAINAGE AREA.--206 mi².

PERIOD OF RECORD.--November 1912 to current year. Prior to October 1966, published as "Owasco Lake Outlet."

REVISED RECORDS.--WSP 824: 1913-14, 1916, 1920(M), 1922(M), 1928(M), 1929, 1932(M). WSP 2112: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 533.92 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuation caused by mills in Auburn; regulation at State dam at outlet of lake. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--72 years (water years 1914-85), 289 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,250 ft³/s June 23, 1972, gage height, 6.28 ft; minimum, about 2 ft³/s Dec. 5, 1936; minimum gage height, 1.03 ft Oct. 13, 14, 21, 1982; minimum daily discharge, 5 ft³/s Nov. 11, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,490 ft³/s Jan. 1 at 1200 hours, gage height, 3.61 ft; minimum, 11 ft³/s Oct. 20, gage height, 1.04 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	317	339	1230	392	352	359	46	29	84	39	29
2	323	315	322	1300	389	351	354	44	26	132	38	29
3	319	325	329	764	390	349	356	44	26	95	37	30
4	311	335	320	363	389	354	352	44	24	41	37	30
5	314	218	321	366	389	360	350	43	23	40	38	79
6	308	59	331	327	389	357	353	53	22	39	72	32
7	305	34	357	325	389	355	350	45	36	38	56	31
8	140	38	378	319	389	362	350	43	31	45	37	34
9	32	229	374	317	389	359	348	42	29	50	30	33
10	30	338	381	316	389	364	342	53	37	53	29	40
11	25	327	369	315	389	379	359	38	49	48	28	31
12	25	325	368	314	404	554	355	48	70	48	29	31
13	30	322	365	315	381	734	358	39	77	46	28	31
14	39	321	359	420	353	755	349	38	56	46	28	31
15	39	318	356	436	349	751	363	39	54	59	30	31
16	50	318	357	530	349	751	356	42	61	47	29	31
17	42	313	356	531	350	741	358	52	54	46	34	31
18	20	311	356	445	351	727	360	43	53	45	33	31
19	21	309	359	431	351	714	362	39	51	44	32	31
20	17	309	356	430	347	679	354	41	60	43	31	31
21	17	308	371	430	349	638	354	67	217	44	31	31
22	18	306	353	430	363	623	354	40	337	44	31	31
23	17	303	364	430	403	608	354	39	326	44	30	31
24	16	298	358	426	388	505	352	38	324	44	30	31
25	15	300	356	411	386	392	351	36	156	44	32	31
26	41	297	366	407	361	353	347	35	55	54	30	31
27	224	298	370	407	353	351	345	35	47	39	30	214
28	319	307	391	412	353	355	345	39	47	38	30	301
29	320	321	450	413	---	351	159	35	50	39	30	288
30	310	330	704	413	---	350	50	34	43	38	30	133
31	324	---	1110	409	---	363	---	42	---	47	29	---
TOTAL	4330	8449	12246	14382	10474	15237	10099	1316	2470	1564	1048	1799
MEAN	140	282	395	464	374	492	337	42.5	82.3	50.5	33.8	60.0
MAX	324	338	1110	1300	404	755	363	67	337	132	72	301
MIN	15	34	320	314	347	349	50	34	22	38	28	29

CAL YR 1984 TOTAL 128172 MEAN 350 MAX 1530 MIN 15
WTR YR 1985 TOTAL 83414 MEAN 229 MAX 1300 MIN 15

04236000 SKANEATELES LAKE AT SKANEATELES, NY

LOCATION.--Lat 42°56'42", long 76°25'46", Onondaga County, Hydrologic Unit 04140201, on east side of breakwater, enclosed in city of Syracuse boathouse, at Skaneateles.

DRAINAGE AREA.--72.7 mi².

PERIOD OF RECORD.--October 1967 to current year. 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 National Geodetic Vertical Datum of 1929. October 1967 to September 1975, at same site at datum 801.75 ft higher.

REMARKS.--Lake elevation regulated by gates at outlet by Syracuse Water Division. Area of water surface, 13.6 mi².

COOPERATION.--Records furnished by city of Syracuse.

EXTREMES FOR PERIOD OF RECORD.--(since 1890): Maximum observed elevation, 866.95 ft June 25, 26, 1972; minimum observed, 858.90 ft Nov. 15, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 864.14 ft Apr. 5; minimum observed, 861.63 ft Sept. 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	863.51	863.11	863.05	863.72	863.00	863.31	863.99	863.95	863.74	863.53	862.95	862.10
2	863.50	863.09	863.11	863.82	863.01	863.30	864.03	863.93	863.73	863.51	862.94	862.02
3	863.48	863.05	863.15	863.80	862.99	863.30	864.00	863.90	863.66	863.50	862.92	862.02
4	863.45	863.05	863.21	863.77	862.97	863.28	864.02	863.89	863.65	863.48	862.90	862.01
5	863.43	863.03	863.22	863.75	862.94	863.31	864.14	863.87	863.67	863.49	862.89	862.03
6	863.40	863.01	863.26	863.74	862.93	863.40	864.08	863.94	863.63	863.44	862.88	862.15
7	863.39	863.01	863.27	863.69	862.91	863.39	864.11	863.94	863.62	863.40	862.87	862.15
8	863.33	863.01	863.30	863.68	862.91	863.40	864.07	863.96	863.60	863.38	862.87	862.12
9	863.33	863.00	863.30	863.67	862.91	863.40	864.08	863.98	863.59	863.36	862.86	862.10
10	863.31	863.05	863.26	863.61	862.90	863.41	864.06	863.95	863.60	863.35	862.80	862.12
11	863.29	863.05	863.27	863.59	862.91	863.43	864.04	863.91	863.58	863.36	862.70	862.08
12	863.27	863.05	863.33	863.55	862.85	863.55	864.03	863.89	863.57	863.34	862.63	862.07
13	863.25	863.03	863.29	863.53	862.85	863.70	864.00	863.93	863.59	863.32	862.62	862.05
14	863.23	862.99	863.35	863.49	862.82	863.75	864.00	863.94	863.60	863.29	862.58	862.00
15	863.20	862.99	863.38	863.44	862.80	863.83	863.99	863.95	863.59	863.27	862.57	861.96
16	863.19	862.97	863.38	863.42	862.78	863.85	863.95	863.96	863.58	863.26	862.57	861.90
17	863.17	862.93	863.40	863.40	862.75	863.81	863.98	863.90	863.59	863.26	862.53	861.89
18	863.14	862.90	863.45	863.38	862.73	863.79	864.00	863.85	863.61	863.22	862.50	861.89
19	863.13	862.89	863.50	863.32	862.70	863.80	863.95	863.83	863.58	863.21	862.48	861.88
20	863.15	862.90	863.49	863.25	862.67	863.81	864.03	863.86	863.54	863.19	862.46	861.86
21	863.17	862.89	863.49	863.20	862.69	863.75	863.99	863.86	863.59	863.17	862.44	861.80
22	863.12	862.87	863.51	863.19	862.63	863.78	864.01	863.86	863.59	863.15	862.42	861.77
23	863.12	862.85	863.45	863.19	862.67	863.79	863.98	863.80	863.57	863.13	862.40	861.73
24	863.10	862.83	863.49	863.18	862.95	863.80	864.00	863.79	863.56	863.12	862.35	861.70
25	863.08	862.83	863.47	863.16	863.18	863.78	864.00	863.75	863.54	863.10	862.33	861.68
26	863.05	862.81	863.44	863.13	863.22	863.77	863.98	863.73	863.52	863.08	862.25	861.65
27	863.10	862.81	863.40	863.10	863.30	863.76	863.95	863.78	863.50	863.04	862.25	861.63
28	863.09	862.79	863.35	863.12	863.28	863.75	863.99	863.77	863.47	863.02	862.23	861.67
29	863.06	862.80	863.45	863.10	---	863.84	864.00	863.73	863.50	863.01	862.20	861.65
30	863.11	862.90	863.65	863.05	---	863.90	864.00	863.76	863.52	862.99	862.18	861.65
31	863.11	---	863.68	863.04	---	863.93	---	863.73	---	862.97	862.10	---
MEAN	863.23	862.95	863.37	863.42	862.90	863.63	864.01	863.87	863.59	863.26	862.57	861.91
MAX	863.51	863.11	863.68	863.82	863.30	863.93	864.14	863.98	863.74	863.53	862.95	862.15
MIN	863.05	862.79	863.05	863.04	862.63	863.28	863.95	863.73	863.47	862.97	862.10	861.63

CAL YR 1984 MEAN 863.41 MAX 864.81 MIN 861.36
WTR YR 1985 MEAN 863.23 MAX 864.14 MIN 861.63

04237500 SENECA RIVER AT BALDWINSVILLE, NY

LOCATION.--Lat 43°09'25", long 76°19'55", Onondaga County, Hydrologic Unit 04140201, 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.

DRAINAGE AREA.--3,138 mi^2.

PERIOD OF RECORD.--November 1949 to current year in reports of Geological Survey. November 1898 to December 1908, prior to construction of Erie (Barge) Canal, not equivalent to later records at same site because of extensive development of Erie (Barge) Canal system. January 1909 to September 1925 (gage heights only) in reports of State Engineer and Surveyor.

REVISED RECORDS.--WDR NY-78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 361.38 ft above National Geodetic Vertical Datum of 1929 (362.60 ft Erie (Barge) Canal Datum). Prior to Dec. 31, 1908, nonrecording gage at same site at different datum. Auxiliary water-stage recorder 1,500 ft downstream from base gage at same datum.

REMARKS.--Estimated daily discharges: Oct. 8-24, Nov. 6-8, June 25 to July 30 and Aug. 31 to Sept. 15. Records good except those below 2,000 ft^3/s, which are poor. Discharge from 1898 to 1908 determined on basis of head on dam, flow through 10 mills nearby, lockages at Oswego Canal lock, estimated leakage of dam, wheel gates, flumes, and penstocks; not adjusted for inflow from Lake Erie through Erie (Barge) Canal. Discharge, since November 1949, computed by using fall as determined by auxiliary water-stage recorder. Published discharge represents the total flow 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 the river basin. Large diurnal fluctuations at low and medium flows caused by powerplants upstream from station. Seneca River basin receives water from Erie (Barge) Canal through lock 32 near Pittsford. During part of year, entire flow from 45.5 mi^2 of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin (see station 01529000). Gage height telemeter at station. Several measurements of water temperature were made during the year.

COOPERATION.--Records of lockages at lock 24 furnished by New York State Department of Transportation (since November 1949).

AVERAGE DISCHARGE.--35 years (water years 1951-85), 3,426 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 17,200 ft^3/s Apr. 4, 1960, June 28, 1972; maximum gage height, 9.21 ft Apr. 4, 1960, June 30, 1972; minimum daily discharge, 34 ft^3/s Sept. 17, 1985, result of extreme regulation; minimum gage height, 0.70 ft Feb. 20, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8,540 ft^3/s Mar. 15; maximum gage height, 5.40 ft Feb. 26; minimum daily discharge, 34 ft^3/s Sept. 17, result of extreme regulation; minimum gage height, 0.94 ft Aug. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1310	3010	2610	6780	1590	6890	3170	769	898	840	486	432
2	1220	3450	2760	7240	1550	6500	4570	704	988	1020	932	422
3	1370	2040	3160	7610	1520	5890	5060	617	1240	840	975	402
4	1230	1780	4170	7250	1480	5400	4800	405	1360	604	919	396
5	1340	2850	4260	7020	1400	4780	4530	249	684	582	842	614
6	1370	2510	4170	6530	1220	3990	4570	624	371	598	240	416
7	930	2310	4180	6170	1210	3820	4330	1060	474	606	205	432
8	650	2210	4060	5950	1360	3980	4060	995	332	636	718	450
9	670	2060	4020	5670	1460	4590	3460	783	586	634	771	446
10	540	2200	3470	5450	1450	5510	2610	810	721	648	799	672
11	560	2740	3780	5420	1450	6340	2360	615	929	630	719	882
12	450	3510	4290	5500	1640	7150	2070	350	1010	590	128	412
13	590	3910	4930	5450	1770	7700	2080	1110	1270	608	163	406
14	390	3820	5720	4570	1640	8240	2120	1330	1830	604	738	442
15	610	3840	5930	4240	1610	8540	2090	1460	2010	662	752	428
16	600	4330	5670	4250	1590	8290	2010	946	1880	618	760	218
17	600	4430	5110	4520	1570	8120	1540	688	1780	604	815	34
18	810	4180	4870	4670	1560	7920	1230	756	1620	596	816	71
19	870	3470	5030	5060	1520	7740	970	880	1600	580	763	690
20	810	3490	5270	4980	1530	7540	920	821	1530	596	701	725
21	750	3690	5670	4220	1530	7150	1570	781	1740	598	111	762
22	760	3820	6090	4030	1550	6850	1760	817	1800	570	150	744
23	370	3680	6320	3670	1780	6620	1640	847	1770	608	651	572
24	1110	3780	6120	3540	2810	6460	1550	566	1670	570	1010	291
25	2510	3730	6270	2930	6020	6110	1440	524	1020	556	1130	268
26	2730	2870	6040	2350	8040	4160	1280	761	648	610	486	362
27	2640	2000	5840	1820	7800	2500	1230	744	586	560	139	997
28	2630	1480	5750	1250	7910	1980	1270	743	584	562	53	1580
29	2640	1580	5720	1330	---	1690	1190	738	756	552	140	1010
30	2670	2140	6640	1690	---	1860	1000	713	738	556	662	278
31	2630	---	6540	1650	---	2110	---	714	---	403	442	---
TOTAL	38360	90910	154460	142810	67560	176420	72480	23920	34425	19241	18216	15854
MEAN	1237	3030	4983	4607	2413	5691	2416	772	1148	621	588	528
MAX	2730	4430	6640	7610	8040	8540	5060	1460	2010	1020	1130	1580
MIN	370	1480	2610	1250	1210	1690	920	249	332	403	53	34

CAL YR 1984 TOTAL 1452863 MEAN 3970 MAX 10000 MIN 295
WTR YR 1985 TOTAL 854656 MEAN 2342 MAX 8540 MIN 34

04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY

LOCATION.--Lat 42°55'51", long 76°10'24", Onondaga County, Hydrologic Unit 04140201, at Onondaga Dam on Onondaga Creek, 3.5 mi southwest of Nedrow, 4 mi south of Syracuse, and 10.5 mi upstream from Onondaga Lake.

DRAINAGE AREA.--67.7 mi^2.

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

REMARKS.--Reservoir is formed by a rolled earthfill dam, completed by Corps of Engineers in August 1949 for flood control; first used for flood regulation about a year prior to completion. Usable capacity, 18,200 acre-ft 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 485.9 ft Apr. 1, 1960, contents, 5,960 acre-ft; no contents at times.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 473.57 ft Feb. 25, contents, 1,580 acre-ft; minimum elevation, 458.96 ft Aug. 22, 23, 24, 25, no contents many days.

Capacity table (elevation, in feet, and contents, in acre-feet)

460.00	0	470.00	700
461.00	5	473.00	1,420
462.00	15	478.00	2,880
464.00	50	482.00	4,230
467.00	225	486.00	6,010

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	459.64	459.81	463.93	464.70	460.31	462.42	463.13	459.84	459.38	459.53	459.28	459.02
2	459.63	459.77	464.37	466.32	460.08	462.31	462.22	459.81	459.36	459.53	459.30	459.02
3	459.64	459.75	462.47	463.68	459.99	461.85	461.95	459.78	459.33	459.52	459.29	459.02
4	459.64	459.72	463.05	462.24	460.12	461.09	462.38	459.75	459.31	459.53	459.27	459.02
5	459.62	460.54	461.70	462.02	460.05	462.43	462.22	459.73	459.29	459.53	459.24	459.91
6	459.59	460.67	461.33	461.66	459.97	462.47	461.76	460.13	459.30	459.51	459.21	460.32
7	459.56	460.19	461.21	461.56	459.91	461.80	461.36	461.16	459.30	459.49	459.18	459.95
8	459.53	459.97	461.09	461.37	459.85	462.49	461.14	460.34	459.27	459.47	459.16	459.79
9	459.51	459.86	461.02	461.03	459.82	463.87	461.06	459.94	459.24	459.45	459.15	459.69
10	459.48	460.01	461.17	461.26	459.81	463.36	460.86	459.85	459.21	459.64	459.14	459.67
11	459.47	460.51	462.03	461.41	459.81	463.20	460.82	459.79	459.18	459.65	459.11	459.70
12	459.45	460.47	462.27	460.96	459.84	465.37	460.70	459.75	459.36	459.61	459.09	459.66
13	459.44	460.25	463.40	460.92	460.08	467.96	460.57	459.74	459.74	459.56	459.06	459.61
14	459.42	460.12	463.27	460.85	460.22	467.06	460.54	459.72	459.85	459.52	459.05	459.56
15	459.41	460.02	462.19	460.73	460.10	465.02	460.48	459.69	459.72	459.48	459.04	459.51
16	459.39	459.97	461.81	460.47	460.02	463.33	460.40	459.66	459.65	459.79	459.04	459.46
17	459.36	459.94	461.54	460.80	459.95	463.07	460.27	459.65	459.64	459.72	459.04	459.42
18	459.32	459.89	461.26	460.62	459.89	462.46	460.22	459.63	459.62	459.66	459.03	459.37
19	459.30	459.85	461.14	460.51	459.87	462.00	460.37	459.60	459.57	459.59	459.02	459.34
20	459.32	459.80	461.60	460.42	459.83	462.23	460.76	459.58	459.50	459.53	459.00	459.30
21	459.35	459.75	461.20	460.42	459.84	461.85	460.49	459.56	459.46	459.48	458.98	459.26
22	459.36	459.72	462.57	460.74	460.13	461.45	460.27	459.56	459.42	459.43	458.96	459.23
23	459.38	459.70	462.79	460.56	463.26	461.50	460.12	459.53	459.44	459.38	458.96	459.21
24	459.38	459.69	461.75	460.34	469.58	461.41	460.02	459.49	459.47	459.33	458.96	459.18
25	459.37	459.67	461.44	460.26	473.14	461.19	460.07	459.45	459.48	459.28	458.97	459.16
26	459.52	459.66	460.92	460.19	471.60	460.99	460.28	459.42	459.48	459.25	458.99	459.15
27	459.90	459.63	460.79	460.16	468.04	460.98	460.11	459.39	459.47	459.29	458.99	459.63
28	459.83	459.63	461.20	460.14	463.45	461.60	459.99	459.40	459.45	459.31	458.99	460.46
29	460.57	461.86	463.30	460.08	---	462.22	459.98	459.42	459.47	459.29	458.99	459.88
30	460.33	462.46	467.39	460.04	---	461.55	459.90	459.41	459.52	459.26	459.00	459.70
31	459.93	---	466.33	460.18	---	461.39	---	459.39	---	459.24	459.01	---
MEAN	459.57	460.10	462.31	461.18	461.73	462.64	460.81	459.71	459.45	459.48	459.08	459.51
MAX	460.57	462.46	467.39	466.32	473.14	467.96	463.13	461.16	459.85	459.79	459.30	460.46
MIN	459.30	459.63	460.79	460.04	459.81	460.98	459.90	459.39	459.18	459.24	458.96	459.02
†	0	9.2	55.8	2.5	25.1	26.4	0	0	0	0	0	0
††	0	+0.15	+0.76	-0.87	+0.41	+0.02	-0.44	0	0	0	0	0

CAL YR 1984 MEAN 461.69 MAX 475.85 MIN 459.30 †† +0.07
WTR YR 1985 MEAN 460.46 MAX 473.14 MIN 458.96 †† 0

† Contents, in acre-feet, at end of month.
†† Change in contents, equivalent in cubic feet per second.

04239000 ONONDAGA CREEK AT DORWIN AVENUE, SYRACUSE, NY

LOCATION.--Lat 42°59'00", long 76°09'04", Onondaga County, Hydrologic Unit 04140201, on left bank 550 ft upstream from bridge on Dorwin Avenue, at Syracuse, and 4 mi downstream from Onondaga Reservoir.

DRAINAGE AREA.--88.5 mi^2.

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

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 414.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 5 to Feb. 16, Feb. 20-21 and Mar. 18-20. Records good except for estimated daily discharges, 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. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--34 years, 125 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,260 ft^3/s July 3, 1974, gage height, 6.48 ft; minimum daily, 5.5 ft^3/s Aug. 17, 1965; minimum gage height, 1.15 ft Sept. 16, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,230 ft^3/s Feb. 24 at 1930 hours, gage height, 4.51 ft; minimum, 13 ft^3/s Aug. 21; minimum gage height, 1.33 ft, Sept. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	57	437	505	80	231	289	68	48	35	43	19
2	57	61	415	565	76	221	222	66	44	31	28	18
3	55	60	259	351	74	186	200	65	42	33	26	17
4	54	54	298	221	72	136	236	62	43	40	24	17
5	49	124	182	190	76	233	220	61	41	31	20	97
6	44	112	163	170	84	222	185	102	51	28	19	74
7	44	84	150	160	74	178	159	154	43	29	18	45
8	42	71	143	140	76	245	144	90	39	28	23	32
9	42	65	140	130	78	346	140	70	37	25	23	29
10	42	103	161	120	80	298	128	65	38	43	20	50
11	42	117	228	140	72	283	126	62	34	38	19	46
12	41	99	238	130	76	501	118	60	71	30	17	33
13	41	88	369	130	80	684	110	65	82	29	17	28
14	40	80	301	120	88	586	109	59	67	27	18	25
15	38	75	220	110	88	434	106	55	51	29	19	23
16	37	77	191	96	76	291	101	55	46	56	24	21
17	36	75	172	100	71	267	95	61	58	32	20	20
18	36	69	153	110	69	210	93	54	50	27	18	19
19	39	69	152	110	69	180	103	55	42	25	15	18
20	57	63	183	100	64	190	125	53	39	24	16	17
21	49	62	146	94	62	176	104	56	44	24	15	17
22	51	61	323	98	98	153	93	53	37	23	16	17
23	52	60	264	110	441	155	86	48	50	20	17	16
24	46	62	185	100	1040	149	79	45	39	19	17	16
25	43	60	164	94	1060	137	87	44	34	19	23	16
26	73	58	130	90	896	126	94	43	31	29	20	16
27	72	56	125	86	673	125	84	48	30	44	17	85
28	59	59	173	84	317	163	79	58	29	29	17	97
29	118	286	401	80	---	198	78	54	45	23	18	47
30	91	259	740	76	---	154	73	46	45	21	19	33
31	68	---	562	74	---	153	---	44	---	32	22	---
TOTAL	1605	2626	7768	4684	6110	7611	3866	1921	1350	923	628	1008
MEAN	51.8	87.5	251	151	218	246	129	62.0	45.0	29.8	20.3	33.6
MAX	118	286	740	565	1060	684	289	154	82	56	43	97
MIN	36	54	125	74	62	125	73	43	29	19	15	16

CAL YR 1984	TOTAL	56314	MEAN	154	MAX	1340	MIN	30
WTR YR 1985	TOTAL	40100	MEAN	110	MAX	1060	MIN	15

04240010 ONONDAGA CREEK AT SPENCER STREET, SYRACUSE, NY

LOCATION.--Lat 43°03'27", long 76°09'46", Onondaga County, Hydrologic Unit 04140201, on right bank 250 ft upstream from bridge on Spencer Street in Syracuse, 1,000 ft upstream from Erie (Barge) Canal terminal, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--110 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. September 1970 to current year.

REVISED RECORDS.--WRD NY 1972: 1971(M). WRD NY 1975: 1972(M), 1974(M). WDR NY-81-3: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 362.29 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 9-12, 15-16, 20-22, 27-28, Jan. 31 to Feb. 9, Feb. 11, 15-16, 20-23, 28 and Mar. 18-20. Records good except for estimated daily discharges and period of excessive datum correction, Aug. 7 to Sept. 30, 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. Flow may be affected by backwater from Onondaga Lake at times when the lake elevation exceeds 364.75 ft. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--15 years, 193 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,740 ft^3/s July 3, 1974, gage height, 8.73 ft; minimum, 20 ft^3/s Sept. 26, 1985, gage height, 2.16 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,180 ft^3/s Feb. 24 at 2130 hours, gage height, 5.82 ft; minimum, 20 ft^3/s Sept. 26, gage height, 2.16 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	75	459	579	110	283	383	102	80	54	67	30
2	73	73	423	592	96	270	326	98	74	50	51	28
3	70	74	280	395	88	238	312	97	71	52	46	25
4	68	85	315	267	86	191	354	95	75	59	44	33
5	62	138	208	248	92	283	345	94	70	50	40	107
6	57	129	186	221	98	277	309	166	73	59	38	87
7	57	99	177	214	94	225	253	193	67	46	38	57
8	56	86	167	201	92	300	211	127	66	46	44	45
9	55	91	166	160	92	404	189	105	62	45	47	52
10	57	121	186	160	96	355	173	102	59	62	41	63
11	57	135	253	160	96	344	172	96	55	57	34	69
12	56	117	268	170	100	547	164	110	146	51	32	57
13	58	105	388	170	118	705	156	99	109	51	48	51
14	57	98	326	163	117	620	155	92	96	54	35	47
15	56	92	251	160	100	483	154	88	79	88	55	44
16	53	94	224	130	96	348	153	89	95	91	36	41
17	50	92	205	148	98	324	139	92	84	73	36	37
18	52	86	188	150	96	270	136	85	78	70	34	36
19	78	85	192	142	95	240	155	85	68	77	34	37
20	70	80	217	120	90	250	165	84	80	84	33	35
21	63	77	188	110	88	232	145	89	67	72	33	33
22	63	77	365	120	120	208	136	85	67	65	33	32
23	64	76	297	130	460	212	131	78	83	52	34	27
24	58	76	221	127	1010	204	124	75	62	51	33	26
25	55	76	202	124	1010	192	124	71	57	54	53	24
26	91	75	164	119	856	180	134	69	56	80	35	23
27	90	72	155	110	684	182	120	78	51	81	31	165
28	97	99	207	110	360	236	112	85	48	63	31	102
29	128	311	475	112	---	263	112	84	72	57	31	55
30	110	283	698	108	---	219	108	77	65	44	32	44
31	85	---	564	92	---	241	---	99	---	70	34	---
TOTAL	2107	3177	8615	5812	6538	9326	5650	2989	2215	1908	1213	1512
MEAN	68.0	106	278	187	234	301	188	96.4	73.8	61.5	39.1	50.4
MAX	128	311	698	592	1010	705	383	193	146	91	67	165
MIN	50	72	155	92	86	180	108	69	48	44	31	23

CAL YR 1984	TOTAL	69098	MEAN	189	MAX	1140	MIN	50
WTR YR 1985	TOTAL	51062	MEAN	140	MAX	1010	MIN	23

04240100 HARBOR BROOK AT SYRACUSE, NY

LOCATION.--Lat 43°02'09", long 76°10'55", Onondaga County, Hydrologic Unit 04140201, on left bank 160 ft upstream from bridge on Holden Street at Syracuse, 220 ft downstream from gated outlet of Velasko Road Detention Basin, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--10.0 mi².

PERIOD OF RECORD.--June 1959 to current year.

REVISED RECORDS.--WSP 2112: Drainage area. WDR NY-82-3: 1981 (M).

GAGE.--Water-stage recorder. Datum of gage is 391.16 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1978, at site 1,660 ft upstream and Oct. 1, 1978 to May 31, 1980, at site 1,800 ft upstream at datum 3.63 ft higher.

REMARKS.--Estimated daily discharges: Oct. 18 to Nov. 6, Nov. 19 to Dec. 10, Dec. 13 to Jan. 14 and May 29 to Sept. 30. Records poor. Flow includes some sewage and storm sewer inflow, some originating outside the basin. Flows can be regulated at detention basin by Onondaga County. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 8.99 ft³/s, 12.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 726 ft³/s July 3, 1974, gage height, 8.34 ft datum then in use, from rating curve extended above 180 ft³/s on basis of slope-area measurements of peak flow; minimum, 0.11 ft³/s, gage height, 0.77 ft Aug. 8, 1980, result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 128 ft³/s Feb. 24 at 1645 hours, gage height, 3.73 ft, from rating curve extended above 60 ft³/s on basis of indirect measurement of peak flow; minimum daily, 2.30 ft³/s Sept. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	4.0	23	37	5.7	15	17	7.1	7.5	4.5	8.5	5.0
2	3.8	4.0	7.6	20	5.6	14	11	7.0	6.0	4.5	7.0	4.0
3	4.0	3.7	8.0	15	5.3	12	12	7.2	7.0	4.7	6.5	4.5
4	3.7	4.5	6.0	13	5.3	11	12	7.4	5.0	4.5	6.1	5.0
5	3.5	7.0	5.0	12	5.3	14	12	7.4	5.0	4.5	5.7	8.0
6	3.3	3.7	5.8	11	5.3	12	11	10	5.0	6.5	5.5	4.5
7	3.4	3.6	5.8	10	5.1	10	9.9	6.6	5.0	5.0	5.5	5.0
8	3.5	3.6	5.8	9.6	5.0	20	9.4	5.5	5.5	4.8	5.5	6.5
9	3.5	4.9	6.0	9.6	4.7	23	9.2	5.3	5.0	5.5	4.5	6.0
10	3.3	7.0	6.6	11	4.7	20	9.1	5.1	5.0	6.0	3.5	7.5
11	3.3	3.7	7.3	9.0	4.8	20	9.1	5.3	5.0	6.0	6.0	7.5
12	3.4	3.6	9.7	8.4	4.9	41	8.6	8.6	16	6.0	3.0	6.5
13	3.3	3.6	20	8.0	5.2	38	8.3	6.6	7.0	6.0	4.5	7.0
14	3.3	3.6	10	7.6	4.8	25	8.2	6.0	5.5	6.2	4.5	7.0
15	3.3	3.5	9.0	7.4	4.6	20	8.1	5.9	5.5	13	8.5	6.5
16	3.3	3.5	8.0	7.2	4.5	17	7.5	6.0	12	5.0	4.5	5.5
17	3.3	3.5	7.4	7.2	4.5	17	7.6	5.5	5.5	5.5	5.0	10
18	3.7	3.4	7.0	7.2	4.7	15	7.7	5.5	5.0	5.5	4.5	9.0
19	7.0	3.4	7.2	7.2	4.9	14	8.9	5.6	5.0	5.2	4.5	11
20	4.0	3.4	7.0	7.0	4.7	14	7.8	5.4	6.0	5.2	4.5	13
21	3.3	3.4	7.6	7.0	4.7	12	7.4	6.3	5.0	5.0	4.5	9.0
22	3.6	3.3	25	7.0	6.9	12	7.4	5.2	5.0	5.3	4.5	6.0
23	4.1	3.4	11	6.7	43	11	7.4	5.1	5.0	5.3	4.5	6.0
24	4.0	3.4	9.0	6.6	100	11	7.4	5.0	4.5	5.5	4.5	4.5
25	4.2	3.3	8.4	6.6	45	9.9	7.4	5.0	4.5	5.5	7.0	2.5
26	7.4	3.3	8.0	6.3	21	9.2	7.2	4.9	4.5	11	4.5	2.3
27	4.5	3.3	7.4	6.1	19	9.4	6.6	6.4	4.5	4.7	5.0	23
28	7.2	6.6	12	6.1	15	13	6.8	6.8	4.5	5.5	5.0	4.0
29	7.0	12	40	6.1	---	9.5	7.1	4.3	6.5	5.5	5.5	2.5
30	4.4	6.4	30	5.9	---	9.0	7.4	4.2	4.5	7.0	5.0	3.5
31	3.5	---	16	5.9	---	13	---	8.5	---	15	5.5	---
TOTAL	127.0	129.6	346.6	294.7	354.2	491.0	266.5	190.7	177.0	189.4	163.3	202.3
MEAN	4.10	4.32	11.2	9.51	12.6	15.8	8.88	6.15	5.90	6.11	5.27	6.74
MAX	7.4	12	40	37	100	41	17	10	16	15	8.5	23
MIN	3.3	3.3	5.0	5.9	4.5	9.0	6.6	4.2	4.5	4.5	3.0	2.3
CFSM	.41	.43	1.12	.95	1.26	1.58	.89	.61	.59	.61	.53	.67
IN.	0.47	0.48	1.29	1.10	1.32	1.83	0.99	0.71	0.66	0.70	0.61	0.75

CAL YR 1984 TOTAL 3304.31 MEAN 9.03 MAX 87 MIN .51 CFSM .90 IN. 12.29
WTR YR 1985 TOTAL 2932.3 MEAN 8.03 MAX 100 MIN 2.3 CFSM .80 IN. 10.91

04240105 HARBOR BROOK AT HIAWATHA BOULEVARD, SYRACUSE, NY

LOCATION.--Lat 43°03'22", long 76°11'07", Onondaga County, Hydrologic Unit 04140201, on left bank 250 ft downstream from culvert on Hiawatha Boulevard, in Syracuse, and 0.5 mi upstream from mouth.

DRAINAGE AREA.--11.3 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1958-70. October 1970 to current year.

REVISED RECORDS.--WDR NY-76-1: 1971-75 (P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 365.86 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Aug. 31 to Sept. 3 and Sept. 21, 22. Records good. Flow includes some sewage and storm sewer inflow, some originating outside the basin. Flow can be regulated at Velasko Road Detention Basin 2.1 mi upstream. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--15 years, 14.3 ft³/s, 17.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 824 ft³/s July 3, 1974, gage height, 7.91 ft from rating curve extended above 160 ft³/s on basis of step-backwater computations; maximum gage height, 8.15 ft Sept. 26, 1975 (backwater from debris jam); minimum discharge, 0.42 ft³/s Sept. 26, 1985, caused by construction work upstream of gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 290 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
May 31	2315	*126	*3.73	No peak greater than base discharge.			

Minimum discharge, 0.42 ft³/s Sept. 26, gage height 1.46 ft, caused by construction work upstream of gage.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	4.7	27	49	7.5	15	18	6.9	8.4	5.1	9.5	5.4
2	4.5	4.7	8.9	24	7.3	15	13	6.8	5.1	5.0	7.7	4.8
3	4.5	4.2	10	18	7.1	14	15	6.7	6.9	5.3	6.9	5.0
4	4.4	5.7	7.5	16	6.9	13	15	6.6	7.5	5.0	6.8	5.5
5	4.0	7.0	6.2	15	6.7	16	14	6.9	5.7	5.0	6.5	9.2
6	3.8	4.3	7.0	14	6.9	14	13	15	5.6	7.4	6.0	4.9
7	3.8	4.3	7.0	13	6.7	13	12	6.8	5.6	5.5	6.0	6.0
8	3.7	4.2	7.1	12	6.6	22	11	5.6	5.9	5.3	5.9	7.6
9	3.7	5.7	7.3	12	6.5	26	11	5.5	5.4	6.3	5.0	7.1
10	3.6	8.0	8.9	13	6.5	22	11	5.5	5.3	6.9	4.2	8.6
11	3.6	4.9	11	11	6.6	22	10	5.4	5.6	6.5	7.3	8.2
12	3.7	4.4	13	10	6.7	43	9.9	11	18	6.5	4.8	7.4
13	3.7	4.4	23	10	7.2	40	9.5	5.7	7.8	6.5	5.4	7.9
14	3.6	4.3	12	9.9	6.5	26	9.4	6.4	6.0	7.0	5.4	8.1
15	3.6	4.2	11	9.8	6.3	22	9.3	5.9	5.8	15	9.8	7.4
16	3.6	4.3	9.5	9.5	6.3	19	9.4	5.7	13	5.6	5.0	6.0
17	3.6	4.2	8.9	9.3	6.4	19	8.5	4.9	6.3	6.2	5.6	11
18	4.2	4.2	8.4	9.2	6.6	17	8.6	4.9	5.7	6.2	5.0	10
19	7.9	4.1	8.6	9.1	6.5	15	10	6.5	5.4	5.9	4.9	12
20	4.1	4.1	8.2	8.6	6.4	15	9.8	6.0	6.8	5.8	5.0	15
21	3.6	4.1	9.1	8.2	6.4	14	10	6.1	5.4	5.7	5.0	10
22	4.2	4.1	29	8.2	8.7	13	7.8	5.1	5.4	6.0	5.1	6.9
23	4.7	4.1	13	8.0	36	12	8.0	5.1	5.7	5.9	5.1	7.0
24	4.4	4.2	11	8.0	82	12	7.9	5.0	4.9	5.9	5.1	5.0
25	4.8	4.1	10	7.9	42	12	7.8	4.9	4.8	6.1	7.9	3.1
26	8.7	4.1	9.3	7.7	22	11	7.8	4.9	4.8	12	5.2	2.6
27	5.0	4.0	8.7	7.5	20	12	7.1	5.7	4.8	5.4	5.4	26
28	8.2	8.0	15	7.6	16	17	7.1	5.7	5.3	6.1	5.7	4.5
29	7.0	14	52	7.5	---	11	6.9	4.9	8.2	6.0	5.9	2.9
30	5.1	7.3	36	7.4	---	11	6.9	4.8	5.1	8.0	5.8	3.8
31	3.9	---	18	7.3	---	16	---	9.9	---	17	6.0	---
TOTAL	142.2	153.9	421.6	367.7	367.3	549	304.7	196.8	196.2	212.1	184.9	228.9
MEAN	4.59	5.13	13.6	11.9	13.1	17.7	10.2	6.35	6.54	6.84	5.96	7.63
MAX	8.7	14	52	49	82	43	18	15	18	17	9.8	26
MIN	3.6	4.0	6.2	7.3	6.3	11	6.9	4.8	4.8	5.0	4.2	2.6
CFSM	.41	.45	1.20	1.05	1.16	1.57	.90	.56	.58	.61	.53	.68
IN.	0.47	0.51	1.39	1.21	1.21	1.81	1.00	0.65	0.65	0.70	0.61	0.75

CAL YR 1984 TOTAL 4059.7 MEAN 11.1 MAX 96 MIN 2.3 CFSM .98 IN. 13.36
WTR YR 1985 TOTAL 3325.3 MEAN 9.11 MAX 82 MIN 2.6 CFSM .81 IN. 10.95

04240120 LEY CREEK AT PARK STREET, SYRACUSE, NY

LOCATION.--Lat 43°04'38", long 76°10'14", Onondaga County, Hydrologic Unit 04140201, on left bank 0.2 mi upstream from bridge on Park Street, and 0.4 mi upstream from mouth.

DRAINAGE AREA.--29.9 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements water years 1959-72. December 1972 to current year.

REVISED RECORDS.--WDR NY 76-1: 1975 (M).

GAGE.--Water-stage recorder, crest-stage gage, and steel "H" beam control since July 9, 1984. Datum of gage is 362.76 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1978, at same site at datum 0.08 ft higher.

REMARKS.--Records poor. Flow may be affected by backwater from Onondaga Lake at times when the lake elevation exceeds 364.5 ft. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--12 years (water years 1974-85), 44.8 ft^3/s, 20.35 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,310 ft^3/s Sept. 26, 1975, gage height, 6.17 ft, from rating curve extended above 530 ft^3/s; minimum daily, 1.9 ft^3/s Feb. 6, 7, 1977; minimum gage height, 0.28 ft Feb. 6-8, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Dec. 29	2130	*520	*4.07	No other peak greater than base discharge.			

Minimum daily discharge, 5.2 ft^3/s Aug. 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	199	263	17	42	123	19	128	12	30	11
2	23	18	96	170	15	39	74	20	16	11	13	14
3	17	16	66	74	14	27	52	17	14	9.9	13	13
4	16	13	48	50	13	18	50	15	9.6	9.5	12	21
5	13	65	31	39	13	45	44	17	8.6	8.9	14	57
6	10	34	24	32	14	35	36	67	9.9	11	14	28
7	9.7	22	22	28	14	29	28	49	14	26	11	15
8	9.7	16	23	24	14	70	23	24	37	12	12	9.0
9	11	18	34	21	15	123	22	19	13	9.5	11	19
10	12	95	50	20	17	129	19	17	21	9.8	9.7	22
11	9.8	51	71	20	19	121	19	15	32	13	9.4	13
12	9.7	34	81	21	24	220	19	41	140	9.8	8.7	11
13	9.8	32	143	22	31	230	17	61	69	9.5	9.9	12
14	10	23	104	25	30	120	17	22	36	9.6	15	11
15	11	19	67	23	24	60	17	18	18	55	14	10
16	9.4	18	47	20	24	41	19	23	20	62	16	10
17	9.7	15	40	19	25	31	15	21	34	18	8.1	12
18	14	14	33	21	26	25	17	15	14	15	7.6	14
19	14	14	30	20	24	24	36	17	11	16	7.1	19
20	26	14	44	18	25	25	53	15	35	17	7.9	18
21	11	14	33	16	26	24	27	22	23	16	5.9	17
22	12	13	237	15	69	20	22	15	10	15	5.2	18
23	16	12	125	17	241	20	20	14	26	18	5.4	17
24	14	12	71	19	335	19	19	13	13	16	6.9	15
25	13	13	42	20	340	19	20	12	9.7	16	44	17
26	59	17	31	19	190	19	19	11	10	35	16	17
27	25	16	22	18	92	19	18	19	9.9	23	12	186
28	14	33	48	18	58	50	17	23	10	14	9.6	75
29	43	197	280	18	---	41	20	14	32	13	10	18
30	24	140	307	17	---	28	19	13	15	13	11	12
31	20	---	153	16	---	41	---	38	---	38	11	---
TOTAL	514.8	1016	2602	1123	1749	1754	901	706	838.7	561.5	380.4	731.0
MEAN	16.6	33.9	83.9	36.2	62.5	56.6	30.0	22.8	28.0	18.1	12.3	24.4
MAX	59	197	307	263	340	230	123	67	140	62	44	186
MIN	9.4	12	22	15	13	18	15	11	8.6	8.9	5.2	9.0
CFSM	.56	1.13	2.81	1.21	2.09	1.89	1.00	.76	.94	.61	.41	.82
IN.	0.64	1.26	3.24	1.40	2.18	2.18	1.12	0.88	1.04	0.70	0.47	0.91

CAL YR 1984	TOTAL	16576.4	MEAN	45.3	MAX	580	MIN	7.1	CFSM	1.52	IN.	20.62
WTR YR 1985	TOTAL	12877.4	MEAN	35.3	MAX	340	MIN	5.2	CFSM	1.18	IN.	16.02

04240180 NINEMILE CREEK NEAR MARIETTA, NY

LOCATION.--Lat 42°55'15", long 76°19'47", Onondaga County, Hydrologic Unit 04140201, on right bank 25 ft upstream from bridge on Schuyler Road, 0.9 mi north of Marietta, and 1.8 mi downstream from Otisco Lake. Water-quality sampling site at discharge station.

DRAINAGE AREA.--45.1 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955, 1963. June 1964 to current year.

REVISED RECORDS.--WRD NY 1971: 1966(M), 1968, 1969. WDR NY-82-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 748.25 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--21 years (water years 1965-85), 40.2 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft³/s June 23, 1972, gage height, 8.65 ft; minimum, 0.80 ft³/s Sept. 13, 18, 19, 1966, gage height, 0.61 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 199 ft³/s Feb. 24 at 1700 hours, gage height, 4.17 ft; minimum, 2.8 ft³/s Aug. 20, gage height, 0.65 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	38	51	156	94	74	37	15	5.5	7.0	7.3	4.4
2	23	36	33	156	93	72	20	14	5.2	6.8	4.3	4.6
3	44	35	34	151	93	69	24	12	5.6	9.9	4.7	4.4
4	44	34	30	141	92	68	27	10	4.7	7.4	4.7	4.8
5	43	42	28	130	92	73	33	10	4.7	7.2	4.7	17
6	43	36	28	120	92	70	34	15	4.7	6.9	4.7	4.4
7	43	34	27	112	92	69	34	16	7.1	6.9	4.9	4.1
8	42	34	26	106	92	75	35	13	8.3	6.6	4.8	3.7
9	41	34	26	98	92	75	34	12	8.1	6.7	4.6	4.1
10	41	40	37	97	91	75	35	10	7.8	6.9	4.5	6.8
11	41	36	53	108	91	76	33	8.8	7.7	6.6	4.5	4.2
12	41	35	55	103	90	100	32	9.0	12	6.4	4.4	3.8
13	42	35	69	98	90	90	32	8.9	10	6.4	4.5	3.8
14	42	34	70	94	90	79	33	7.1	8.5	6.4	4.5	3.8
15	42	34	69	92	88	75	31	9.3	8.0	7.2	5.7	3.7
16	42	34	68	92	88	74	29	8.2	9.0	6.6	4.7	3.7
17	41	33	67	96	88	73	27	5.9	8.5	6.0	3.8	3.8
18	41	34	66	99	87	71	27	5.2	8.0	6.7	4.0	3.6
19	42	33	67	99	87	72	28	5.6	7.6	5.6	5.6	3.7
20	42	33	67	98	86	71	30	5.6	8.3	5.8	3.5	3.7
21	41	33	66	98	87	70	29	6.0	8.2	5.7	3.9	3.6
22	41	33	76	97	91	70	27	5.3	7.4	5.5	4.0	3.3
23	40	32	67	97	127	70	26	5.0	7.4	5.6	4.1	3.2
24	39	32	66	97	175	70	27	4.8	7.0	5.7	4.2	3.3
25	39	32	66	96	130	56	23	4.7	6.9	5.8	4.8	3.4
26	44	29	65	95	92	41	23	5.0	7.3	7.4	4.3	3.4
27	41	25	65	95	77	42	20	5.4	6.9	6.5	4.3	8.7
28	43	27	73	95	75	45	20	6.1	7.2	6.1	5.7	5.1
29	52	37	105	94	---	42	18	5.5	9.8	6.1	4.0	4.0
30	41	31	116	94	---	41	17	5.4	9.5	5.8	4.8	3.7
31	39	---	114	94	---	48	---	6.0	---	7.0	4.6	---
TOTAL	1252	1015	1850	3298	2662	2096	845	259.8	226.9	203.2	143.1	137.8
MEAN	40.4	33.8	59.7	106	95.1	67.6	28.2	8.38	7.56	6.55	4.62	4.59
MAX	52	42	116	156	175	100	37	16	12	9.9	7.3	17
MIN	12	25	26	92	75	41	17	4.7	4.7	5.5	3.5	3.2

CAL YR 1984	TOTAL	17731.5	MEAN	48.4	MAX	394	MIN 6.0
WTR YR 1985	TOTAL	13988.8	MEAN	38.3	MAX	175	MIN 3.2

04240300 NINEMILE CREEK AT LAKELAND, NY

LOCATION.--Lat 43°04'51", long 76°13'36", Onondaga County, Hydrologic Unit 04140201, on left bank 30 ft downstream from bridge on State Highway 48, 0.6 mi downstream from Geddes Brook, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--Occasional measurements, water years 1959-70. November 1970 to September 1973, July 1975 to current year.

REVISED RECORDS.--WDR NY-83-3: 1972 (M), 1976 (M), 1979 (M), 1982 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 360.67 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Feb. 3-9, June 15-16, July 19-21, 24-25, Aug. 18-27, Sept. 8-10, 12-13, 15-17, 19, 21-22 and 26. Records poor. Flow regulated by Otisco Lake from which water is diverted for city of Syracuse water supply. Flow affected by backwater from Onondaga Lake whenever lake level exceeds about 362 ft NGVD. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--12 years (1972-73, 1976-85), 214 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,110 ft^3/s June 23, 1972; maximum gage height, 8.75 ft Sept. 26, 1975 (backwater from Onondaga Lake); minimum daily discharge, 13 ft^3/s Aug. 18, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,220 ft^3/s Feb. 25; maximum gage height, 6.63 ft Feb. 25; minimum daily discharge, 13 ft^3/s Aug. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	101	391	696	187	329	307	90	176	56	75	32
2	83	99	250	752	183	301	228	83	101	47	58	33
3	98	90	232	543	170	241	205	82	84	57	42	16
4	115	90	209	459	160	199	239	76	76	75	26	26
5	110	151	166	407	150	237	228	75	72	55	34	106
6	109	120	151	355	150	232	209	117	77	53	32	117
7	101	96	129	308	150	202	176	153	61	58	37	38
8	95	83	136	287	160	254	158	131	71	58	37	30
9	98	80	143	266	170	352	164	110	61	54	33	28
10	92	137	157	248	174	380	151	102	60	66	16	60
11	95	141	205	240	174	391	153	86	40	64	16	26
12	87	127	244	250	174	525	143	115	146	55	31	22
13	89	122	380	244	185	700	141	156	132	54	44	17
14	87	110	325	230	181	546	136	110	104	54	32	15
15	84	79	271	218	175	493	141	92	60	86	39	15
16	84	86	237	213	170	415	129	106	45	98	46	14
17	83	82	213	220	170	394	113	110	76	67	15	14
18	87	72	202	230	168	343	113	101	73	30	13	24
19	76	82	211	228	168	299	131	87	68	30	16	19
20	101	83	213	211	162	318	144	87	84	30	23	16
21	92	83	220	190	166	292	134	82	87	28	15	16
22	90	80	410	207	201	264	126	73	60	26	16	15
23	93	75	355	192	439	257	117	68	54	26	18	15
24	86	83	282	182	1070	246	109	72	56	24	20	16
25	86	79	262	199	1220	232	106	75	52	22	30	16
26	120	77	220	197	696	195	101	60	44	36	17	16
27	110	66	203	187	502	164	102	79	58	36	14	57
28	106	104	226	183	370	189	96	99	36	26	24	99
29	179	213	512	186	---	206	96	90	64	25	24	57
30	126	204	853	192	---	187	95	76	66	43	17	14
31	101	---	552	184	---	197	---	95	---	72	26	---
TOTAL	3045	3095	8560	8704	8045	9580	4491	2938	2244	1511	886	989
MEAN	98.2	103	276	281	287	309	150	94.8	74.8	48.7	28.6	33.0
MAX	179	213	853	752	1220	700	307	156	176	98	75	117
MIN	76	66	129	182	150	164	95	60	36	22	13	14

CAL YR 1984 TOTAL 66707 MEAN 182 MAX 1480 MIN 58
WTR YR 1985 TOTAL 54088 MEAN 148 MAX 1220 MIN 13

04240495 ONONDAGA LAKE AT LIVERPOOL, NY

LOCATION.--Lat 43°06'01", long 76°12'34", Onondaga County, Hydrologic Unit 04140201, on north shore of Onondaga Lake at Onondaga Park Marina basin, 200 ft southwest of Onondaga Lake Parkway, and 1.9 mi upstream from outlet of lake.

DRAINAGE AREA.--285 mi².

PERIOD OF RECORD.--October 1970 to current year. Elevation records, at Barge Canal datum, since February 1927 collected by, and in files of, New York State Department of Transportation at Syracuse.

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

REMARKS.--Lake elevation regulated by operation of Erie (Barge) Canal. Area of water surface, 4.60 mi².

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 369.21 ft June 30, 1972; minimum, 361.54 ft Mar. 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 365.69 ft Feb. 25, 26; minimum, 362.31 ft July 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362.81	362.95	363.18	364.86	362.92	364.37	363.21	362.84	362.96	362.91	362.61	362.60
2	362.67	363.18	363.31	365.15	362.86	363.89	362.99	362.83	362.92	362.94	362.66	362.63
3	362.81	363.01	363.28	364.99	362.81	363.42	363.11	362.79	362.95	362.80	362.70	362.65
4	362.74	362.64	363.45	364.73	362.75	363.00	363.24	362.76	363.00	362.67	362.71	362.64
5	362.88	363.25	363.49	364.43	362.70	363.11	363.23	362.61	362.93	362.76	362.68	362.71
6	362.88	363.22	363.49	364.00	362.65	363.07	363.06	362.71	362.72	362.81	362.61	362.83
7	362.68	363.15	363.39	363.65	362.59	362.82	362.80	362.88	362.75	362.82	362.48	362.90
8	362.77	363.06	363.28	363.52	362.74	362.91	362.69	362.97	362.67	362.81	362.57	362.83
9	362.88	362.90	363.22	363.52	362.85	363.23	362.93	362.86	362.74	362.83	362.62	362.80
10	362.72	362.94	363.16	363.41	362.87	363.66	362.91	362.84	362.84	362.84	362.65	362.79
11	362.88	363.07	363.04	363.27	362.88	364.01	362.84	362.84	363.03	362.92	362.65	362.87
12	362.70	363.23	363.13	363.30	362.94	364.17	362.74	362.75	363.12	362.87	362.55	362.93
13	362.89	363.27	363.40	363.30	362.99	364.61	362.86	363.02	363.09	362.86	362.49	363.04
14	362.69	363.48	363.53	363.20	363.02	364.71	362.96	363.06	363.21	362.85	362.59	362.67
15	362.74	363.46	363.51	362.98	363.00	364.77	362.86	363.05	363.23	362.88	362.64	362.70
16	362.85	363.32	363.30	363.01	362.98	364.69	362.67	362.88	363.27	362.69	362.67	362.71
17	362.80	363.27	363.11	363.17	362.93	364.50	362.54	362.74	363.23	362.76	362.68	362.54
18	362.91	363.23	363.00	363.23	362.92	364.27	362.52	362.83	362.95	363.12	362.67	362.46
19	363.01	363.09	363.16	363.27	362.89	364.04	362.83	362.90	362.78	363.03	362.66	362.59
20	362.86	363.05	363.29	363.26	362.89	364.01	362.75	362.89	362.69	362.86	362.66	362.65
21	362.72	363.05	363.39	363.14	362.88	363.89	362.82	362.91	362.79	362.89	362.61	362.69
22	362.74	363.07	363.64	362.90	362.87	363.66	362.94	362.96	362.83	362.84	362.49	362.70
23	362.79	363.07	363.76	362.72	362.96	363.58	362.95	362.98	362.84	362.81	362.57	362.66
24	362.75	363.03	363.72	362.63	363.98	363.47	362.81	362.94	362.77	362.78	362.64	362.60
25	363.00	363.01	363.67	363.22	365.50	363.37	362.83	362.78	362.65	362.76	362.82	362.57
26	363.11	362.96	363.52	363.14	365.64	363.23	362.81	362.83	362.77	362.81	362.70	362.56
27	363.07	363.01	363.39	362.91	365.37	362.76	362.93	362.85	362.81	362.86	362.62	362.80
28	363.03	362.89	363.33	362.78	364.98	362.68	362.96	362.87	362.87	362.84	362.50	363.06
29	363.06	363.03	363.72	362.90	---	362.64	362.96	362.85	362.92	362.80	362.49	362.78
30	363.10	363.00	364.48	363.02	---	362.78	362.93	362.81	362.93	362.74	362.58	362.59
31	363.05	---	364.72	362.96	---	362.97	---	362.82	---	362.69	362.64	---
MEAN	362.86	363.10	363.45	363.44	363.26	363.62	362.89	362.86	362.91	362.83	362.62	362.72
MAX	363.11	363.48	364.72	365.15	365.64	364.77	363.24	363.06	363.27	363.12	362.82	363.06
MIN	362.67	362.64	363.00	362.63	362.59	362.64	362.52	362.61	362.65	362.67	362.48	362.46

CAL YR 1984 MEAN 363.37 MAX 365.77 MIN 362.38
WTR YR 1985 MEAN 363.05 MAX 365.64 MIN 362.46

04242500 EAST BRANCH FISH CREEK AT TABERG, NY

LOCATION.--Lat 43°18'06", long 75°37'09", Oneida County, Hydrologic Unit 04140202, on left bank at downstream side of bridge on Main Street at Taberg, just downstream from Furnace Creek, 300 ft upstream from bridge on State Highway 69, and 2.8 mi upstream from confluence of East and West Branches near Blossvale.

DRAINAGE AREA.--188 mi^2.

PERIOD OF RECORD.--April 1923 to current year.

REVISED RECORDS.--WSP 604: 1924. WSP 759: Drainage area. WSP 1034: 1944. WSP 1054: 1923-45. WDR NY-83-3: 1980 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 490.12 ft above National Geodetic Vertical Datum of 1929. Prior to May 20, 1969, at datum 1.00 ft higher.

REMARKS.--Estimated daily discharges: Nov. 14-15, 18-23, Dec. 3-10, 21-22, 24-28, Jan. 3 to Feb. 24, Mar. 1, 3-10, 16-27, Apr. 9-12, and May 1-24. Records fair. Diversion upstream from station for municipal water supply by cities of Rome and Oneida (1985 average, 25 ft^3/s). Diurnal fluctuation at low flow caused by power-generating operations upstream. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--62 years (water years 1924-85), 541 ft^3/s, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,600 ft^3/s Dec. 29, 1984, gage height, 13.81 ft, from slope-area indirect measurement of peak flow and result of release of upstream debris jam (constructed maximum discharge, about 16,000 ft^3/s on same date at earlier time when adjusted for storage effects); minimum discharge, 4.9 ft^3/s Aug. 15, 16, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Dec. 29	2215	*21,600	*13.81	No other peak greater than base discharge.			

Minimum discharge, 13 ft^3/s Aug. 7, gage height, 0.22 ft (result of regulation).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	183	1210	2620	160	980	1370	300	264	225	65	142
2	197	196	995	3160	180	993	1050	270	252	140	50	111
3	219	224	680	1400	160	780	814	250	184	112	40	91
4	437	225	540	880	160	480	741	230	134	133	33	117
5	466	814	450	620	170	450	1120	230	117	106	29	145
6	318	822	400	490	170	450	2760	700	120	82	27	483
7	248	581	390	470	160	430	2790	1000	119	76	31	756
8	215	422	390	430	150	480	1680	660	108	86	27	399
9	208	336	400	270	150	580	1000	360	113	80	55	1030
10	224	548	420	250	160	560	750	240	121	69	42	2170
11	211	885	434	240	170	577	720	200	113	72	42	739
12	190	887	442	240	180	1610	760	190	353	74	44	385
13	175	668	687	260	190	1720	886	230	688	73	36	237
14	164	480	942	280	200	1250	825	190	538	63	38	167
15	158	360	771	260	180	865	1390	170	338	104	45	136
16	155	441	716	240	160	620	2330	200	233	307	47	111
17	144	557	935	240	160	520	2410	260	240	226	40	98
18	136	490	1090	260	170	400	1600	190	270	131	38	85
19	136	410	771	270	170	350	1770	180	303	92	37	75
20	208	300	615	270	160	360	1510	170	221	75	37	69
21	288	280	460	250	160	370	1610	190	159	63	37	63
22	332	240	680	240	220	350	1730	160	125	58	36	58
23	381	250	856	250	760	380	1550	150	135	50	37	56
24	283	278	620	240	2800	450	1160	140	122	42	40	62
25	229	295	480	230	4150	440	849	130	95	37	113	74
26	227	321	360	210	2800	420	695	123	83	50	82	65
27	256	318	320	190	1800	500	541	157	75	75	61	1090
28	240	409	580	190	1070	1780	447	223	72	58	55	2550
29	273	1960	10100	180	---	2920	410	177	141	46	53	946
30	254	1550	8760	170	---	2370	340	139	349	36	84	504
31	213	---	2420	160	---	1610	---	126	---	46	147	---
TOTAL	7367	15730	38914	15460	17120	26045	37608	7935	6185	2887	1548	13014
MEAN	238	524	1255	499	611	840	1254	256	206	93.1	49.9	434
MAX	466	1960	10100	3160	4150	2920	2790	1000	688	307	147	2550
MIN	136	183	320	160	150	350	340	123	72	36	27	56

CAL YR 1984	TOTAL	217753	MEAN	595	MAX	10100	MIN	54
WTR YR 1985	TOTAL	189813	MEAN	520	MAX	10100	MIN	27

04243500 ONEIDA CREEK AT ONEIDA, NY

LOCATION.--Lat 43°05'51", long 75°38'22", Oneida County, Hydrologic Unit 04140202, on right bank 70 ft upstream from bridge on Sconondoa Street at Oneida, and 500 ft downstream from Sconondoa Creek.

DRAINAGE AREA.--113 mi².

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

REVISED RECORDS.--WSP 2112: Drainage area. WDR NY-78-1: 1951, 1956, 1958, 1961, 1963, 1964, 1972, 1976 (P). WDR NY-83-3: 1950 (M), 1977 (M), 1979 (M).

GAGE.--Water-stage recorder. Datum of gage is 409.33 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 5-8, 26-28, Jan. 4 to Feb. 24, Feb. 28 to Mar. 1, and Mar. 3-7, 15-22. Records good except those for estimated daily discharges, which are poor. Occasional regulation by small mills upstream from station. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--36 years, 165 ft³/s, 19.83 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft³/s Oct. 9, 1976, gage height, 15.01 ft; minimum, 12 ft³/s Aug. 5, 6, 1962, Oct. 28, 1964; minimum gage height, 1.30 ft Aug. 3, 6, 1955, Aug. 17, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Dec. 30	0200	1,910	8.10	Mar. 12	1515	*2,100	*8.57
Feb. 24	0115	1,920	a8.30				

a Ice jam.

Minimum discharge, 15 ft³/s Sept. 4, gage height, 1.48 ft.

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

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	55	609	982	96	260	336	74	52	35	64	27
2	55	61	377	658	86	271	251	72	48	33	33	24
3	58	56	320	383	72	210	224	71	45	41	28	23
4	101	57	325	270	62	140	280	67	43	42	26	20
5	61	301	210	210	62	270	246	68	45	32	24	161
6	52	137	180	180	78	270	207	99	47	30	22	98
7	49	100	160	170	74	230	176	151	43	32	22	64
8	47	83	170	160	70	258	158	97	42	32	22	41
9	45	77	163	150	74	422	142	83	40	31	22	51
10	43	196	181	140	84	492	131	75	41	66	21	66
11	40	144	283	140	88	531	129	69	38	37	20	45
12	44	121	349	140	98	1490	124	66	71	31	19	33
13	44	143	677	160	120	911	114	71	74	32	18	29
14	43	120	398	150	120	583	111	63	60	38	21	27
15	43	117	303	130	110	430	107	59	49	47	23	24
16	42	191	266	110	100	310	103	60	56	63	61	24
17	42	135	228	110	96	300	92	67	65	34	28	23
18	42	112	195	110	88	250	94	57	54	29	22	22
19	44	103	182	100	78	200	103	61	48	28	21	21
20	70	87	219	100	68	220	134	57	44	28	21	21
21	51	86	173	98	66	190	109	56	47	27	20	21
22	47	82	653	100	96	160	98	53	40	24	20	21
23	47	80	366	110	800	170	91	50	44	21	19	22
24	47	81	264	110	1500	164	84	48	45	22	21	23
25	46	79	237	100	1190	148	95	47	41	23	33	25
26	88	75	170	94	565	133	104	46	34	28	29	23
27	76	71	160	88	421	133	89	56	38	53	25	675
28	64	77	250	84	290	182	84	64	38	27	23	422
29	126	847	922	84	---	212	84	56	59	23	23	133
30	82	512	1080	82	---	173	77	48	48	23	29	85
31	64	---	455	72	---	159	---	46	---	40	35	---
TOTAL	1749	4386	10525	5575	6652	9872	4177	2057	1439	1052	815	2294
MEAN	56.4	146	340	180	238	318	139	66.4	48.0	33.9	26.3	76.5
MAX	126	847	1080	982	1500	1490	336	151	74	66	64	675
MIN	40	55	160	72	62	133	77	46	34	21	18	20
CFSM	.50	1.29	3.01	1.59	2.11	2.81	1.23	.59	.42	.30	.23	.68
IN.	0.58	1.44	3.46	1.84	2.19	3.25	1.38	0.68	0.47	0.35	0.27	0.76

CAL YR 1984 TOTAL 69979 MEAN 191 MAX 2450 MIN 36 CFSM 1.69 IN. 23.04
WTR YR 1985 TOTAL 50593 MEAN 139 MAX 1500 MIN 18 CFSM 1.23 IN. 16.66

04245000 LIMESTONE CREEK AT FAYETTEVILLE, N.Y.

LOCATION.--Lat 43°01'48", long 76°00'49", Onondaga County, Hydrologic Unit 04140202, on left bank 100 ft downstream from bridge on Genesee Street at Fayetteville, and 8 mi upstream from mouth.

DRAINAGE AREA.--85.5 mi², not including 14.0 mi² of Middle Branch Tioughnioga Creek basin, flow from which may be completely diverted into Limestone Creek basin through DeRuyter Reservoir, and 0.8 mi² in closed basin.

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

REVISED RECORDS.--WSP 954: 1941. WSP 1912: 1958 (M).

GAGE.--Water-stage recorder. Datum of gage is 427.73 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 6-8, 25-27, Jan. 3 to Feb. 10, Feb. 14-16, 19-20, 23-24, and Feb. 27 to Mar. 8. Records good except for estimated daily discharges, which are fair. Flow slightly regulated by DeRuyter Reservoir. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--45 years (water years 1941-85), 141 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,490 ft³/s Oct. 28, 1981, gage height, 10.14 ft, from rating curve extended above 4,200 ft³/s; m³/s); minimum, 1.4 ft³/s Aug. 19. 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Feb. 25	0215	*1,610	*4.84	No other peak greater than base discharge.			

Minimum discharge, 17 ft³/s part of each day Aug. 12-15, 20-23, Sept. 23, gage height, 1.41 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	64	586	515	80	230	288	72	54	35	41	21
2	54	68	349	457	72	220	219	69	48	34	29	20
3	55	69	293	250	66	190	198	68	44	34	25	20
4	54	65	308	190	62	180	232	64	44	35	23	21
5	48	133	205	190	70	230	230	65	42	30	21	34
6	44	115	180	170	76	200	188	122	42	28	21	47
7	43	87	170	170	72	140	166	206	40	28	20	31
8	41	74	170	140	66	240	149	111	38	28	20	29
9	43	73	166	110	70	333	140	88	38	27	20	43
10	43	109	183	110	70	301	128	78	38	37	19	32
11	41	114	246	100	74	299	129	71	36	36	20	42
12	43	104	252	100	78	656	121	70	60	29	19	29
13	42	98	401	110	87	720	111	78	72	28	19	25
14	41	91	281	110	80	438	109	68	69	27	19	23
15	41	89	234	100	70	335	106	63	49	29	21	21
16	41	96	220	90	70	264	101	66	47	38	33	21
17	41	91	199	110	76	266	98	77	58	31	24	20
18	41	85	178	110	75	220	95	65	50	26	20	20
19	47	85	173	100	70	191	108	66	43	24	19	20
20	59	79	210	90	64	211	137	61	43	24	18	19
21	55	78	163	82	70	182	108	63	40	26	18	19
22	56	76	347	90	90	159	95	58	37	24	19	19
23	55	76	251	100	390	167	88	54	41	21	19	19
24	51	81	186	90	1100	161	83	51	38	20	19	20
25	48	81	160	90	1150	147	91	48	34	19	22	20
26	73	77	120	82	459	133	105	47	33	24	21	21
27	82	73	110	84	340	136	92	53	32	38	20	179
28	67	81	184	88	230	191	85	64	32	26	19	276
29	111	454	424	80	---	229	84	64	45	24	19	83
30	86	322	630	76	---	179	76	51	43	21	20	56
31	70	---	307	70	---	169	---	50	---	28	21	---
TOTAL	1662	3188	7886	4254	5277	7717	3960	2231	1330	879	668	1250
MEAN	53.6	106	254	137	188	249	132	72.0	44.3	28.4	21.5	41.7
MAX	111	454	630	515	1150	720	288	206	72	38	41	276
MIN	41	64	110	70	62	133	76	47	32	19	18	19
CFSM	.63	1.24	2.97	1.60	2.20	2.91	1.54	.84	.52	.33	.25	.49
IN.	0.72	1.39	3.43	1.85	2.30	3.36	1.72	0.97	0.58	0.38	0.29	0.54

CAL YR 1984 TOTAL 58180 MEAN 159 MAX 1850 MIN 27 CFSM 1.86 IN. 25.31
WTR YR 1985 TOTAL 40302 MEAN 110 MAX 1150 MIN 18 CFSM 1.29 IN. 17.53

04245200 BUTTERNUT CREEK NEAR JAMESVILLE, NY

LOCATION.--Lat 42°56'02", long 76°03'44", Onondaga County, Hydrologic Unit 04140202, on left bank 15 ft downstream from bridge on Walberger Road, 125 ft downstream from tributary from Stebbins Gulf, 2.2 mi upstream from Jamesville Reservoir, and 4 mi south of Jamesville.

DRAINAGE AREA.--32.2 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1955-58. July 1958 to current year.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 717.93 ft above National Geodetic Vertical Datum of 1929.

RECORDS.--Estimated daily discharges: Dec. 5-8, 25-27, Jan. 3 to Feb. 23, and Mar. 4-7, 18, 19, 22. Records fair except for estimated daily discharges with ice effect, which are poor. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--27 years, 49.8 ft^3/s, 21.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,820 ft^3/s July 3, 1974, gage height, 7.84 ft; maximum gage height 8.46 ft Oct. 28, 1981; minimum discharge, 2.0 ft^3/s Sept. 27, 1959.

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

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Feb. 24	2330	*664	*7.55	No other peak greater than base discharge.			

Minimum discharge, 3.5 ft^3/s Aug. 20, gage height, 5.03 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	187	230	22	104	113	26	17	11	15	5.6
2	17	21	115	168	20	103	87	25	15	11	8.6	5.3
3	16	18	121	110	19	84	84	23	14	14	7.1	5.0
4	14	18	106	92	18	62	90	22	14	13	6.3	5.8
5	13	54	78	84	19	94	96	23	14	11	5.9	41
6	12	39	72	74	20	68	81	52	14	10	5.6	23
7	12	28	60	72	19	70	68	59	13	12	5.5	10
8	11	23	64	64	20	103	64	34	12	12	6.2	9.3
9	11	23	64	58	21	117	61	28	12	15	5.7	12
10	12	36	73	56	22	107	55	25	12	42	4.9	23
11	11	36	89	58	24	111	54	23	11	16	5.1	15
12	11	32	95	58	25	299	50	23	29	12	5.0	9.1
13	11	30	153	60	27	245	48	26	37	11	4.5	7.8
14	11	27	113	52	27	173	46	22	23	9.1	4.6	7.1
15	11	27	101	46	25	134	43	20	16	16	4.9	6.4
16	11	28	93	40	23	113	43	23	15	26	7.6	6.3
17	11	26	87	42	24	108	39	24	23	12	5.3	6.6
18	11	24	78	42	23	86	39	20	17	9.4	4.5	5.4
19	13	24	81	41	22	80	45	22	13	8.6	4.3	5.4
20	21	22	85	38	20	86	49	19	13	7.8	4.2	5.5
21	15	22	68	35	22	75	40	21	15	7.3	4.4	5.4
22	17	22	139	34	34	64	36	19	12	6.9	4.8	5.7
23	16	21	96	34	150	67	33	17	15	6.2	4.8	5.7
24	13	22	80	33	447	65	31	16	12	6.1	4.9	5.9
25	12	22	66	32	443	58	42	15	11	5.7	7.3	6.3
26	33	20	56	30	179	54	41	15	10	14	4.9	6.4
27	24	19	56	29	143	55	34	17	10	13	5.1	95
28	19	31	88	28	112	80	32	23	11	7.9	4.1	61
29	42	148	207	26	---	89	31	19	17	6.6	4.9	22
30	25	93	253	24	---	70	28	15	13	5.9	6.1	14
31	20	---	128	22	---	76	---	16	---	14	6.4	---
TOTAL	490	974	3152	1812	1970	3100	1603	732	460	372.5	178.5	442.0
MEAN	15.8	32.5	102	58.5	70.4	100	53.4	23.6	15.3	12.0	5.76	14.7
MAX	42	148	253	230	447	299	113	59	37	42	15	95
MIN	11	18	56	22	18	54	28	15	10	5.7	4.1	5.0
CFSM	.49	1.01	3.17	1.82	2.19	3.11	1.66	.73	.48	.37	.18	.46
IN.	0.57	1.13	3.64	2.09	2.28	3.58	1.85	0.85	0.53	0.43	0.21	0.51

CAL YR 1984 TOTAL 20160.1 MEAN 55.1 MAX 777 MIN 8.0 CFSM 1.71 IN. 23.29
WTR YR 1985 TOTAL 15286.0 MEAN 41.9 MAX 447 MIN 4.1 CFSM 1.30 IN. 17.66

04245236 MEADOW BROOK AT HURLBURT ROAD, SYRACUSE, NY

LOCATION.--Lat 43°02'30", long 76°06'02", Onondaga County Hydrologic Unit 04140202, on right bank 170 ft downstream from culvert at intersection of Hurlburt Road and Meadowbrook Drive, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--2.90 mi².

PERIOD OF RECORD.--December 1970 to March 1973, April 1973 to September 1978 (annual maximum only), October 1978 to current year.

REVISED RECORDS.--WDR NY-75-1: 1974 (M): WDR NY-78-1: 1977 (M).

GAGE.--Water-stage recorder, crest-stage gage, and artificial control. Datum of gage is 511.50 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Jan. 4 to Feb. 12 and Sept. 8-30. Records poor. Flow includes storm sewer inflow, some originating outside the basin. Several measurements of water temperature were made during the year.

AVERAGE DISCHARGE.--8 years (water years 1972, 1979-85), 1.89 ft³/s, 8.85 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 595 ft³/s Oct. 21, 1976, gage height, 5.31 ft; maximum gage height, 6.51 ft July 3, 1974 (backwater from downstream channel conditions; Type IV flow); minimum discharge, 0.02 ft³/s Sept. 11, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage Height (ft)	Date	Time	Discharge (ft³/s)	Gage Height (ft)
Sept. 27	(a)1200	*184	*3.45	No other peak greater than base discharge.			

(a) About

Minimum discharge, 0.16 ft³/s Aug. 14, 15, gage height, 1.06 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	.53	6.3	11	.90	2.3	3.9	.89	1.2	.59	.83	.41
2	1.1	1.2	1.8	2.7	.78	2.3	2.1	.89	.74	.72	.46	.60
3	1.1	.90	2.8	2.1	.68	2.1	2.0	.89	.69	1.2	.45	.54
4	1.0	1.6	1.9	1.8	.60	1.9	2.1	.89	.69	.89	.45	.89
5	.59	3.3	1.5	1.7	.60	4.5	2.2	1.3	.69	.64	.45	3.0
6	.52	.77	1.6	1.5	.68	2.5	2.1	5.3	.69	1.4	.41	.68
7	.52	.60	1.5	1.4	.68	2.1	1.8	1.9	.69	.98	.37	.37
8	.52	.60	1.4	1.2	.68	6.0	1.8	1.3	1.6	.58	.37	.30
9	.52	1.2	1.8	1.0	.78	3.8	1.5	1.3	1.1	.46	.37	3.3
10	.52	3.1	2.6	.90	.90	2.9	1.5	1.3	.93	.64	.37	1.2
11	.52	1.3	2.8	.90	1.0	3.1	1.7	1.1	.78	.62	.37	3.1
12	.45	.83	2.4	1.0	1.2	7.6	1.4	3.1	8.0	.60	.37	.88
13	.45	.78	2.9	1.1	1.6	5.6	1.4	1.6	2.4	.53	.77	.68
14	.45	.78	1.7	1.3	1.7	3.0	1.4	1.1	.94	.76	.25	.52
15	.45	.78	1.7	1.3	1.4	2.8	1.3	1.0	.79	2.6	1.8	.45
16	.47	1.2	1.5	1.2	1.2	2.3	1.3	1.7	2.5	1.4	.68	.45
17	.52	.89	1.4	1.2	1.2	2.3	1.3	1.3	1.3	.85	.29	.37
18	.75	.89	1.2	1.2	1.2	2.3	1.3	1.0	.79	.74	.25	.37
19	2.5	.89	1.7	1.0	1.2	2.2	2.5	1.5	.73	.69	.29	.37
20	1.5	.89	2.0	.90	1.3	2.1	1.7	1.0	3.3	.69	.30	.30
21	.60	.89	1.9	.78	1.3	2.1	1.1	1.6	1.3	.69	.30	.30
22	.76	.89	8.2	.78	4.9	2.0	1.1	.92	1.8	.65	.33	.30
23	.66	.89	1.9	.90	12	1.8	1.1	.89	2.4	.52	.34	.30
24	.53	.90	1.7	1.0	7.1	1.8	1.1	.87	.65	.52	.37	.37
25	.45	.92	1.8	1.1	3.9	1.8	1.0	.69	.56	.52	2.7	.37
26	3.0	.89	1.4	1.0	2.7	1.8	1.0	.74	.52	2.7	.53	.45
27	.73	.89	1.4	1.0	2.6	2.0	1.0	1.4	.52	.86	.38	36
28	2.2	4.2	3.1	1.0	2.3	4.0	1.0	1.5	.52	.52	.40	2.0
29	2.8	9.8	12	1.0	---	1.9	1.0	.84	2.5	.52	.47	.60
30	.65	2.5	4.2	.90	---	1.7	.94	.78	2.0	.47	.50	.45
31	.55	---	2.1	.78	---	2.9	---	1.9	---	3.0	.38	---
TOTAL	28.21	45.80	82.2	46.64	57.08	87.5	46.64	42.49	43.32	28.55	16.60	59.92
MEAN	.91	1.53	2.65	1.50	2.04	2.82	1.55	1.37	1.44	.92	.54	2.00
MAX	3.0	9.8	12	11	12	7.6	3.9	5.3	8.0	3.0	2.7	36
MIN	.45	.53	1.2	.78	.60	1.7	.94	.69	.52	.46	.25	.30
CFSM	.31	.53	.91	.52	.70	.97	.53	.47	.50	.32	.19	.69
IN.	0.36	0.59	1.05	0.60	0.73	1.12	0.60	0.55	0.56	0.37	0.21	0.77

CAL YR 1984	TOTAL	790.82	MEAN	2.16	MAX	29	MIN	.45	CFSM	.74	IN.	10.14
WTR YR 1985	TOTAL	584.95	MEAN	1.60	MAX	36	MIN	.25	CFSM	.55	IN.	7.50

04246000 ONEIDA LAKE AT BREWERTON, NY

LOCATION.--Lat 43°14'25", long 76°08'30", Onondaga County, Hydrologic Unit 04140202, at west end of Oneida Lake, 100 ft west of bridge on U.S. Highway 11, at Brewerton.

DRAINAGE AREA.--1,382 mi², 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."

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (1.01 ft Barge Canal datum). November 1951 to September 1975, at datum 360.99 ft higher.

REMARKS.--Estimated daily elevations: Dec. 5-12 and Jan. 7-16. Elevation of lake surface regulated by taintor-gate dam on Oneida River at Caughdenoy and gates on Oneida Canal and Erie (Barge) Canal. Lake volume at elevation 369 ft NGVD, 49,600 mil ft³. Area of water surface, 79.8 mi²; axes, 20.9 mi by 5.5 mi; shoreline length, 54.7 mi.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 372.83 ft June 26, 1972; minimum daily, 366.12 ft Feb. 11, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1936, reached a water surface elevation of 373.5 ft, from Corps of Engineers report "Flood Plain Information, Oneida Creek, New York."

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 370.91 ft Jan. 3; minimum, 367.19 ft Feb. 19.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	369.51	369.21	369.10	370.65	368.05	369.04	369.12	369.71	369.57	369.57	369.31	369.29
2	369.52	368.82	369.36	370.73	367.99	369.06	369.09	369.71	369.74	369.56	369.32	369.27
3	369.49	369.09	369.57	370.86	367.95	369.08	369.14	369.62	369.73	369.55	369.33	369.31
4	369.52	369.12	369.31	370.81	367.90	369.17	369.16	369.55	369.78	369.58	369.33	369.27
5	369.58	369.08	369.42	370.60	367.85	369.09	369.24	369.60	369.86	369.61	369.35	369.39
6	369.65	369.08	369.37	370.54	367.80	369.05	369.07	369.59	369.76	369.60	369.34	369.44
7	369.71	369.19	369.21	370.47	367.76	369.03	369.19	369.50	369.82	369.55	369.32	369.53
8	369.69	369.29	369.19	370.26	367.71	368.98	369.21	369.59	369.84	369.60	369.28	369.56
9	369.69	369.33	369.19	370.12	367.68	368.96	369.17	369.66	369.87	369.63	369.31	369.64
10	369.67	369.36	369.15	369.98	367.64	368.99	369.15	369.59	369.73	369.63	369.31	369.68
11	369.67	369.43	369.02	369.83	367.61	369.05	369.08	369.60	369.80	369.59	369.24	369.74
12	369.67	369.39	369.05	369.69	367.58	369.20	369.04	369.61	369.82	369.67	369.25	369.74
13	369.68	369.44	368.96	369.59	367.52	369.46	369.04	369.59	369.75	369.65	369.29	369.69
14	369.65	369.37	369.21	369.49	367.48	369.66	369.00	369.60	369.79	369.65	369.26	369.66
15	369.64	369.42	369.05	369.36	367.46	369.73	368.89	369.70	369.85	369.70	369.26	369.62
16	369.65	369.11	369.08	369.25	367.43	369.79	368.85	369.62	369.85	369.71	369.26	369.62
17	369.65	369.00	368.98	369.18	367.40	369.73	368.98	369.57	369.77	369.69	369.27	369.64
18	369.60	369.07	368.95	369.08	367.37	369.67	369.24	369.47	369.73	369.63	369.33	369.63
19	369.59	369.02	369.00	368.97	367.33	369.62	369.24	369.48	369.64	369.55	369.27	369.62
20	369.53	368.91	368.86	368.87	367.31	369.48	369.37	369.43	369.64	369.45	369.20	369.63
21	369.61	368.85	369.17	368.78	367.29	369.42	369.49	369.44	369.64	369.40	369.20	369.60
22	369.49	368.80	368.89	368.71	367.29	369.37	369.59	369.43	369.65	369.23	369.20	369.69
23	369.48	368.67	368.96	368.65	367.34	369.27	369.71	369.45	369.58	369.25	369.20	369.71
24	369.50	368.59	368.99	368.57	367.60	369.19	369.82	369.45	369.41	369.31	369.27	369.66
25	369.47	368.55	368.87	368.50	368.07	369.06	369.78	369.46	369.44	369.29	369.34	369.61
26	369.47	368.53	368.88	368.42	368.55	369.02	369.78	369.49	369.44	369.26	369.30	369.71
27	369.36	368.56	368.93	368.36	368.83	368.98	369.74	369.51	369.47	369.29	369.21	369.64
28	369.21	368.57	368.86	368.29	368.99	368.92	369.76	369.54	369.45	369.33	369.23	369.92
29	369.12	368.56	368.93	368.23	---	368.97	369.74	369.57	369.50	369.32	369.27	370.15
30	369.14	368.95	369.77	368.17	---	369.02	369.75	369.62	369.54	369.27	369.30	370.17
31	369.07	---	370.37	368.12	---	369.37	---	369.63	---	369.35	369.25	---
MEAN	369.53	369.01	369.15	369.39	367.74	369.24	369.31	369.56	369.68	369.50	369.28	369.63
MAX	369.71	369.44	370.37	370.86	368.99	369.79	369.82	369.71	369.87	369.71	369.35	370.17
MIN	369.07	368.53	368.86	368.12	367.29	368.92	368.85	369.43	369.41	369.23	369.20	369.27

CAL YR 1984 MEAN 368.46 MAX 370.37 MIN 366.12
WTR YR 1985 MEAN 369.26 MAX 370.86 MIN 367.29

04246500 ONEIDA RIVER AT CAUGHDENOY, NY

LOCATION.--Lat 43°14'49", long 76°10'12", Oswego County, Hydrologic Unit 04140202, on left bank at point of diversion to New York State Erie (Barge) Canal, 1.6 mi downstream from Oneida Lake, and 2.6 mi upstream from navigation dam at Caughdenoy.

DRAINAGE AREA.--1,382 mi²; 1902-9, 1,439 mi².

PERIOD OF RECORD.--September 1902 to December 1909 (published as "near Euclid"), January 1910 to December 1912, and October 1947 to current year in reports of Geological Survey. September 1902 to December 1909 and January 1910 to September 1925 in reports of State Engineer and Surveyor.

REVISED RECORDS.--WSP 2112: Drainage area.

GAGE.--Base gage: Water-stage recorder. Datum of gage is 360.98 ft National Geodetic Vertical Datum of 1929 (362.00 ft Barge Canal datum). Prior to June 5, 1907, headwater readings, and June 5, 1907 to Dec. 31, 1909, nonrecording gage readings at former Oak Orchard State Dam 5.5 mi downstream at different datum. Jan. 1, 1910 to Dec. 31, 1912, nonrecording gage at site 2.5 mi downstream from present site at different datum. From Oct. 9, 1947 to Nov. 7, 1951, waterstage recorder at site 2.5 mi downstream at present datum.
Auxiliary gage: Water-stage recorder at site 2.5 mi downstream, 350 ft upstream from navigation dam at present datum (base gage site 1947-51).
Supplementary gage: Water-stage recorder at site 2.6 mi downstream, 180 ft downstream from navigation dam at present datum.

REMARKS.--Estimated daily discharges: Sept. 27-29. Records fair. Jan. 1, 1910 to Dec. 31, 1912: Flow over dam computed on basis of coefficient determined for model of dam of same general type; flow through gate and diversion through lock culverts estimated by theoretical calculations.
1947 to current year: Record represents total discharge at Caughdenoy, including flow in Oneida and Erie (Barge) Canals. Considerable seasonal regulation by operation of gates in Oneida and Erie (Barge) Canals with a large amount of natural storage in Oneida Lake. Occasional large diurnal fluctuations caused by seiche in Oneida Lake. Water may be diverted into or received from Mohawk River basin through summit level of Erie (Barge) Canal between New London and Utica. Nearly all of flow from 14 mi² of Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin. Several measurements of water temperature were made during the year.

COOPERATION.--Records of gate openings, lockages, and elevations of water surface in Erie (Barge) Canal above and below lock 23, furnished by New York State Department of Transportation.

AVERAGE DISCHARGE.--48 years (water years 1903-12, 1948-85), 2,548 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 13,800 ft³/s Mar. 25-27, 1903; minimum daily, 52 ft³/s Oct. 24, 1910.
1947 to current year: Maximum daily discharge, 10,100 ft³/s June 25, 1972; minimum daily, 62 ft³/s July 29, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 7,720 ft³/s Jan. 3; minimum daily, 164 ft³/s Sept. 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	222	1590	2200	7310	2960	4380	4510	1770	348	229	282	203
2	190	1640	2290	7450	2880	4390	4450	1920	340	238	293	207
3	212	1710	3840	7720	2820	4450	4560	1900	321	203	316	192
4	190	1710	4820	7640	2730	4620	4570	1900	335	199	312	184
5	213	1740	5020	7250	2670	4450	4720	1880	310	218	292	200
6	218	1740	4930	7120	2610	4400	4410	1900	265	235	286	224
7	176	1610	4660	6980	2540	4370	4610	1910	277	227	253	262
8	183	1560	4630	6560	2460	4290	4650	1910	285	221	258	235
9	626	1700	4630	6300	2420	4250	4580	1920	300	221	271	206
10	1040	1800	4550	6020	2380	4300	4560	1890	852	219	282	404
11	1100	1820	4350	5740	2340	4400	4440	1920	1610	247	271	540
12	1080	1810	4400	5480	2320	4620	4380	1920	1820	238	242	922
13	1260	2720	4240	5280	2230	5050	4390	1920	1790	244	238	1430
14	1260	3950	4680	5100	2180	5420	4340	1920	2120	247	244	1380
15	1200	3980	4410	4870	2150	5530	3020	1930	2360	263	244	1380
16	1130	3770	4460	4680	2120	5670	1920	1920	2270	1350	254	850
17	1230	3700	4280	4540	2080	5540	940	1920	2330	2290	266	191
18	1700	3750	4240	4410	2050	5440	256	1930	2180	2480	266	185
19	2030	3720	4330	4260	2000	5350	276	1960	2330	2450	234	200
20	1910	3610	4100	4090	1980	5090	267	1960	2040	2480	221	211
21	1920	3560	4640	3930	1960	4990	281	1220	1830	2410	211	226
22	1870	3520	4150	3830	1960	4930	303	674	1780	1480	195	218
23	1850	3450	4260	3730	2020	4760	622	697	1750	302	204	183
24	1800	3400	4310	3650	2320	4620	867	521	1630	302	215	167
25	1810	3370	4100	3550	2940	4410	1320	365	1330	305	254	164
26	2800	2460	4140	3440	3610	4360	1600	363	745	301	207	166
27	3720	1980	4310	3370	4020	4290	1600	349	202	339	194	454
28	3660	1960	4120	3270	4290	4190	1590	336	202	343	183	715
29	3600	2010	4330	3190	---	4270	1590	335	236	316	176	715
30	2450	2070	5640	3110	---	4350	1580	324	243	301	189	2410
31	1520	---	6760	3060	---	4960	---	322	---	293	206	---
TOTAL	44170	77410	135820	156930	71040	146140	81202	43706	34431	21191	7559	15024
MEAN	1425	2580	4381	5062	2537	4714	2707	1410	1148	684	244	501
MAX	3720	3980	6760	7720	4290	5670	4720	1960	2360	2480	316	2410
MIN	176	1560	2200	3060	1960	4190	256	322	202	199	176	164

CAL YR 1984 TOTAL 1001107 MEAN 2735 MAX 6760 MIN 176
WTR YR 1985 TOTAL 834623 MEAN 2287 MAX 7720 MIN 164

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY
(National stream-quality accounting network station)

LOCATION.--Lat 43°27'06", long 76°30'20", Oswego County, Hydrologic Unit 04140203, on right bank at New York State Barge Canal (Oswego Canal) Lock 7 in Oswego, 0.8 mi upstream from mouth. Water-quality sampling site at discharge station.

DRAINAGE AREA.--5,100 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1900 to April 1906, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1307. Prior to January 1904, published as "above Minetto" or "near Minetto." January 1904 to April 1906, published as "at Battle Island." Records for April 1897 to September 1900, published in WSP 65 and for October 1927 to September 1928, published in WSP 644, have been found to be unreliable and should not be used.

REVISED RECORDS.--WDR NY 78-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 245.12 ft above National Geodetic Vertical Datum of 1929. Prior to 1933, nonrecording gage at site about 6 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Prior to 1933 and subsequent to 1972, flow in Oswego (Barge) Canal not included. A large amount of natural storage and some artificial regulation is afforded by the many large lakes and the Erie (Barge) and Oswego (Barge) Canal systems in the river basin. Large diurnal fluctuations at low and medium flow caused by powerplants upstream from station. Oswego River basin receives water from Erie (Barge) Canal through lock 32 near Pittsford. Water may be diverted into or received from Mohawk River basin through summit levels of Erie (Barge) Canal between New London and Utica. During part of year entire flow from 45.5 mi² of Mud Creek drainage area may be diverted from Chemung River basin into Keuka Lake in Oswego River basin. Nearly all of flow from 14 mi² of the Tioughnioga River basin may be diverted into De Ruyter Reservoir, in Oswego River basin. Gage height telemeter at station.

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 Oswego River High Dam upstream by Niagara Mohawk Power Corp.

AVERAGE DISCHARGE.--52 years (1933-1985), 6,680 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft³/s Mar. 28, 1936, includes daily mean discharge of canals; maximum gage height, 13.46 ft Apr. 10, 1940; minimum discharge (river only), 30 ft³/s Nov. 6, 1944; minimum daily, 261 ft³/s Sept. 18, 1985; minimum gage height, 0.97 ft Aug. 24, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 18,500 ft³/s Feb. 26; maximum gage height, 9.26 ft Feb. 25; minimum daily discharge, 261 ft³/s Sept. 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1770	4020	5390	17100	5290	15000	9360	3070	1750	1750	1030	935
2	2230	4080	6300	18400	5230	13900	9970	3070	1670	2160	1050	974
3	1600	4910	7280	18400	5060	12800	9640	2640	1600	2160	993	1160
4	1790	3410	9490	17600	5030	11000	9790	2320	2300	1330	1130	998
5	1530	3500	10000	16600	4980	9900	10000	2740	1670	1320	1290	1350
6	2000	5070	10200	15300	4760	9730	10100	2620	1230	1460	958	1290
7	1770	4440	9730	14000	4370	9270	9850	3420	1170	1420	849	1610
8	1350	4430	9250	12900	4090	8860	8620	3110	1290	1490	808	1220
9	1970	4240	9400	12300	4070	9360	7910	3220	1250	1440	849	1430
10	2070	4280	9200	12700	4220	10500	8050	3150	1400	1490	981	1190
11	2150	4500	8710	11500	4240	13000	7950	2540	1640	1580	947	1110
12	2180	4880	8940	10900	4240	14600	7260	3000	3510	1640	981	1800
13	1910	5710	10300	11000	4110	16100	6820	3150	2820	1440	839	2610
14	2590	8010	11400	10700	4500	16600	7050	3470	3200	1440	657	2420
15	1950	8630	11800	9620	4850	16400	6270	3940	4680	1600	936	1710
16	2120	8580	11200	8890	4380	16300	4680	4090	4320	3110	981	1340
17	2080	8190	10500	9380	4350	15700	2940	3090	4580	3470	993	879
18	2360	8140	9300	9340	4070	15000	1830	2620	4730	2980	958	261
19	2660	7800	8930	9510	4220	13800	1490	3200	4560	4550	925	1040
20	3960	7120	9440	9190	4150	13400	1980	3200	3870	4300	914	995
21	3100	7040	9760	8510	4020	13100	2180	2320	3510	3720	1020	996
22	2830	7090	11200	8470	4070	12400	2400	1980	3630	2420	598	1030
23	2620	7090	11400	8290	5830	11900	3440	1880	3700	1280	768	1220
24	2150	7030	11400	6990	8330	11600	2700	1770	3290	1290	936	828
25	3250	6950	11200	5540	16100	10400	3940	1330	2760	1550	1230	812
26	4300	5420	10800	7200	18500	10000	2980	1360	1850	1180	1470	907
27	7140	3730	10600	6530	17800	8340	2900	1520	1360	1270	479	988
28	6650	3650	10400	5250	16800	7600	3440	1550	1410	1360	881	2870
29	6570	4300	11500	4300	---	7210	3440	1450	1550	1460	400	2660
30	5690	5780	14100	5190	---	6510	3000	1410	1610	1300	903	2490
31	4490	---	15900	5660	---	6970	---	1490	---	1110	808	---
TOTAL	90830	172020	315020	327260	181660	367250	171980	79720	77910	60070	28562	41123
MEAN	2930	5734	10160	10560	6488	11850	5733	2572	2597	1938	921	1371
MAX	7140	8630	15900	18400	18500	16600	10100	4090	4730	4550	1470	2870
MIN	1350	3410	5390	4300	4020	6510	1490	1330	1170	1110	400	261

CAL YR 1984 TOTAL 2780526 MEAN 7597 MAX 20200 MIN 936
WTR YR 1985 TOTAL 1913405 MEAN 5242 MAX 18500 MIN 261

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957, 1964-66, 1971 to current year.
CHEMICAL DATA: 1957 (a), 1958-60 (a) unpublished, 1964 (b), 1965 (c), 1966 (a), 1971-72 (a), 1974 (a), 1975 (c), 1976-81 (d), 1982 (c), 1983-85 (b).
MINOR ELEMENTS DATA: 1971-1973 (a), 1975 (b), 1976 (a), 1977-85 (b).
ORGANIC DATA: OC--1975 (b), 1978-81 (d).
NUTRIENT DATA: 1971 (a), 1974 (a), 1975 (c), 1976-81 (d), 1982 (c), 1983-85 (b).
BIOLOGICAL DATA:
Bacteria--1974 (a), 1975 (c), 1976-81 (d), 1982 (c), 1983-85 (b).
Phytoplankton--1974 (a), 1975 (c), 1976 (d), 1977-81 (c).
Periphyton--1975-80 (a).
SEDIMENT DATA: 1974 (a), 1975 (c), 1976 (d), 1977 (b), 1978-79 (c), 1980-81 (d), 1982 (c), 1983-85 (b).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: September 1975 to September 1981.
WATER TEMPERATURES: July 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (water years 1975-78, 1981): Maximum recorded, 2,290 microsiemens Oct. 25,1980; minimum recorded, 430 microsiemens Apr. 19, 1976.
WATER TEMPERATURES (water years 1975-78, 1981): Minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 to SEPTEMBER 1985

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
NOV 07...	1300	4300	1300	8.0	10.0	11	745	10.5	96	K30
MAR 27...	0945	9080	586	8.1	3.5	.80	755	13.5	103	66
JUN 11...	1330	1480	1580	7.9	20.5	1.5	755	9.1	103	K960
AUG 19...	0930	674	1710	7.4	23.5	1.5	757	6.1	73	480

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
NOV 07...	66	360	229	120	14	100	3.4	130	76	290
MAR 27...	K37	210	96	63	12	38	1.7	112	53	88
JUN 11...	K200	460	329	150	20	150	4.3	130	100	400
AUG 19...	460	420	337	140	17	160	4.3	84	95	450

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

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 to SEPTEMBER 1985

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
NOV										
07...	<.10	.89	809	680	.57	.270	2.8	.080	.080	.070
MAR										
27...	.20	1.5	354	330	.82	.080	.60	.010	<.010	<.010
JUN										
11...	.20	.07	1050	900	.69	.100	2.1	.150	.060	<.010
AUG										
19...	.20	.45	1110	920	.15	.170	1.0	.070	.050	.030

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)
NOV										
07...	10	<1	53	<.5	<1	1	<3	6	6	2
MAR										
27...	20	<1	37	<.5	<1	1	<3	3	12	<1
JUN										
11...	60	<1	56	.8	<1	5	<3	3	5	1
AUG										
19...	<10	<1	68	<.5	<1	<1	<3	2	9	3

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
NOV										
07...	16	6	.7	<10	3	<1	<1	870	<6	5
MAR										
27...	19	9	<.1	<10	1	<1	<1	530	<6	6
JUN										
11...	25	1	.2	<10	7	<1	<1	1100	<6	8
AUG										
19...	38	74	.3	<10	4	<1	<1	1100	<6	32

04249000 OSWEGO RIVER AT LOCK 7, OSWEGO, NY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1984 to SEPTEMBER 1985

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK)	DEPTH AT SAMPLE LOCATION, TOTAL (FEET)	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (US/CM)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV								
07...	1305	30	11.0	3.0	1300	8.0	10.0	10.2
07...	1310	30	11.0	7.0	1300	8.0	10.0	10.1
07...	1315	100	12.0	3.0	1300	8.0	10.0	10.2
07...	1320	100	12.0	7.0	1300	8.0	10.0	10.2
07...	1325	200	11.0	3.0	1290	8.0	10.0	10.1
07...	1330	200	11.0	7.0	1290	8.0	10.0	10.2
07...	1335	300	4.0	3.0	1290	8.0	10.0	10.7
MAR								
27...	0950	30	13.0	3.0	586	8.1	3.5	13.2
27...	0955	30	13.0	7.0	586	8.1	3.5	13.2
27...	1000	100	14.0	3.0	586	8.1	3.5	13.3
27...	1005	100	14.0	7.0	586	8.1	3.5	13.3
27...	1010	200	13.0	3.0	587	8.0	3.5	13.8
27...	1015	200	13.0	7.0	586	8.1	3.5	13.5
27...	1020	300	6.0	3.0	586	7.7	4.0	13.2
27...	1025	300	6.0	5.0	586	7.3	4.0	14.0
JUN								
11...	1335	30	9.0	3.0	1590	7.9	20.5	9.0
11...	1340	30	9.0	7.0	1590	7.9	20.5	8.9
11...	1345	100	10.0	3.0	1580	7.9	20.5	9.0
11...	1350	100	10.0	7.0	1580	7.9	20.5	9.1
11...	1355	200	9.0	3.0	1580	7.9	20.5	9.3
11...	1400	200	9.0	7.0	1580	7.9	20.5	9.2
AUG								
19...	0935	30	7.5	2.0	1710	7.4	23.5	6.2
19...	0940	30	7.5	6.0	1700	7.3	23.0	6.1
19...	0945	100	7.5	2.0	1720	7.4	23.5	6.4
19...	0950	100	7.5	6.0	1710	7.4	23.0	6.3
19...	0955	200	8.0	2.0	1710	7.4	23.5	6.1
19...	1000	200	8.0	6.0	1710	7.4	23.0	6.0

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
07...	1300	4300	53	615	75
MAR					
27...	0945	9080	2	49	76
JUN					
11...	1330	1480	9	36	95
AUG					
19...	0930	674	4	7.3	82

LAKES AND RESERVOIRS IN STREAMS TRIBUTARY TO LAKE ONTARIO

04224000 MOUNT MORRIS LAKE NEAR MOUNT MORRIS, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

04227980 CONESUS LAKE NEAR LAKEVILLE, NY (see station for daily mean elevation).

04228845 HONEOYE LAKE NEAR HONEOYE, NY (see station for daily mean elevation).

04232400 SENECA LAKE AT WATKINS GLEN, NY (see station for daily mean elevation).

04232450 KEUKA INLET (KEUKA LAKE) AT HAMMONDSPORT, NY (see station for daily mean elevation).

04233500 CAYUGA INLET (CAYUGA LAKE) AT ITHACA, NY (see station for daily mean elevation).

04234500 CANANDAIGUA LAKE AT CANANDAIGUA, NY (see station for daily mean elevation).

04235396 OWASCO LAKE NEAR AUBURN, NY (see station for daily elevation).

04236000 SKANEATELES LAKE AT SKANEATELES, NY (see station for daily elevation).

04238500 ONONDAGA RESERVOIR NEAR NEDROW, NY (see station for daily mean elevation, skeleton capacity table, monthly contents, and change in contents).

04240495 ONONDAGA LAKE AT LIVERPOOL, NY (see station for daily mean elevation).

04246000 ONEIDA LAKE AT BREWERTON, NY (see station for daily mean elevation).

LAKE ONTARIO

04249010 LAKE ONTARIO AT OSWEGO, NY

LOCATION.--Lat 43°27'51", long 76°30'42" Oswego County, Hydrologic Unit 04150200, in southwest corner of Port of Oswego Authority building at mouth of Oswego River at Oswego.

DRAINAGE AREA.--295,800 mi².

PERIOD OF RECORD.--January 1860 to current year. Records prior to October 1960 in files of Lake Survey Center.

GAGE.--Water-stage recorder. Elevations are in feet International Great Lakes Datum (1955). Prior to Jan. 1, 1933, nonrecording gages.

COOPERATION.--Records furnished by U.S. Department of Commerce, NOAA-NOS, Lake Survey Center, Detroit, Mich.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 248.96 ft June 6, 1952; minimum observed, 240.94 ft Dec. 23, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 246.41 ft May 31; minimum, 242.88 ft Dec. 21.

ELEVATION (FEET IGLD), WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244.67	243.94	243.94	244.09	244.48	244.57	245.53	246.01	246.17	245.99	245.59	244.93
2	244.60	244.27	243.86	244.21	244.43	244.71	245.63	246.01	246.13	245.98	245.54	244.97
3	244.68	244.00	243.88	244.18	244.45	244.66	245.60	246.06	246.14	245.99	245.50	244.93
4	244.64	243.93	244.05	244.21	244.46	244.46	245.61	246.02	246.14	245.95	245.46	244.96
5	244.54	244.11	243.83	244.33	244.31	244.99	245.68	246.01	246.13	245.94	245.41	245.04
6	244.45	244.18	243.93	244.25	244.36	244.87	245.83	246.10	246.13	245.95	245.36	245.12
7	244.40	244.06	243.99	244.24	244.38	244.73	245.77	246.15	246.09	246.04	245.40	245.09
8	244.38	243.96	243.93	244.41	244.55	244.93	245.84	246.13	246.08	246.01	245.42	245.10
9	244.41	243.91	243.80	244.42	244.44	244.94	245.87	246.09	246.05	245.98	245.44	245.09
10	244.36	243.95	243.80	244.32	244.30	244.93	245.80	246.09	246.11	245.99	245.40	245.04
11	244.37	244.02	243.83	244.39	244.19	244.88	245.83	246.09	246.09	246.00	245.45	244.97
12	244.34	244.14	243.76	244.46	244.12	245.08	245.82	246.09	246.13	245.94	245.34	244.93
13	244.32	244.23	243.86	244.45	244.22	245.23	245.81	246.13	246.18	245.90	245.29	244.89
14	244.31	244.10	243.74	244.40	244.26	245.20	245.80	246.13	246.14	245.90	245.28	244.87
15	244.29	243.97	243.83	244.59	244.28	245.37	245.82	246.08	246.08	245.93	245.31	244.87
16	244.28	244.21	243.73	244.45	244.24	245.17	245.91	246.10	246.10	246.01	245.34	244.84
17	244.24	244.20	243.85	244.45	244.26	245.30	245.89	246.14	246.10	245.99	245.29	244.82
18	244.29	244.04	243.90	244.45	244.23	245.28	245.80	246.14	246.12	245.94	245.19	244.80
19	244.25	244.01	243.88	244.58	244.29	245.23	245.90	246.10	246.16	245.92	245.25	244.78
20	244.28	244.05	244.00	244.82	244.17	245.33	245.90	246.09	246.14	245.93	245.26	244.76
21	244.20	243.98	243.69	244.85	244.10	245.29	245.90	246.14	246.12	245.90	245.25	244.76
22	244.25	243.90	244.03	244.83	244.13	245.24	245.91	246.16	246.08	245.97	245.23	244.67
23	244.26	243.96	243.92	244.76	244.20	245.27	245.91	246.12	246.09	245.90	245.15	244.61
24	244.24	243.93	243.89	244.59	244.34	245.28	245.87	246.11	246.18	245.78	245.08	244.69
25	244.21	243.86	244.07	244.66	244.47	245.32	245.93	246.11	246.16	245.73	245.07	244.67
26	244.22	243.81	243.98	244.71	244.44	245.27	245.97	246.09	246.14	245.80	245.05	244.55
27	244.15	243.79	243.83	244.60	244.69	245.25	245.96	246.12	246.12	245.78	245.14	244.78
28	244.16	243.78	243.89	244.58	244.55	245.34	245.98	246.16	246.12	245.73	245.14	244.72
29	244.18	243.98	243.99	244.55	---	245.39	245.98	246.10	246.06	245.69	245.02	244.61
30	244.12	243.82	244.04	244.47	---	245.41	245.97	246.06	246.03	245.68	245.10	244.57
31	244.13	---	243.99	244.39	---	245.24	---	246.05	---	245.61	245.03	---
MEAN	244.33	244.00	243.89	244.47	244.33	245.10	245.83	246.10	246.12	245.90	245.28	244.85
MAX	244.68	244.27	244.07	244.85	244.69	245.41	245.98	246.16	246.18	246.04	245.59	245.12
MIN	244.12	243.78	243.69	244.09	244.10	244.46	245.53	246.01	246.03	245.61	245.02	244.55

CAL YR 1984 MEAN 245.23 MAX 246.69 MIN 243.69
WTR YR 1985 MEAN 245.02 MAX 246.18 MIN 243.69

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

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1985

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Susquehanna River basin					
01496370	Mink Creek at Richfield Springs, NY	Lat 42°50'55", long 75°00'10", Otsego County, Hydrologic Unit 02050101, at bridge on State Highway 28, 0.4 mi southwest of Richfield Springs and 1 mi up, stream from mouth.	10.4	1969-85	3-12-85	5.05	142
01497805	Little Elk Creek near Westford, NY	Lat 42°38'01", long 74°47'45", Otsego County, Hydrologic Unit 02050101, at culvert on Greenbush Road, 1.2 mi south of Westford, and 2.2 mi upstream from mouth.	3.73	1978-85	3-12-85	15.64	62
01501015	Mill Brook at New Berlin, NY	Lat 42°37'32", long 75°19'43", Chenango County, Hydrologic Unit 02050101, at bridge on Academy Street at New Berlin, and 80 ft upstream from mouth.	4.64	1975-80‡, 1981-85	9-27-85	2.28	291
01501140	Wharton Creek tributary near Edmeston, NY	Lat 42°42'35", long 75°13'19", Otsego County, Hydrologic Unit 02050101, at culvert on town road, 1.1 mi upstream from mouth, and 1.4 mi northeast of Edmeston.	2.02	1976-85	9-27-85	4.68	290
01502701	Susquehanna River at Afton, NY	Lat 42°13'38", long 75°31'27", Chenango County, Hydrologic Unit 02050101, on right bank at downstream side of bridge on State Highway 41, 0.1 mi southeast of Afton and intersection of State Highways 7 and 41, and 0.2 mi downstream from Kelsey Brook.	1,716	1972,77, 1979-85	9-27-85	10.66	17,000
01502714	Ouaquaga Creek near Belden, NY	Lat 42°10'12", long 75°40'45", Broome County, Hydrologic Unit 02050101, at culvert on Kane Road, 2.3 mi south of Belden, 2.8 mi (4.5 km) west of Harpursville, and 4.5 mi upstream from mouth.	3.37	1975-85	9-27-85	4.61	295

‡ Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Susquehanna River basin--Continued					
01503960	Electric Light Stream near Morrisville, NY	Lat 42°52'51", long 75°38'37", Madison County, Hydrologic Unit 02050102, at bridge on Eaton-Morrisville Road, in Eagleville, 0.4 mi upstream from mouth, and 1.3 mi south of Morrisville.	7.21	1976-85	3-12-85	9.39	184
01503980	Chenango River at Eaton, NY	Lat 42°51'02", long 75°36'21", Madison County, Hydrologic Unit 02050102, at bridge on Landon Road at Eaton, 0.1 mi upstream from Eaton Brook, and 0.1 mi downstream from State Highway 26.	24.3	1964-65, 1967-85	3-12-85	6.81	516
01505017	Cold Brook near North Norwich, NY	Lat 42°36'30", long 75°32'16", Chenango County, Hydrologic Unit 02050102, at culvert on town road, 0.4 mi west of railroad tracks, 0.8 mi southwest of North Norwich, and 1.8 mi upstream from mouth.	5.80	1980-85	3-12-85	19.56	96
01507000	Chenango River at Greene, NY	Lat 42°19'28", long 75°46'18", Chenango County, Hydrologic Unit 02050102, on left bank 1,700 ft downstream from bridge on State Highway 206 at Greene, and 0.6 mi downstream from Birdsall Creek.	593	1937-70‡, 1971-85	3-12-85	11.01	6,810
01508946	Otter Creek tributary at State Highway 222 near Cortland, NY	Lat 42°35'22", long 76°14'01", Cortland County, Hydrologic Unit 02050102, at culvert on State Highway 222, 1.0 mi upstream from mouth, and 1.8 mi west of Cortland.	2.85	1976-85	3-12-85	9.98	23
01510610	Merrill Creek tributary near Texas Valley, NY	Lat 42°28'03", long 75°59'19", Cortland County, Hydrologic Unit 02050102, at bridge on town road, 0.3 mi upstream from mouth, and 1.4 mi southwest of Texas Valley.	5.32	1976-81, 1983-85	3-12-85	1.15	295
01511500	Tioughnioga River at Itaska, NY	Lat 42°17'53", long 75°54'33", Broome County, Hydrologic Unit 02050102, on right bank at Itaska, 3.8 mi downstream from Otselic River and village of Whitney Point, and 6 mi upstream from mouth.	730	1930-67‡, 1968-85	3-15-85	6.76	7,520
01513500	Susquehanna River at Vestal, NY	Lat 42°05'27", long 76°03'23", Broome County, Hydrologic Unit 02050103, on left bank 400 ft downstream from highway bridge at Vestal,and 800 ft upstream from Choconut Creek.	3,941	1936, 1937-67‡, 1968-72, 1974-85	3-13-85	15.96	34,800
01513712	Nanticoke Creek tributary at Nanticoke, NY	Lat 42°16'40", long 76°02'51", Broome County, Hydrologic Unit 02050103, at culvert on Rabbit Road, 0.4 mi northeast of Nanticoke, and 0.6 mi upstream from mouth.	1.70	1975-85	3-12-85	1.90	105
01514000	Owego Creek near Owego, NY	Lat 42°07'45", long 76°16'15", Tioga County, Hydrologic Unit 02050103, on right bank of right channel 300 ft upstream from bridge on State Highway 96, 0.5 mi upstream from Catatonk Creek, and 1.5 mi north of Owego.	185	1930-78‡, 1979-85	3-12-85	5.53	3,200

‡ Operated as a continuous-record gaging station.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Susquehanna River basin--Continued					
01521596	Big Creek near Howard, NY	Lat 42°22'01", long 77°34'33", Steuben County, Hydrologic Unit 02050104, at culvert on town road, 0.1 mi south of State Highway 70, 1.3 mi north of Butch Corner, 3.4 mi west of Howard, and 6.2 mi upstream from mouth.	6.32	1977-85	2-23-85	<13.90	<50
01525500	Canisteo River at West Cameron, NY	Lat 42°13'20", long 77°25'05", Steuben County, Hydrologic Unit 02050104, on right bank 250 ft downstream from bridge on County Highway 119, 0.3 mi southeast of West Cameron, and 1.7 mi north of Cameron.	340	1930-31‡, 1937-70‡, 1971-72, 1974-85	2-23-85	11.30	5,960
01527000	Cohocton River at Cohocton, NY	Lat 42°30'00", long 77°30'02", Steuben County, Hydrologic Unit 02050105, on left bank 450 ft downstream from bridge on U.S. Highway 15 at Cohocton, 800 ft downstream from small tributary, and 1.4 mi upstream from Reynolds Creek.	52.2	1951-81‡, 1982-85	3- 9-85	4.35	283
01530301	Cuthrie Run near Big Flats, NY	Lat 42°10'43", long 75°55'32", Chemung County, Hydrologic Unit 02050105, at culvert on Breed Hollow Road, 0.9 mi north of intersection of Eacher Hollow Road and Breed Hollow Road, 2.3 mi north of State Highway 17, and 3.0 mi north of Big Flats.	5.39	1976, 1979-81, 1983-85	2- 3-85	13.83	128
		Allegheny River basin					
03010734	Ischua Creek tributary near Machias, NY	Lat 42°24'28", long 78°33'33", Cattaraugus County, Hydrologic Unit 05010001, at culvert on Very Road, 0.2 mi upstream from mouth, 0.7 mi north of State Highway 242, and 1.5 mi west of Machias.	5.12	1978-81, 1983-85	11-11-84 2-24-85	8.74 b9.39	148 -
03010743	Johnson Creek near Franklinville, NY	Lat 42°22'37", long 78°26'37", Cattaraugus County, Hydrologic Unit 05010001, at culvert on Pigeon Hill Road, 0.2 mi north of State Highway 98, 1.7 mi upstream from mouth, and 2.5 mi north of Franklinville.	5.25	1977-78, 1982-85	2-23-85	<12.83	<77
03010800	Olean Creek near Olean, NY	Lat 42°07'12", long 78°25'12", Cattaraugus County, Hydrologic Unit 05010001, on right bank at upstream side of highway bridge, 1,000 ft west of State Highway 16, 1.4 mi northeast of Olean, and 4.6 mi upstream from mouth.	198	1958-68‡, 1969-85	12-29-84	5.83	885
03011000	Great Valley Creek near Salamanca, NY	Lat 42°10'28", long 78°41'28", Cattaraugus County, Hydrologic Unit 05010001, at bridge on old State Highway 98, 275 ft upstream from bridge on U. S. Highway 219, 1.5 mi northeast of Salamanca, and 2.1 mi upstream from mouth.	137	1951-68‡, 1972, 1977-85	2-24-85	14.15	4,060
03013800	Ball Creek at Stow, NY	Lat 42°09'13", long 79°24'27", Chautauqua County, Hydrologic Unit 05010002, on left bank 75 ft upstream from bridge on State Highway 394 at Stow, and 0.4 mi upstream from mouth.	9.06	1955-64§, 1965, 1967-68#, 1974‡, 1975-85	6-17-84R 3-28-85	17.13R 16.60	856R 699

‡ Operated as a continuous-record gaging station.
§ Operated as a low-flow partial-record station.
# Miscellaneous measurements made.
b Ice jam.
R Revised.
< Less than.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Streams tributary to Lake Erie					
04213399	Walnut Creek tributary near Forestville. NY	Lat 42°28'12", long 79°08'07", Chautauqua County, Hydrologic Unit 04120101, at culvert on Quarry Road, 1.6 mi east of Forestville and 2.3 mi upstream from mouth.	1.02	1979, 1981-85	2-24-85	12.68	80
04213490	South Branch Cattaraugus Creek near Otto, NY	Lat 42°21'54", long 78°48'04", Cattaraugus County, Hydrologic Unit 04120102, at highway bridge, 0.2 mi upstream from Mansfield Creek, and 1.7 mi northeast of Otto, and 5.5 mi upstream from mouth.	25.1	1963-85	2-24-85	6.95	2,110
0421402003	Cattaraugus Creek at Sunset Bay below Irving, NY	Lat 42°33'52", long 79°07'47", Cattaraugus County, Hydrologic Unit 04120102, on left bank at east end of Erie Street in Sunset Bay, at mouth of unnamed tributary, and 0.9 mi west of Irving.	557	1985	2-25-85	12.11	-
0421402004	Cattaraugus Creek at Sunset Bay near Silver Creek, NY	Lat 42°34'05", long 79°08'09", Cattaraugus County, Hydrologic Unit 04120102, on left bank at Sunset Bay, at north end of Allegany Road, and 1.9 mi northeast of Silver Creek.	558	1985	2-25-85	11.91	-
04214040	Delaware Creek near Angola, NY	Lat 42°37'46", long 79°03'15", Erie County, Hydrologic Unit 04120103, at bridge on State Highway 5, 1.5 mi southwest of Angola, and 1.6 mi upstream from mouth.	8.32	1963-85	2-24-85	5.17	672
04214410	Hunter Creek at Colegrave, NY	Lat 42°44'11", long 78°32'55", Erie County, Hydrologic Unit 04120103, at bridge on Center Line Road, 0.3 mi east of Colegrave, and 3.6 mi upstream from mouth.	14.0	1964-85	2-24-85	5.81	1,050
		Streams tributary to Niagara River					
04216212	Delaware Park Lake at Buffalo, NY	Lat 42°56'03", long 78°52'28", Erie County, Hydrologic Unit 04120104, on north shore of Delaware Park Lake at downstream side of bridge on Scajquada Expressway (SH 198), and 1.7 mi upstream from mouth of Scajaquada Creek.	1.14	1985	3-12-85	6.23	-
04216214	Scajaquada Creek below Delaware Park Lake at Buffalo, NY	Lat 42°56'15", long 78°53'07", Erie County, Hydrologic Unit 04120104, on left bank, 400 ft east of Grant Street (North) exit from Scajaquada Expressway (SH 198), at Buffalo.	25.7	1985	3-12-85	6.26	-
04216400	Tonawanda Creek near Johnsonburg, NY	Lat 42°43'05" long 78°19'20", Wyoming County, Hydrologic Unit 04120104, on State Highway 98 near Johnsonburg, and 0.6 mi downstream from East Fork.	23.7	1962-85	12-29-84	8.49	1,100
04216875	Little Tonawanda Creek Tributary near Batavia, NY	Lat 43°56'33", long 78°09'46", Genesee County, Hydrologic Unit 04120104, at culvert on Francis Road, 1.6 mi upstream of mouth, and 2.9 mi south of the city limits of Batavia.	1.02	1976-85	12-29-84	13.21	112

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Streams tributary to Niagara River--Continued					
04217700	Murder Creek at Pembroke, NY	Lat 42°59'37", long 78°26'08", Genesee County, Hydrologic Unit 04120104, at bridge on Lake Road, 0.3 mi south of Pembroke, and 12.5 mi west of Batavia.	43.6	1962-72, 1974-85	2-24-85	9.55	1,870
04219645	Fourmile Creek near Youngstown, NY	Lat 43°13'49", long 79°01'01", Niagara County, Hydrologic Unit 04120104, at culvert on Balmer Road, 200 ft east of State Highway 18, 1.5 mi southeast of Youngstown, and 3.4 mi above the mouth.	4.88	1970-73, 1976-80, 1982-85	2-24-85	9.81	288
		Streams tributary to Lake Ontario					
04219738	Eighteenmile Creek tributary near Lockport, NY	Lat 43°12'20", long 78°46'47", Niagara County, Hydrologic Unit 04130001, at culvert on Budd Road, 3.3 mi northwest of Lockport and 4.1 mi upstream from mouth.	2.53	1979-85	2-24-85	14.32	319
04219900	Johnson Creek near Lyndonville, NY	Lat 43°20'21", long 78°20'55", Orleans County, Hydrologic Unit 04130001, at bridge on Woodworth Road, 3.3 mi downstream from dam at Lyndonville, and 4.4 mi upstream from mouth.	87.7	1962-70, 1972-73, 1976-85	2-25-85	7.09	1,910
04219922	Oak Orchard Creek at Barrville Road near Elba, NY	Lat 43°05'42", long 78°08'43", Genesee County, Hydrologic Unit 04130001, at culvert on Barrville Road, 2.3 mi northeast of Elba, and 6.0 mi north of Batavia.	6.48	1976-85	2-24-85	9.46	178
04220245	West Creek near Hamlin, NY	Lat 43°17'42", long 77°53'32", Monroe County, Hydrologig Unit 04130001, at culvert on Hamlin Center Road, 1.5 mi east of State Highway 19, and 1.6 mi southeast of Hamlin.	4.56	1978-81, 1983-85	2-24-85	5.86	505
04221769	Black Creek at Hyder Flats Road at Black Creek, NY	Lat 42°16'03", long 78°13'38", Allegany County, Hydrologic Unit 04130002, at culvert on Hyder Flats Road, 0.6 mi south of Black Creek, and 11.3 mi upstream from mouth.	10.7	1978-85	2-24-85	6.07	207
04222600	Wiscoy Creek at Bliss, NY	Lat 42°34'59", long 78°14'17", Wyoming County, Hydrologic Unit 04130002, at bridge on county road, 0.1 mi north of State Highway 39, and 0.6 mi east of Bliss.	22.0	1962-65, 1967-85	2-24-85	2.80	745
04224700	Sugar Creek near Ossian, NY	Lat 42°30'52", long 77°48'14", Livingston County, Hydrologic Unit 04130002, on right bank 300 ft downstream from bridge on Linzy Road, 1.3 mi southwest of Ossian, and 5.6 mi upstream from mouth.	10.0	1964-73, 1975, 1977-85	2-24-85	4.05	274
04224807	Stony Brook tributary at South Dansville, NY	Lat 42°28'16", long 77°40'21", Steuben County, Hydrologic Unit 04130002, at culvert on Willey Road, 0.6 mi from mouth, and 0.9 mi west of South Dansville.	3.15	1977-82, 1984-85	5- 6-85	9.56	122
04224900	Mill Creek at Patchinville, NY	Lat 42°31'13", long 77°35'06", Steuben County, Hydrologic Unit 04130002, at bridge on Ellinger Road, 0.1 mi east of State Highway 21, 0.8 mi south of Patchinville, 3.3 mi south of Wayland, and 9.3 mi upstream from mouth.	4.22	1964-85	2-24-85	<1.92	<141

< Less than.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Streams tributary to Lake Ontario--Continued					
04231040	Hotel Creek at Griffin Road near Churchville, NY	Lat 43°03'36", long 77°52'28", Monroe County, Hydrologic Unit 04130003, at bridge on Griffin Road, 3.0 mi upstream from mouth, and 3.1 mi southeast of Churchville.	4.57	1976-85	2-25-85	12.39	67
042320527	Mill Creek tributary near Webster,NY	Lat 43°14'45", long 77°26'43", Monroe County, Hydrologic Unit 04140101, at culvert on Woodboro Farms Road, 400 ft east of Holt Road, and 1.8 mi north of Webster.	1.95	1971-72, 1976-85	2-23-85	11.55	93
042320578	Bear Creek at Ontario, NY	Lat 43°13'30", long 77°17'00", Wayne County, Hydrologic Unit 04140101, at culvert on New Street in Ontario, 100 ft west of Furnaceville Road, and 4.0 mi upstream from mouth.	6.74	1971-73, 1975-85	12-29-84 2-23-85	b13.33 12.67	- 145
04232071	Second Creek tributary at Alton, NY	Lat 43°12'36", long 76°59'32", Wayne County, Hydrologic Unit 04140101, at culvert on Bond Road, 200 ft south of U.S. Highway 104, 0.3 mi from mouth, and 0.6 mi west of Alton.	1.07	1970, 1973, 1976-85	4-16-76 10-21-76 3-22-78 3- 5-79 12-25-79 2-20-81 3-14-82 5-29-84 3-12-85	13.44 13.30 11.83 12.48 12.79 13.09 12.24 12.52 11.50	48R 46R 21R 32 37 42R 29R 30R 16
04232087	Red Creek tributary No. 16 near Red Creek, NY	Lat 43°13'36", long 76°42'23", Cayuga County, Hydrologic Unit 04140101, at culvert on town road (Red Creek Road), 1.3 mi southeast of Red Creek.	2.90	1969, 1976-85	2-24-85	7.64	84
04232460	Sugar Creek at Guyanoga, NY	Lat 42°37'23", long 77°09'30", Yates County, Hydrologic Unit 04140201, at bridge on Sid White Road, 0.4 mi east of Guyanoga, and 2.3 mi upstream from mouth.	28.9	1966-85	6-17-85	3.92	300
04232630	Kendig Creek near MacDougall, NY	Lat 42°50'57", long 76°53'33", Seneca County, Hydrologic Unit 04140201, at downstream side of bridge on County Highway 120, 3.0 mi north of MacDougall, 3.5 mi (5.6 km) southwest of Waterloo, and 4.6 mi upstream from mouth.	13.8	1965-68‡, 1969-85	2-24-85	5.33	477
04233255	Cayuga Inlet at Ithaca, NY	Lat 42°25'38", long 76°31'19", Tompkins County, Hydrologic Unit 04140201, on upstream abutment face of flood-control weir, at east end of Burtt Place, south of Ithaca city line, 0.3 mi east of State Highway 13a, 0.9 mi downstream from Buttermilk Creek, and 2.4 mi upstream from mouth.	86.7	1971-72, 1975-85	2-23-85	<7.94	<1,910
04233310	Sixmile Creek near Ithaca, NY	Lat 42°24'33", long 76°27'14", Tompkins County, Hydrologic Unit 04140201, at bridge on Burns Road, 1.8 mi southeast of Ithaca, and 4.4 mi upstream from mouth.	42.0	1967-69, 1971-73, 1976-85	2-23-85	<3.61	<703
04233676	Virgil Creek at Mill Street, Dryden, NY	Lat 42°29'18", long 76°18'08", Tompkins County, Hydrologic Unit 04140201,at bridge on Mill Street at Dryden, and 0.1 mi upstream from Dryden Lake Outlet.	20.7	1966-70, 1972, 1975-85	2-23-85	2.79	434
04233700	Virgil Creek at Freeville, NY	Lat 42°30'18", long 76°21'01", Tompkins County, Hydrologic Unit 04140201, on left bank, 10 ft upstream from bridge on Johnson Street in Freeville, and 0.7 mi upstream from Fall Creek.	40.3	1974-75‡, 1976-85	2-23-85	14.70	666

‡ Operated as a continuous-record gaging station.
< Less than.
R Revised.
b Ice jam.

Annual maximum discharge at crest-stage partial-record stations during water year 1985--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft^3/s)
		Streams tributary to Lake Ontario--Continued					
042340202	Cayuga Lake tributary No. 8 near Jacksonville, NY	Lat 42°32'24", long 76°35'35", Tompkins County, Hydrologic Unit 04140201, at culvert on State Highway 89 (Taughannock Buolevard), 0.1 mi upstream from mouth, and 2.4 mi northeast of Jacksonville.	1.36	1977-85	2-23-85	5.27	34
042340588	Yawger Creek tributary near Auburn, NY	Lat 42°54'41", long 76°39'46", Cayuga County, Hydrologic Unit 04140201, at culvert on Chamberlain Road, 3.5 mi west of Auburn, and 4.3 mi upstream from mouth.	1.76	1976-85	2-24-85	10.49	33
04234138	Schaeffer Creek near Canandaigua NY	Lat 42°54'25", long 72°22'14", Ontario County, Hydrologic Unit 04140201, at culvert on McCann Road, 0.8 mi upstream from Mud Creek, 1.7 mi north of U.S. Highway 20, and 3.2 mi west of Canandaigua.	7.84	1980-85	2-24-85	11.23	197
04234200	Mud Creek at East Victor, NY	Lat 42°58'28", long 77°22'58, Ontario County, Hydrologic Unit 04140201, 25 ft downstream from bridge on State Highway 96 at East Victor, 0.3 mi upstream from Fish Creek, and 0.5 mi upstream from mouth.	64.2	1958-68‡, 1972, 1976-85	2-23-85	5.94	1,100
04234363	Marbletown Creek tributary near Newark, NY	Lat 43°02'47", long 77°02'57", Wayne County, Hydrologic Unit 04140201, at culvert at intersection of Brumm and Sutton Roads, and 1.2 mi east of Newark.	0.58	1976-85	12-29-84	4.18	15
04235255	Canandaigua Outlet tributary near Alloway, NY	Lat 43°00'21", long 77°00'54", Ontario County, Hydrologic Unit 04140201, at bridge on Pre-Emption Road, 0.5 mi south of Wayne-Ontario County line, 1.8 mi southwest of Alloway, and 2.9 mi upstream from mouth.	2.94	1978-85	2-24-85	6.32	115
04235276	Black Brook at Tyre, NY	Lat 42°59'30", long 76°48'13", Seneca County, Hydrologic Unit 04140201, at bridge on County Highway 101, in village of Tyre, and 0.8 mi upstream from mouth.	19.0	1966-73, 1975-85	2-24-85	3.49	368
04242795	Canada Creek tributary near Lee Center, NY	Lat 43°19'40", long 75°31'52", Oneida County, Hydrologic Unit 04140202, at culvert on Streum Road at Negro Road, 1.6 mi upstream from mouth, 1.7 mi northwest of Lee Center, and 7.6 mi northwest of Rome.	1.34	1977-85	9-28-85	2.94	-
04245840	Scriba Creek near Constantia, NY	Lat 43°15'35" long 76°00'11", Oswego County, Hydrologic Unit 04140202, on right bank, 8 ft upstream from road to Ingersol Road, and about 0.8 mi north of village of Constantia.	38.4	1966-68‡, 1969, 1971-85	12-29-84	6.44	959
04249050	Catfish Creek at New Haven, NY	Lat 43°29'00", long 76°19'34", Oswego County, Hydrologic Unit 04140102, at bridge on State Highway 104B, at New Haven, and 1.4 mi upstream from mouth.	31.7	1962-66, 1968-85	2-25-85	5.40	510

‡ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1985

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Susquehanna River basin				
#01496370 Mink Creek	Canadarago Lake	Lat 42°50'55", long 75°00'10", Otsego County, Hydrologic Unit 02050101, at bridge on State Highway 28, 0.4 mi southwest of Richfield Springs and 1 mi upstream from mouth.	10.4	1977-78 1980, 1983	12-13-84	58.3
#01502701 Susquehanna River	Atlantic Ocean	Lat 42°13'38", long 75°31'27", Chenango County, Hydrologic Unit 02050101, at bridge on State Highway 41 at Afton.	1,716	1972, 1977, 1979-80, 1982-83	3-13-85	17,000
01526550 Cohocton River	Chemung River	Lat 42°35'17", long 77°32'04", Livingston County, Hydrologic Unit 02050105, at bridge on Peckins Road, 600 ft west of Tabor Corners Road, 1.5 mi north of State Highway 21 and 245, and 3.0 mi northeast of Wayland.	10.2		9-18-85	1.49
01526553 Cohocton River	Chemung River	Lat 42°34'13", long 77°31'58", Steuben County, Hydrologic Unit 02050105, at site 0.3 mi upstream from bridge on State Highway 21 at Bowles Corners and 3.0 mi east of Wayland.			9-18-85	1.43
01526559 Schwab Hollow Creek	Cohocton River	Lat 42°34'42", long 77°33'13", Livingston County, Hydrologic Unit 02050105, at site 0.4 mi upstream from State Highway 21 and 2.0 mi northeast of Wayland.			9-18-85	0.15
01526563 Schwab Hollow Creek Tributary	Schwab Hollow Creek	Lat 42°34'31", long 77°33'45", Steuben County, Hydrologic Unit 02050105, at site 0.3 mi upstream from State Highway 21 and 1.5 mi northeast of Wayland.			9-18-85	trace
01526575 Pardee Hollow Creek	Cohocton River	Lat 42°33'50", long 77°30'36", Steuben County, Hydrologic Unit 02050105, 150 ft north of bridge on State Highway 21 and 245, 4.1 mi east of Wayland.	3.07		9-18-85	0.11
0152657503 Pardee Hollow Creek Tributary	Pardee Hollow Creek	Lat 42°33'55", long 77°30'57", Steuben County, Hydrologic Unit 02050105, at site 0.2 mi upstream from State Highway 21 and 3.8 mi east of Wayland.			9-18-85	dry
01526577 Cohocton River	Chemung River	Lat 42°33'17", long 77°30'16", Steuben County, Hydrologic Unit 02050105, at site 200 ft downstream from bridge on town road, and 4.5 mi southeast of Wayland.			9-18-85	2.42
01526580 Blackcrick Hollow Creek	Cohocton River	Lat 42°32'44", long 77°31'03", Steuben County, Hydrologic Unit 02050105, along Blackcrick Hollow Road, 0.3 mi south of Sawdust Road, and 3.5 mi north of Cohocton.	0.35		9-18-85	0.043

Also a crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1985--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Susquehanna River basin--continued				
01526980 Kirkwood Creek	Cohocton River	Lat 42°31'55", long 77°27'45", Steuben County, Hydrologic Unit 02050105, at bridge on dirt road, 250 ft south of town road, 1300 ft upstream from State Highway 371, and 2 mi southeast of Atlanta.	4.64	1966-68[a/]	9-18-85	0.17
01526986 Cohocton River	Chemung River	Lat 42°30'29", long 77°28'50", Steuben County, Hydrologic Unit 02050105, at site 0.2 mi downstream from dam, 0.6 mi upstream from State Highway 371, and 1.2 mi northeast of Cohocton.			9-18-85	3.80
01527000 Cohocton River	Chemung River	Lat 42°30'00", long 77°30'02", Steuben County, Hydrologic Unit 02050105, on left bank 450 ft downstream from bridge on U.S. Highway 15 at Cohocton, 800 ft downstream from small tributary, and 1.4 mi upstream from Reynolds Creek.	340	1951-81[a/]	9-17-85 9-18-85	5.01 4.60
01527450 Castle Creek	Cohocton River	Lat 42°25'15", long 77°28'10", Steuben County, Hydrologic Unit 02050105, along road, 0.4 mi south of junction between Neil and Stever Roads, 1.5 mi southwest of Wallace.	9.23		9-17-85 9-18-85	2.87 2.82
		Streams tributary to Lake Ontario				
ǂ04219922 Oak Orchard Creek	Lake Ontario	Lat 43°05'42", long 78°08'43", Genesee County, Hydrologic Unit 04130001, at culvert on Barrville Road, 2.3 mi northeast of Elba, and 6.0 mi north of Batavia.	6.48	1979	3-28-85	19.5
ǂ04231040 Hotel Creek	Black Creek	Lat 43°03'36", long 77°31'56", Monroe County, Hydrologic Unit 04130003, at bridge on Griffen Road, 3.0 mi upstream from mouth, and 3.1 mi southeast of Churchville.	4.57	1978	2-26-85	31.0
ǂ042320578 Bear Creek	Lake Ontario	Lat 43°13'30", long 77°17'00", Wayne County, Hydrologic Unit 04140101, at culvert on New Street in Ontario, 100 ft west of Furnaceville Road, and 4.0 mi upstream from mouth.	6.74	1979	2-26-85	53.4
ǂ04235276 Black Brook	Clyde River	Lat 42°59'30", long 76°48'13", Seneca County, Hydrologic Unit 04140201, at bridge on County Highway 101, in village of Tyre, and 0.8 mi upstream from mouth.	19.0	1964-66, 1970-72,	10-25-84 2-24-85	0.88 331
04240942 West Branch Fish Creek	Fish Creek	Lat 43°18'16", long 75°42'37", Oneida County, Hydrologic Unit 04140202, at bridge on Buell Road, 2.8 mi southeast of Camden, and 8.8 mi upstream from confluence with the East Branch.	133		12-29-84	4,410
04245045 Limestone Creek	Oneida Lake	Lat 43°02'57", long 76°00'29", Onondaga County, Hydrologic Unit 04140202, at farm road ford, 0.5 mi upstream from sewage treatment plant, and 1.3 mi north of Fayetteville.			10-10-84	40.5

ǂ Also a crest-stage partial-record station.
a/ Operated as a continuous-record gaging station.

Seepage investigation of the Tug Hill Aquifer

Two series of base flow discharge measurements were made during the 1985 water year on July 18 and September 23, in the West Branch Fish Creek, Salmon River and Sandy Creek drainage basins. The measurements were made to determine flow loss to, or ground-water discharge from, the underlying glacial aquifer. Tributary flow is treated as a contribution, not a gain. Indicated gains or losses may be substantially affected by small inaccuracies in open-channel discharge measurements.

Site number	Stream name	Measuring site	Drainage area (mi^2)	Measured discharge (ft^3/s)	Gain or loss (ft^3/s)	Measured discharge (ft^3/s)	Gain or loss (ft^3/s)
				July 18, 1985		Sept 23, 1985	
0424085350	Rowell Brook	On State Highway 183 near Williamstown, NY.	1.56	0.105		0.039	
0424085400	Rowell Brook	On Nichols Road at Williamstown, NY.	1.59	.139	+0.034	.055	+0.016
0424085500	Rowell Brook	On County Highway 17 at Williamstown, NY.	2.33	.578	+0.439	.432	+0.377
04240866	West Branch Fish Creek Tributary	On State Highway 13 near Williamstown, NY.	0.24	.428		.242	
04240867	West Branch Fish Creek Tributary	Southwest of Railroad underpass near Williamstown, NY.	0.34	.552	+0.124	.186	-0.056
04240898	West Branch Fish Creek Trib. No. 2	On Howard Road near Camden, NY.	2.60	.216		.077	
04240899	West Branch Fish Creek Trib. No. 2	On VanBuren Road near Camden, NY.	3.08	.196	-0.02	dry	-0.077
0424092910	Mad River	On Quarry Road near Camden, NY.	45.6	15.7		9.56	
0424092980	Mad River	On River Road near Camden, NY.	47.3	15.1	-0.6	9.83	+0.27
04240930	Mad River	On State Highway 69 at Camden, NY.	47.7	17.1	+2.0	10.5	+0.67
04240973	Fields Brook	On Elpis Road west of Thompson's Corners near Camden, NY.	1.11	1.02		0.254	
042409735	Fields Brook	On Howd Road near Thompson's Corners near Camden, NY.	1.53	1.32	+0.30	.459	+0.205
04240974	Fields Brook	On Preston Hill Road at Thompson's Corners near Camden, NY.	2.23	2.42	+1.10	.828	+0.369
04249804	Pine Meadows Creek	Along McChesney Road near Bennett Bridge, NY.	2.43	0.666		.188	
04249808	Pine Meadows Creek	On County Highway 30 near Bennett Bridge, NY.	2.52	.639	-0.027	.175	-0.013
04249822	Beaverdam Brook Tributary	On Wright Road near Bennett Bridge, NY.	1.29	.027		.004	
04249826	Beaverdam Brook Tributary	On County Highway 30 near Bennett Bridge, NY.	1.66	dry	-0.027	dry	-0.004
04249970	Pekin Brook	On County Highway 22 near Bennett Bridge, NY.	4.47	1.81		1.64	
04249980	Pekin Brook	North of Hogback Road near Bennett Bridge, NY.	5.42	3.40	+1.59	2.04	+0.40
0425051110	Little Deer Creek	Along Gravel Pit Circle near Richland, NY.	1.64	0.129		no flow	
0425051120	Little Deer Creek	On Richland Road near Richland, NY.	1.75	.030	-0.099	dry	
0425051130	Little Deer Creek	On Penn Central Railroad near Richland, NY.	2.33	.158	+0.128	0.050	+0.050
0425053120	Lindsey Creek	At Hagen (North Boylston) Road near Lacona, NY.	7.15	2.06		.456	
0425053125	Lindsey Creek	On County Highway 22 near Lacona, NY.	7.33	1.73	-0.33	.453	-0.003
0425053130	Lindsey Creek	At U.S. Highway 11 near Mannsville, NY.	8.57	1.23	-0.50		

Seepage investigation of the Tug Hill Aquifer--Continued

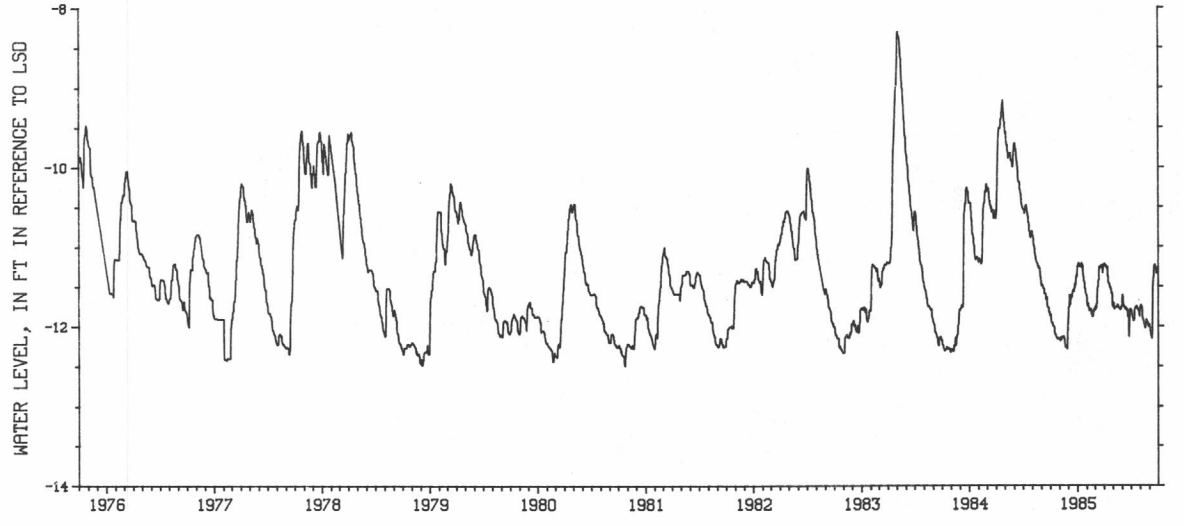
Site number	Stream name	Measuring site	Drainage area (mi^2)	Measured discharge (ft^3/s)	Gain or loss (ft^3/s)	Measured discharge (ft^3/s)	Gain or loss (ft^3/s)
				July 18, 1985		Sept 23, 1985	
04250619	Bear Creek	Opposite Cobb Place Road at Pierrepont Manor, NY.	6.54	2.42		1.18	
04250620	Bear Creek	On U.S. Highway 11 at Pierrepont Manor, NY.	7.05	2.21	-0.21	1.23	+0.05
04250621	Bear Creek	On Milk Plant Road at Pierrepont Manor, NY.	7.36	3.14	+0.93	1.28	+0.05
04250738	Sandy Creek Trib. No. 3	On Lawrence (Borden) Road, 900 ft south of Spring Street, at Adams, NY.	0.27	0.021		dry	
04250739	Sandy Creek Trib. No. 3	On Spring Street at Adams, NY.	0.60	dry		dry	
04250741	Sandy Creek Trib. No. 4	On Lawrence (Borden) Road at Adams, NY.	1.18	0.126		0.005	
04250742	Sandy Creek Trib. to Trib No. 4	On State Highway 178 at Adams,NY.	1.46	dry		dry	
0425074250	Sandy Creek Trib. to Trib No. 4	On State Highway 178 near intersection of U.S. Highway 11 at Adams, NY.	1.84	dry		dry	
04250743	Sandy Creek Trib. No. 4	On Spring Street at Adams, NY.	3.51	dry	-0.126	dry	-0.005
04250745	Sandy Creek Trib. No. 5	On U.S. Highway 11, near Spook Hill Road, near Adams, NY.	5.37	1.01		dry	
04250746	Sandy Creek Trib. No. 5	On Adams Reservoir Road near Adams, NY.	5.82	dry	-1.01	dry	
04250747	Sandy Creek Trib. No. 5	At Interstate Highway 81 at Adams, NY.	6.51	0.233	+0.233	0.135	+0.135

BROOME COUNTY

420646075531201. Local number, Bm 100.
LOCATION.--Lat 42°06'46", long 75°53'12", Hydrologic Unit 02050103, at Moeller and Frederick Streets, Binghamton. Owner: U.S. Geological Survey.
AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 52 ft, cased to 52 ft, slotted 40 ft to 45 ft.
INSTRUMENTATION.--Digital recorder--60-minute punch.
DATUM.--Elevation of land-surface datum is 851.05 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter base, 2.86 ft above land-surface datum.
REMARKS.--New lowest water level recorded on June 25, 1985 due to water-level decline for several hours, possibly from nearby pumping.
PERIOD OF RECORD.--October 1946 to July 1955, April 1966 to current year. Unpublished record for October 1946 to July 1955 (intermittent), April 1966 to April 1968 (intermittent) and May 1968 to September 1977 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.29 ft below land-surface datum, May 4, 1983; lowest measured 13.18 ft below land-surface datum, June 25, 1985.
EXTREMES FOR CURRENT YEAR.--Highest water level, 11.20 ft below land-surface datum, Jan. 5; lowest, 13.18 ft below land-surface datum, June 25.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.87	12.17	11.94	11.25	11.62	11.77	11.22	11.76	11.74	11.81	11.77	11.98
2	11.88	12.16	11.88	11.25	11.65	11.79	11.23	11.75	11.64	11.80	11.75	12.00
3	11.86	12.19	11.77	11.26	11.72	11.80	11.22	11.71	11.61	11.81	11.74	12.01
4	11.91	12.17	11.76	11.22	11.75	11.75	11.25	11.73	11.65	11.84	11.74	12.03
5	11.95	12.14	11.75	11.21	11.74	11.78	11.25	11.76	11.74	11.87	11.75	12.08
6	11.97	12.16	11.61	11.24	11.72	11.77	11.25	11.79	11.74	11.89	11.76	12.09
7	11.96	12.18	11.68	11.22	11.76	11.72	11.26	11.78	11.76	11.90	11.78	12.12
8	11.96	12.17	11.67	11.23	11.76	11.72	11.24	11.76	11.76	11.92	11.81	12.13
9	11.98	12.15	11.73	11.26	11.78	11.64	11.26	11.76	11.76	11.93	11.87	12.15
10	12.00	12.14	11.66	11.26	11.81	11.56	11.28	11.76	11.77	11.94	11.91	12.16
11	12.01	12.13	11.65	11.24	11.81	11.51	11.26	11.76	11.79	11.93	11.93	12.10
12	12.01	12.14	11.61	11.24	11.79	11.51	11.26	11.76	11.77	11.91	11.93	11.80
13	12.01	12.14	11.61	11.24	11.78	11.44	11.26	11.77	11.77	11.84	11.95	11.56
14	12.02	12.15	11.64	11.21	11.79	11.41	11.38	11.77	11.79	11.79	11.97	11.44
15	12.04	12.14	11.60	11.23	11.79	11.32	11.40	11.75	11.80	11.77	11.97	11.39
16	12.09	12.13	11.58	11.27	11.80	11.26	11.46	11.73	11.80	11.77	12.00	11.36
17	12.11	12.16	11.55	11.23	11.81	11.28	11.47	11.74	11.81	11.76	12.01	11.27
18	12.11	12.17	11.57	11.24	11.86	11.25	11.47	11.75	11.79	11.76	12.03	11.24
19	12.11	12.17	11.55	11.26	11.84	11.27	11.48	11.76	11.80	11.75	12.02	11.23
20	12.13	12.20	11.56	11.30	11.87	11.26	11.50	11.77	11.81	11.76	11.98	11.25
21	12.14	12.24	11.57	11.38	11.89	11.24	11.52	11.77	11.89	11.76	11.95	11.27
22	12.15	12.27	11.52	11.40	11.88	11.24	11.51	11.78	11.90	11.77	11.92	11.29
23	12.16	12.24	11.53	11.44	11.87	11.27	11.52	11.78	11.89	11.79	11.94	11.27
24	12.16	12.25	11.47	11.45	11.81	11.26	11.54	11.79	11.91	11.80	11.95	11.27
25	12.17	12.27	11.47	11.47	11.83	11.24	11.55	11.79	12.13	11.80	11.95	11.34
26	12.15	12.28	11.49	11.53	11.80	11.24	11.59	11.80	11.90	11.79	11.96	11.31
27	12.16	12.29	11.44	11.54	11.79	11.27	11.58	11.80	11.87	11.81	11.98	11.27
28	12.15	12.27	11.39	11.54	11.79	11.34	11.59	11.78	11.79	11.83	12.00	11.28
29	12.16	12.16	11.36	11.59	---	11.28	11.61	11.76	11.79	11.85	12.01	11.26
30	12.17	12.05	11.39	11.61	---	11.23	11.71	11.75	11.81	11.88	11.99	11.26
31	12.17	---	11.36	11.61	---	11.23	---	11.76	---	11.82	11.98	---

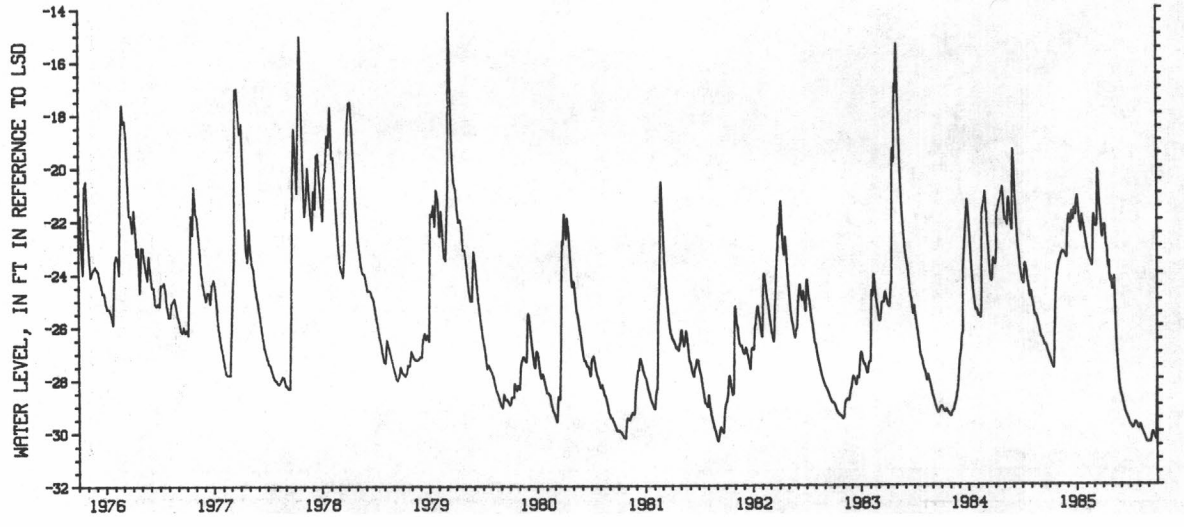


BROOME COUNTY

420657075583501. Local number, Bm 121.
LOCATION.--Lat 42°06'57", long 75°58'35", Hydrologic Unit 02050103, at Camden and Main Streets, Johnson City.
Owner: U.S. Geological Survey.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 53 ft, cased to 53 ft open end.
INSTRUMENTATION.--Digital recorder--60-minute punch. Prior to May 1950 taped by observer.
DATUM.--Elevation of land-surface datum is 833.62 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter base, 3.42 ft above land-surface datum.
REMARKS.--Well cleaned from 46 ft, to original depth on Oct. 19, 1970. Water level affected by floods of Susquehanna River, and by pumping from municipal well field 1,100 ft south.
PERIOD OF RECORD.--March 1947 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.73 ft below land-surface datum, Apr. 8, 1956; lowest, 33.47 ft below land-surface datum, Sept. 23, 1965.
EXTREMES FOR CURRENT YEAR.--Highest water level, 20.12 ft below land-surface datum, Mar. 15; lowest 30.41 ft below land-surface datum, Aug. 25, 26 and Aug. 29 to Sept. 1, 6, 7.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.19	23.62	22.60	21.27	22.75	21.83	22.38	24.43	28.66	29.76	29.85	30.40
2	27.22	23.57	22.32	21.23	22.83	21.92	22.28	24.54	28.68	29.77	29.79	30.38
3	27.25	23.55	22.13	21.16	22.91	22.02	22.22	24.63	28.71	29.78	29.76	30.38
4	27.28	23.52	22.00	21.11	22.98	22.08	22.28	24.62	28.75	29.79	29.76	30.39
5	27.32	23.49	21.91	21.23	23.04	22.16	22.28	24.49	28.81	29.81	29.77	30.40
6	27.36	23.47	21.84	21.39	23.10	22.25	22.23	24.40	28.87	29.84	29.81	30.41
7	27.39	23.42	21.90	21.49	23.17	22.24	22.22	24.33	28.93	29.86	29.85	30.40
8	27.43	23.37	21.96	21.62	23.23	22.24	22.25	24.26	28.98	29.87	29.91	30.36
9	27.46	23.32	22.06	21.77	23.29	22.28	22.41	24.15	29.03	29.89	29.94	30.32
10	27.49	23.29	22.10	21.90	23.34	22.24	22.60	24.23	29.08	29.89	29.96	30.27
11	27.52	23.27	22.15	22.02	23.39	22.20	22.77	24.70	29.13	29.86	29.99	30.20
12	27.55	23.25	22.13	22.12	23.41	22.03	22.94	25.16	29.18	29.84	30.01	30.13
13	27.57	23.22	22.09	22.20	23.45	21.36	23.04	25.58	29.23	29.79	30.04	30.07
14	27.59	23.22	21.96	22.27	23.49	20.50	23.03	25.95	29.28	29.77	30.07	30.04
15	27.60	23.21	21.79	22.37	23.51	20.14	23.06	26.29	29.31	29.75	30.10	30.03
16	27.37	23.20	21.72	22.44	23.54	20.23	23.23	26.57	29.34	29.72	30.12	30.03
17	26.90	23.23	21.70	22.21	23.56	20.42	23.43	26.81	29.37	29.67	30.15	30.05
18	26.38	23.23	21.72	21.93	23.60	20.66	23.60	27.01	29.39	29.66	30.17	30.08
19	25.89	23.22	21.79	21.84	23.62	20.90	23.76	27.16	29.41	29.66	30.20	30.11
20	25.49	23.24	22.02	21.93	23.66	21.13	23.77	27.33	29.44	29.68	30.23	30.15
21	25.14	23.26	22.00	22.02	23.71	21.36	23.62	27.50	29.47	29.70	30.26	30.18
22	24.87	23.29	21.91	22.11	23.74	21.52	23.58	27.67	29.50	29.71	30.30	30.21
23	24.63	23.29	21.76	22.15	23.74	21.66	23.80	27.82	29.53	29.72	30.33	30.24
24	24.43	23.32	21.59	22.17	23.54	21.81	24.12	27.97	29.54	29.74	30.36	30.26
25	24.27	23.36	21.58	22.20	23.11	21.94	24.26	28.11	29.57	29.78	30.40	30.29
26	24.12	23.40	21.64	22.31	22.47	22.09	24.33	28.22	29.60	29.83	30.40	30.31
27	24.01	23.43	21.73	22.38	22.00	22.28	24.31	28.34	29.64	29.86	30.39	30.24
28	23.91	23.43	21.81	22.44	21.83	22.46	24.17	28.44	29.68	29.87	30.39	29.66
29	23.83	23.35	21.83	22.52	---	22.62	24.19	28.50	29.72	29.88	30.40	28.69
30	23.76	22.98	21.71	22.60	---	22.66	24.32	28.55	29.74	29.90	30.41	27.99
31	23.69	---	21.45	22.66	---	22.52	---	28.61	---	29.90	30.41	---

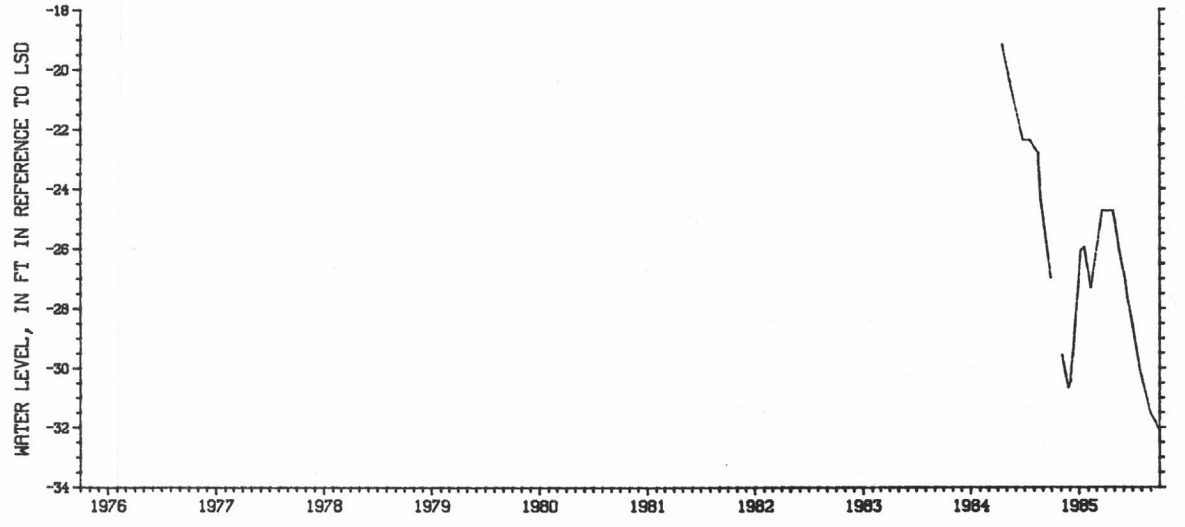


BROOME COUNTY

421138075511301. Local number, Bm 128.
LOCATION.--Lat 42°11'38", long 75°51'13", Hydrologic Unit 02050102, at end of Jeffery Drive on Chenango Forks School District property at Kattelville. Owner: U. S. Geological Survey.
AQUIFER.--Water-table aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 53 ft, cased to 48.5 ft, screened 48.5 to 53 ft.
INSTRUMENTATION.--Monthly measurement with chalked tape by observer and USGS personnel.
DATUM.--Elevation of land-surface datum is 908.58 ft above National Geodetic Vertical Datum of 1929. Measuring point: Double file mark on top of coupling, 3.20 ft above land-surface datum.
REMARKS.--Water level may be affected by pumping in nearby village and school wells.
PERIOD OF RECORD.--April 1984 to current year. Unpublished record for September 1980 to February 1982 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.17 ft below land-surface datum, Apr. 16, 1984; lowest measured, 32.48 ft below land surface datum, Oct. 27, 1981.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 24.74 ft below land-surface datum, Mar. 20, April 25; lowest measured, 32.10 ft below land-surface datum, Sept. 30.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

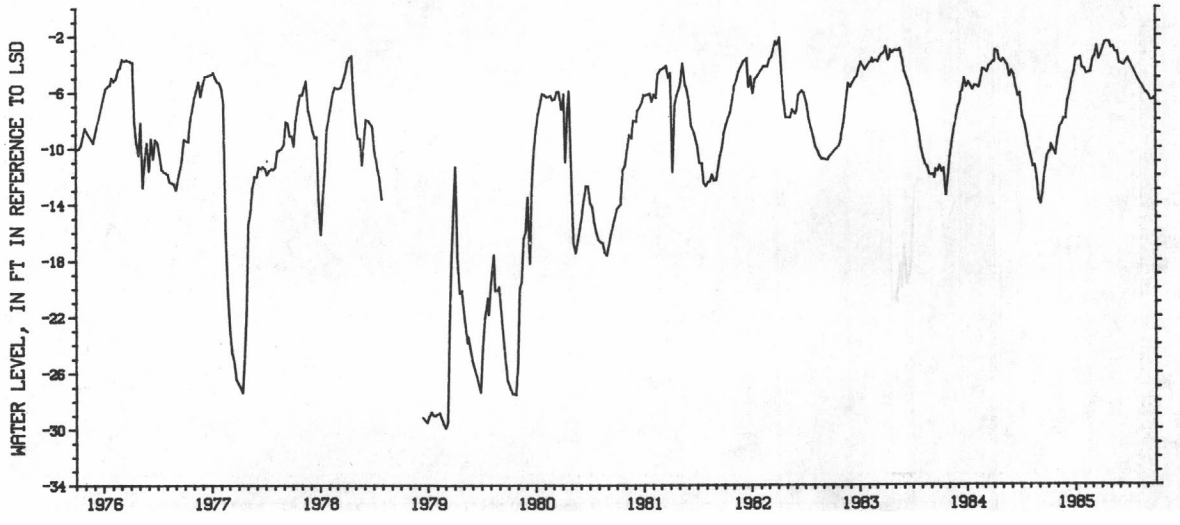
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
DEC 12, 1984	29.59	MAR 20, 1985	24.74	JUN 07, 1985	27.12	AUG 30, 1985	31.50
JAN 07, 1985	26.06	APR 25	24.74	14	27.67	SEP 30	32.10
18	25.95	MAY 01	25.03	25	28.25		
FEB 10	27.31	17	26.08	JUL 25	30.05		



420530078445201. Local number, Ct 121.
LOCATION.--Lat 42°05'30", long 78°44'52", Hydrologic Unit 05010001, near Red House.
Owner: New York State Department of Environmental Conservation.
AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in, depth 53 ft, cased to 53 ft, open end.
INSTRUMENTATION.--Float tape read weekly by observer.
DATUM.--Elevation of land-surface datum is 1,467.08 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 0.30 ft above land-surface datum.
REMARKS.--Well is located in a New York State operated campgrounds area. A new central water system for the campgrounds, utilizing a well about 1.5 mi from the observation well put in operation in 1980, is reflected by higher ground water levels in summer and fall comparable to those experienced prior to 1969 when the lowest level measured was 13.23 ft below land-surface datum on Feb. 1, 1961. Extreme low levels occurred during late summer and early fall months from 1969 to 1979 due to the effect of pumping the old supply system from a nearby well.
PERIOD OF RECORD.--September 1950 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 2.12 ft below land-surface datum, Apr. 8, 1982; lowest measured 34.87 ft below land-surface datum, Nov. 21, 1972.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 2.43 ft below land-surface datum, Apr. 20; lowest measured, 10.51 ft below land-surface datum, Oct. 27.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1984	10.31	DEC 29, 1984	4.64	MAR 16, 1985	2.74	JUN 08, 1985	4.04
10	10.22	JAN 05, 1985	3.68	23	3.71	15	4.15
12	9.79	12	3.76	30	3.34	29	3.63
27	10.51	19	3.55	APR 13	2.51	AUG 03	5.16
NOV 03	9.35	26	4.32	20	2.43	17	5.65
10	8.53	FEB 02	4.39	27	2.49	28	6.08
17	8.30	09	4.73	30	2.62	31	6.06
23	7.93	16	4.66	MAY 04	2.90	SEP 07	6.28
DEC 01	7.95	23	4.59	11	2.80	14	6.63
08	6.63	MAR 02	3.78	18	3.19	21	6.57
15	6.04	05	3.58	25	3.19	28	6.43
22	5.20	09	3.49	JUN 01	4.01		

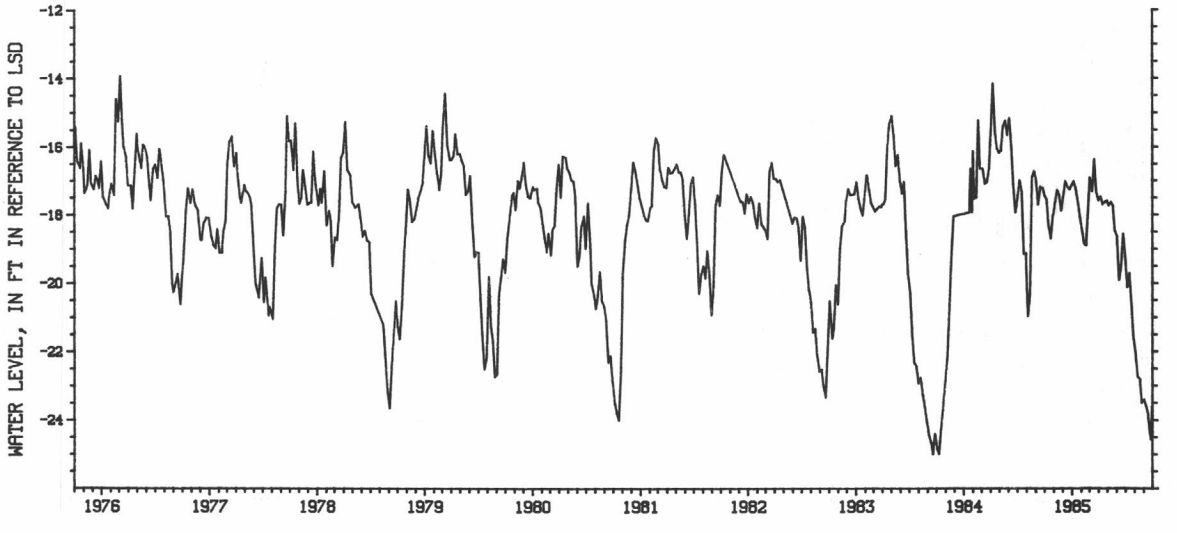


CAYUGA COUNTY

424158076251901. Local number, Cy 7.
LOCATION.--Lat 42°41'58", long 76°25'19", Hydrologic Unit 04140201, near Moravia.
Owner: Earl Van Pelt.
AQUIFER.--Water-table aquifer in clayey gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored observation well, diameter 2.5 in, depth 28 ft, cased to 26 ft 1.25-in well point (60-gauze screen 26 ft to 28 ft).
INSTRUMENTATION.--Weekly measurement with chalked tape by observer.
DATUM.--Elevation of land-surface datum is 760.70 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter base, 3.08 ft above land-surface datum.
PERIOD OF RECORD.--December 1965 to current year. Unpublished record for December 1965 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.91 ft below land-surface datum, June 26, 1972; lowest measured, 25.00 ft below land-surface datum, Sept. 19, 1983.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 16.37 below land-surface datum, Mar. 18; lowest measured, 24.56 ft below land-surface datum, Sept. 26.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1984	17.44	JAN 14, 1985	17.26	APR 22, 1985	17.64	JUL 29, 1985	21.64
08	17.57	22	17.69	29	17.59	AUG 05	22.10
15	18.35	28	18.06	MAY 06	17.74	12	22.75
22	18.70	FEB 04	18.45	13	17.64	19	22.82
29	18.05	11	18.85	20	17.75	26	23.50
NOV 05	17.66	18	18.91	27	18.48	SEP 02	23.41
12	17.29	25	17.85	JUN 03	18.64	09	23.58
19	17.43	MAR 03	16.90	10	19.93	16	23.82
26	17.89	11	17.32	17	19.47	23	24.40
DEC 10	17.02	18	16.37	24	18.56	26	24.56
17	17.18	25	17.36	JUL 01	19.28	30	23.61
24	17.26	APR 01	17.58	08	20.12		
31	17.15	08	17.47	15	19.71		
JAN 07, 1985	17.02	15	17.70	22	20.58		

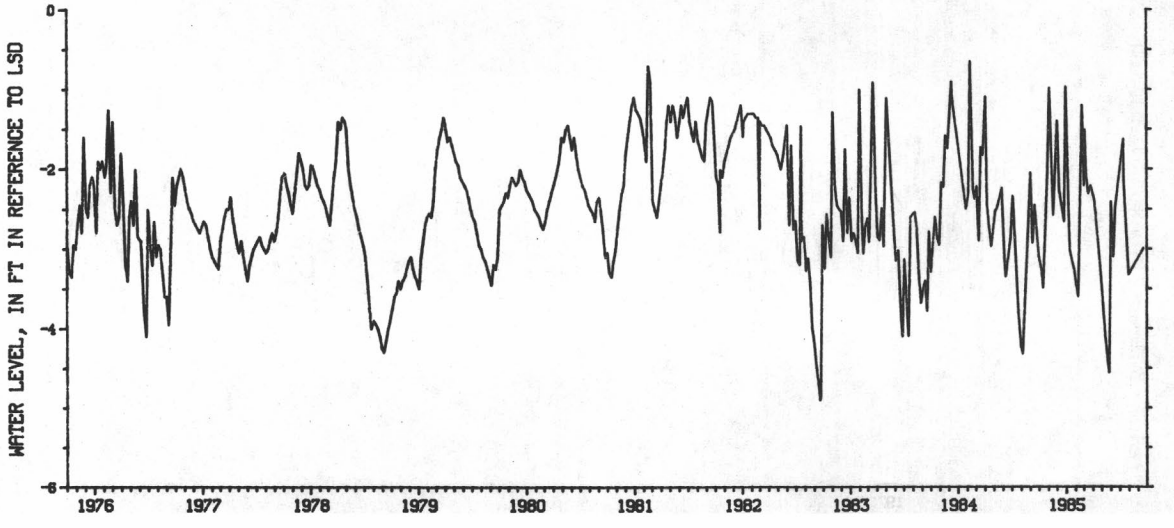


CHAUTAUQUA COUNTY

420326079295801. Local number, Cu 5.
LOCATION.--Lat 42°03'26", long 79°29'58", Hydrologic Unit 05010002, near Panama.
Owner: State Department of Environmental Conservation.
AQUIFER.--Water-table aquifer in till of Pleistocene age.
WELL CHARACTERISTICS.--Dug unused well, diameter 36 in, depth 33 ft, stone-lined.
INSTRUMENTATION.--Float tape read weekly by observer.
DATUM.--Elevation of land surface datum is 1,752.51 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 0.25-in steel-plate well cover, inside shelter door, 0.44 ft below land-surface datum.
PERIOD OF RECORD.--May 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.70 ft below land-surface datum, Feb. 19, 1981; lowest measured 9.41 ft below land-surface datum, May 24, 1949.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.97 ft below land-surface datum, Jan. 1; lowest measured, 4.56 ft below land-surface datum, May 27.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1984	3.10	JAN 01, 1985	0.97	MAR 18, 1985	2.31	JUN 03, 1985	2.41
11	3.30	14	3.03	26	2.21	04	2.48
15	3.49	30	3.29	APR 08	2.40	10	3.10
30	2.08	FEB 04	3.45	23	3.05	17	2.49
NOV 06	0.98	11	3.60	29	3.33	JUL 15	1.62
19	2.58	25	1.20	MAY 06	3.68	16	2.14
DEC 03	1.40	MAR 04	2.21	14	4.10	AUG 01	3.33
10	2.28	06	1.51	22	4.40	SEP 18	3.00
26	2.66	11	2.08	27	4.56		

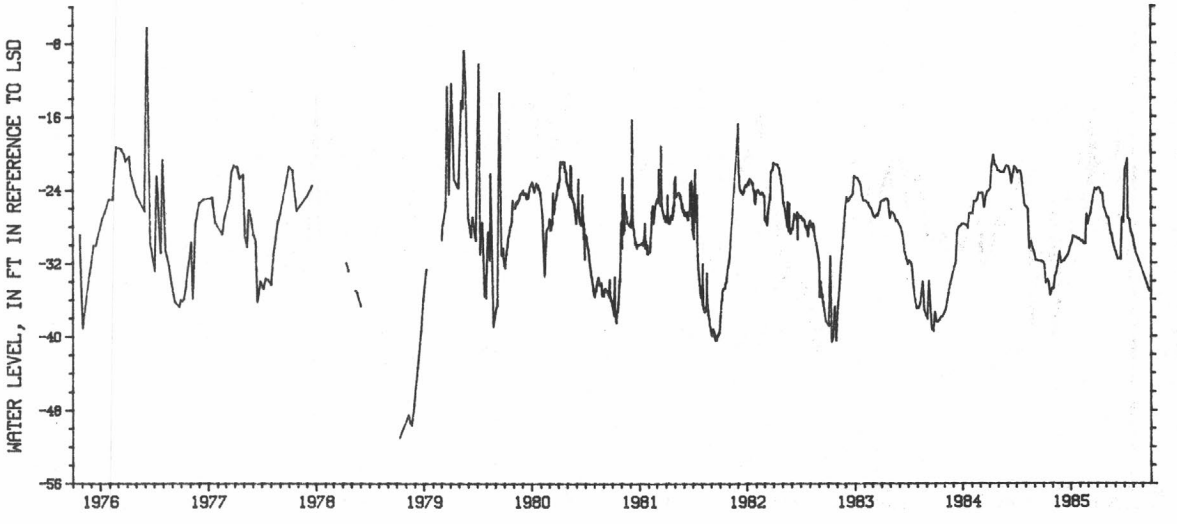


CHAUTAUQUA COUNTY

420815079121401. Local number, Cu 10.
LOCATION.--Lat 42°08'15", long 79°12'14", Hydrologic Unit 05010002, at Falconer.
Owner: City of Jamestown.
AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 12 in to 10 in, depth 232 ft, filled in from original depth of 240 ft, cased 12 in 0 ft to 130 ft, 10 in 130 ft to 240 ft, slotted 130 ft to 144 ft, open end.
INSTRUMENTATION.--Twice daily measurement with chalked tape by City of Jamestown employee, every fifth day published.
DATUM.--Elevation of land-surface datum is 1,252.52 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of shelter base, 5.44 ft above land-surface datum.
REMARKS.--Water level affected by pumping from municipal well field. Digital recorder installed Dec. 18, 1978, removed Sept. 16, 1982.
PERIOD OF RECORD.--November 1939 to September 1943, August 1946 to current year. Unpublished record for November 1939 to September 1943, August 1946 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.2 ft below land-surface datum, Mar. 14, 1942; lowest, 66.6 ft below land-surface datum, Nov. 3, 1971.
EXTREMES FOR CURRENT YEAR.--Highest water level, 20.63 ft below land-surface datum, July 13; lowest, 35.49 ft, Oct. 25.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

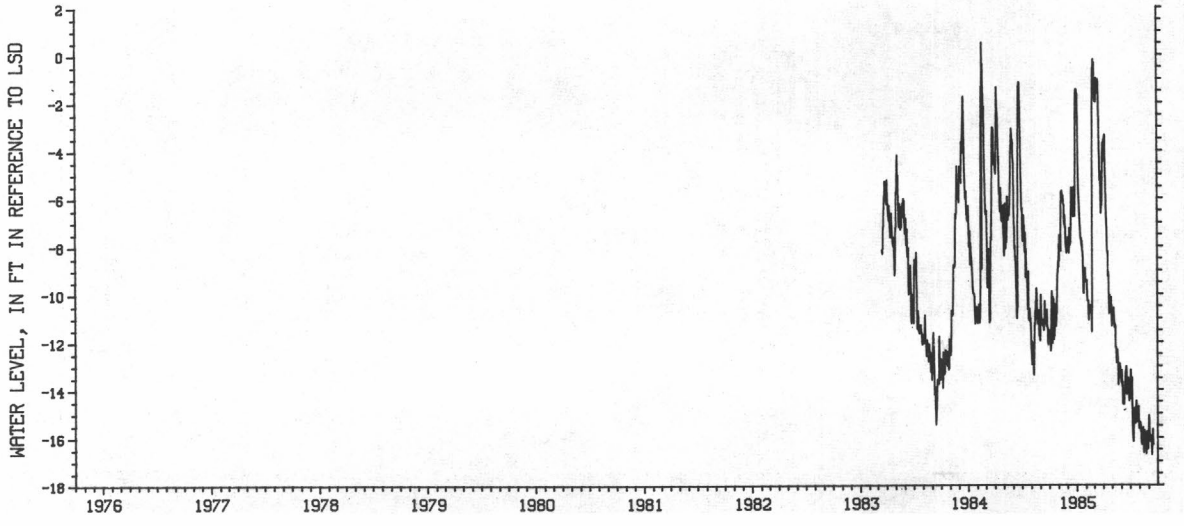
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1984	32.26	DEC 30, 1984	30.34	MAR 30, 1985	24.06	JUN 30, 1985	27.59
10	34.19	JAN 05, 1985	29.85	APR 05	23.77	JUL 05	21.73
15	33.83	10	29.07	10	23.94	13	20.63
20	34.16	20	29.26	15	24.38	15	27.18
25	35.49	25	29.41	20	24.43	20	27.37
30	34.81	30	29.41	25	25.97	25	28.66
NOV 05	34.85	FEB 05	29.65	MAY 05	27.06	30	29.11
10	33.44	10	29.65	10	27.11	AUG 05	30.20
15	32.97	15	29.95	18	28.90	10	30.94
20	31.85	20	29.94	20	28.82	15	31.33
25	30.82	25	26.66	25	29.82	SEP 10	33.72
30	31.97	MAR 01	27.76	JUN 01	30.65	15	34.21
DEC 10	31.75	05	27.04	10	31.61	20	34.75
15	31.51	10	26.58	15	31.53	25	35.06
20	31.26	15	25.43	20	31.66		
25	31.02	25	23.86	25	27.10		



420748079062701. Local number, Cu 104.
LOCATION.--Lat 42°07'48", long 79°06'27", Hydrologic Unit 05010002, 59 ft west of Conewango Creek, 20 ft north of County Highway 325 and 1 mi southeast of Poland Center.
Owner: City of Jamestown.
AQUIFER.--Water-table aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 79 ft, screened 69 ft to 79 ft.
INSTRUMENTATION.--Digital recorder--60-minute punch.
DATUM.--Elevation of land-surface datum is 1,247.62 ft above National Geodetic Vertical Datum of 1929. Measuring point: Chisled marks at top of metal shelter base, 6.22 ft above land-surface datum.
REMARKS.--Well drilled by the U.S.G.S. The water level is affected by pumping from municipal well field and by river stages in Conewango Creek which is within 100 ft of the well.
PERIOD OF RECORD.--March 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.09 ft above land-surface datum, Feb. 20, 1984; lowest, 18.35 ft below land-surface datum, June 29, 1983, July 26, 1984.
EXTREMES FOR CURRENT YEAR.--Highest water level, 0.60 ft above land-surface datum, Mar. 1; lowest, 17.62 ft, below land-surface datum, Sept. 29.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.54	8.62	7.76	1.44	9.52	0.21	3.70	11.34	13.70	13.78	15.45	15.70
2	11.79	8.88	7.78	1.46	9.51	.86	4.51	10.98	13.66	13.71	15.49	15.09
3	11.53	7.92	7.62	1.55	9.51	.34	3.71	10.84	13.20	13.18	15.37	15.34
4	11.88	8.63	7.77	1.64	9.48	1.21	3.56	10.69	13.72	13.67	15.46	15.89
5	11.88	7.54	7.99	1.73	9.44	1.96	3.54	10.65	13.90	14.40	15.57	16.12
6	12.37	8.03	8.10	2.63	9.92	1.56	3.48	10.61	13.70	13.96	15.78	16.19
7	12.24	8.11	8.28	4.10	10.29	1.97	3.36	10.58	14.62	13.50	15.86	16.14
8	11.42	8.13	8.06	5.34	10.29	2.00	3.43	10.92	14.47	14.44	16.24	15.93
9	10.51	8.20	7.25	5.84	10.29	1.84	4.74	11.26	14.21	15.12	16.31	16.15
10	9.89	6.66	7.85	6.03	10.29	.98	5.24	11.41	14.05	15.62	15.92	16.22
11	10.40	5.74	7.96	6.40	10.71	1.64	5.92	11.28	14.63	15.98	16.06	16.01
12	12.06	5.91	7.84	6.66	11.09	1.37	6.65	11.35	14.01	16.17	15.75	16.73
13	11.02	5.67	7.48	7.00	10.78	1.30	6.89	11.42	14.17	15.48	15.59	16.28
14	10.13	5.82	7.09	7.30	10.81	1.40	7.23	12.24	13.80	14.95	16.12	16.17
15	10.81	5.94	6.20	7.53	10.63	1.55	8.00	12.25	13.50	14.78	16.26	15.66
16	10.23	6.14	5.56	7.71	10.48	1.04	8.28	12.41	13.30	15.34	16.65	16.29
17	11.90	5.90	5.65	7.68	10.48	1.14	8.23	12.90	13.18	15.03	16.15	16.45
18	11.69	6.15	6.16	7.91	10.58	1.86	9.26	12.47	13.03	15.00	15.71	16.27
19	11.76	6.28	6.38	8.02	10.59	2.74	9.09	12.33	13.24	15.43	15.82	16.57
20	10.91	6.35	6.70	7.80	10.58	3.72	9.26	12.55	14.21	15.38	15.95	16.82
21	10.42	6.98	6.77	8.20	10.74	4.45	10.09	12.72	14.13	14.79	15.96	16.74
22	11.03	7.12	6.70	8.28	11.58	5.26	10.83	12.95	13.80	14.48	16.15	15.91
23	11.17	6.70	6.60	8.41	10.32	5.12	10.52	13.81	13.54	15.21	16.23	16.44
24	11.37	7.24	5.54	9.05	5.08	4.90	10.05	13.29	13.53	15.02	16.70	16.48
25	11.14	7.20	5.70	9.97	2.43	5.70	10.78	13.04	13.51	15.04	15.91	16.45
26	10.62	7.78	6.00	9.98	1.23	6.63	10.34	13.20	13.67	15.36	15.76	16.59
27	10.82	8.05	6.75	9.46	.55	6.16	10.14	12.91	13.99	15.02	16.24	16.65
28	9.82	8.07	5.94	8.92	.66	6.34	10.15	13.06	14.48	14.77	16.52	16.62
29	9.24	8.28	4.50	8.92	---	6.05	10.47	13.37	14.30	14.71	16.43	17.22
30	9.11	8.19	2.65	9.00	---	4.89	10.54	13.26	13.59	15.26	16.48	16.87
31	8.81	---	1.58	9.18	---	4.14	---	13.49	---	15.64	15.89	---

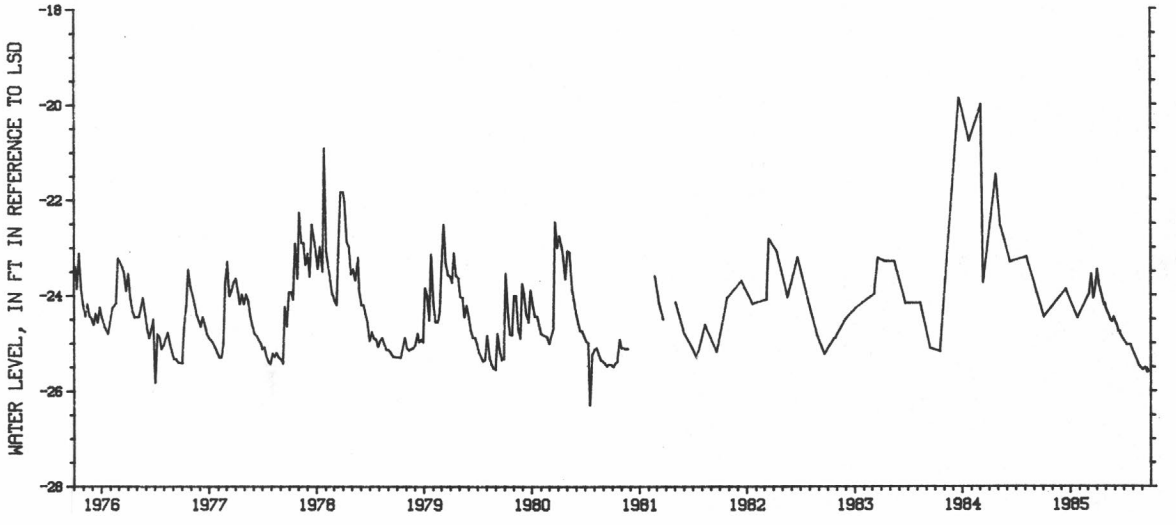


CHEMUNG COUNTY

420829076484801. Local number, Cm 46.
LOCATION.--Lat 42°08'29", long 76°48'48", Hydrologic Unit 02050105, near Horseheads.
Owner: Original owner deceased.
AQUIFER.--Water-table aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled unused well, diameter 6 in, depth 34 ft, cased to 34 ft, open end.
INSTRUMENTATION.--Measurement made with chalked tape by observer and USGS personnel. Prior to April 1984 float tape read by observer or USGS personnel.
DATUM.--Elevation of land-surface datum is 885.69 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of pipe flange, 3.44 ft above land-surface datum.
REMARKS.--Water level affected by stage of Newtown Creek.
PERIOD OF RECORD.--October 1955 to current year. Unpublished record for October 1955 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 18.93 ft below land-surface datum, April 25, 1961; lowest measured, 26.30 ft below land-surface datum, July 18, 1980.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 23.46 ft below land-surface datum, Apr. 3; lowest measured, 25.61 ft below land-surface datum, Sept. 18, 23.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 04, 1984	24.46	APR 10, 1985	23.81	MAY 29, 1985	24.46	AUG 21, 1985	25.46
DEC 17	23.87	16	23.96	JUN 06	24.61	27	25.51
JAN 25, 1985	24.48	26	24.21	07	24.60	SEP 03	25.56
MAR 06	23.96	29	24.17	13	24.76	06	25.54
14	23.56	MAY 01	24.26	18	24.75	11	25.51
21	24.06	08	24.36	19	24.81	18	25.61
29	23.76	17	24.51	JUL 11	25.04	19	25.53
APR 03	23.46	23	24.56	24	25.03	23	25.61



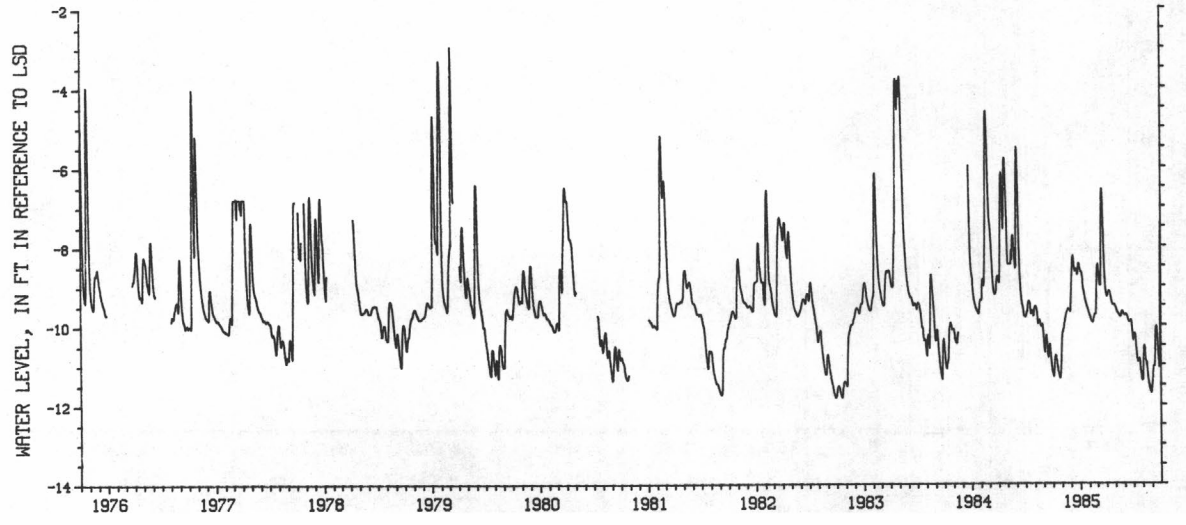
CHENANGO COUNTY

421556075281602. Local number, Cn 12.
LOCATION.--Lat 42°15'56", long 75°28'16", Hydrologic Unit 02050101, 400 ft south of intersection of County Highways 39 and 12, 0.5 mi east of Susquehanna River, and 2.0 mi south of Bainbridge.
Owner: Ilse Maehlman.
AQUIFER.--Water-table aquifer in gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 13 ft, cased to 13 ft gravel-packed, open end.
INSTRUMENTATION.--Digital recorder--60-minute punch.
DATUM.--Elevation of land-surface datum is 979.28 ft above National Geodetic Vertical Datum of 1929. Measuring point: File mark at top of shelter base, 1.37 ft above land-surface datum.
REMARKS.--This well drilled April 1974 as a replacement for 421556075281601 (local number Cn 11), located 90 ft north, which has a period of record from October 1965 to September 1972 (unpublished).
PERIOD OF RECORD.--April 1975 to current year. Unpublished record for April 1975 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.79 ft below land-surface datum, Mar. 7, 1979; lowest, 11.81 ft below land-surface datum, Sept. 26-29, 1982.
EXTREMES FOR CURRENT YEAR.--Highest water level, 6.56 ft below land-surface datum, Mar. 16, 17; lowest, 11.71 ft below land-surface datum, Aug. 29, 30.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.21	10.42	9.45	8.62	9.73	8.51	9.26	9.55	9.75	10.38	11.39	11.59
2	11.24	10.27	9.24	8.64	9.75	8.47	9.29	9.57	9.76	10.32	11.37	11.53
3	11.28	10.19	8.99	8.65	9.77	8.49	9.29	9.59	9.75	10.25	11.23	11.45
4	11.30	10.16	8.75	8.66	9.79	8.55	9.26	9.61	9.73	10.21	10.87	11.32
5	11.29	10.13	8.53	8.67	9.82	8.63	9.23	9.64	9.73	10.22	10.61	11.19
6	11.20	10.11	8.36	8.70	9.84	8.73	9.20	9.66	9.73	10.24	10.52	11.10
7	11.05	10.08	8.28	8.74	9.87	8.83	9.17	9.68	9.75	10.26	10.52	11.05
8	10.89	10.02	8.25	8.80	9.89	8.91	9.15	9.70	9.76	10.31	10.59	11.04
9	10.80	9.96	8.28	8.86	9.90	8.98	9.14	9.70	9.78	10.40	10.70	11.05
10	10.76	9.92	8.35	8.94	9.91	9.01	9.14	9.71	9.80	10.50	10.82	11.03
11	10.77	9.88	8.44	9.02	9.92	9.01	9.16	9.72	9.82	10.60	10.89	10.94
12	10.80	9.83	8.54	9.09	9.93	8.97	9.18	9.74	9.85	10.69	10.92	10.63
13	10.85	9.79	8.61	9.14	9.94	8.51	9.21	9.75	9.88	10.79	10.93	10.31
14	10.90	9.75	8.64	9.19	9.94	7.50	9.25	9.76	9.90	10.86	10.95	10.13
15	10.95	9.72	8.64	9.23	9.90	6.81	9.30	9.77	9.91	10.91	10.98	10.05
16	11.01	9.69	8.61	9.28	9.85	6.58	9.33	9.78	9.91	10.93	11.05	10.03
17	11.06	9.67	8.59	9.32	9.80	6.58	9.37	9.79	9.92	10.93	11.12	10.06
18	11.11	9.65	8.58	9.36	9.77	6.69	9.41	9.80	9.93	10.92	11.21	10.13
19	11.16	9.63	8.59	9.39	9.75	6.89	9.44	9.79	9.93	10.89	11.29	10.24
20	11.20	9.61	8.63	9.42	9.73	7.16	9.47	9.75	9.91	10.86	11.37	10.37
21	11.24	9.60	8.67	9.45	9.73	7.45	9.49	9.71	9.89	10.85	11.42	10.51
22	11.27	9.60	8.72	9.48	9.73	7.74	9.49	9.68	9.88	10.88	11.47	10.64
23	11.30	9.60	8.73	9.51	9.74	8.02	9.50	9.66	9.89	10.94	11.51	10.77
24	11.33	9.61	8.69	9.54	9.71	8.27	9.50	9.66	9.92	11.00	11.55	10.88
25	11.34	9.62	8.59	9.56	9.60	8.48	9.50	9.66	9.97	11.08	11.58	10.97
26	11.33	9.64	8.50	9.58	9.29	8.66	9.50	9.68	10.04	11.15	11.61	11.07
27	11.28	9.65	8.45	9.60	8.91	8.82	9.50	9.70	10.11	11.21	11.64	11.06
28	11.20	9.67	8.45	9.63	8.64	8.95	9.50	9.73	10.20	11.27	11.67	9.27
29	11.09	9.67	8.49	9.65	---	9.06	9.52	9.75	10.28	11.33	11.70	8.02
30	10.91	9.62	8.54	9.68	---	9.14	9.53	9.75	10.37	11.38	11.71	7.43
31	10.66	---	8.59	9.71	---	9.21	---	9.75	---	11.40	11.66	---
MEAN	11.09	9.83	8.61	9.20	9.72	8.25	9.34	9.70	9.90	10.77	11.19	10.53
MAX	11.34	10.42	9.45	9.71	9.94	9.21	9.53	9.80	10.37	11.40	11.71	11.59
MIN	10.66	9.60	8.25	8.62	8.64	6.58	9.14	9.55	9.73	10.21	10.52	7.43

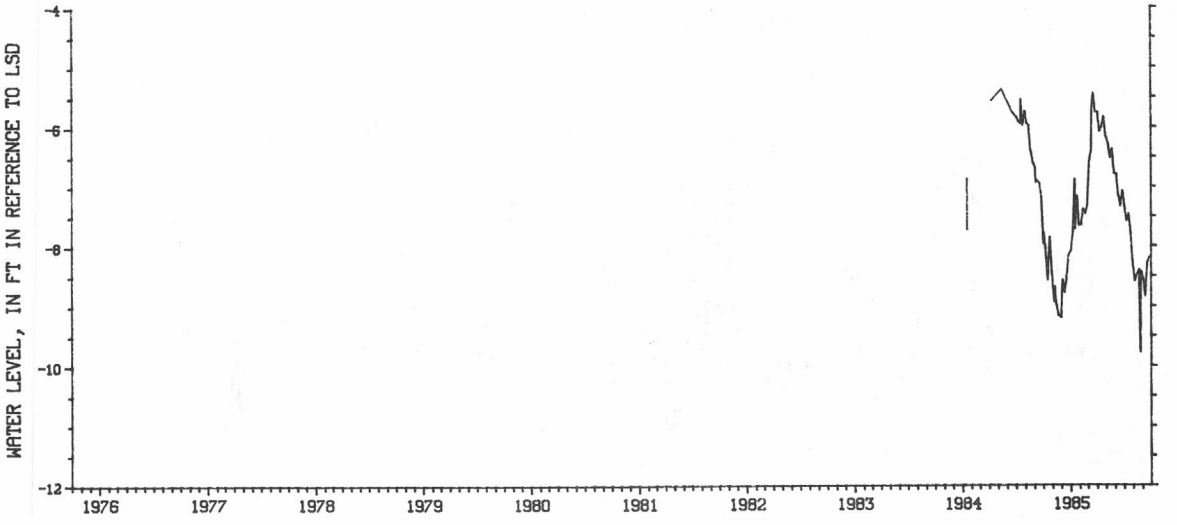
CAL YR 1984 MEAN 9.07 MAX 11.34 MIN 4.60
WTR YR 1985 MEAN 9.84 MAX 11.71 MIN 6.58



423849075315701. Local number, Cn 13.
LOCATION.--Lat 42°38'49", long 75°31'57", Hydrologic Unit 02050102, at junction of Chenango County Road 23 and Erie-Lackawanna Railroad tracks, 2.1 mi north of North Norwich and 2.7 mi south of NYS Rt. 80 near Sherburne. Owner: U. S. Geological Survey.
AQUIFER.--Confined aquifer in sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 125 ft, cased to 123 ft, screened 123 ft to 125 ft.
INSTRUMENTATION.--Weekly measurement made with chalked tape by paid observer and USGS personnel.
DATUM.--Elevation of land-surface datum is 1065.77 ft above National Geodetic Vertical Datum of 1929. Measuring point: Double file mark on top of coupling, 4.00 ft above land-surface datum.
REMARKS.--Water level may be affected by pumping from nearby farm well.
PERIOD OF RECORD.--April 1984 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.37 ft below land-surface datum, May 14, 1984; lowest measured, 9.78 ft below land-surface datum, Aug. 26, 1985.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 5.45 ft below land-surface datum, Mar. 20; lowest measured, 9.78 ft below land-surface datum, Aug. 26.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 1984	7.97	DEC 26, 1984	8.16	MAR 27, 1985	5.76	JUL 10, 1985	7.58
03	7.78	JAN 03, 1985	8.08	APR 03	5.76	17	7.46
09	8.05	10	7.76	10	6.08	24	7.77
16	8.57	16	6.87	17	6.00	30	8.24
23	7.85	17	7.72	24	5.84	AUG 07	8.59
30	8.44	24	7.16	MAY 01	6.16	14	8.48
NOV 07	8.93	30	7.66	08	6.28	21	8.40
09	8.67	FEB 06	7.64	15	6.52	26	9.78
14	8.98	13	7.38	22	6.38	28	8.42
21	9.16	20	7.46	29	6.78	SEP 04	8.58
30	9.20	27	7.32	JUN 05	6.80	11	8.84
DEC 05	8.56	MAR 06	6.58	12	7.16	18	8.28
12	8.78	13	6.38	19	7.33	25	8.20
14	8.68	15	5.70	26	7.08		
19	8.54	20	5.45	JUL 02	7.32		

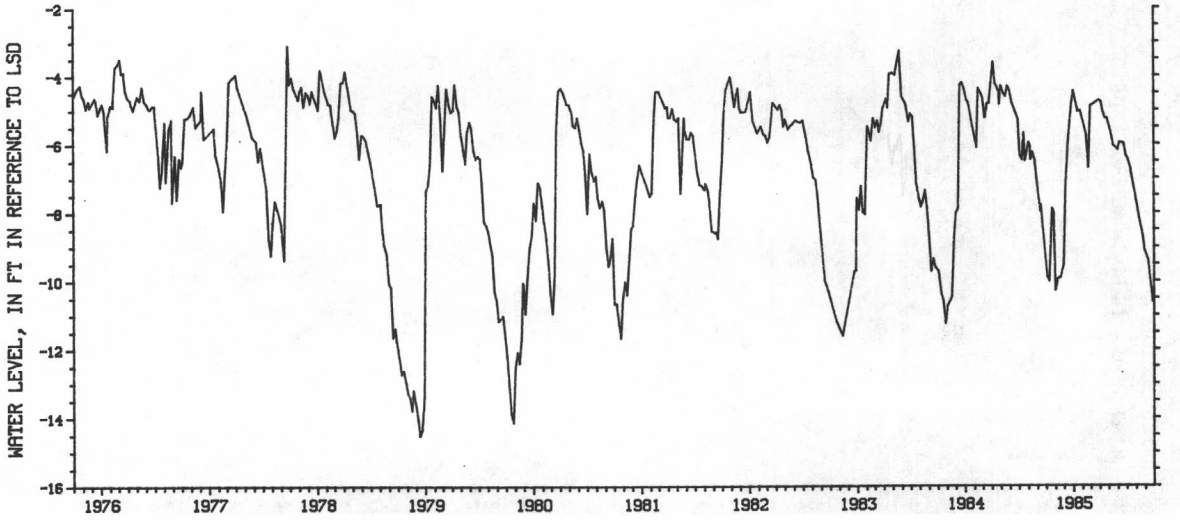


CORTLAND COUNTY

423541076114701. Local number, C 102.
LOCATION.--Lat 42°35'41", long 76°11'47", Hydrologic Unit 02050102, at Municipal Water Works, Cortland.
Owner: City of Cortland.
AQUIFER.--Water-table aquifer in gravel of Pleistocene age.
WELL CHARACTERISTICS.--Driven unused well, diameter 1.25 in, depth 45 ft, 1.25 in well point.
INSTRUMENTATION.--Weekly measurement with chalked tape by USGS and County Health Dept. personnel.
DATUM.--Elevation of land-surface datum is 1136.59 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of coupling, 2.0 ft above land-surface datum.
REMARKS.--Water level is affected by pumping from adjacent municipal supply wells. This well is a replacement for 423539076114801 (local number C 19), located 80 ft southwest, which has a period of record from February 1947 to May 1976.
PERIOD OF RECORD.--October 1975 to current year. Unpublished record for October 1975 to September 1977 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.07 ft below land-surface datum, September 25, 1977; lowest measured, 14.50 ft below land-surface datum, Dec. 14, 1978.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 4.45 ft below land-surface datum, Jan. 2; lowest measured, 10.61 ft below land-surface datum, Sept. 27.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1984	9.00	DEC 28, 1984	4.78	APR 12, 1985	5.06	JUL 05, 1985	6.46
12	8.34	JAN 02, 1985	4.45	19	5.25	15	6.76
22	9.88	17	5.06	26	5.26	16	6.86
27	10.02	25	5.03	MAY 10	5.72	AUG 02	7.67
NOV 02	10.30	FEB 15	5.75	17	6.05	12	8.19
09	9.94	22	6.70	31	6.18	23	8.65
19	9.90	MAR 01	4.88	JUN 07	5.96	30	9.11
30	9.52	11	4.84	14	5.97	SEP 12	9.42
DEC 07	7.22	29	4.72	21	6.00	27	10.61
16	5.88	APR 05	4.78	28	6.34		

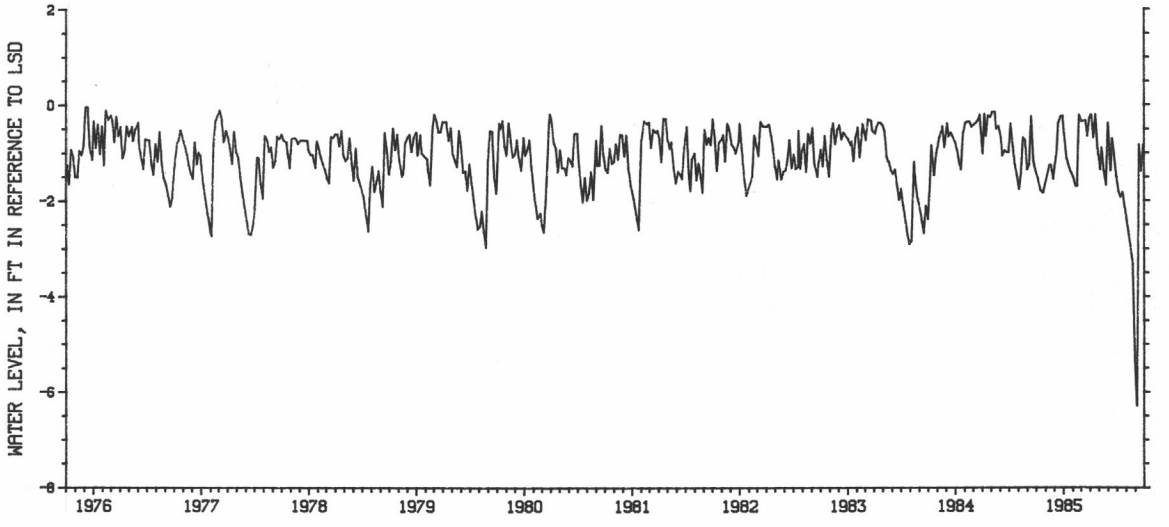


GENESEE COUNTY

425516078032001. Local number, Gs 2.
LOCATION.--Lat 42°55'16", long 78°03'20", Hydrologic Unit 04130003, near Pavilion.
Owner: Steven Rigoni.
AQUIFER.--Water-table aquifer in till of Pleistocene age.
WELL CHARACTERISTICS.--Dug unused well, diameter 36 in, depth 21 ft, stone-lined.
INSTRUMENTATION.--Float tape read weekly by observer.
DATUM.--Elevation of land-surface datum is 1,032.05 ft above National Geodetic Vertical Datum of 1929. Measuring point: Painted arrow on top edge of concrete well cover, inside shelter door, 1.12 ft above land-surface datum.
PERIOD OF RECORD.--September 1950 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.10 ft below land-surface datum, May 14, 1960, Feb. 28, 1971, and Feb. 13, 1976; lowest measured 6.55 ft below land-surface datum, Feb. 11, 1961.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.20 ft below land-surface datum, Feb. 23; lowest measured, 6.30 ft below land-surface datum, Sept. 7.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1984	1.53	JAN 24, 1985	1.38	APR 20, 1985	0.21	JUL 20, 1985	1.83
15	1.78	28	1.42	27	0.94	27	2.12
24	1.85	FEB 02	1.50	MAY 06	1.35	AUG 03	2.40
27	1.75	11	1.70	11	0.90	10	2.70
NOV 15	1.26	16	1.70	18	1.37	19	3.10
19	1.25	23	0.20	25	1.68	24	3.33
28	1.55	MAR 02	0.35	JUN 01	0.38	31	5.30
DEC 01	1.35	16	0.33	10	1.38	SEP 07	6.30
10	0.93	23	0.65	15	0.70	14	0.83
15	0.37	30	0.28	22	1.05	21	1.38
22	0.25	APR 03	0.21	29	1.49	28	0.85
29	0.23	06	0.22	JUL 06	1.81		
JAN 12, 1985	1.12	13	0.69	13	1.93		

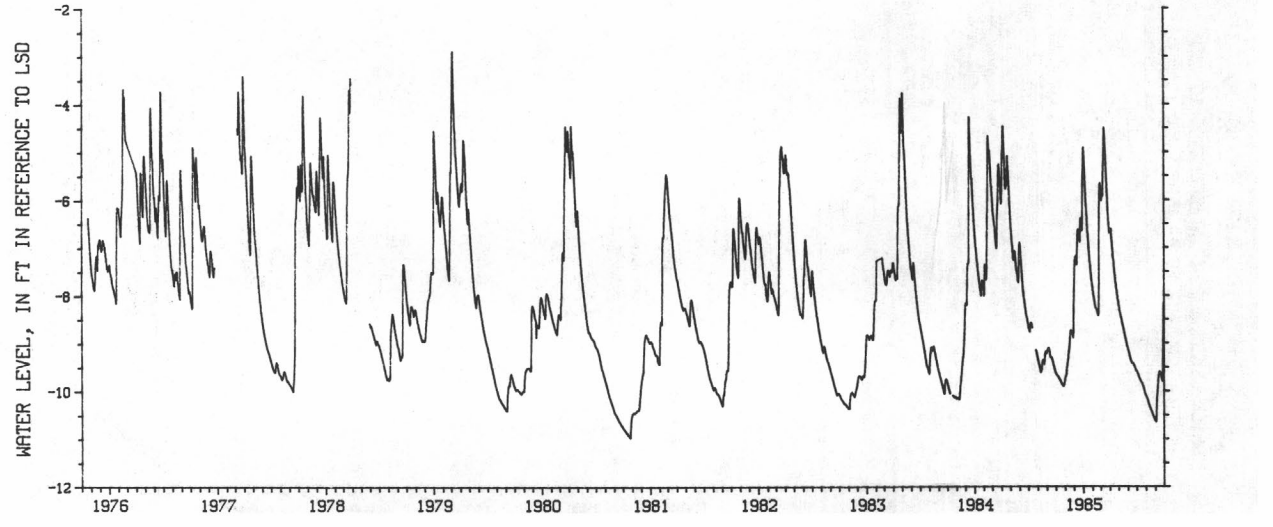


MADISON COUNTY

430056075354102. Local number, M 178.
LOCATION.--Lat 43°00'56", long 75°35'41", Hydrologic Unit 04140202, at Valley Mills.
Owner: Donald L. Greene.
AQUIFER.--Water-table aquifer in gravel of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 15.3 ft, cased to 16 ft, open end.
INSTRUMENTATION.--Digital recorder--60-minute punch.
DATUM.--Elevation of land-surface datum is 573.76 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of flange, 3.06 ft above land-surface datum.
REMARKS.--Well drilled April 1974 as a replacement for 430056075354101 (local number M 177), located 10 ft west, which has a period of record from October 1965 to September 1973 (unpublished).
PERIOD OF RECORD.--April 1975 to current year. Unpublished record for April 1975 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.60 ft below land-surface datum, Mar. 5, 1979; lowest, 10.97 ft below land-surface datum, Oct. 24, 25, 1980.
EXTREMES FOR CURRENT YEAR.--Highest water level, 4.48 ft below land-surface datum, Mar. 13; lowest, 10.65 ft below land-surface datum, Sept. 4, 5.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.63	9.73	7.92	5.24	7.82	5.73	6.68	8.18	9.11	9.59	10.10	10.62
2	9.65	9.70	7.56	4.91	7.87	5.81	6.67	8.22	9.14	9.60	10.11	10.63
3	9.66	9.69	7.38	5.01	7.92	5.95	6.69	8.26	9.16	9.62	10.12	10.64
4	9.67	9.67	7.27	5.10	7.97	6.03	6.68	8.30	9.19	9.63	10.14	10.65
5	9.67	9.64	7.22	5.26	8.01	5.93	6.61	8.34	9.21	9.65	10.15	10.59
6	9.68	9.58	7.19	5.44	8.04	5.88	6.63	8.37	9.23	9.66	10.17	10.36
7	9.69	9.51	7.25	5.56	8.09	5.94	6.74	8.39	9.26	9.68	10.19	10.21
8	9.70	9.46	7.29	5.71	8.13	5.92	6.80	8.43	9.28	9.70	10.21	10.09
9	9.71	9.41	7.36	5.87	8.17	5.63	6.88	8.46	9.31	9.72	10.23	10.00
10	9.72	9.36	7.36	6.00	8.22	5.29	6.96	8.48	9.33	9.73	10.25	9.90
11	9.74	9.31	7.18	6.10	8.25	5.18	7.03	8.51	9.36	9.74	10.27	9.79
12	9.74	9.25	6.98	6.21	8.27	4.83	7.12	8.54	9.37	9.76	10.29	9.70
13	9.76	9.19	6.75	6.31	8.28	4.50	7.19	8.57	9.39	9.77	10.31	9.65
14	9.77	9.14	6.65	6.41	8.29	4.57	7.25	8.60	9.40	9.79	10.33	9.62
15	9.77	9.09	6.63	6.53	8.30	4.70	7.31	8.63	9.41	9.80	10.35	9.60
16	9.79	9.01	6.65	6.68	8.31	4.86	7.38	8.66	9.41	9.81	10.36	9.60
17	9.81	8.90	6.68	6.74	8.33	4.95	7.47	8.68	9.42	9.82	10.38	9.61
18	9.82	8.80	6.75	6.83	8.36	5.11	7.53	8.71	9.42	9.83	10.40	9.62
19	9.83	8.75	6.81	6.91	8.38	5.26	7.59	8.74	9.43	9.84	10.41	9.64
20	9.85	8.73	6.85	7.00	8.40	5.38	7.65	8.78	9.44	9.86	10.43	9.67
21	9.86	8.74	6.88	7.10	8.43	5.56	7.71	8.81	9.46	9.88	10.44	9.69
22	9.87	8.75	6.67	7.18	8.38	5.70	7.76	8.84	9.46	9.89	10.46	9.71
23	9.88	8.76	6.45	7.26	7.76	5.82	7.81	8.87	9.48	9.91	10.48	9.74
24	9.88	8.78	6.39	7.33	6.40	5.95	7.86	8.90	9.50	9.93	10.50	9.76
25	9.89	8.81	6.46	7.39	5.88	6.09	7.91	8.93	9.51	9.96	10.51	9.78
26	9.90	8.84	6.55	7.47	5.69	6.22	7.95	8.96	9.53	9.98	10.53	9.80
27	9.88	8.87	6.61	7.54	5.66	6.32	8.01	8.99	9.55	10.01	10.54	9.70
28	9.87	8.89	6.64	7.60	5.71	6.41	8.05	9.02	9.56	10.03	10.56	8.97
29	9.85	8.79	6.48	7.66	---	6.50	8.10	9.05	9.58	10.05	10.58	8.43
30	9.81	8.33	5.69	7.72	---	6.61	8.13	9.07	9.58	10.07	10.59	8.16
31	9.76	---	5.51	7.77	---	6.70	---	9.09	---	10.09	10.61	---

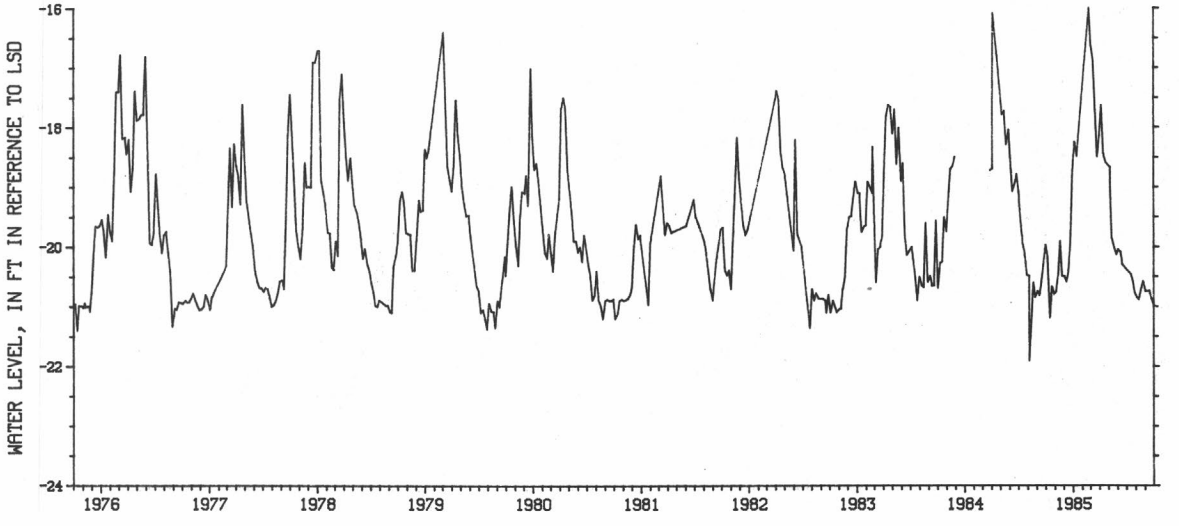


NIAGARA COUNTY

430655079022001. Local number, Ni 69.
LOCATION.--Lat 43°06'55", long 79°02'20", Hydrologic Unit 04120104, 20th Street and Beech Avenue, Niagara Falls. Owner: City of Niagara Falls.
AQUIFER.--Confined and water-table aquifer in Lockport Dolomite of Middle Silurian age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in to 6 in, depth 36 ft, cased 8 in 0 ft to 17 ft, open hole 6 in 17 ft to 36 ft.
INSTRUMENTATION.--Weekly measurement made with chalked tape by observer.
DATUM.--Elevation of land-surface datum is 596.21 ft U.S. Lake Survey datum (levels by Uhl, Hall, and Rich). Measuring point: top of 2 in opening in 6 in plug of 8 in extended casing, 3.60 ft above land-surface datum.
PERIOD OF RECORD.--October 1958 to current year. Unpublished record for October 1958 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.00 ft below land-surface datum, Feb. 25, 1985; lowest measured, 22.21 ft below land-surface datum, Aug. 3, 1959.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 16.00 ft below land-surface datum, Feb. 25; lowest measured, 21.20 ft below land-surface datum, Oct. 16.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

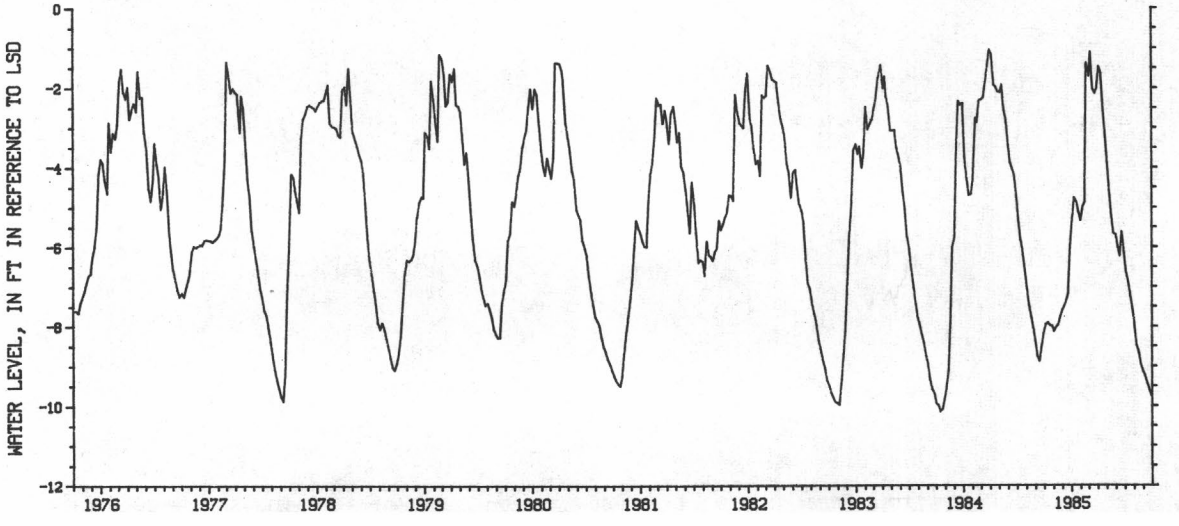
DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1984	19.97	DEC 17, 1984	20.42	APR 15, 1985	18.45	JUL 29, 1985	20.77
08	20.20	24	19.95	22	18.59	AUG 05	20.85
16	21.20	31	18.73	MAY 06	18.67	12	20.89
22	20.67	JAN 07, 1985	18.25	13	19.87	19	20.72
29	20.80	14	18.49	21	20.03	26	20.58
NOV 05	20.76	FEB 25	16.00	28	20.13	SEP 03	20.75
13	20.45	MAR 04	16.65	JUN 03	20.05	16	20.74
19	19.90	11	16.90	11	20.10	23	20.87
26	20.50	25	18.50	17	20.30	30	20.97
DEC 03	20.50	APR 01	18.15	JUL 16	20.47		
10	20.59	08	17.63	22	20.57		



431308078544501. Local number, Ni 70.
LOCATION.--Lat 43°13'08", long 78°54'45", Hydrologic Unit 04130001, near Ransomville.
Owner: Calvin C. Schultz.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Dug unused well, diameter 4 ft to 5 ft (reported), stone-lined, depth 24 ft.
INSTRUMENTATION.--Float tape read weekly by observer.
DATUM.--Elevation of land-surface datum is 336.66 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 1 in hole in steel cover, at land-surface datum.
PERIOD OF RECORD.--August 1972 to current year. Unpublished record for August 1972 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.05 ft below land-surface datum, Mar. 31, 1984; lowest measured, 10.14 ft below land-surface datum, Oct. 15, 1983.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.11 ft below land-surface datum, Mar. 9; lowest measured, 9.74 ft below land-surface datum, Sept. 28.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 06, 1984	7.95	JAN 12, 1985	4.77	APR 13, 1985	1.65	JUL 13, 1985	6.90
14	7.91	19	4.88	20	2.48	20	7.24
20	7.98	26	5.13	27	3.19	27	7.56
27	8.00	FEB 02	5.34	MAY 04	3.87	AUG 03	7.94
NOV 03	8.13	09	4.99	11	4.59	10	8.48
10	8.03	16	4.88	18	5.21	17	8.65
17	7.96	22	1.37	25	5.66	24	8.96
24	7.76	MAR 03	1.71	JUN 01	5.70	31	9.13
DEC 01	7.60	09	1.11	05	6.55	SEP 07	9.25
08	7.49	12	1.60	08	6.01	14	9.42
15	7.35	16	2.04	15	6.24	22	9.60
22	7.17	23	2.14	22	5.62	28	9.74
29	5.96	30	2.01	29	6.13		
JAN 05, 1985	5.33	APR 06	1.47	JUL 06	6.65		

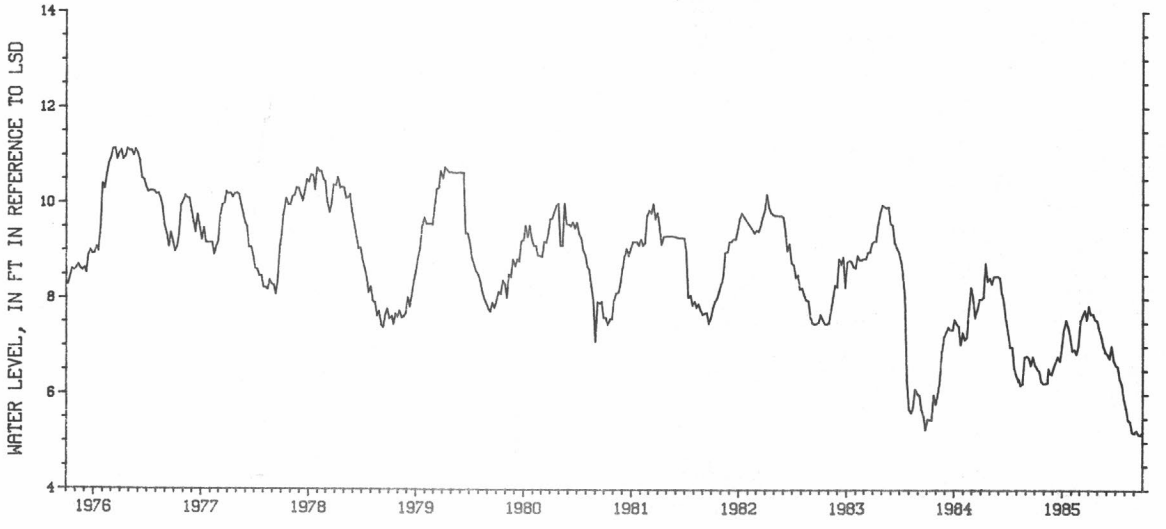


ONTARIO COUNTY

425840077133901. Local number, Ot 900.
LOCATION.--Lat 42°58'40", long 77°13'39", Hydrologic Unit 04140201, at New York State Thruway Interchange 43, near Manchester.
Owner: New York State Thruway Authority.
AQUIFER.--Confined aquifer in Camillus Shale of the Salina Group of Late Silurian age.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 139 ft, cased to 11 ft, open hole.
INSTRUMENTATION.--Float tape read weekly by observer.
DATUM.--Elevation of land-surface datum is 556.70 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of instrument shelf, 11.63 ft above land-surface datum.
PERIOD OF RECORD.--May 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 11.14 ft above land-surface datum, Mar. 15, 1976; lowest measured 4.59 ft above land-surface datum, Nov. 11, 1957.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 7.86 ft above land-surface datum, Apr. 1; lowest measured, 5.15 ft above land-surface datum, Sept. 23.

WATER LEVEL, IN FEET ABOVE LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 01, 1984	6.62	DEC 31, 1984	7.00	APR 04, 1985	7.75	JUL 08, 1985	6.58
08	6.54	JAN 07, 1985	7.37	08	7.68	15	6.33
15	6.49	14	7.56	15	7.69	22	6.22
22	6.28	21	7.42	22	7.58	29	5.92
29	6.23	28	7.21	29	7.54	AUG 05	5.72
NOV 05	6.23	FEB 04	6.91	MAY 06	7.37	12	5.48
12	6.25	11	6.94	13	7.22	19	5.44
16	6.54	18	6.85	20	7.02	26	5.22
19	6.45	25	7.03	27	6.89	SEP 02	5.19
26	6.42	MAR 04	7.55	JUN 03	6.84	09	5.25
DEC 03	6.57	11	7.66	10	6.75	16	5.17
10	6.69	18	7.77	17	7.02	23	5.15
17	6.79	25	7.57	24	6.72	30	5.21
24	6.70	APR 01	7.86	JUL 01	6.62		

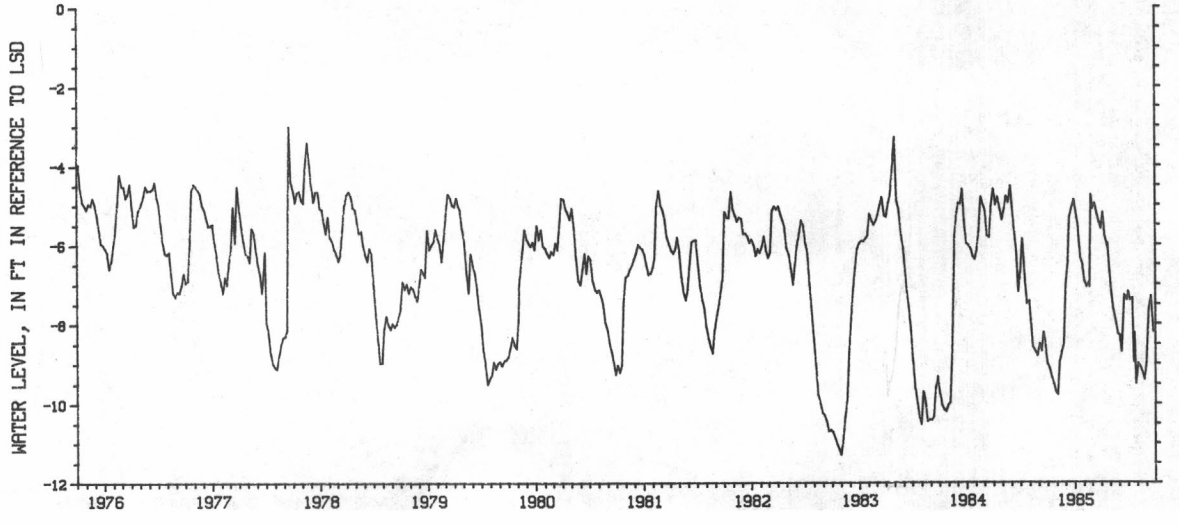


OTSEGO COUNTY

424136075025101. Local number, Og 23.
LOCATION.--Lat 42°41'36", long 75°02'51", Hydrologic Unit 02050101, at "Wild Creek Farm", 0.6 mi northeast of intersection of State Highway 205 and Kallan Road, 2.2 mi north of Hartwick, and 3.2 mi southeast of Oaksville. Owner: Thomas Kallan.
AQUIFER.--Water-table aquifer in till of Pleistocene age.
WELL CHARACTERISTICS.--Dug unused well, diameter 36 in, depth 15 ft, stone-lined.
INSTRUMENTATION.--Weekly measurement with chalked tape by observer.
DATUM.--Elevation of land-surface datum is 1,432.44 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top edge of hole drilled through concrete well cover, at land-surface datum.
PERIOD OF RECORD.--May 1953 to current year. Unpublished record for May 1953 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.98 ft below land-surface datum, Apr. 2, 1960, Sept. 19, 1977; lowest measured, 12.66 ft below land-surface datum, Nov. 14, 1964.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 4.75 ft below land-surface datum, Feb. 26; lowest measured, 9.78 ft below land-surface datum, Nov. 4.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 07, 1984	9.11	JAN 13, 1985	5.56	APR 14, 1985	5.80	JUL 15, 1985	7.35
14	9.32	21	6.36	21	6.04	21	8.97
21	9.50	28	6.52	23	5.97	23	8.23
28	9.70	FEB 03	6.93	30	6.70	28	9.50
NOV 04	9.78	10	7.07	MAY 05	7.20	AUG 04	8.99
11	8.95	17	6.97	12	7.65	11	9.08
18	8.70	20	7.07	19	7.91	20	9.26
25	8.50	26	4.75	27	8.25	25	9.40
DEC 02	7.00	MAR 03	5.10	JUN 02	8.30	SEP 01	8.98
09	6.50	10	4.97	09	8.70	09	7.60
15	5.30	17	5.22	18	7.27	16	7.30
22	5.10	25	5.45	26	7.40	24	8.20
30	4.87	31	5.60	JUL 01	7.19		
JAN 06, 1985	5.24	APR 07	5.20	07	7.40		

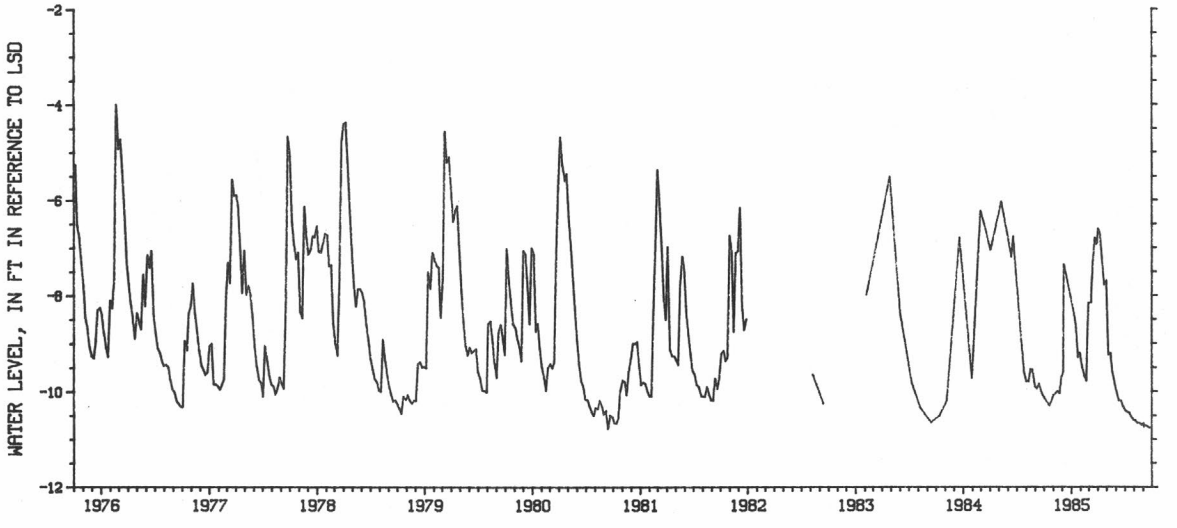


STEUBEN COUNTY

422445077203301. Local number, Sb 472.
LOCATION.--Lat 42°24'45", long 77°20'33", Hydrologic Unit 02050105, near Kanona.
Owner: David Owens.
AQUIFER.--Water-table aquifer in gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored observation well, diameter 2.5 in, depth 17 ft, filled in from original depth of 18 ft, cased to 16 ft, 1.25 in well point (60-gauze screen 16 ft to 18 ft, damaged during well installation).
INSTRUMENTATION.--Weekly measurement with chalked tape by observer.
DATUM.--Elevation of land-surface datum is 1,209.78 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.00 ft above land-surface datum.
PERIOD OF RECORD.--November 1965 to current year. Unpublished record for November 1965 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.64 ft below land-surface datum, June 25, 1972; lowest measured, 10.84 ft below land-surface datum, Sept. 22, 1966.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 6.61 ft below land-surface datum, Apr. 2; lowest measured, 10.76 ft below land-surface datum, Sept. 24.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19, 1984	10.30	FEB 07, 1985	9.50	APR 30, 1985	7.70	JUL 16, 1985	10.45
29	10.15	14	9.68	MAY 07	9.25	23	10.53
NOV 01	10.08	21	9.79	14	9.21	30	10.59
08	10.05	28	8.16	21	9.61	AUG 06	10.61
15	10.00	MAR 08	8.15	23	9.68	13	10.66
22	10.05	15	7.35	28	9.85	20	10.66
29	9.70	22	6.80	JUN 05	10.06	27	10.70
DEC 05	9.59	26	6.93	11	10.19	SEP 03	10.66
07	7.35	27	6.93	18	10.20	04	10.74
JAN 10, 1985	8.38	29	6.90	25	10.32	10	10.70
17	8.70	APR 02	6.61	26	10.31	17	10.74
24	9.30	09	6.74	JUL 02	10.40	24	10.76
30	9.20	23	7.78	09	10.43		

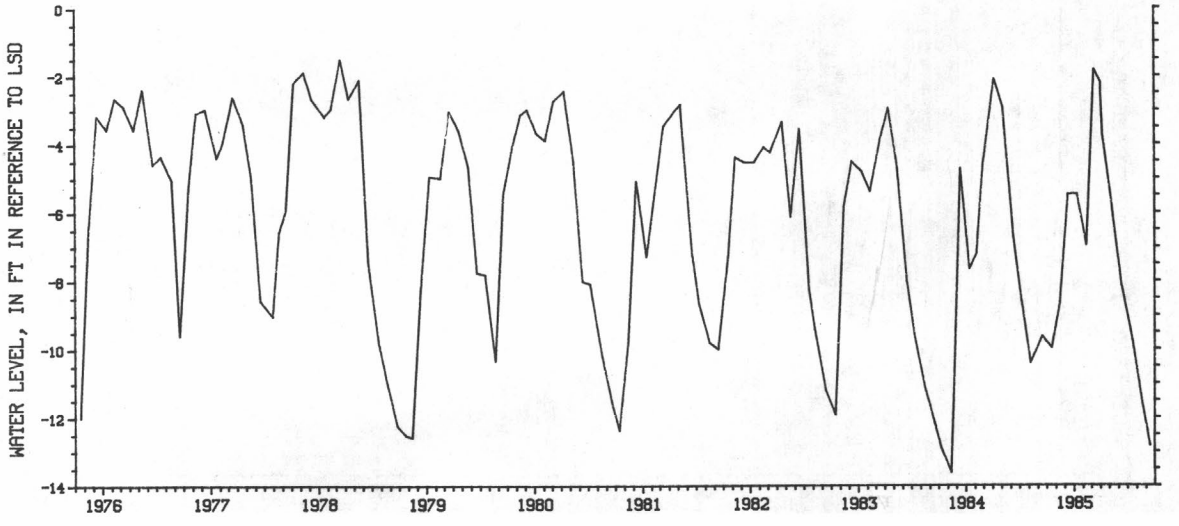


WYOMING COUNTY

423739077595501. Local number, Wo 1.
LOCATION.--Lat 42°37'39", long 77°59'55", Hydrologic Unit 04130002, Letchworth State Park, near Castile.
Owner: New York State Department of Environmental Conservation.
AQUIFER.--Water-table aquifer in till of Pleistocene age.
WELL CHARACTERISTICS.--Driven unused well, diameter 2 in, depth 14 ft, well point (60-gauze screen 12 ft to 14 ft).
INSTRUMENTATION.--Monthly measurement with chalked tape by observer.
DATUM.--Elevation of land-surface datum is 1,045.44 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of 2 in by 1 in reducing coupling, 3.33 ft above land-surface datum.
PERIOD OF RECORD.--November 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.5 ft below land-surface datum, Apr. 5, 1947; lowest measured, dry, Dec. 6-27, 1964, Jan. 2, 1965.
EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.82 ft below land-surface datum, Mar. 12; lowest measured, 13.12 ft below land-surface datum, Sept. 24.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18, 1984	9.98	FEB 13, 1985	6.97	MAY 11, 1985	5.86	SEP 15, 1985	12.84
NOV 15	8.67	MAR 12	1.82	JUN 12	8.15	24	13.12
DEC 13	5.49	APR 02	2.20	JUL 18	9.74		
JAN 12, 1985	5.47	10	3.79	AUG 20	11.59		

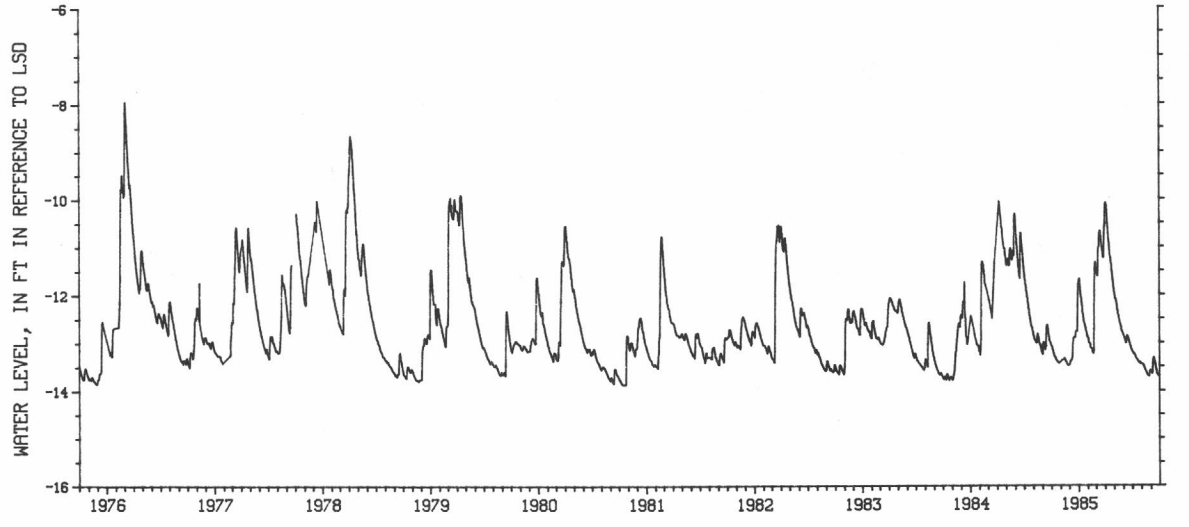


WYOMING COUNTY

423743078070802. Local number, Wo 4.
LOCATION.--Lat 42°37'43", long 78°07'08", Hydrologic Unit 04130002, near Gainesville.
Owner: Letchworth Central School.
AQUIFER.--Water-table aquifer in sand of Pleistocene age.
WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 20 ft, cased to 20 ft, open end.
INSTRUMENTATION.--Digital recorder--60-minute punch.
DATUM.--Elevation of land-surface datum is 1,606.76 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing 2.60 ft above land-surface datum.
REMARKS.--Well drilled May 1974 as a replacement for 423743078070801 (local number Wo 2), located 25 ft southeast, which has a period of record from November 1965 to May 1974 (unpublished). Missing record from Oct. 30 to Nov. 13, and May 29 to June 10 due to dead batteries.
PERIOD OF RECORD.--May 1974 to current year. Unpublished record for May 1974 to September 1976 is available in files of the Geological Survey.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.89 ft below land-surface datum, Mar. 5, 1976; lowest, 14.00 ft below land-surface datum, Nov. 3, 1974.
EXTREMES FOR CURRENT YEAR.--Highest observed water level, 10.08 ft below land-surface datum, Apr. 3; lowest, 13.72 ft below land-surface datum, Aug. 27, 28.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.08	---	13.47	11.78	12.91	11.41	10.30	11.90	---	13.19	13.46	13.59
2	13.09	---	13.47	11.72	12.91	11.47	10.12	11.96	---	13.20	13.45	13.60
3	13.09	---	13.46	11.70	12.92	11.54	10.09	12.00	---	13.21	13.45	13.62
4	13.12	---	13.42	11.68	12.92	11.58	10.12	12.05	---	13.22	13.46	13.65
5	13.14	---	13.39	11.73	12.96	11.59	10.14	12.09	---	13.23	13.47	13.65
6	13.17	---	13.39	11.80	13.02	11.59	10.18	12.11	---	13.25	13.48	13.65
7	13.20	---	13.39	11.87	13.03	11.63	10.26	12.10	---	13.25	13.48	13.66
8	13.22	---	13.39	11.94	13.03	11.42	10.33	12.13	---	13.25	13.48	13.61
9	13.24	---	13.37	12.01	13.03	11.08	10.44	12.16	---	13.25	13.49	13.47
10	13.27	---	13.35	12.06	13.07	11.02	10.54	12.20	---	13.26	13.51	13.37
11	13.29	---	13.33	12.11	13.12	11.00	10.62	12.24	13.02	13.28	13.53	13.33
12	13.31	---	13.30	12.16	13.12	10.87	10.73	12.28	12.96	13.29	13.54	13.32
13	13.31	---	13.17	12.20	13.13	10.74	10.81	12.33	12.90	13.31	13.56	13.33
14	13.32	13.34	13.04	12.26	13.14	10.68	10.88	12.37	12.87	13.34	13.57	13.36
15	13.34	13.34	12.96	12.34	13.14	10.68	10.94	12.41	12.87	13.35	13.59	13.40
16	13.35	13.36	12.92	12.41	13.14	10.71	11.02	12.44	12.88	13.36	13.60	13.43
17	13.37	13.38	12.90	12.44	13.14	10.75	11.12	12.47	12.90	13.36	13.62	13.47
18	13.38	13.38	12.90	12.49	13.21	10.82	11.18	12.51	12.92	13.36	13.63	13.50
19	13.38	13.40	12.90	12.53	13.23	10.88	11.24	12.55	12.94	13.38	13.64	13.54
20	13.40	13.41	12.90	12.58	13.23	10.95	11.26	12.58	12.97	13.39	13.66	13.57
21	13.40	13.42	12.91	12.61	13.24	11.01	11.31	12.60	12.99	13.40	13.68	13.60
22	13.42	13.43	12.88	12.63	13.19	11.06	11.37	12.62	13.01	13.41	13.69	13.62
23	13.42	13.45	12.82	12.66	12.73	11.12	11.42	12.64	13.03	13.41	13.69	13.65
24	13.43	13.47	12.78	12.68	12.03	11.16	11.48	12.67	13.06	13.43	13.70	13.67
25	13.43	13.48	12.77	12.71	11.49	11.22	11.55	12.70	13.08	13.44	13.71	13.68
26	13.44	13.48	12.77	12.75	11.35	11.24	11.61	12.74	13.09	13.44	13.71	13.69
27	13.43	13.48	12.77	12.77	11.33	11.24	11.66	12.77	13.12	13.43	13.71	13.69
28	13.43	13.49	12.77	12.80	11.36	11.07	11.73	12.78	13.14	13.42	13.72	13.68
29	13.43	13.48	12.66	12.83	---	10.79	11.78	---	13.16	13.44	13.62	13.69
30	---	13.47	12.27	12.85	---	10.66	11.84	---	13.17	13.46	13.60	13.71
31	---	---	11.92	12.88	---	10.58	---	---	---	13.46	13.60	---
MEAN	---	---	13.02	12.32	12.79	11.08	10.94	---	---	13.34	13.58	13.56
MAX	---	---	13.47	12.88	13.24	11.63	11.84	---	---	13.46	13.72	13.71
MIN	---	---	11.92	11.68	11.33	10.58	10.09	---	---	13.19	13.45	13.32



October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

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