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Water Resources Data for Pennsylvania

Part 1. Surface Water Records

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GEOLOGICAL SURVEY

Prepared in cooperation with the Pennsylvania Department of Environmental Resources and with other State, municipal, and Federal agencies

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

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SEPTEMBER

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1974

Water Resources Data for Pennsylvania

Part 1. Surface Water Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the Pennsylvania Department of Environmental Resources and with other State, muncipal, and Federal agencies

II

Prepared in cooperation with

Pennsylvania Department of Environmental Resources
Pennsylvania Department of Transportation
Chester County Water Resources Authority
City of Bethlehem
City of Easton
City of Harrisburg
City of Philadelphia
Corps of Engineers, U.S. Army

Water resources records, 1974, for Pennsylvania are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Pennsylvania
   Part 1: Surface Water Records

2. Water Resources Data for Pennsylvania
   Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
Federal Building
P. O. Box 1107
Harrisburg, Pennsylvania 17108

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WATER RESOURCES DATA FOR PENNSYLVANIA, 1974

Part 1. Surface-Water Records

INTRODUCTION

Surface-water records for the 1974 water year for Pennsylvania including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites are given in this report. Records are included for 240 streamflow discharge stations, 32 reservoir or lake stations, 99 low-flow partial-record stations, 53 crest-stage partial-record stations, and 157 miscellaneous sites. Locations of gaging stations and partial-record stations are shown in figures 3, 4, and 5. A few pertinent stations (not included above) in bordering States are also included in this report. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of Norman H. Beamer, district chief, and David Barton, district coordinator. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Pennsylvania.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records, beginning with the 1964 water year, have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, and contents and stage of lakes and reservoirs are 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 since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." More information is given under the heading "Publications" on page 13.

COOPERATION

The U.S. Geological Survey and organizations of the State of Pennsylvania have had cooperative agreements for the systematic collection of surface-water records during the periods 1919-21, and 1931 to date. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

State Department of Environmental Resources
M. K. Goddard, secretary, through the following:
Office of Resources Management
C. H. McConnell, deputy secretary; State
Soil and Water Conservation Commission,
W. N. Peechatka, director; Office of
Environmental Protection and Regulation,
W. E. Gilbertson, deputy secretary

State Department of Transportation, J. G. Kassab,
secretary, through the Bureau of Materials
Testing and Research, L. D. Sandvig, director.

Chester County Water Resources Authority
D. C. Yaeck, executive director.

City of Bethlehem, H. G. Payrow, Jr., mayor.

City of Easton, F. L. Ashton, Jr., mayor.

City of Harrisburg, H. A. Swenson, mayor.

City of Philadelphia, Water Department, C. F. Guarino,
water commissioner.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 115 gaging stations published in this report.

Assistance was also furnished by the National Weather Service, NOAA, U.S. Department of Commerce and the Delaware River Basin Commission.

The following organizations aided in collecting records:

Allegheny Power Service Corp.; Greater Johnstown Water Authority; Latrobe Municipal Authority; Manufacturers Water Co.; Municipal Authority of Westmoreland County; Municipality of Lancaster; P. H. Glatfelter Co.; Palmer Water Co.; Panther Valley Water Co.; Pennsylvania Electric Co.; Pennsylvania Power and Light Co.; Philadelphia Electric Co.; Philadelphia Suburban Water Co.; Safe Harbor Water Power Corp.; and York Water Co.

DEFINITION OF TERMS

Terms related to streamflow and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System of units (SI) on page 17.

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 1,234 cubic meters.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic meters. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimeter from 1 square kilometer.

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

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

Cubic 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 (CFS, cfs) 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, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

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

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

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

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

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

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.

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

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

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

SPECIAL NETWORKS AND PROGRAMS

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

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

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each gaging station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Gaps are left in the 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 01570500, which appears just to the left of the station name includes the 2-digit part number "01" plus the 6-digit downstream order number "570500". In this report the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (North Atlantic Slope basin), Part 3 (Ohio River basin) and Part 4 (St. Lawrence River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE-WATER DATA

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from 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 5-, 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources

Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

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

At some stream-gaging stations the stage-discharge relation is affected by 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 distrance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

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

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

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

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

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

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage

area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD". The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE". In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES". The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year", the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record": the data given are for the period of record given in PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES". Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecoridng gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS"; for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS".

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

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharge, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches

are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

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

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

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected 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.

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

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

Accuracy of data

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

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

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

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to 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 adjustements 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.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Pennsylvania for the period October 1960 to September 1965 are in Water-Supply Papers 1902, 1903, 1907 and 1912.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Pennsylvania are compiled in Water-Supply Papers 1302 and 1305 through September 1950, and in 1722 and 1725 for October 1950 to September 1960.

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

Other data available

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

Records of discharge collected by agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected at 7 sites in Pennsylvania during the 1974 water year by the Corps of Engineers, U. S. Army. Information on specific sites can be obtained from the district office of the U.S. Geological Survey at the address given on Page II of this report.

HYDROLOGIC CONDITIONS

The water year 1974 was no exception to the trend of recent years. Runoff was generally in the median or slightly below median range except in the upper reaches of the Clarion River and the West Branch Susquehanna River where runoff was somewhat above median.

No noteworthy floods occurred during the year. In the Delaware and Susquehanna River basins peak stages were experienced in December, March and August while in the Ohio River basin they occurred in May and August. As a result, lowland flooding, accompanied by the usual flooded basements, washed-out bridges, and other property damage, occurred at various sites throughout the state.

At the index station for western Pennsylvania, Oil Creek at Rouseville, streamflow was excessive during the months of December 1973 and January, May, July and September 1974 and was deficient during February 1974; at the index station for central and eastern Pennsylvania, Susquehanna River at Harrisburg, streamflow was excessive during December 1973 and January, July and September 1974. These were generally representative of the flow pattern throughout the state.

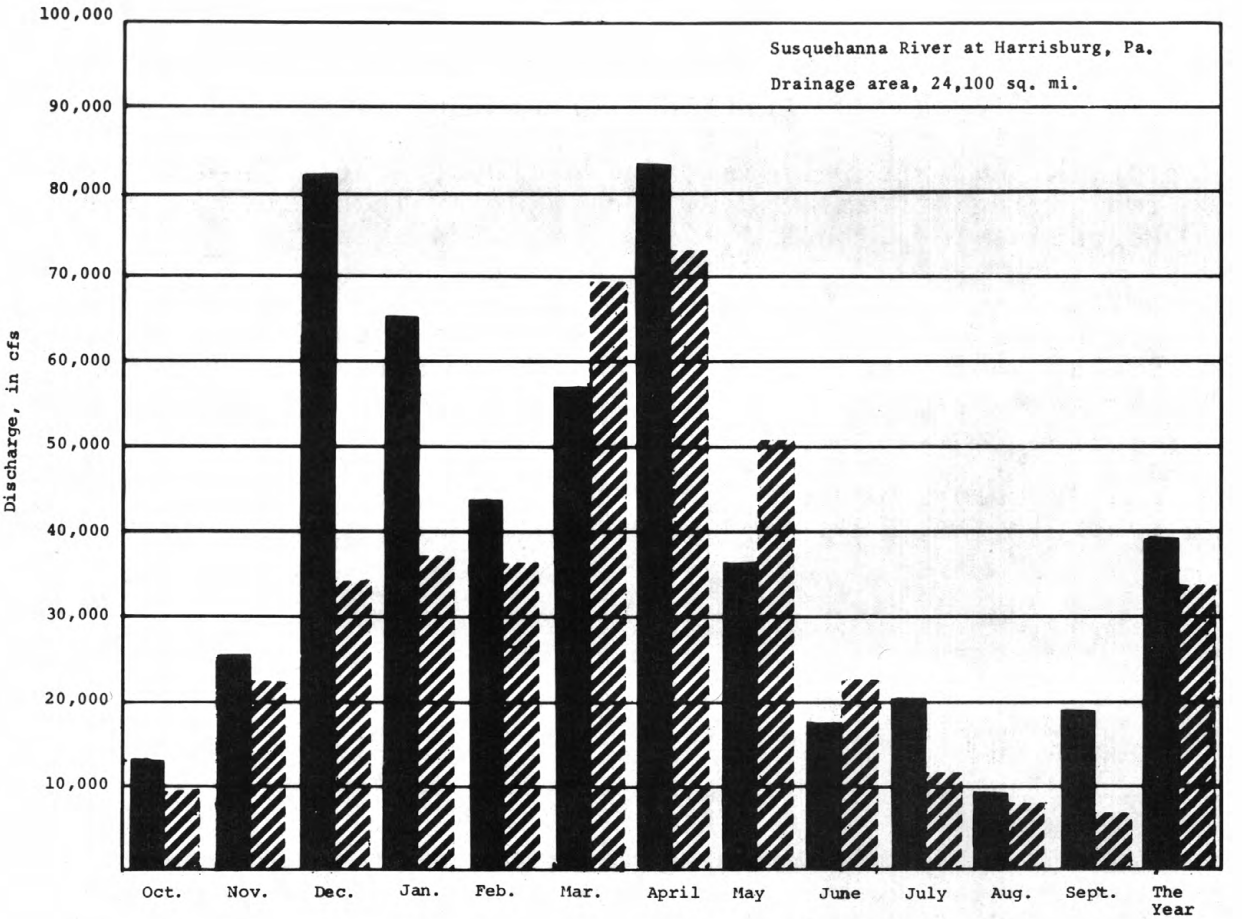
Figure 2 on page 16, for which records of two long-term gaging stations were used, shows a comparison of the monthly and yearly mean discharges for the 1974 water year with the median discharges for the standard reference period, 1931-60.

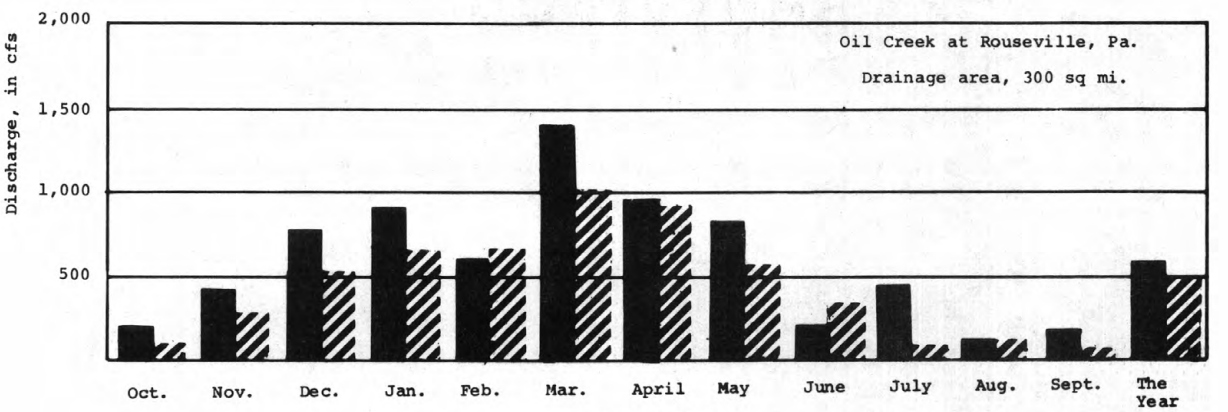
SELECTED REFERENCES

Carter, R. W., and Davidian, Jacob, 1968, General procedures for gaging streams: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. A6, 13 p.

Corbett, D. M., and others, 1943, reprinted 1957, Stream-gaging procedures, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.

Langbein, W. B., and Iseri, K. T., 1960, General Introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.





Explanation

Median of monthly and yearly mean discharge for period 1931-60.

Monthly and yearly mean discharge for 1974 water year.

Figure 2.--Comparison of discharge at two long-term representative gaging stations during 1974 water year with median discharge for period 1931-60.

Table 1.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimeters (mm)
	.0254	meters (m)
feet (ft)	.3048	meters (m)
yards (yd)	.9144	meters (m)
rods	5.0292	meters (m)
miles (mi)	1.609	kilometers (km)
	Area	
acres	4047	square meters (m^2)
	.4047	*hectares (ha)
	.4047	square hectometer (hm^2)
	.004047	square kilometers (km^2)
square miles (mi^2)	2.590	square kilometers (km^2)
	Volume	
gallons (gal)	3.785	**liters (l)
	3.785	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons (10^6 gal)	3785	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	28.32	cubic decimeters (dm^3)
	.02832	cubic meters (m^3)
cfs-day (ft^3/s-day)	2447	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1233	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)	28.32	liters per second (l/s)
	28.32	cubic decimeters per second (dm^3/s)
	.02832	cubic meters per second (m^3/s)
gallons per minute (gpm)	.06309	liters per second (l/s)
	.06309	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimeters per second (dm^3/s)
	.04381	cubic meters per second (m^3/s)
	Mass	
ton (short)	.9072	tonne (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

01428500 Delaware River above Lackawaxen River near Barryville, N.Y.

LOCATION.--Lat 41°30'32", long 74°59'13", Sullivan County, on left bank 1.6 mi (2.6 km) upstream from Lackawaxen River and 4.6 mi (7.4 km) northwest of Barryville.

DRAINAGE AREA.--2,023 mi^2 (5,240 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 600.22 ft (182.947 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 47,200 ft^3/s (1,340 m^3/s) Dec. 21 (gage height, 14.31 ft or 4.362 m); minimum, 285 ft^3/s (8.07 m^3/s) Oct. 12 (gage height, 1.93 ft or 0.588 m); minimum daily, 300 ft^3/s (8.50 m^3/s) Oct. 11.

Period of record: Maximum discharge, 130,000 ft^3/s (3,680 m^3/s) Aug. 19, 1955 (gage height, 26.40 ft or 8.047 m, from floodmarks in gage house), from rating curve extended above 55,000 ft^3/s (1,560 m^3/s) on basis of slope-area measurement at gage height 23.19 ft (7.068 m); minimum, 122 ft^3/s (3.46 m^3/s) Sept. 5, 1953 (gage height, 1.11 ft or 0.338 m); minimum daily, 126 ft^3/s (3.57 m^3/s) Sept. 4, 1953.

REMARKS.--Records good except those for winter periods, which are fair. Subsequent to September 1954, entire flow from 371 mi^2 (961 km^2) of drainage area controlled by Pepacton Reservoir (see New York Annual Report) and, subsequent to October 1963, entire flow from 454 mi^2 (1,176 km^2) of drainage area controlled by Cannonsville Reservoir (see New York Annual Report). Part of flow of these reservoirs diverted for New York City municipal supply. Remainder of flow, except for conservation releases and spill, impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Records of water quality for the current year are published in Part 2 of the New York Annual Report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	910	931	2,680	5,740	8,630	3,980	5,550	3,160	3,470	1,740	1,490	2,000
2	851	861	2,240	5,380	7,050	4,130	6,380	3,680	4,860	1,640	1,020	2,700
3	870	983	1,930	4,810	5,200	3,800	8,420	3,160	3,230	1,250	818	3,500
4	519	832	1,760	4,380	4,300	3,850	10,900	3,550	2,610	1,370	962	4,500
5	1,480	668	1,930	3,500	3,300	5,910	14,100	3,270	2,270	1,410	944	3,500
6	1,110	617	6,470	2,900	2,900	9,930	16,900	3,060	1,890	1,100	794	2,500
7	677	1,030	5,330	2,500	3,100	9,470	13,500	3,740	1,560	955	746	2,000
8	757	1,170	4,310	2,200	2,800	9,260	11,100	3,640	1,330	842	611	1,600
9	436	1,320	5,060	2,000	2,500	8,800	10,600	3,040	1,180	718	834	1,400
10	335	1,460	14,300	1,900	2,400	7,780	9,720	3,200	1,090	629	971	1,200
11	300	1,550	9,160	2,300	2,300	6,860	8,490	3,230	993	687	1,270	1,000
12	350	1,620	6,230	1,900	2,100	5,680	9,190	3,430	1,050	960	926	900
13	1,360	1,720	4,630	1,700	2,000	4,660	9,760	16,200	923	1,400	695	800
14	1,380	1,660	4,310	1,600	1,900	3,800	10,300	12,600	1,040	1,430	778	899
15	1,440	1,690	4,380	1,700	1,900	3,490	15,600	9,790	1,530	1,410	926	962
16	1,470	1,660	3,470	1,900	1,800	3,310	15,100	7,980	1,600	1,470	917	917
17	1,420	1,840	2,810	1,700	1,700	6,980	12,000	6,650	2,860	769	1,800	754
18	1,470	1,800	1,970	1,600	1,700	6,380	9,720	5,600	2,870	1,120	2,080	681
19	1,550	1,550	1,830	1,500	1,700	5,280	8,120	4,810	1,700	1,480	1,390	639
20	1,580	1,430	2,120	1,700	1,900	4,710	7,010	4,060	1,260	1,600	1,060	632
21	1,540	1,010	25,700	2,400	2,130	5,040	5,850	3,470	1,110	1,510	866	746
22	1,560	686	26,500	3,000	2,810	8,350	5,010	3,040	1,770	1,250	695	1,600
23	1,560	813	11,600	5,000	12,000	6,860	4,530	2,790	1,980	1,130	674	1,770
24	1,620	1,420	6,000	5,200	9,970	6,830	4,110	2,720	1,410	1,540	1,210	1,530
25	1,660	1,370	4,700	5,000	8,250	6,830	3,590	2,500	1,240	1,850	1,440	1,370
26	1,680	2,290	5,000	4,800	6,260	5,940	3,160	2,220	1,440	1,860	1,000	1,290
27	1,680	2,190	16,300	5,600	4,990	5,120	2,770	2,000	1,490	1,880	700	1,280
28	1,540	2,970	18,100	12,200	4,360	4,380	2,500	1,830	1,330	1,660	750	1,310
29	1,270	3,980	12,300	14,200	------	3,830	2,270	1,770	1,110	1,600	1,100	5,630
30	842	3,370	8,910	11,800	------	3,450	2,090	2,040	1,020	2,730	900	8,200
31	851	------	6,590	9,760	------	4,380	------	1,800	------	2,920	1,400	------
TOTAL	36,068	46,491	228,620	131,870	111,950	179,070	248,340	134,030	53,216	43,910	31,767	57,810
MEAN	1,163	1,550	7,375	4,254	3,998	5,776	8,278	4,324	1,774	1,416	1,025	1,927
MAX	1,680	3,980	26,500	14,200	12,000	9,930	16,900	16,200	4,860	2,920	2,080	8,200
MIN	300	617	1,760	1,500	1,700	3,310	2,090	1,770	923	629	611	632
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 1,602,953 MEAN 4,392 MAX 54,500 MIN 300 CFSM - IN. -
WTR YR 1974 TOTAL 1,303,142 MEAN 3,570 MAX 26,500 MIN 300 CFSM - IN. -

01429000 West Branch Lackawaxen River at Prompton, Pa.

LOCATION.--Lat 41°35'14", long 75°19'38", Wayne County, on right bank 500 ft (150 m) downstream from Prompton Lake, 1,500 ft (460 m) upstream from bridge on U.S. Highway 6 at Prompton, and 2,000 ft (610 m) upstream from VanAuken Creek.

DRAINAGE AREA.--59.7 mi^2 (154.6 km^2).

PERIOD OF RECORD.--August 1944 to current year. Prior to October 1952, published as Lackawaxen River at Prompton.

GAGE.--Water-stage recorder. Datum of gage is 1,083.78 ft (330.336 m) above mean sea level.

AVERAGE DISCHARGE.--30 years, 107 ft^3/s (3.03 m^3/s), 24.34 in/yr (618 mm/yr), adjusted for storage since January 1961.

EXTREMES.--Current year: Maximum discharge, 800 ft^3/s (22.7 m^3/s) Apr. 5 (gage height, 3.34 ft or 1.018 m); minimum, 17 ft^3/s (0.48 m^3/s) Aug. 25, 26, 27, 28, 29 (gage height, 1.12 ft or 0.341 m).
Period of record: Maximum discharge, 5,860 ft^3/s (166 m^3/s) Aug. 18, 1955 (gage height, 9.24 ft or 2.816 m), from rating curve extended above 3,600 ft^3/s (102 m^3/s); no flow July 26 to Aug. 25, 1960, result of construction work upstream.
Flood of May 23, 1942, reached a stage of 16.7 ft (5.09 m) from floodmark.

REMARKS.--Records good. Flow regulated by Prompton Lake 500 ft (150 m) upstream (see p. 93). Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1432: 1948-49. WRD Penna. 1971: 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	63	128	230	313	121	128	100	113	97	95	30
2	26	58	106	205	248	121	144	111	150	104	75	260
3	27	53	90	176	202	116	230	109	123	89	61	220
4	28	50	78	153	170	116	620	126	100	233	55	290
5	29	47	100	134	141	197	764	118	81	189	51	170
6	29	45	250	121	123	279	702	109	70	150	45	120
7	28	43	190	109	113	267	505	106	58	116	40	100
8	27	41	160	97	104	248	373	97	52	91	37	88
9	26	39	400	87	91	252	318	87	46	75	32	76
10	25	35	660	79	85	256	275	100	44	65	30	68
11	24	32	390	83	79	236	244	106	41	55	28	60
12	24	31	260	91	73	202	275	141	41	48	27	50
13	23	30	220	87	68	167	296	547	39	42	25	45
14	23	30	200	77	65	141	296	468	35	38	22	52
15	23	30	189	72	61	126	437	345	34	37	20	51
16	23	40	173	72	57	118	412	256	38	35	18	48
17	22	54	153	73	52	167	336	195	56	33	18	45
18	22	55	134	73	51	173	267	158	56	30	19	41
19	22	52	123	68	49	164	222	131	51	28	20	38
20	22	49	111	68	51	158	189	111	45	30	20	34
21	22	45	102	70	55	187	161	95	44	31	19	34
22	22	44	161	108	98	305	139	91	60	29	18	35
23	22	42	650	144	359	263	123	85	58	28	18	35
24	22	44	410	179	296	240	111	75	52	30	18	35
25	22	82	230	176	233	205	100	66	48	45	18	34
26	22	136	330	161	183	173	89	58	49	46	17	32
27	22	144	720	234	153	155	81	52	51	45	17	30
28	21	176	570	521	134	136	73	48	51	42	17	37
29	24	192	448	652	------	121	70	46	49	39	18	139
30	54	158	359	510	------	111	70	52	49	98	23	156
31	66	------	280	378	------	116	------	54	------	118	31	------
TOTAL	820	1,940	8,375	5,288	3,707	5,637	8,050	4,243	1,784	2,136	952	2,453
MEAN	26.5	64.7	270	171	132	182	268	137	59.5	68.9	30.7	81.8
MAX	66	192	720	652	359	305	764	547	150	233	95	290
MIN	21	30	78	68	49	111	70	46	34	28	17	30
MEAN≠	28.0	68.6	284	168	121	182	264	135	62.9	70.0	26.5	95.2
CFSM≠	.47	1.15	4.76	2.81	2.03	3.05	4.42	2.26	1.05	1.17	.44	1.59
IN.≠	.54	1.28	5.49	3.24	2.11	3.52	4.93	2.61	1.17	1.35	.51	1.77

CAL YR 1973 TOTAL 52,751 MEAN 145 MAX 2,340 MIN 21 MEAN≠ 146 CFSM≠ 2.45 IN.≠ 32.98
WTR YR 1974 TOTAL 45,385 MEAN 124 MAX 764 MIN 17 MEAN≠ 125 CFSM≠ 2.09 IN.≠ 28.52

≠ Adjusted for change in contents in Prompton Lake.

01429500 Dyberry Creek near Honesdale, Pa.

LOCATION.--Lat 41°36'26", long 75°16'03", Wayne County, on right bank 180 ft (55 m) upstream from unnamed tributary 1,700 ft (518 m) downstream from General Edgar Jadwin Reservoir, 2.1 mi (3.4 km) north of Honesdale, and 2.6 mi (4.2 km) upstream from mouth.

DRAINAGE AREA.--64.6 mi^2 (167.3 km^2).

PERIOD OF RECORD.--October 1943 to current year. Published as "at Dyberry" October 1943 to September 1959 and as "near Dyberry" October 1959 to September 1961.

GAGE.--Water-stage recorder. Datum of gage is 970.70 ft (295.869 m) above mean sea level. Prior to Oct. 1, 1957, nonrecording gage at site 1.9 mi (3.1 km) upstream at datum 13.70 ft (4.176 m) higher.

AVERAGE DISCHARGE.--31 years, 111 ft^3/s (3.14 m^3/s), 23.33 in/yr (593 mm/yr), adjusted for storage since October 1959.

EXTREMES.--Current year: Maximum discharge, 1,540 ft^3/s (43.6 m^3/s) Dec. 21 (gage height, 5.67 ft or 1.728 m); minimum, 9.6 ft^3/s (0.27 m^3/s) Jan. 8 (gage height, 1.23 ft or 0.375 m), result of shutoff.
Period of record: Maximum discharge, 15,500 ft^3/s (439 m^3/s) July 10, 1952 (gage height, 14.6 ft or 4.45 m, site and datum then in use), from rating curve extended above 2,500 ft^3/s (71 m^3/s) on basis of slope-area measurement at gage height, 13.78 ft (4,200 m), site and datum then in use; no flow Oct. 2, 3, 1968 (result of shutoff at General Edgar Jadwin Reservoir).
Flood of May 23, 1942, reached a stage of 15.86 ft (4.834 m), site and datum then in use, from floodmarks.

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

REVISIONS (WATER YEARS).--WSP 1382: 1947(M), 1950(M), 1951-53.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	41	87	212	291	108	204	156	191	120	50	39
2	34	45	72	172	219	111	245	114	211	73	35	125
3	36	31	69	143	172	96	432	112	122	43	31	116
4	31	25	65	128	134	134	924	142	69	127	31	309
5	34	22	153	97	120	290	841	103	56	80	35	137
6	41	20	341	86	100	340	725	95	48	46	27	69
7	32	20	153	76	92	241	436	120	42	36	22	56
8	27	20	112	68	84	219	297	95	37	30	19	48
9	27	17	359	62	78	265	288	88	36	25	17	39
10	49	17	883	60	70	239	283	143	34	22	29	34
11	36	16	410	64	64	186	262	138	32	19	22	29
12	30	17	226	72	58	149	343	207	30	17	17	31
13	25	16	162	66	54	118	308	1,070	28	16	15	30
14	26	16	184	60	50	102	266	621	24	14	14	37
15	24	17	162	56	48	94	651	339	29	20	12	34
16	30	34	118	56	46	125	469	239	30	19	11	29
17	27	41	90	56	43	307	301	175	39	15	20	23
18	24	31	84	54	40	174	210	126	31	13	32	22
19	20	27	80	52	39	152	176	100	25	18	18	22
20	23	24	78	56	42	149	154	91	23	19	14	21
21	17	23	948	76	48	283	131	78	30	14	12	25
22	14	24	1,140	130	160	543	119	67	65	12	14	36
23	13	24	482	200	714	314	115	66	38	11	22	28
24	13	27	289	216	336	229	100	62	31	34	25	22
25	12	120	194	164	180	161	89	54	32	66	18	20
26	12	116	231	131	128	136	79	48	44	37	17	19
27	12	100	925	325	110	130	71	44	48	42	17	18
28	12	209	864	779	97	113	66	41	36	31	17	53
29	17	164	510	831	------	92	61	54	35	23	22	299
30	92	106	373	519	------	101	63	72	37	129	39	174
31	47	------	271	345	------	159	------	51	------	116	62	------
TOTAL	859	1,410	10,115	5,412	3,617	5,860	8,709	4,911	1,533	1,287	736	1,944
MEAN	27.7	47.0	326	175	129	189	290	158	51.1	41.5	23.7	64.8
MAX	92	209	1,140	831	714	543	924	1,070	211	129	62	309
MIN	12	16	65	52	39	92	61	41	23	11	11	18
MEAN≠	27.7	47.0	326	176	128	189	290	158	51.1	41.5	23.7	64.8
CFSM≠	.43	.73	5.05	2.72	1.98	2.93	4.49	2.45	.79	.64	.37	1.00
IN.≠	.50	.81	5.82	3.14	2.06	3.38	5.01	2.82	.88	.74	.43	1.12

CAL YR 1973 TOTAL 57,959 MEAN 159 MAX 1,850 MIN 12 MEAN≠ 159 CFSM≠ 2.46 IN.≠ 33.29
WTR YR 1974 TOTAL 46,393 MEAN 127 MAX 1,140 MIN 11 MEAN≠ 127 CFSM≠ 1.97 IN.≠ 26.71

≠ Adjusted for change in contents in General Edgar Jadwin Reservoir.

01431500 Lackawaxen River at Hawley, Pa.

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, on left bank at Church Street Bridge in Hawley, 700 ft (213 m) upstream from Wallenpaupack Creek, and 3,000 ft (914 m) downstream from Middle Creek.

DRAINAGE AREA.--290 mi^2 (751 km^2).

PERIOD OF RECORD.--July 1908 to September 1917, August 1938 to current year. Monthly discharge only for some periods, published in WSP 1302. October 1917 to December 1919 (gage heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania.

GAGE.--Nonrecording gage, water-stage recorder, and crest-stage gage. Datum of gage is 869.00 ft (264.871 m) above mean sea level. Prior to 1938, nonrecording gage at same site and datum. August 10, 1938 to August 19, 1955, water-stage recorder and August 20, 1955 to February 13, 1956, nonrecording gage at site 1,000 ft (300 m) downstream at same datum.

AVERAGE DISCHARGE.--45 years (1908-17, 1938-74), 477 ft^3/s (13.5 m^3/s), 22.34 in/yr (567 mm/yr), adjusted for storage since October 1959.

EXTREMES.--Current year: Maximum discharge, 5,580 ft^3/s (158 m^3/s) Dec. 21 (gage height, 7.52 ft or 2.292 m); minimum observed, 56 ft^3/s (1.59 m^3/s) Aug. 23 (gage height, 1.50 ft or 0.457 m).

Period of record: Maximum discharge, 51,900 ft^3/s (1,470 m^3/s) Aug. 19, 1955 (gage height, 24.8 ft or 7.56 m at present site, 20.6 ft or 6.28 m at former site, from floodmark), from rating curve extended above 12,000 ft^3/s (340 m^3/s) on basis of slope-area measurement at gage height, 24.2 ft (7.38 m), at present site, 20.1 ft (6.13 m) at former site; minimum daily, 8 ft^3/s (0.23 m^3/s) Sept. 8, 1909.

Flood in March 1936 reached a stage of 19.1 ft (5.82 m) at present site, 13.9 ft (4.24 m), at former site, from floodmarks (discharge, 27,600 ft^3/s or 782 m^3/s).

REMARKS.--Records good except those for winter periods, which are fair. Regulation by Prompton Lake and, at high flow, by General Edgar Jadwin Lake located 14.9 mi (24.0 km) and 13.0 mi (20.9 km) upstream, respectively (see p. 93). Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1951: 1938-41. WSP 1302: 1909-17. WSP 1432: 1942. WSP 1502: 1956.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	273	501	1,130	1,370	468	877	478	563	429	230	289
2	112	254	418	913	1,090	504	1,160	449	640	349	181	1,290
3	127	218	375	765	870	468	2,070	424	454	242	160	1,070
4	127	191	355	682	660	499	3,710	536	322	420	154	1,490
5	170	170	516	558	540	863	3,560	434	268	383	174	828
6	173	158	1,250	500	490	1,110	3,170	388	230	279	150	468
7	146	151	866	440	460	928	2,070	444	202	230	126	401
8	129	142	643	390	440	856	1,490	392	184	191	114	330
9	121	136	1,750	370	400	1,120	1,630	354	174	165	105	262
10	131	129	3,870	350	380	1,260	1,670	504	165	141	109	224
11	127	125	2,020	360	340	1,070	1,380	520	154	122	102	199
12	114	125	1,230	400	310	828	1,540	928	152	109	90	184
13	108	125	901	380	280	629	1,350	3,430	143	102	85	176
14	101	123	866	350	260	536	1,200	2,100	133	95	82	184
15	101	123	806	320	260	494	2,530	1,350	131	95	74	179
16	99	165	619	310	240	580	1,870	965	150	97	70	158
17	99	204	480	320	220	1,350	1,290	739	186	88	80	150
18	98	191	450	310	210	935	996	585	176	83	129	141
19	98	173	420	290	210	800	842	478	152	85	93	131
20	99	158	400	300	220	793	746	397	139	85	72	122
21	101	148	3,600	400	260	1,440	629	345	139	82	65	129
22	96	146	3,880	660	700	2,430	558	307	202	79	59	165
23	91	142	2,290	1,100	2,300	1,520	514	300	184	74	68	145
24	89	142	1,490	1,250	1,300	1,130	463	293	158	109	92	126
25	86	340	1,090	996	860	870	411	258	154	181	76	114
26	86	511	1,120	807	620	720	370	233	172	150	68	107
27	86	440	3,640	1,740	500	646	333	219	179	145	64	104
28	83	793	4,120	3,190	460	574	307	207	165	141	70	131
29	108	887	2,780	3,710	------	514	286	210	156	118	79	707
30	590	631	1,930	2,490	------	499	275	265	163	326	296	700
31	388	------	1,430	1,730	------	670	------	233	------	354	314	------
TOTAL	4,194	7,514	46,106	27,511	16,250	27,104	39,297	18,765	6,390	5,549	3,631	10,704
MEAN	135	250	1,487	887	580	874	1,310	605	213	179	117	357
MAX	590	887	4,120	3,710	2,300	2,430	3,710	3,430	640	429	314	1,490
MIN	83	123	355	290	210	468	275	207	131	74	59	104
MEAN≠	136	254	1,501	884	568	874	1,306	603	216	180	113	370
CFSM≠	.47	.88	5.18	3.05	1.96	3.01	4.50	2.08	.74	.62	.39	1.28
IN.≠	.54	.98	5.97	3.52	2.04	3.47	5.02	2.40	.83	.72	.45	1.43

CAL YR 1973 TOTAL 245,150 MEAN 672 MAX 10,300 MIN 83 MEAN≠ 672 CFSM≠ 2.32 IN.≠ 31.44
WTR YR 1974 TOTAL 213,015 MEAN 584 MAX 4,120 MIN 59 MEAN≠ 585 CFSM≠ 2.02 IN.≠ 27.37

≠ Adjusted for change in contents in Prompton Lake and General Edgar Jadwin Reservoir.

01432000 Wallenpaupack Creek at Wilsonville, Pa.

LOCATION.--At hydroelectric plant of Pennsylvania Power and Light Co., at lower end of penstock, at Kimble, 3 mi (5 km) east of dam which is at lat 41°27'33", long 75°11'08", Pike County, at Wilsonville, 1.2 mi (1.9 km) south of Hawley.

DRAINAGE AREA.--228 sq mi (591 sq km).

PERIOD OF RECORD.--October 1909 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Daily discharge determined from flow through turbines, computed from records of generator output, and flow over roller gates, computed on basis of head on gates. Prior to Nov. 3, 1925, nonrecording gage at site 1,000 ft (300 m) downstream from dam at datum 1,146.78 ft (349.539 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--65 years, 360 ft^3/s (10.2 m^3/s), 21.44 in/yr (545 mm/yr), unadjusted.

EXTREMES.--Period of record: Maximum daily discharge, 6,440 ft^3/s (183 m^3/s) June 30, 1973; no flow at times each year subsequent to Nov. 3, 1925.

REMARKS.--Records good. No flow over spillway or roller gates. Flow regulated by Lake Wallenpaupack (see p. 93).

COOPERATION.--Records of generator load, operation of powerplant, net operating head, and water-surface elevations in lake furnished by Pennsylvania Power and Light Co., in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1918, 1923-24. WSP 1432: 1920-21. The mean discharge for September 1966 has been corrected to 141 ft^3/s (3.99 m^3/s), superseding figure published in WRD Penna. 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	1,760	969	810	972	33	0	0	606	0
2	0	0	0	1,760	913	727	1,040	0	0	0	594	0
3	0	13	0	1,760	682	0	80	0	0	676	28	826
4	978	0	0	1,720	976	810	0	0	722	0	0	948
5	1,040	0	0	690	965	804	13	0	730	0	0	1,020
6	127	0	0	216	976	812	0	0	819	0	0	1,210
7	0	0	0	918	1,010	766	0	0	715	0	0	1,770
8	893	0	0	940	986	831	0	0	0	972	0	1,780
9	914	0	0	962	952	716	928	0	0	950	0	1,760
10	911	0	0	926	656	0	926	20	1,210	478	0	978
11	525	0	0	975	942	775	956	0	702	0	0	981
12	870	0	0	707	985	938	0	0	0	64	598	946
13	726	0	0	226	989	1,000	0	96	0	25	616	817
14	132	0	0	954	951	918	0	0	0	52	639	0
15	0	0	0	1,020	962	954	48	0	0	966	606	0
16	49	0	0	1,020	978	807	927	88	0	0	587	714
17	0	0	0	969	692	0	955	833	0	0	0	714
18	0	0	179	1,020	1,010	930	1,080	0	0	0	0	680
19	0	0	0	789	1,010	955	1,340	0	0	246	643	725
20	0	0	0	353	1,020	969	0	0	310	11	615	732
21	0	0	973	948	948	1,050	39	0	0	0	609	0
22	0	0	1,760	955	1,000	978	0	683	0	0	590	0
23	0	0	1,790	996	674	844	0	450	0	10	597	808
24	0	0	1,680	966	0	20	0	339	0	0	0	711
25	0	0	934	1,020	828	1,110	0	0	0	0	0	724
26	0	0	973	884	858	949	0	0	0	0	667	0
27	0	26	1,210	698	826	957	0	0	410	0	669	0
28	34	19	1,780	953	780	968	0	0	1,290	0	440	0
29	18	0	1,780	959	------	1,150	227	0	0	0	0	0
30	0	0	1,800	968	------	778	635	362	0	0	0	772
31	9.2	------	1,780	988	------	0	------	370	------	605	0	------
TOTAL	7,226.2	58	16,639	30,020	24,538	23,326	10,166	3,274	6,908	5,055	9,104	19,616
MEAN	233	1.93	537	968	876	752	339	106	230	163	294	654
MAX	1,040	26	1,800	1,760	1,020	1,150	1,340	833	1,290	972	669	1,780
MIN	0	0	0	216	0	0	0	0	0	0	0	0
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 175,934.50 MEAN 482 MAX 6,440 MIN 0 CFSM - IN. -
WTR YR 1974 TOTAL 155,930.20 MEAN 427 MAX 1,800 MIN 0 CFSM - IN. -

01434000 Delaware River at Port Jervis, N. Y.

LOCATION.--Lat 41°22'14", long 74°41'52", Pike County, Pa., on right bank 250 ft (76 m) downstream from bridge on U.S. Highways 6 and 209 at Port Jervis, 1.2 mi (1.9 km) upstream from Neversink River, and 6.5 mi (10.5 km) downstream from Mongaup River.

DRAINAGE AREA.--3,076 mi^2 (7,967 km^2).

PERIOD OF RECORD.--October 1904 to current year.

GAGE.--Water-stage recorder. Datum of gage is 415.35 ft (126.599 m) above mean sea level. Prior to Aug 13, 1928, nonrecording gages at highway bridge 250 ft (76 m) upstream at present datum (operated by U.S. Weather Bureau October 1904 to June 20, 1914).

EXTREMES.--Current year: Maximum discharge, 68,800 ft^3/s (1,950 m^3/s) Dec. 21 (gage height, 13.07 ft or 3.984 m); minimum, 830 ft^3/s (23.5 m^3/s) Oct. 12 (gage height, 1.80 ft or 0.549 m); minimum daily, 1,070 ft^3/s (30.3 m^3/s) Aug. 9.

Period of record: Maximum discharge, 233,000 ft^3/s (6,600 m^3/s) Aug. 19, 1955 (gage height, 23.91 ft or 7.288 m, from floodmarks in gage house), from rating curve extended above 89,000 ft^3/s (2,520 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 175 ft^3/s (4.96 m^3/s) Sept. 23, 1908 (gage height, 0.6 ft or 0.18 m).

Maximum discharge previously known, 205,000 ft^3/s (5,810 m^3/s) Oct. 10, 1903 (gage height, 23.1 ft or 7.04 m, reported by U.S. Weather Bureau), from rating curve extended above 70,000 ft^3/s (1,980 m^3/s) by velocity-area studies; maximum stage known, 25.5 ft (7.77 m) Mar. 8, 1904 (ice jam).

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Lake Wallenpaupack (see p. 93) and by Toronto, Cliff Lake, and Swinging Bridge Reservoirs (see New York Annual Report) and smaller reservoirs. Large diurnal fluctuations at medium and low flows caused by powerplants on tributary streams. Subsequent to September 1954, entire flow from 371 mi^2 (961 km^2) of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 mi^2 (1,176 km^2) of drainage area controlled by Cannonsville Reservoir (see New York Annual Report). Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow, except for conservation releases and spill, impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Records of water quality for the current year are published in Part 2 of the New York Annual Report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1013: 1905-36. WRD Penna. 1971: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,450	2,130	4,480	11,800	13,300	6,470	8,650	4,320	4,190	2,660	3,700	2,850
2	1,600	1,830	3,790	10,800	11,400	6,340	10,300	5,150	6,910	3,080	2,770	5,810
3	1,870	1,740	3,400	9,530	9,710	5,920	12,300	4,570	5,070	2,590	2,360	7,410
4	1,680	1,720	3,040	8,630	8,800	5,860	15,900	5,020	4,210	2,690	1,950	10,100
5	3,340	1,530	3,290	7,100	8,130	7,850	18,700	4,790	4,200	2,690	1,890	10,100
6	3,010	1,310	8,090	6,090	6,830	12,400	22,100	4,410	3,680	2,120	1,890	6,800
7	1,580	1,560	9,710	6,120	6,000	12,100	18,500	5,040	3,430	1,650	1,580	6,260
8	1,780	1,850	7,100	5,800	5,800	11,700	14,800	5,260	3,030	1,920	1,350	6,090
9	2,420	1,960	6,940	5,020	5,400	11,700	15,200	4,500	2,240	2,840	1,070	5,430
10	2,290	2,040	20,200	4,900	4,900	10,600	15,300	4,630	2,520	2,620	1,180	4,540
11	1,720	2,070	14,900	5,000	4,300	9,760	13,100	5,150	2,930	1,670	1,430	3,630
12	1,360	2,050	10,400	5,400	4,500	8,400	12,700	4,730	2,580	1,260	1,580	3,300
13	2,330	2,250	8,090	4,900	4,400	7,560	12,600	19,400	1,920	1,850	1,710	3,290
14	2,290	2,310	7,850	4,400	4,600	6,120	13,100	17,300	1,310	1,720	1,880	2,280
15	1,920	2,210	7,850	4,200	4,500	5,870	18,000	13,200	1,760	1,890	1,970	2,020
16	1,830	2,250	6,530	4,300	4,400	5,600	19,500	10,800	2,910	2,840	1,760	2,340
17	1,810	2,360	5,660	4,600	3,700	9,670	16,100	9,530	4,480	1,280	2,080	2,290
18	1,830	2,380	4,730	4,800	3,800	9,700	13,500	8,000	4,910	1,330	3,030	2,220
19	1,830	2,310	4,200	4,400	4,070	8,570	11,900	6,380	3,070	1,940	2,560	2,210
20	1,900	2,170	3,760	4,200	4,480	7,760	10,200	5,710	2,410	2,200	2,760	2,130
21	1,890	2,070	34,300	4,410	4,270	7,990	8,300	5,000	2,130	1,740	2,220	1,620
22	2,040	1,320	45,100	6,870	5,160	13,900	7,260	4,490	2,420	1,800	2,120	1,980
23	2,290	1,340	21,600	8,970	16,000	11,600	6,480	5,010	2,780	1,640	1,870	2,940
24	2,420	1,850	15,300	9,310	14,100	9,950	5,860	4,340	2,440	1,880	1,820	2,860
25	2,020	2,170	10,300	8,970	11,900	10,100	5,500	3,940	1,880	2,170	1,760	2,520
26	1,940	3,370	9,580	8,220	9,570	9,370	4,960	3,280	2,120	2,170	1,760	2,200
27	1,960	3,620	21,100	8,760	7,940	8,310	4,520	3,160	2,360	2,130	2,040	1,820
28	1,870	4,350	28,700	18,300	6,980	7,360	4,110	2,860	3,370	2,090	1,820	1,950
29	2,270	6,270	22,000	20,800	------	6,950	3,730	2,800	2,710	2,530	2,120	5,930
30	3,010	5,520	16,600	18,100	------	6,420	3,030	3,290	1,640	4,970	1,910	11,100
31	2,500	------	13,300	15,000	------	6,810	------	3,270	------	5,310	2,730	------
TOTAL	64,050	71,910	381,890	249,700	198,940	268,710	346,200	189,330	91,610	71,270	62,670	126,020
MEAN	2,066	2,397	12,320	8,055	7,105	8,668	11,540	6,107	3,054	2,299	2,022	4,201
MAX	3,340	6,270	45,100	20,800	16,000	13,900	22,100	19,400	6,910	5,310	3,700	11,100
MIN	1,360	1,310	3,040	4,200	3,700	5,600	3,030	2,800	1,310	1,260	1,070	1,620
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 2,493,550 MEAN 6,832 MAX 78,300 MIN 1,160 CFSM - IN. -
WTR YR 1974 TOTAL 2,122,300 MEAN 5,815 MAX 45,100 MIN 1,070 CFSM - IN. -

01438500 Delaware River at Montague, N. J.

LOCATION.--Lat 41°18'30", long 74°47'50", Sussex County, N. J., on right bank 0.4 mi (0.6 km) upstream from toll bridge at Montague, 0.8 mi (1.3 km) downstream from Saw Kill, and at mile 246.3 (396.3 km).

DRAINAGE AREA.--3,480 mi^2 (9,013 km^2).

PERIOD OF RECORD.--March 1936 to September 1939 (gage heights only, published as "at Milford, Pa."), October 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 369.93 ft (112.755 m) above mean sea level. Prior to Feb. 9, 1940, nonrecording gage on upstream side of left span of subsequently dismantled bridge at present site at datum 70 ft (21.3 m) lower.

AVERAGE DISCHARGE.--35 years, 5,846 ft^3/s (165.6 m^3/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 77,000 ft^3/s (2,180 m^3/s) Dec. 21 (gage height, 19.33 ft or 5.892 m); minimum, 1,110 ft^3/s (31.4 m^3/s) Aug. 9; minimum daily, 1,280 ft^3/s (36.2 m^3/s) Aug. 9.
Period of record: Maximum discharge, 250,000 ft^3/s (7,080 m^3/s) Aug. 19, 1955 (gage height, 35.15 ft or 10.714 m), from rating curve extended above 90,000 ft^3/s (2,550 m^3/s) on basis of flood-routing study; minimum, 382 ft^3/s (10.8 m^3/s) Aug. 24, 1954 (gage height, 3.83 ft or 1.167 m); minimum daily, 412 ft^3/s (11.7 m^3/s) Aug. 23, 1954.
Maximum stage during period 1903-74, 35.5 ft (10.82 m) Oct. 10, 1903, present datum, from floodmark.

REMARKS.--Records excellent. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack (see p. 93) and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see New Jersey Annual Report) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see New Jersey Annual Report). Records of water quality for the current year are published in Part 2 of the New Jersey Annual Report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,550	2,830	5,120	13,600	15,200	7,690	10,000	4,840	4,680	2,860	4,380	3,720
2	1,840	2,350	4,380	12,500	13,100	7,550	11,900	5,940	7,960	3,780	3,250	7,650
3	2,100	2,140	3,890	11,000	11,200	7,180	14,100	5,350	5,970	2,960	2,950	8,800
4	1,950	2,070	3,530	10,000	10,400	6,850	17,500	5,660	4,830	3,310	2,360	11,600
5	3,260	1,890	3,760	8,480	9,000	8,600	20,500	5,570	4,850	3,120	2,300	10,000
6	3,500	1,650	8,150	7,470	7,800	12,900	24,400	5,070	4,240	2,760	2,230	6,800
7	2,080	1,710	10,900	7,130	7,200	13,100	20,900	5,630	4,000	2,080	1,860	6,800
8	1,680	2,140	8,050	6,810	6,800	12,600	16,700	6,050	3,630	2,040	1,730	6,450
9	2,720	2,110	7,420	6,040	6,600	12,600	16,900	5,250	2,680	3,120	1,280	5,690
10	2,710	2,280	21,200	6,020	6,000	11,800	17,500	5,270	2,640	2,850	1,420	4,510
11	2,030	2,300	17,100	6,880	5,600	10,800	14,900	5,940	3,490	2,080	1,600	3,860
12	1,580	2,220	12,000	6,820	5,600	9,540	14,500	5,410	3,000	1,370	1,760	3,560
13	2,240	2,470	9,400	5,830	5,000	8,590	14,500	20,900	2,310	1,940	1,930	3,290
14	2,700	2,530	9,310	4,920	5,200	7,200	15,000	20,200	1,680	1,930	2,070	3,100
15	2,100	2,410	9,460	4,800	5,200	6,820	20,300	15,100	1,940	1,910	2,140	2,300
16	2,020	2,470	7,960	5,200	4,900	6,470	22,500	12,200	2,940	3,100	2,000	2,410
17	2,070	2,600	6,930	5,770	4,200	11,100	18,400	10,600	5,440	1,660	2,300	2,700
18	2,050	2,650	5,600	5,280	4,300	11,200	15,400	9,420	5,750	1,290	3,680	2,650
19	2,030	2,500	5,000	4,970	4,600	9,940	13,500	7,440	3,800	2,130	3,060	2,450
20	2,110	2,400	4,800	4,940	5,200	9,160	11,900	6,450	2,970	2,430	3,080	2,470
21	2,080	2,340	31,800	4,930	5,000	9,090	9,820	5,740	2,770	1,960	2,490	2,360
22	2,130	1,680	55,300	7,810	5,600	15,500	8,600	5,090	2,680	1,930	2,360	2,090
23	2,510	1,480	26,600	10,100	16,800	13,400	7,530	5,590	3,460	1,810	2,120	3,000
24	2,560	1,950	18,500	10,500	16,200	11,600	6,870	4,990	2,950	2,000	2,100	3,310
25	2,260	2,380	12,900	10,200	13,600	11,400	6,400	4,740	2,440	2,410	2,030	2,850
26	2,110	3,580	11,400	9,410	11,200	10,800	5,770	3,930	2,550	2,390	2,050	2,710
27	2,110	4,050	21,800	9,640	9,420	9,600	5,300	3,690	2,730	2,360	2,300	2,060
28	2,030	4,600	32,400	19,500	8,290	8,580	4,830	3,410	3,660	2,390	2,100	2,190
29	2,320	6,890	26,000	22,600	------	8,070	4,470	3,320	3,350	3,010	2,470	5,640
30	3,700	6,260	19,400	20,600	------	7,600	3,690	3,680	2,160	6,450	2,650	11,600
31	3,330	------	15,600	17,100	------	8,170	------	3,850	------	6,080	4,050	------
TOTAL	71,460	80,930	435,660	286,850	229,210	305,500	394,580	216,320	107,550	81,510	74,100	138,620
MEAN	2,305	2,698	14,050	9,253	8,186	9,855	13,150	6,978	3,585	2,629	2,390	4,621
MAX	3,700	6,890	55,300	22,600	16,800	15,500	24,400	20,900	7,960	6,450	4,380	11,600
MIN	1,550	1,480	3,530	4,800	4,200	6,470	3,690	3,320	1,680	1,290	1,280	2,060
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 2,880,680 MEAN 7,892 MAX 96,300 MIN 1,480 CFSM - IN. -
WTR YR 1974 TOTAL 2,422,290 MEAN 6,636 MAX 55,300 MIN 1,280 CFSM - IN. -

01439500 Bush Kill at Shoemakers, Pa.

LOCATION.--Lat 41°05'17", long 75°02'17", Monroe County, on right bank 30 ft (9 m) downstream from highway bridge, 0.1 mi (0.2 km) downstream from Saw Creek, 0.7 mi (1.1 km) northwest of Shoemakers, and 2 mi (3.2 km) southwest of Bushkill.

DRAINAGE AREA.--117 mi^2 (303 km^2).

PERIOD OF RECORD.--October 1908 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1928, published as Bushkill Creek near Shoemakers; October 1928 to September 1952, published as Bushkill Creek at Shoemakers.

GAGE.--Water-stage recorder. Datum of gage is 421.13 ft (128.360 m) above mean sea level, unadjusted. Sept. 19, 1908 to Aug. 12, 1938, nonrecording gage, and Aug. 13, 1938 to June 20, 1956, water-stage recorder at site 50 ft (15 m) upstream at same datum.

AVERAGE DISCHARGE.--66 years, 233 ft^3/s (6.60 m^3/s), 27.04 in/yr (687 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,280 ft^3/s (121 m^3/s) Dec. 21 (gage height, 6.34 ft or 1.932 m); minimum daily, 29 ft^3/s (0.82 m^3/s) Oct. 28.

Period of record: Maximum discharge, 23,400 ft^3/s (663 m^3/s) Aug. 19, 1955 (gage height, 13.95 ft or 4.252 m, from floodmarks), from rating curve extended above 2,600 ft^3/s (73.6 m^3/s) on basis of slope-area measurement of peak flow; minimum, 2.6 ft^3/s (0.074 m^3/s) Sept. 25, 26, 27, 1964 (gage height, 0.72 ft or 0.219 m).

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

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1202: 1921, 1932(M), 1933, 1935-36, 1938(M), 1939-40, 1942, 1945, 1946(M), 1948(M). WSP 1302: 1909-15, 1920(M), 1922-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	221	138	633	526	352	533	206	241	218	88	170
2	58	198	127	554	453	336	604	184	241	195	70	640
3	73	167	119	479	397	306	663	198	198	167	92	500
4	71	144	116	434	374	306	842	210	174	148	180	580
5	66	132	218	374	306	315	938	184	157	135	130	460
6	60	121	526	347	270	291	994	188	141	127	100	347
7	55	110	403	320	250	268	818	255	129	110	80	369
8	51	105	336	277	220	263	693	218	124	100	70	341
9	47	103	519	237	200	347	922	210	119	91	64	277
10	47	98	874	240	190	409	826	358	108	83	62	241
11	44	93	708	250	180	380	708	320	98	75	58	210
12	42	88	582	240	170	341	619	453	86	66	54	188
13	41	88	492	220	160	301	568	1,190	81	60	49	177
14	38	86	670	200	150	268	533	890	75	58	46	210
15	36	88	589	190	140	259	640	708	73	55	43	191
16	35	93	492	180	130	325	604	568	241	51	39	170
17	35	88	416	180	130	575	533	472	446	44	110	154
18	34	81	380	170	120	453	466	409	296	42	130	144
19	35	81	350	170	160	403	440	358	229	44	80	135
20	35	77	400	170	306	374	416	310	191	51	70	127
21	35	75	3,160	200	241	505	369	277	181	44	60	151
22	35	75	2,460	380	428	708	330	255	202	39	50	184
23	35	75	1,680	409	922	568	310	246	184	36	56	154
24	34	75	1,230	409	693	561	286	241	206	41	60	132
25	34	91	930	380	582	486	268	263	206	64	54	121
26	32	105	882	358	459	422	241	233	229	52	48	116
27	31	103	1,280	440	397	380	221	206	206	52	45	108
28	29	135	1,190	633	363	352	206	191	177	50	50	170
29	68	177	1,010	770	------	330	198	177	170	49	160	380
30	409	151	850	685	------	341	188	170	160	250	220	341
31	259	------	715	604	------	472	------	157	------	150	190	------
TOTAL	1,964	3,324	23,842	11,133	8,917	11,997	15,977	10,305	5,369	2,747	2,608	7,488
MEAN	63.4	111	769	359	318	387	533	332	179	88.6	84.1	250
MAX	409	221	3,160	770	922	708	994	1,190	446	250	220	640
MIN	29	75	116	170	120	259	188	157	73	36	39	108
CFSM	.54	.95	6.57	3.07	2.72	3.31	4.56	2.84	1.53	.76	.72	2.14
IN.	.62	1.06	7.58	3.54	2.84	3.81	5.08	3.28	1.71	.87	.83	2.38

CAL YR 1973 TOTAL 124,994 MEAN 342 MAX 3,160 MIN 29 CFSM 2.92 IN 39.74
WTR YR 1974 TOTAL 105,671 MEAN 290 MAX 3,160 MIN 29 CFSM 2.48 IN 33.60

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1500	6.34	4,280	5-13	0600	3.53	1,310
12-27	1000	3.54	1,320				

01440200 Delaware River below Tocks Island damsite near Delaware Water Gap, Pa.

LOCATION.--Lat 41°00'42", long 75°05'09", Warren County, N. J., on left bank 40 ft (12 m) streamward from River Road, 1 mi (1.6 km) downstream from Tocks Island, 3.7 mi (6.0 km) northeast of Delaware Water Gap, Pa., 4 mi (6.4 km) upstream from bridge on Interstate Highway 80, and at mile 216.1 (347.7 km).

DRAINAGE AREA.--3,850 mi^2 (9,970 km^2) approximately.

PERIOD OF RECORD.--May 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 293.64 ft (89.501 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 6,037 ft^3/s (171.0 m^3/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 83,000 ft^3/s (2,350 m^3/s) Dec. 22 (gage height, 20.43 ft or 6.227 m); minimum daily, 1,560 ft^3/s (44.2 m^3/s) Nov. 23.
Period of record: Maximum discharge, 103,000 ft^3/s (2,920 m^3/s) June 30, 1973 (gage height, 23.82 ft or 7.260 m); minimum daily, 580 ft^3/s (16.4 m^3/s) July 7, 8, 1965.

REMARKS.--Records good. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack (see p. 93)and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see New Jersey Annual Report) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see New Jersey Annual Report). Records of water quality for the current year are published in Part 2 of the New Jersey Annual Report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,000	4,130	6,210	15,300	16,700	9,110	10,800	4,920	4,360	3,100	5,100	4,200
2	2,000	3,590	5,160	13,900	14,600	8,470	13,200	5,940	7,570	4,100	3,700	7,500
3	2,300	3,080	4,560	12,500	12,700	8,200	15,200	6,440	7,430	3,500	3,400	10,000
4	2,300	2,780	4,220	11,500	11,000	7,520	17,900	6,220	5,610	3,600	2,900	12,600
5	3,000	2,600	4,190	10,000	10,000	8,100	22,500	6,450	5,330	3,300	2,800	12,000
6	3,700	2,180	7,500	8,660	9,340	10,900	26,800	5,840	5,540	3,300	2,600	8,400
7	2,600	1,930	12,600	7,820	8,950	14,200	27,500	5,940	5,210	2,500	2,300	7,800
8	1,900	2,300	10,100	7,950	8,000	13,100	22,300	6,580	4,400	2,300	2,000	7,700
9	2,600	2,450	8,980	7,330	7,400	13,300	19,200	6,210	3,530	3,000	1,700	6,800
10	2,800	2,690	19,900	6,690	7,000	13,900	20,800	6,000	3,290	3,200	1,600	5,600
11	2,480	2,600	21,800	8,000	6,640	12,400	17,600	6,640	3,580	2,600	1,700	5,370
12	1,850	2,690	14,900	8,000	6,300	11,800	16,200	6,690	3,700	1,700	1,800	4,630
13	2,000	2,790	11,700	7,000	6,210	10,100	15,600	17,700	3,000	1,900	2,000	4,300
14	2,700	2,960	11,100	5,700	5,940	9,330	15,900	25,600	2,470	2,250	2,100	4,120
15	2,400	2,990	11,700	5,600	5,600	8,110	19,300	18,300	1,890	2,060	2,200	3,270
16	2,200	2,870	10,300	6,000	5,440	7,880	24,700	14,600	2,680	3,170	2,200	2,950
17	2,200	2,960	8,940	6,400	5,200	9,400	20,600	12,200	4,930	2,600	2,300	3,110
18	2,200	3,080	8,140	6,000	4,900	13,900	16,800	11,200	6,800	1,800	3,170	2,880
19	2,300	3,020	7,020	5,800	4,970	12,500	14,700	8,960	5,400	2,000	4,560	2,740
20	2,150	2,960	7,100	5,600	6,010	11,400	13,500	7,780	3,400	2,440	3,400	2,770
21	2,210	2,810	29,900	5,810	6,320	10,500	11,100	7,150	3,200	2,140	2,900	2,790
22	2,180	2,240	71,700	8,640	5,880	13,800	9,840	6,130	3,000	2,000	2,500	2,220
23	2,570	1,560	36,500	11,800	12,300	17,600	8,760	6,460	3,700	1,900	2,400	3,030
24	2,630	1,600	23,800	12,300	21,500	14,600	7,920	6,050	3,500	2,100	2,300	3,980
25	2,750	2,420	16,600	11,600	15,500	13,200	7,480	5,860	3,100	2,400	2,200	3,510
26	2,210	3,080	13,600	10,800	13,700	13,200	6,740	5,080	3,000	2,500	2,200	3,140
27	2,120	4,460	21,200	9,630	11,500	12,000	6,250	4,500	3,100	2,500	2,400	2,340
28	2,150	4,560	36,800	19,500	9,370	10,900	5,800	4,270	3,700	2,500	2,300	2,470
29	2,270	6,860	31,200	24,600	------	9,850	5,360	3,700	4,000	2,900	2,500	4,880
30	4,950	7,460	23,000	23,900	------	9,610	4,720	3,770	2,800	6,290	3,200	11,100
31	5,300	------	18,200	19,300	------	9,340	------	4,330	------	7,300	4,200	------
TOTAL	79,020	93,700	518,620	323,630	258,970	348,220	445,070	247,510	123,220	88,950	82,630	158,200
MEAN	2,549	3,123	16,730	10,440	9,249	11,230	14,840	7,984	4,107	2,869	2,665	5,273
MAX	5,300	7,460	71,700	24,600	21,500	17,600	27,500	25,600	7,570	7,300	5,100	12,600
MIN	1,850	1,560	4,190	5,600	4,900	7,520	4,720	3,700	1,890	1,700	1,600	2,220
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 3,294,380 MEAN 9,026 MAX 95,600 MIN 1,560 CFSM - IN. -
WTR YR 1974 TOTAL 2,767,740 MEAN 7,583 MAX 71,700 MIN 1,560 CFSM - In. -

01440400 Brodhead Creek near Analomink, Pa.

LOCATION.--Lat 41°05'05", long 75°12'54", Monroe County, on left bank 1.5 mi (2.4 km) upstream from Paradise Creek, 1.6 mi (2.6 km) southeast of Henryville, and 2.3 mi (3.7 km) north of Analomink.

DRAINAGE AREA.--65.9 mi^2 (170.7 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 586.50 ft (178.765 m) above mean sea level. Prior to Dec. 12, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--17 years, 129 ft^3/s (3.65 m^3/s), 26.58 in/yr (675 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,350 ft^3/s (123 m^3/s) Dec. 21 (gage height, 7.82 ft or 2.384 m), from rating curve extended above 1,200 ft^3/s (34 m^3/s) as explained below; minimum, 20 ft^3/s (0.57 m^3/s) Oct. 26, 27, 28, 29; minimum gage height, 1.43 ft or 0.436 m Aug. 16, 17.
Period of record: Maximum discharge, 12,900 ft^3/s (365 m^3/s) July 28, 1969 (gage height, 11.82 ft or 3.603 m), from rating curve extended above 1,400 ft^3/s (40 m^3/s) on basis of slope-area measurement of peak flow; minimum, 5.9 ft^3/s (0.17 m^3/s) Sept. 8, 1964; minimum gage height, 1.22 ft (0.372 m) Sept. 18, 19, 23, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	128	86	309	260	183	280	113	147	130	47	91
2	33	105	77	269	230	172	324	96	116	96	39	378
3	47	88	73	240	207	158	399	113	98	77	59	280
4	40	76	71	225	183	163	613	113	89	66	100	321
5	37	70	215	200	170	167	599	98	77	59	79	222
6	33	67	429	183	150	152	525	100	63	57	55	174
7	30	63	303	170	137	141	407	114	58	49	44	220
8	29	59	240	152	128	147	343	101	57	45	38	183
9	28	57	590	150	115	220	493	103	55	41	35	152
10	28	55	819	152	105	271	410	170	51	38	34	135
11	27	51	501	158	96	237	347	145	46	38	31	114
12	26	51	371	150	96	212	315	392	42	34	28	103
13	25	50	309	130	88	186	294	914	40	33	27	95
14	25	49	497	110	82	165	277	509	37	32	25	114
15	26	48	371	100	79	154	360	371	37	30	23	96
16	27	50	306	100	77	212	309	294	190	30	22	83
17	25	50	280	100	70	306	258	250	177	29	65	79
18	25	47	258	98	66	232	230	215	105	27	74	77
19	25	45	220	96	93	212	220	186	74	31	46	68
20	25	44	245	96	165	190	202	163	63	29	36	66
21	24	42	2,940	120	114	340	181	145	66	27	30	91
22	24	42	1,240	200	505	418	170	135	68	26	27	103
23	23	42	740	266	730	337	161	126	70	25	32	82
24	22	43	493	271	381	315	147	130	83	35	33	70
25	22	55	374	242	300	266	137	147	85	38	29	65
26	20	65	437	225	240	232	126	120	105	32	26	62
27	20	59	786	297	202	210	116	107	86	31	25	58
28	20	89	649	392	183	198	100	98	73	31	29	114
29	57	122	501	469	------	188	95	93	89	33	89	255
30	280	96	410	364	------	200	96	89	80	143	120	222
31	145	------	337	309	------	271	------	80	------	65	105	------
TOTAL	1,250	1,908	15,168	6,343	5,252	6,855	8,534	5,830	2,427	1,457	1,452	4,173
MEAN	40.3	63.6	489	205	188	221	284	188	80.9	47.0	46.8	139
MAX	280	128	2,940	469	730	418	613	914	190	143	120	378
MIN	20	42	71	96	66	141	95	80	37	25	22	58
CFSM	.61	.97	7.42	3.11	2.85	3.35	4.31	2.85	1.23	.71	.71	2.11
IN.	.71	1.08	8.56	3.58	2.96	3.87	4.82	3.29	1.37	.82	.82	2.36

CAL YR 1973 TOTAL 74,964 MEAN 205 MAX 2,940 MIN 20 CFSM 3.11 IN 42.32
WTR YR 1974 TOTAL 60,649 MEAN 166 MAX 2,940 MIN 20 CFSM 2.52 IN 34.24

PEAK DISCHARGE (BASE, 1,100 CFS).--Dec. 21 (1100) 4,350 cfs (7.82 ft); May 12 (2230) 1,500 cfs (5.31 ft).

01442500 Brodhead Creek at Minisink Hills, Pa.

LOCATION.--Lat 40°59'55", long 75°08'35", Monroe County, on left bank at Minisink Hills, 500 ft (150 m) upstream from Marshall Creek, 1,500 ft (460 m) downstream from Coates Paper Box Co., 0.8 mi (1.3 km) upstream from mouth, and 3 mi (4.8 km) southeast of East Stroudsburg.

DRAINAGE AREA.--259 mi^2 (671 km^2).

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

GAGE.--Nonrecording gage and water-stage recorder. Datum of gage is 301.84 ft (92.001 m) above mean sea level. Prior to Aug. 19, 1955, water-stage recorder, and Aug. 23 to Nov. 24, 1955, nonrecording gages at site about 1,300 ft (400 m) upstream at datum 2.19 ft (0.668 m) higher. Nov. 25, 1955 to July 24, 1956, nonrecording gage at site 40 ft (12 m) upstream at present datum.

AVERAGE DISCHARGE.--23 years (1951-74), 548 ft^3/s (15.5 m^3/s), 28.73 in/yr (730 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,700 ft^3/s (331 m^3/s) Dec. 21 (gage height, 8.98 ft or 2.737 m) from rating curve extended above 3,600 ft^3/s (100 m^3/s); minimum, 111 ft^3/s (3.14 m^3/s) Aug. 17 (gage height, 1.45 ft or 0.442 m).

Period of record: Maximum discharge, 68,800 ft^3/s (1,950 m^3/s) Aug. 19, 1955 (gage height, 29.9 ft or 9.11 m, site and datum then in use, 27.0 ft (8.23 m), present site and datum, from floodmarks), from rating curve extended above 4,600 ft^3/s (130 m^3/s) on basis of computation of flow over dam at gage height, 14.43 ft (4.398 m) and slope-area measurement at peak flow, site and datum then in use; minimum, 29 ft^3/s (0.82 m^3/s) Sept. 27, 1964 (gage height, 1.12 ft or 0.341 m).

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1232: 1951(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	744	301	1,260	1,100	719	1,510	462	533	520	180	318
2	192	603	272	1,070	940	671	1,630	385	450	385	158	1,090
3	242	513	263	950	843	618	1,710	444	380	321	238	752
4	210	443	263	890	744	610	2,480	462	408	287	277	993
5	203	408	940	762	600	603	2,410	380	337	281	301	640
6	183	391	1,620	727	570	560	2,170	380	301	292	207	513
7	170	369	1,070	663	520	520	1,730	456	277	238	176	671
8	170	342	852	603	470	542	1,480	385	268	210	153	567
9	167	332	2,400	582	440	834	2,290	391	268	196	153	462
10	164	311	3,050	589	410	1,030	1,850	648	250	183	153	414
11	161	287	1,960	600	390	862	1,500	553	229	176	145	369
12	158	277	1,480	590	370	787	1,320	1,310	214	164	135	337
13	148	277	1,240	470	350	710	1,220	3,460	203	156	128	326
14	153	272	2,030	430	330	632	1,110	2,050	196	151	128	414
15	151	268	1,420	410	320	589	1,540	1,550	192	145	120	321
16	151	263	1,170	400	310	815	1,170	1,200	719	140	115	282
17	145	250	1,110	410	290	1,280	980	1,000	674	138	301	259
18	140	233	950	390	280	910	881	852	425	138	426	255
19	140	229	805	370	280	824	900	655	326	138	218	242
20	140	225	872	370	869	753	824	648	282	135	173	233
21	140	218	8,740	440	533	1,410	719	589	268	131	156	242
22	140	214	7,820	700	1,400	1,650	679	547	277	128	140	287
23	135	207	2,990	1,080	2,260	1,310	648	521	263	126	145	242
24	135	210	2,090	1,130	1,350	1,310	589	513	332	145	164	222
25	133	246	1,590	1,030	1,130	1,080	547	567	306	170	145	214
26	131	272	1,800	980	910	940	506	474	402	151	133	210
27	128	250	2,970	1,260	770	843	468	431	348	148	131	203
28	126	330	2,350	1,540	710	787	431	402	292	145	135	326
29	225	431	1,890	1,850	------	736	420	369	348	146	211	858
30	2,360	337	1,640	1,500	------	815	397	363	316	461	645	719
31	912	------	1,350	1,300	------	1,430	------	332	------	242	397	------
TOTAL	7,949	9,752	59,298	25,346	19,489	27,180	36,109	22,779	10,084	6,387	6,287	12,981
MEAN	256	325	1,913	818	696	877	1,204	735	336	206	203	433
MAX	2,360	744	8,740	1,850	2,260	1,650	2,480	3,460	719	520	645	1,090
MIN	126	207	263	370	280	520	397	332	192	126	115	203
CFSM	.99	1.25	7.39	3.16	2.69	3.39	4.65	2.84	1.30	.80	.78	1.67
IN.	1.14	1.40	8.52	3.64	2.80	3.90	5.19	3.27	1.45	.92	.90	1.86

CAL YR 1973 TOTAL 310,526 MEAN 851 MAX 8,740 MIN 126 CFSM 3.29 IN 44.60
WTR YR 1974 TOTAL 243,641 MEAN 668 MAX 8,740 MIN 115 CFSM 2.58 IN 34.99

PEAK DISCHARGE (BASE, 4,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	2100	5.77	5,110	5-12	2315	5.87	5,290
12-21	1300	8.98	11,700				

01446500 Delaware River at Belvidere, N. J.

LOCATION.--Lat 40°49'36", long 75°05'02", Warren County, N. J., on left bank at Belvidere, 800 ft (240 m) downstream from Pequest River, and at mile 197.7 (318.1 km).

DRAINAGE AREA.--4,535 mi^2 (11,746 km^2).

PERIOD OF RECORD.--October 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is 226.43 ft (69.016 m) above mean sea level. Prior to Jan. 1, 1929, nonrecording gage at site 200 ft (61 m) upstream at same datum.

AVERAGE DISCHARGE.--52 years, 7,842 ft^3/s (222.1 m^3/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, 101,000 ft^3/s (2,860 m^3/s) Dec. 21 (gage height, 18.13 ft or 5.526 m); minimum, 1,600 ft^3/s (45.3 m^3/s) July 19 (gage height, 3.10 ft or 0.945 m).
Period of record: Maximum discharge, 273,000 ft^3/s (7,730 m^3/s) Aug. 19, 1955 (gage height, 30.21 ft or 9.208 m, from highwater mark in gage house), from rating curve extended above 170,000 ft^3/s (4,810 m^3/s) on basis of flood-routing study; minimum, 609 ft^3/s (17.2 m^3/s) Sept. 28, 29, 1943 (gage height, 2.11 ft or 0.643 m).
Flood of Oct. 10, 1903 reached a stage of 28.6 ft (8.72 m), from floodmark (discharge, 220,000 ft^3/s or 6,230 m^3/s), from rating curve extended above 170,000 ft^3/s (4,810 m^3/s).

REMARKS.--Records excellent. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack (see p. 93) and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs (see New Jersey Annual Report) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs (see New Jersey Annual Report).

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 951: 1940-41, drainage area. WSP 1432: 1923, 1924(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,770	5,670	6,900	19,400	20,500	10,700	14,600	6,080	5,590	3,420	6,620	4,970
2	2,160	4,740	5,910	17,700	18,100	10,300	16,500	7,110	8,120	4,590	4,670	7,380
3	2,600	4,050	5,220	15,800	15,700	9,830	17,300	7,750	8,890	4,470	4,100	12,000
4	2,790	3,610	4,790	14,500	13,700	9,020	23,300	7,410	6,850	4,160	3,760	15,000
5	2,680	3,370	5,160	13,000	12,200	9,810	27,600	7,630	6,320	3,690	3,930	15,300
6	4,150	3,060	9,660	11,000	10,400	13,000	32,900	7,050	5,730	4,140	3,350	11,300
7	3,540	2,740	14,700	9,930	10,000	16,100	30,200	7,400	5,060	3,330	2,960	9,670
8	2,380	2,810	12,400	9,880	9,390	15,200	24,200	7,920	4,810	2,700	2,500	9,850
9	2,420	3,080	11,600	8,650	8,920	16,000	23,700	7,640	4,200	3,000	2,290	8,630
10	3,060	3,100	22,400	7,130	8,090	16,300	25,700	7,850	3,580	3,630	1,920	7,600
11	2,890	3,120	27,100	8,030	7,900	14,600	21,900	8,330	3,890	3,320	1,910	6,110
12	2,380	3,120	19,000	9,650	7,230	13,600	19,900	8,750	3,960	2,370	2,040	5,450
13	1,970	3,100	14,900	7,900	7,370	11,800	19,400	21,700	3,530	1,910	2,230	5,100
14	2,830	3,300	14,900	5,910	7,130	10,400	19,800	30,800	2,910	2,440	2,340	5,240
15	2,830	3,320	15,000	7,010	7,300	9,080	22,900	22,200	2,310	2,360	2,370	4,480
16	2,500	3,210	13,100	7,650	6,530	9,170	29,400	17,900	3,290	2,610	2,490	3,800
17	2,400	3,230	11,400	8,200	6,260	13,600	24,900	15,000	6,370	3,250	2,630	3,810
18	2,400	3,320	9,660	6,490	5,910	16,200	20,600	13,800	7,370	1,980	4,050	3,770
19	2,420	3,320	7,540	6,360	6,090	14,300	18,400	11,000	6,140	1,820	4,510	3,580
20	2,380	3,210	7,220	6,510	8,340	13,100	17,100	9,390	4,560	2,570	3,900	3,460
21	2,460	3,040	34,200	6,670	8,020	13,000	14,000	8,540	3,930	2,690	3,480	3,510
22	2,420	2,930	89,100	10,600	8,380	19,500	12,400	7,530	3,630	2,280	2,870	3,310
23	2,580	2,270	48,300	13,800	18,200	19,800	11,100	7,550	4,090	2,270	2,780	3,420
24	2,830	2,160	31,100	15,000	24,500	15,600	9,960	7,120	4,410	2,210	2,650	4,270
25	2,890	2,810	22,300	14,700	18,400	15,400	9,360	7,000	4,080	2,520	2,530	4,020
26	2,520	3,470	18,000	13,800	16,000	15,300	8,530	6,130	3,730	2,800	2,420	3,650
27	2,420	4,740	25,600	13,600	13,500	13,700	7,800	5,400	3,860	2,810	2,610	3,250
28	2,400	5,130	42,500	21,700	11,400	12,300	7,150	5,180	3,850	2,790	2,570	3,350
29	2,680	7,100	37,700	29,000	------	11,200	6,600	4,760	5,000	2,810	2,710	6,490
30	8,180	8,300	28,400	28,800	------	11,200	6,010	4,790	3,910	5,770	4,150	12,800
31	7,260	------	22,600	23,600	------	12,600	------	5,260	------	7,470	4,470	------
TOTAL	92,190	110,430	638,360	391,970	315,460	411,710	543,210	301,970	143,970	98,180	97,810	194,570
MEAN	2,974	3,681	20,590	12,640	11,270	13,280	18,110	9,741	4,799	3,167	3,155	6,486
MAX	8,180	8,300	89,100	29,000	24,500	19,800	32,900	30,800	8,890	7,470	6,620	15,300
MIN	1,970	2,160	4,790	5,910	5,910	9,020	6,010	4,760	2,310	1,820	1,910	3,250
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 3,959,350 MEAN 10,850 MAX 109,000 MIN 1,970 CFSM - IN. -
WTR YR 1974 TOTAL 3,339,830 MEAN 9,150 MAX 89,100 MIN 1,820 CFSM - IN. -

01446600 Martins Creek near East Bangor, Pa.

LOCATION.--Lat 40°54'00", long 75°12'08", Northampton County, at right downstream end of bridge on township road, 100 ft (30 m) downstream from confluence of East Fork and West Fork, 1.8 mi (2.9 km) northwest of East Bangor.

DRAINAGE AREA.--10.4 mi^2 (26.9 km^2).

PERIOD OF RECORD.--August 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 663.92 ft (202.363 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 15.5 ft^3/s (0.44 m^3/s), 20.24 in/yr (514 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) Dec. 21 (gage height, 3.84 ft or 1.170 m), from rating curve extended as explained below; minimum, 0.41 ft^3/s (0.012 m^3/s) July 17, 18 (gage height, 1.41 ft or 0.430 m).
Period of record: Maximum discharge, 1,620 ft^3/s (45.9 m^3/s) Apr. 2, 1970 (gage height, 3.89 ft or 1.186 m), from rating curve extended above 210 ft^3/s (5.9 m^3/s) on basis of contracted-opening and flow over embankment measurements at gage height, 3.87 ft (1.180 m); no flow at times.

REMARKS.--Records fair. Diversion above station for irrigation.

REVISIONS (WATER YEARS).--WRD Penna. 1967: 1962, 1964(M), 1965, 1966(M). WRD Penna. 1970: 1969(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	10	4.0	34	24	15	104	12	12	18	1.0	6.7
2	5.1	6.7	3.6	30	20	15	63	9.9	8.8	9.3	1.0	30
3	6.7	4.5	3.0	24	18	13	43	18	5.5	3.9	5.5	42
4	5.7	4.2	3.0	24	16	13	78	20	3.9	2.6	6.3	71
5	6.7	3.4	63	20	14	13	86	13	3.1	2.9	7.5	30
6	4.5	3.2	133	17	9.8	11	83	13	2.6	3.4	2.3	13
7	4.2	3.0	49	15	9.0	9.3	48	20	2.2	2.6	1.5	21
8	3.8	2.8	26	14	8.2	12	34	14	2.2	2.0	1.2	21
9	3.6	3.0	107	13	7.4	28	101	13	2.4	1.1	1.6	12
10	3.6	2.8	153	13	6.8	42	75	45	2.2	1.0	2.1	7.9
11	3.6	3.0	54	14	6.6	25	43	30	2.0	.90	1.2	5.5
12	3.6	3.0	32	13	6.2	15	32	61	2.0	1.6	1.1	4.5
13	3.6	2.6	28	11	6.0	12	33	173	1.8	.73	.81	5.5
14	3.8	2.6	98	10	5.6	10	39	54	1.7	.73	.73	17
15	3.5	2.6	57	9.0	5.2	8.3	102	29	2.1	.73	.59	13
16	3.5	2.8	31	8.2	5.0	25	52	22	42	.59	.53	6.3
17	3.3	2.6	23	8.0	4.8	77	30	17	28	.53	13	3.9
18	3.6	2.6	18	7.6	4.6	36	24	14	9.3	.90	23	3.1
19	3.6	2.6	16	7.4	8.0	20	28	12	3.9	.73	7.1	2.7
20	3.6	2.5	19	7.2	21	16	34	9.3	2.4	.81	2.3	2.6
21	3.6	2.5	847	14	19	54	24	7.9	2.4	.90	1.3	3.4
22	3.7	3.0	280	28	50	86	21	7.5	2.6	.81	1.2	5.1
23	3.4	3.0	70	40	74	37	20	8.3	4.0	.53	2.4	3.1
24	3.4	3.2	49	45	29	29	17	8.3	7.1	1.2	1.5	2.9
25	3.8	5.4	39	42	19	23	14	7.5	6.7	1.2	1.2	2.4
26	3.8	5.7	53	36	16	18	12	7.1	9.3	.90	1.1	2.7
27	3.6	5.1	135	48	14	16	11	6.3	6.7	1.6	1.1	2.4
28	5.3	10	76	56	12	13	9.9	5.5	4.2	1.0	1.1	25
29	47	13	47	59	------	12	9.9	4.8	6.7	1.1	2.0	75
30	104	6.0	37	37	------	25	9.9	4.2	4.8	5.1	12	37
31	15	------	32	28	------	123	------	4.2	------	1.7	11	------
TOTAL	281.6	127.4	2,585.6	732.4	439.2	851.6	1,280.7	670.8	194.6	71.09	116.26	477.7
MEAN	9.08	4.25	83.4	23.6	15.7	27.5	42.7	21.6	6.49	2.29	3.75	15.9
MAX	104	13	847	59	74	123	104	173	42	18	23	75
MIN	3.3	2.5	3.0	7.2	4.6	8.3	9.9	4.2	1.7	.53	.53	2.4
CFSM	.87	.41	8.02	2.27	1.51	2.64	4.11	2.08	.62	.22	.36	1.53
IN.	1.01	.46	9.25	2.62	1.57	3.05	4.58	2.40	.70	.25	.42	1.71

CAL YR 1973 TOTAL 9,035.90 MEAN 24.8 MAX 847 MIN 1.3 CFSM 2.38 IN 32.32
WTR YR 1974 TOTAL 7,828.95 MEAN 21.4 MAX 847 MIN .53 CFSM 2.06 IN 28.00

PEAK DISCHARGE (BASE, 135 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	2230	2.96	206	12-27	0645	2.82	158
12- 6	0015	2.94	198	3-31	1730	2.84	164
12- 9	2315	3.10	270	5-13	0315	3.07	255
12-21	1200	3.84	1,450				

01446700 Delaware River at Easton, Pa.

LOCATION.--Lat 40°42'43", long 75°11'48", Northampton County, on right bank 200 ft (61 m) upstream from city of Easton pumping station, 1.2 mi (1.9 km) upstream from Bushkill Creek at Easton.

DRAINAGE AREA.--4,636 mi^2 (12,007 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 157.84 ft (48.110 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 8,754 ft^3/s (247.9 m^3/s), unadjusted.

EXTREMES.--Current year: Maximum discharge, about 100,000 ft^3/s (2,830 m^3/s) Dec. 22; minimum daily, 2,000 ft^3/s (56.6 m^3/s) July 19.
Period of record: Maximum discharge, about 100,000 ft^3/s (2,830 m^3/s) Dec. 22, 1973; minimum, 1,640 ft^3/s (46.4 m^3/s) Aug. 16, 1971 (gage height, 3.87 ft or 1.180 m).

REMARKS.--Records good. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack (see p. 93) and by Cannonsville, Pepacton, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs about 100 mi (161 km) upstream (see New York Annual Report) and smaller reservoirs. Diversion from Cannonsville, Pepacton, and Neversink Reservoirs (see New York Annual Report). Records of water quality for current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,450	6,170	7,340	19,500	21,300	11,000	14,900	6,430	5,990	3,960	7,250	5,000
2	2,760	5,240	6,250	17,700	18,900	10,600	17,200	7,550	8,420	4,890	5,260	7,400
3	2,860	4,490	5,500	16,000	16,300	10,200	19,100	8,320	9,530	5,050	4,650	11,000
4	3,090	4,000	5,070	14,400	14,100	9,500	23,200	8,030	7,540	4,480	4,430	15,000
5	2,920	3,760	5,430	12,700	12,400	10,100	27,600	8,180	6,770	4,390	4,420	15,000
6	4,220	3,450	9,770	11,100	10,400	12,600	32,000	7,700	6,070	4,550	3,920	11,000
7	4,040	3,130	14,700	10,200	10,400	15,900	30,000	7,880	5,620	3,970	3,680	9,700
8	2,920	3,080	12,700	10,100	9,760	15,000	24,400	8,190	5,190	3,250	3,650	9,800
9	2,500	3,430	12,000	8,850	9,270	15,800	23,800	8,290	4,360	3,190	3,400	8,800
10	3,450	3,410	22,700	7,650	8,460	16,300	25,700	8,430	3,980	4,160	2,700	7,700
11	3,390	3,500	27,700	9,110	8,440	14,600	22,400	8,780	4,450	3,890	2,400	6,200
12	2,790	3,480	19,700	9,740	7,670	13,700	20,100	9,250	3,890	3,130	2,500	5,500
13	2,350	3,390	15,300	8,010	7,890	12,100	19,500	20,700	3,600	2,390	2,500	5,100
14	2,880	3,600	15,400	6,270	7,590	10,900	19,900	31,900	3,260	2,740	2,600	5,200
15	3,290	3,640	15,300	7,900	7,710	9,560	22,100	23,700	2,810	2,910	2,750	4,600
16	2,790	3,520	13,500	8,040	7,060	9,560	29,700	19,000	3,610	2,770	3,000	3,900
17	2,710	3,520	11,800	8,700	6,750	13,000	26,400	16,000	6,420	3,750	3,750	3,800
18	2,740	3,620	10,100	7,290	6,310	16,400	22,000	14,500	7,490	2,100	4,500	3,800
19	2,730	3,640	8,010	6,590	6,420	14,500	19,500	11,800	6,510	2,000	3,900	3,700
20	2,730	3,500	7,670	7,070	8,590	12,900	18,100	10,100	5,000	2,870	3,550	3,500
21	2,780	3,350	34,200	7,100	8,570	12,900	15,200	9,210	4,000	3,170	3,000	3,500
22	2,740	3,290	85,000	10,500	8,310	20,000	13,300	8,190	3,700	2,760	2,800	3,400
23	2,790	2,730	50,000	14,000	17,100	20,000	12,000	8,090	4,300	2,500	2,700	3,500
24	3,170	2,440	32,600	15,500	25,000	16,000	10,800	7,540	4,500	2,500	2,600	4,300
25	3,180	2,990	23,900	15,400	18,200	16,000	10,000	7,380	4,200	2,600	2,500	4,000
26	2,930	3,620	19,400	14,400	16,000	15,000	9,280	6,160	3,800	2,900	2,550	3,700
27	2,760	4,840	26,500	14,000	13,400	14,000	8,510	5,760	4,000	3,000	2,600	3,350
28	2,730	5,350	41,600	20,700	11,600	12,500	7,890	5,400	4,000	3,000	2,750	3,600
29	2,920	7,230	36,700	29,000	------	11,500	7,330	5,110	5,360	3,000	3,500	6,000
30	8,100	8,530	27,000	29,600	------	11,500	6,760	5,280	4,580	5,260	4,400	12,000
31	7,930	------	22,300	24,600	------	12,900	------	5,690	------	8,070	4,750	------
TOTAL	102,640	119,940	645,140	401,720	323,900	416,520	558,670	318,540	152,950	109,200	108,960	193,050
MEAN	3,311	3,998	20,810	12,960	11,570	13,440	18,620	10,280	5,098	3,523	3,515	6,435
MAX	8,100	8,530	85,000	29,600	25,000	20,000	32,000	31,900	9,530	8,070	7,250	15,000
MIN	2,350	2,440	5,070	6,270	6,310	9,500	6,760	5,110	2,810	2,000	2,400	3,350
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 4,091,980 MEAN 11,210 MAX 86,100 MIN 2,350 CFSM - IN. -
WTR YR 1974 TOTAL 3,451,230 MEAN 9,455 MAX 85,000 MIN 2,000 CFSM - IN. -

NOTE.--Doubtful gage-height record Dec. 22, 23, July 18-29.

01447500 Lehigh River at Stoddartsville, Pa.

LOCATION.--Lat 41°07'49", long 75°37'33", Monroe County, on left bank 75 ft (23 m) upstream from bridge on State Highway 115, at Stoddartsville, 1.9 mi (3.1 km) upstream from Tobyhanna Creek, and 4 mi (6 km) southwest of Thornhurst.

DRAINAGE AREA.--91.7 mi^2 (237.5 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,463.81 ft (446.169 m) above mean sea level. Prior to Oct. 1, 1946, nonrecording gage at site 350 ft (110 m) downstream at datum 2.14 ft (0.652 m) lower.

AVERAGE DISCHARGE.--31 years, 184 ft^3/s (5.21 m^3/s), 27.25 in/year (692 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,840 ft^3/s (80.4 m^3/s) Dec. 21 (gage height, 5.71 ft or 1.740 m); minimum daily, 30 ft^3/s (0.85 m^3/s) July 23, Aug. 16.

Period of record: Maximum discharge, 31,900 ft^3/s (903 m^3/s) Aug. 19, 1955 (gage height, 16.37 ft or 4.990 m, from floodmarks), from rating curve extended above 1,700 ft^3/s (48 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 7.0 ft^3/s (0.20 m^3/s) Sept. 26, 27, 1964 (gage height, 0.22 ft or 0.067 m).

Flood of May 22, 1942 reached a stage of 12.03 ft (3.667 m), from floodmark, present site and datum (discharge, 15,700 ft^3/s or 445 m^3/s).

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

REVISIONS (WATER YEARS).--WSP 1382: 1947, 1951.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	261	168	429	348	196	280	203	200	203	71	233
2	71	211	146	369	311	199	311	175	181	147	56	755
3	92	179	132	327	280	182	442	175	132	106	87	631
4	84	153	130	307	230	205	755	178	123	87	100	675
5	83	132	284	272	190	234	795	154	108	75	90	438
6	74	117	505	251	180	220	780	147	98	68	80	299
7	68	107	356	227	180	202	568	152	89	56	70	335
8	66	101	276	202	170	220	456	142	83	50	64	282
9	63	97	501	190	150	377	496	137	82	48	58	218
10	62	92	862	180	140	478	456	183	77	45	54	183
11	62	88	613	200	130	403	399	181	71	41	48	157
12	69	84	465	200	130	327	366	255	67	39	42	139
13	73	84	377	190	130	265	347	660	64	37	38	157
14	69	84	429	180	130	227	328	447	61	35	36	416
15	66	83	386	170	120	214	460	331	61	35	33	299
16	65	107	315	160	110	280	399	279	110	33	30	203
17	68	107	273	170	110	496	324	239	123	31	48	165
18	66	95	250	160	100	356	282	212	91	31	66	149
19	68	90	240	150	100	307	275	186	73	37	60	132
20	65	84	290	150	140	291	272	167	70	40	52	123
21	60	79	2,050	200	130	403	239	152	83	37	45	154
22	59	77	1,500	390	250	541	221	142	95	32	39	206
23	57	76	939	348	591	399	230	144	95	30	78	162
24	55	79	655	360	352	339	209	149	106	48	98	132
25	53	105	510	303	273	284	192	149	102	43	80	117
26	52	137	675	261	220	247	178	135	104	38	68	110
27	50	124	1,250	373	196	223	167	127	96	37	56	104
28	53	185	1,000	523	174	208	154	123	85	38	74	154
29	101	280	745	618	------	199	147	117	83	39	200	387
30	568	208	586	505	------	220	142	117	80	149	265	343
31	369	------	487	420	------	276	------	106	------	106	246	------
TOTAL	2,882	3,706	17,395	8,785	5,565	9,018	10,670	6,064	2,893	1,841	2,432	7,858
MEAN	93.0	124	561	283	199	291	356	196	96.4	59.4	78.5	262
MAX	568	280	2,050	618	591	541	795	660	200	203	265	755
MIN	50	76	130	150	100	182	142	106	61	30	30	104
CFSM	1.01	1.35	6.12	3.09	2.17	3.17	3.88	2.14	1.05	.65	.86	2.86
IN.	1.17	1.50	7.06	3.56	2.26	3.66	4.33	2.46	1.17	.75	.99	3.19

CAL YR 1973 TOTAL 94,700 MEAN 259 MAX 4,590 MIN 34 CFSM 2.82 IN 38.42
WTR YR 1974 TOTAL 79,109 MEAN 217 MAX 2,050 MIN 30 CFSM 2.37 IN 32.09

PEAK DISCHARGE (BASE, 1,300 CFS).--Dec. 21 (1530) 2,840 cfs (5.71 ft); Dec. 27 (0800) 1,350 cfs (3.69 ft).

01447680 Tunkhannock Creek near Long Pond, Pa.

LOCATION.--Lat 41°03'55", long 75°31'14", Monroe County, on left bank, 0.6 mi (1.0 km) downstream from unnamed tributary, 0.9 mi (1.4 km) downstream from bridge on Legislative Route 45040, 3 mi (5 km) west of Long Pond, and 5 mi (8 km) upstream from mouth.

DRAINAGE AREA.--18.0 mi^2 (46.6 km^2). At site used prior to July 7, 1966, 16.8 mi^2 (43.5 km^2).

PERIOD OF RECORD.--March 1965 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,800 ft (550 m), from topographic map. Prior to July 7, 1966, nonrecording gage at site 0.9 mi (1.4 km) upstream at different datum.

AVERAGE DISCHARGE.--9 years, 43.7 ft^3/s (1.24 m^3/s), 32.97 in/yr (837 mm/yr), adjusted for diversion since October 1969.

EXTREMES.--Current year: Maximum discharge, 336 ft^3/s (9.52 m^3/s) Dec. 22 (gage height, 3.63 ft or 1.106 m); minimum, 9.9 ft^3/s (0.28 m^3/s) Aug. 16 (gage height, 2.12 ft or 0.646 m).
Period of record: Maximum discharge, 480 ft^3/s (13.6 m^3/s) July 30, 1969 (gage height, 4.34 ft or 1.323 m); minimum, 3.0 ft^3/s (0.085 m^3/s) Mar. 11, 1969 (gage height, 1.84 ft or 0.561 m).

REMARKS.--Records good except those for winter periods, which are fair. Diversion above station, since October 1969, to Wild Creek Basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	117	37	107	74	56	71	42	43	56	27	24
2	33	99	33	90	68	63	76	50	55	50	22	30
3	33	73	29	80	57	56	96	46	41	38	24	37
4	33	56	27	72	52	60	153	49	34	30	29	47
5	32	48	48	66	47	67	173	47	30	24	31	47
6	29	41	97	64	43	65	165	40	27	20	27	40
7	28	39	97	58	40	56	134	43	25	18	23	40
8	26	37	73	54	38	59	102	42	25	16	19	37
9	24	35	76	50	37	74	91	38	26	15	17	34
10	23	32	101	48	36	70	86	46	25	14	16	29
11	23	30	85	54	34	78	90	49	22	13	15	25
12	21	30	66	56	33	62	85	58	21	13	14	22
13	21	30	56	48	33	53	79	144	20	13	13	21
14	21	29	73	44	32	64	78	134	20	12	12	24
15	20	29	81	42	31	59	82	90	21	12	11	27
16	19	28	87	40	29	53	81	62	25	12	10	26
17	19	28	65	49	28	79	70	51	42	12	12	23
18	19	28	56	44	27	84	61	48	37	11	13	21
19	19	27	52	39	33	69	59	45	26	11	15	19
20	19	27	76	37	64	57	64	43	22	11	15	18
21	18	27	258	47	54	68	58	39	23	11	13	19
22	18	26	301	86	100	105	53	36	24	11	12	20
23	17	25	251	97	188	93	51	37	27	11	15	20
24	17	26	198	95	177	72	50	39	35	12	17	21
25	17	29	151	82	125	64	48	40	36	12	19	20
26	17	35	147	69	99	56	44	39	39	13	18	18
27	16	38	207	76	84	51	45	37	36	13	17	17
28	17	43	227	104	53	51	41	34	32	12	17	23
29	27	50	194	114	------	45	38	34	30	13	17	51
30	92	50	154	107	------	46	39	32	31	21	21	65
31	112	------	127	89	------	60	------	32	------	30	23	------
TOTAL	862	1,212	3,530	2,108	1,716	1,995	2,363	1,566	900	560	554	865
MEAN	27.8	40.4	114	68.0	61.3	64.4	78.8	50.5	30.0	18.1	17.9	28.8
MAX	112	117	301	114	188	105	173	144	55	56	31	65
MIN	16	25	27	37	27	45	38	32	20	11	10	17
(/)	.56	.84	11.4	.58	.58	.53	.35	.56	.44	.37	.39	.41
MEAN≠	28.4	41.2	125	68.6	61.9	64.9	79.2	51.1	30.4	18.5	18.3	29.2
CFSM≠	1.58	2.29	6.94	3.81	3.44	3.61	4.40	2.84	1.69	1.03	1.02	1.62
IN.≠	1.82	2.56	8.00	4.39	3.58	4.16	4.91	3.27	1.89	1.19	1.18	1.81

CAL YR 1973 TOTAL 22,886 MEAN 62.7 MAX 301 MIN 16 MEAN≠ 64.0 CFSM≠ 3.56 IN.≠ 48.27
WTR YR 1974 TOTAL 18,231 MEAN 49.9 MAX 301 MIN 10 MEAN≠ 51.3 CFSM≠ 2.85 IN.≠ 38.76

PEAK DISCHARGE (BASE, 170 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0930	3.63	336	2-24	0930	3.20	214
12-28	0200	3.25	230	4- 5	1530	3.09	179

/ Diversion above station to Wild Creek basin, equivalent in cubic feet per second, furnished by city of Bethlehem.
≠ Adjusted for diversion.

01447720 Tobyhanna Creek near Blakeslee, Pa.

LOCATION.--Lat 41°05'05", long 75°36'21", Carbon County, on left bank 50 ft (15 m) downstream from bridge on State Highway 940, 500 ft (150 m) downstream from Shingle Mill Run, and 1.5 mi (2.4 km) southwest of Blakeslee.

DRAINAGE AREA.--118 mi^2 (306 km^2).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,511.23 ft (460.623 m) above mean sea level. Prior to Jan. 16, 1962, nonrecording gage at site 50 ft (15 m) upstream at same datum.

AVERAGE DISCHARGE.--13 years, 239 ft^3/s (6.77 m^3/s) 27.51 in/yr (699 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,570 ft^3/s (129 m^3/s) Dec. 21 (gage height, 8.78 ft or 2.676 m); minimum, 49 ft^3/s (1.39 m^3/s) July 23, Aug. 16; minimum gage height, 1.80 ft (0.549 m) Aug. 16.

Period of record: Maximum discharge, 6,760 ft^3/s (191 m^3/s) July 29, 1969 (gage height, 10.69 ft or 3.258 m), from rating curve extended above 4,200 ft^3/s (120 m^3/s) on basis of slope-area measurement at gage height, 19.41 ft (5.916 m); minimum, 22 ft^3/s (0.62 m^3/s) Sept. 24, 25, 1964 (gage height, 1.51 ft or 0.460 m).

Flood of Aug. 19, 1955, reached a stage of 19.41 ft (5.916 m) from floodmark (discharge, 35,300 ft^3/s or 1,000 m^3/s, by slope-area measurement).

REMARKS.--Records good except those for winter periods, which are fair. Occasional regulation by Pocono Lake about 5.0 mi (8.0 km) upstream and minor diversion from Tunkhannock Creek basin into Wild Creek basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	510	198	592	468	305	452	229	268	298	133	265
2	157	452	186	510	417	331	493	229	314	274	112	583
3	186	409	181	468	340	308	668	226	242	198	193	592
4	176	376	176	420	300	324	1,140	240	221	157	274	614
5	173	355	318	380	270	380	1,210	216	201	131	242	424
6	171	348	344	360	250	365	1,090	201	171	116	176	292
7	164	334	206	330	250	331	800	211	155	100	135	338
8	161	324	159	300	240	358	636	203	141	89	106	334
9	141	318	405	280	230	531	619	196	137	80	96	265
10	110	311	1,190	290	210	610	575	240	133	76	94	216
11	108	305	915	320	210	557	531	248	122	70	83	186
12	106	298	654	320	200	436	493	448	116	64	72	161
13	106	292	514	300	200	338	468	1,260	112	65	65	169
14	108	286	695	270	190	274	452	890	108	68	61	226
15	104	280	659	260	180	286	493	592	102	72	56	213
16	102	271	548	250	170	338	501	417	133	65	52	181
17	102	265	460	260	160	588	417	327	191	58	72	157
18	102	256	417	250	150	476	355	280	166	57	110	164
19	100	251	387	240	160	424	331	242	137	58	106	155
20	96	242	531	230	220	365	327	216	120	61	87	133
21	85	216	3,650	344	210	472	295	196	133	56	75	206
22	83	148	2,580	605	560	713	271	186	155	53	64	256
23	83	146	1,590	583	1,200	583	265	191	173	50	129	216
24	83	108	1,070	566	835	468	251	198	208	68	166	178
25	83	116	790	480	610	390	237	268	211	78	146	152
26	83	164	945	402	402	334	221	245	213	73	114	139
27	83	173	1,690	480	324	298	208	208	198	67	94	129
28	82	224	1,430	690	286	283	198	191	171	62	127	196
29	234	245	1,060	825	------	283	191	178	164	75	358	605
30	668	218	820	708	------	302	188	173	171	191	464	677
31	510	------	677	579	------	387	------	166	------	178	369	------
TOTAL	4,702	8,241	25,445	12,892	9,242	12,438	14,376	9,311	5,087	3,108	4,431	8,422
MEAN	152	275	821	416	330	401	479	300	170	100	143	281
MAX	668	510	3,650	825	1,200	713	1,210	1,260	314	298	464	677
MIN	82	108	159	230	150	274	188	166	102	50	52	129
CFSM	1.29	2.33	6.96	3.53	2.80	3.40	4.06	2.54	1.44	.85	1.21	2.38
IN.	1.48	2.60	8.02	4.06	2.91	3.92	4.53	2.94	1.60	.98	1.40	2.66

CAL YR 1973 TOTAL 144,221 MEAN 395 MAX 3,650 MIN 82 CFSM 3.35 IN 45.47
WTR YR 1974 TOTAL 117,695 MEAN 322 MAX 3,650 MIN 50 CFSM 2.73 IN 37.10

PEAK DISCHARGE (BASE, 1,600 CFS).--Dec. 21 (1500) 4,570 cfs (8.78 ft); Dec. 27 (0800) 1,760 cfs (5.71 ft).

01447800 Lehigh River below Francis E. Walter Lake near White Haven, Pa.

LOCATION.--Lat 41°06'17", long 75°43'57", Luzerne County, on right bank 0.7 mi (1.1 km) downstream from Francis E. Walter Lake, 2.0 mi (3.2 km) upstream from Fawn Run, and 4 mi (6.4 km) northeast of White Haven.

DRAINAGE AREA.--290 mi^2 (751 km^2).

PERIOD OF RECORD.--October 1957 to current year. Prior to October 1962 published as "below Bear Creek Reservoir", October 1962 to September 1971 published as "below Francis E. Walter Reservoir".

GAGE.--Water-stage recorder. Datum of gage is 1,212.95 ft (369.707 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--17 years, 585 ft^3/s (16.6 m^3/s), 27.39 in/yr (696 mm/yr), adjusted for storage since February 1961.

EXTREMES.--Current year: Maximum discharge, 4,860 ft^3/s (138 m^3/s) Dec. 23 (gage height, 6.92 ft or 2.109 m); minimum, 56 ft^3/s (1.59 m^3/s) July 13, 14 (gage height, 2.57 ft or 0.783 m).

Period of record: Maximum discharge, 13,800 ft^3/s (391 m^3/s) Dec. 21, 1957 (gage height, 9.85 ft or 3.002 m), from rating curve extended above 6,100 ft^3/s (170 m^3/s); minimum, 1.3 ft^3/s (0.037 m^3/s) Nov. 14, 1961, result of shutoff at lake; minimum gage height, 1.86 ft (0.567 m) Sept. 16, 1964; minimum daily discharge, 22 ft^3/s (0.62 m^3/s) July 20-23, 1965.

Maximum discharge known, 54,200 ft^3/s (1,530 m^3/s) Aug. 19, 1955, based on slope-area measurement at site 4.9 mi (7.9 km) downstream.

REMARKS.--Records good. Flow regulated by Francis E. Walter Lake 0.7 mi (1.1 km) upstream since February 1961.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	1,060	602	2,020	1,170	722	957	540	533	620	305	1,000
2	350	905	595	2,220	1,030	690	965	533	627	786	235	1,690
3	369	846	491	1,790	1,000	698	1,330	472	559	432	266	2,240
4	369	811	422	595	772	746	2,570	484	438	235	404	2,430
5	369	609	690	233	572	828	3,000	484	394	239	553	1,600
6	335	542	1,500	249	541	837	2,580	508	368	239	466	1,050
7	313	542	1,130	1,270	668	811	1,940	478	275	239	333	911
8	291	542	811	1,530	622	770	1,520	399	235	216	213	1,040
9	257	516	1,130	880	541	1,200	1,480	404	235	185	192	856
10	257	485	2,240	682	522	1,510	1,340	454	235	185	195	559
11	257	485	2,280	770	522	1,500	1,180	520	239	185	195	472
12	192	479	1,620	812	445	1,140	1,140	655	239	156	195	404
13	165	479	1,200	770	450	854	1,040	2,180	188	101	195	410
14	168	479	1,290	620	485	770	940	1,820	159	58	195	877
15	146	473	1,500	581	444	761	1,100	1,090	159	60	195	800
16	237	473	1,170	601	422	872	1,210	904	338	60	162	568
17	295	473	846	630	422	1,460	1,000	670	362	104	142	422
18	222	473	872	622	411	1,210	810	606	250	172	144	357
19	207	411	863	608	477	1,010	746	606	235	195	231	388
20	207	317	922	595	588	1,000	754	579	254	192	314	473
21	207	384	609	595	595	1,130	746	478	271	192	239	599
22	207	427	965	1,320	746	1,680	579	362	527	175	199	472
23	161	322	3,300	1,290	2,210	1,480	533	399	310	136	162	567
24	142	257	4,740	1,180	1,550	1,170	613	399	388	127	172	583
25	168	261	4,530	1,180	1,230	863	599	502	292	127	231	404
26	178	340	4,200	1,090	864	872	490	566	368	130	314	362
27	178	427	4,050	1,060	690	761	432	502	404	130	310	343
28	175	491	3,230	1,730	769	652	438	378	404	130	310	424
29	214	854	2,150	2,010	------	660	438	279	266	130	620	1,070
30	1,140	737	2,150	1,760	------	753	426	284	216	410	1,090	1,270
31	1,400	------	2,090	1,430	------	965	------	329	------	373	1,350	------
TOTAL	9,489	15,900	54,188	32,723	20,758	30,375	32,896	18,864	9,768	6,719	10,127	24,641
MEAN	306	530	1,748	1,056	741	980	1,097	609	326	217	327	821
MAX	1,400	1,060	4,740	2,220	2,210	1,680	3,000	2,180	627	786	1,350	2,430
MIN	142	257	422	233	411	652	426	279	159	58	142	343
MEAN≠	324	512	1,840	968	738	977	1,098	610	323	219	336	817
CFSM≠	1.12	1.77	6.34	3.34	2.54	3.37	3.79	2.10	1.11	.76	1.16	2.82
IN.≠	1.29	1.98	7.31	3.85	2.64	3.88	4.23	2.42	1.24	.88	1.34	3.15

CAL YR 1973 TOTAL 311,450 MEAN 853 MAX 4,760 MIN 56 MEAN≠ 861 CFSM≠ 2.97 IN.≠ 40.34
WTR YR 1974 TOTAL 266,448 MEAN 730 MAX 4,740 MIN 58 MEAN≠ 730 CFSM≠ 2.52 IN.≠ 34.21

≠ Adjusted for change in contents in Francis E. Walter Lake.

01448500 Dilldown Creek near Long Pond, Pa.

LOCATION.--Lat 41°02'08", long 75°32'37", Monroe County, on left bank 60 ft (18 m) upstream from bridge on Shucks Mill Road, 2.8 mi (4.5 km) upstream from Mud Run, 4 mi (6 km) northeast of Albrightsville, and 4.4 mi (7.1 km) west of Long Pond.

DRAINAGE AREA.--2.39 mi^2 (6.19 km^2).

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,665.07 ft (507.513 m) above mean sea level.

AVERAGE DISCHARGE.--26 years, 4.78 ft^3/s (0.135 m^3/s), 27.16 in/yr (690 mm/yr).

EXTREMES.--Current year: Maximum discharge, 150 ft^3/s (4.25 m^3/s) Dec. 21 (gage height, 2.73 ft or 0.832 m); minimum, 0.90 ft^3/s (0.025 m^3/s) Aug. 21 (gage height, 1.025 ft or 0.312 m).
Period of record: Maximum discharge, 630 ft^3/s (17.8 m^3/s) June 14, 1969 (gage height, 3.995 ft or 1.218 m), from rating curve extended above 300 ft^3/s (8.50 m^3/s) on basis of culvert and flow-over-dam computations of peak flow; minimum, 0.10 ft^3/s (0.003 m^3/s) Dec. 10, 1964 (gage height, 0.55 ft or 0.168 m).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1392: 1949(M), 1950-53.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	6.8	2.7	10	7.5	6.9	8.0	4.8	6.3	5.5	1.4	1.6
2	2.8	4.3	2.6	9.1	7.1	6.2	11	3.4	3.4	2.2	2.1	2.4
3	3.1	4.0	2.6	8.4	6.5	6.0	14	4.8	2.9	1.9	3.4	3.3
4	2.3	3.6	2.6	8.1	6.0	6.7	21	3.9	2.6	1.9	2.0	3.3
5	2.2	3.6	16	7.2	5.2	6.7	17	3.3	2.5	1.9	2.1	2.0
6	2.0	3.4	12	6.5	4.6	5.5	14	3.5	2.3	1.9	1.3	1.9
7	2.0	3.3	6.4	6.3	4.5	5.3	11	3.6	2.2	1.6	1.2	3.8
8	2.0	3.2	5.6	5.9	4.4	7.2	9.6	3.0	2.5	1.6	1.2	2.2
9	2.0	3.2	19	5.8	4.1	8.3	11	3.6	2.3	1.5	1.3	2.0
10	2.0	3.0	14	5.8	4.0	9.7	9.8	4.6	2.1	1.5	1.2	1.9
11	2.0	2.9	13	7.0	4.0	7.0	8.9	3.4	2.0	1.5	1.1	1.8
12	1.9	2.9	11	6.5	3.9	6.1	7.8	17	2.0	1.3	1.0	1.7
13	1.9	2.9	8.4	5.2	4.0	5.4	7.7	16	1.9	1.3	1.1	2.5
14	2.0	2.8	18	4.6	4.0	5.0	7.3	7.5	1.9	1.3	1.0	4.0
15	1.9	2.8	10	4.8	3.5	4.8	9.2	6.4	1.9	1.3	1.0	2.1
16	1.8	3.0	8.2	5.2	3.2	8.7	6.7	5.5	4.8	1.2	1.0	1.9
17	1.8	2.6	7.6	5.8	3.1	10	6.0	5.3	3.2	1.2	2.4	1.9
18	1.8	2.6	6.7	4.5	3.0	6.2	5.5	4.8	2.1	1.2	1.4	1.9
19	1.8	2.6	6.3	4.4	5.2	5.9	6.5	4.3	1.8	1.3	1.0	1.8
20	1.8	2.5	14	4.0	7.3	5.5	5.7	4.0	2.0	1.3	1.0	1.8
21	1.7	2.4	105	11	4.2	14	5.0	4.0	2.3	1.2	.97	2.5
22	1.7	2.4	28	11	25	10	4.8	3.8	2.0	1.2	1.0	2.3
23	1.6	2.3	18	7.8	18	7.3	4.8	4.0	3.6	1.2	4.1	1.9
24	1.6	2.6	14	8.3	8.1	7.3	4.4	3.9	2.8	1.6	1.3	1.8
25	1.6	3.7	12	6.6	7.2	6.2	4.1	3.8	2.7	1.3	1.1	1.9
26	1.6	3.2	23	6.1	6.4	6.0	4.0	3.4	2.7	1.2	1.0	1.8
27	1.6	3.0	28	12	5.6	5.6	3.8	3.3	2.7	1.2	1.0	1.8
28	1.6	5.5	17	13	5.6	5.4	3.6	3.3	2.5	1.2	1.5	7.6
29	16	4.6	14	13	------	5.2	3.6	3.1	2.8	1.9	1.5	7.2
30	19	3.0	12	9.5	------	5.7	3.5	3.0	2.3	6.2	2.6	4.0
31	5.0	------	11	8.7	------	8.0	------	2.8	------	1.5	1.6	------
TOTAL	94.3	98.7	468.7	232.1	175.2	213.8	239.3	151.1	79.1	54.1	46.87	78.6
MEAN	3.04	3.29	15.1	7.49	6.26	6.90	7.98	4.87	2.64	1.75	1.51	2.62
MAX	19	6.8	105	13	25	14	21	17	6.3	6.2	4.1	7.6
MIN	1.6	2.3	2.6	4.0	3.0	4.8	3.5	2.8	1.8	1.2	.97	1.6
CFSM	1.27	1.38	6.32	3.13	2.62	2.89	3.34	2.04	1.10	.73	.63	1.10
IN.	1.47	1.54	7.30	3.61	2.73	3.33	3.72	2.35	1.23	.84	.73	1.22

CAL YR 1973 TOTAL 2,474.40 MEAN 6.78 MAX 105 MIN 1.4 CFSM 2.84 IN 38.51
WTR YR 1974 TOTAL 1,931.87 MEAN 5.29 MAX 105 MIN .97 CFSM 2.21 IN 30.07

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	2200	2.405	83	2-22	1500	2.265	61
12-21	0800	2.73	150	5-12	2000	2.285	64

01449360 Pohopoco Creek at Kresgeville, Pa.

LOCATION.--Lat 40°53'51", long 75°30'10", Monroe County, on right bank 20 ft (6 m) downstream from bridge on U.S. Highway 209 at Kresgeville, 0.2 mi (0.3 km) downstream from Middle Creek, and 13 mi (21 km) northeast of Lehighton.

DRAINAGE AREA.--49.9 mi^2 (129.2 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 659.72 ft (201.083 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 105 ft^3/s (2.97 m^3/s), 28.58 in/yr (726 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,120 ft^3/s (31.7 m^3/s) Dec. 21 (gage height, 7.39 ft or 2.252 m); minimum, 30 ft^3/s (0.85 m^3/s) July 22, 23 (gage height, 3.01 ft or 0.917 m).
Period of record: Maximum discharge, 2,080 ft^3/s (58.9 m^3/s) July 28, 1969 (gage height, 9.21 ft or 2.807 m), from rating curve extended above 800 ft^3/s (23 m^3/s); minimum, 16 ft^3/s (0.45 m^3/s) Oct. 9, 10, 1970 (gage height, 2.86 ft or 0.872 m).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	166	54	238	208	141	258	101	99	81	35	160
2	65	134	51	210	189	131	277	92	78	53	46	263
3	70	116	51	192	173	124	267	106	71	48	90	221
4	60	104	51	183	160	121	311	96	69	47	62	219
5	70	99	156	166	146	117	314	88	65	52	63	171
6	57	93	224	158	136	110	308	89	58	51	47	152
7	56	90	181	150	134	107	275	90	56	46	43	182
8	55	86	158	139	125	118	251	82	59	44	41	148
9	54	83	274	136	119	142	301	83	58	42	44	126
10	52	78	352	134	111	165	261	96	57	42	46	117
11	51	75	290	138	109	150	232	83	58	41	38	113
12	50	72	237	133	103	152	217	155	51	38	36	103
13	49	71	215	117	102	144	210	302	50	37	36	107
14	49	69	276	115	100	136	200	225	50	36	35	133
15	47	66	216	110	93	130	243	189	50	36	33	96
16	46	66	199	111	88	163	189	165	85	34	31	87
17	45	61	196	116	87	185	175	150	66	34	98	82
18	45	59	174	103	84	151	168	137	52	33	113	80
19	44	59	155	103	105	151	173	126	49	34	63	76
20	43	56	186	97	136	144	162	117	49	33	55	74
21	42	55	929	136	99	212	146	112	48	31	50	74
22	41	54	729	181	197	249	140	107	46	31	47	73
23	41	50	466	189	259	219	138	108	54	31	93	66
24	40	54	353	199	195	214	128	102	53	42	65	63
25	40	59	289	192	181	184	121	96	57	37	55	63
26	39	56	323	187	162	168	115	90	57	34	52	62
27	38	56	407	220	146	156	110	87	58	33	50	60
28	37	70	363	246	140	146	106	84	52	32	57	116
29	110	71	320	278	------	141	102	81	58	37	74	145
30	361	57	284	254	------	151	98	79	52	93	352	99
31	205	------	252	234	------	232	------	76	------	42	223	------
TOTAL	2,062	2,285	8,411	5,165	3,887	4,854	5,996	3,594	1,765	1,305	2,173	3,531
MEAN	66.5	76.2	271	167	139	157	200	116	58.8	42.1	70.1	118
MAX	361	166	929	278	259	249	314	302	99	93	352	263
MIN	37	50	51	97	84	107	98	76	46	31	31	60
CFSM	1.33	1.53	5.43	3.35	2.79	3.15	4.01	2.32	1.18	.84	1.40	2.36
IN.	1.54	1.70	6.27	3.85	2.90	3.62	4.47	2.68	1.32	.97	1.62	2.63

CAL YR 1973 TOTAL 52,152 MEAN 143 MAX 944 MIN 37 CFSM 2.87 IN 38.88
WTR YR 1974 TOTAL 45,028 MEAN 123 MAX 929 MIN 31 CFSM 2.46 IN 33.57

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	2400	5.93	595	8-30	0145	5.80	558
12-21	1630	7.39	1,120				

01449500 Wild Creek at Hatchery, Pa.

LOCATION.--Lat 40°55'22", long 75°33'32", Carbon County, on left bank at Hatchery, 0.5 mi (0.8 km) downstream from Penn Forest Dam, 2.2 mi (3.5 km) upstream from Wild Creek Dam, 4 mi (6 km) upstream from mouth, and 9.5 mi (15.3 km) northeast of Palmerton.

DRAINAGE AREA.--16.8 mi^2 (43.5 km^2).

PERIOD OF RECORD.--October 1940 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 842.71 ft (256.858 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 35.2 ft^3/s (0.997 m^3/s), 28.45 in/yr (723 mm/yr), adjusted for storage since January 1959.

EXTREMES.--Current year: Maximum discharge, 319 ft^3/s (9.03 m^3/s) Dec. 21 (gage height, 3.41 ft or 1.039 m), from rating curve extended above 120 ft^3/s (3.40 m^3/s) as explained below; minimum 2.5 ft^3/s (0.07 m^3/s) July 13 (gage height, 1.40 ft or 0.427 m).

Period of record: Maximum discharge, 2,360 ft^3/s (66.8 m^3/s) May 23, 1942 (gage height, 6.00 ft or 1.829 m), from rating curve extended above 220 ft^3/s (6.2 m^3/s) on basis of contracted-opening measurement at gage height, 5.59 ft (1.704 m); minimum, 1.0 ft^3/s (0.028 m^3/s) Aug. 3-6, Oct. 2, 1958, Oct. 24, 1969 (result of regulation).

REMARKS.--Records good. Flow completely regulated since January 1959 by Penn Forest Reservoir located 0.5 mi (0.8 km) upstream (see p. 93).

REVISIONS (WATER YEARS).--WSP 1051: Drainage area. WSP 1382: 1941-42, 1943(M), 1944-45, 1947, 1949, 1951-53.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	41	26	89	65	47	59	46	43	31	15	19
2	26	29	20	86	62	45	60	35	37	25	15	62
3	29	29	20	80	61	43	64	40	33	21	27	95
4	27	24	20	77	61	42	78	43	31	19	22	89
5	29	22	49	68	53	41	90	33	29	19	18	44
6	22	24	100	62	47	39	97	34	27	20	13	28
7	20	20	95	59	48	39	87	36	25	17	11	29
8	21	20	78	55	46	41	83	33	26	16	10	30
9	21	21	99	57	45	48	95	33	26	14	11	33
10	21	22	137	57	43	64	93	38	24	16	14	33
11	21	18	130	59	42	40	74	34	24	12	11	33
12	22	19	105	54	41	42	72	53	21	12	8.5	33
13	20	19	93	48	39	50	74	92	20	4.1	8.5	33
14	23	21	109	45	38	36	74	74	19	5.6	9.3	33
15	20	21	84	43	37	29	84	64	20	10	7.7	32
16	22	27	72	35	35	42	75	59	30	7.7	6.0	32
17	21	22	86	39	34	57	65	55	33	4.4	22	32
18	12	17	57	37	33	46	64	51	27	5.3	28	33
19	5.6	19	54	40	36	42	67	48	22	11	28	33
20	8.5	18	59	37	45	42	62	45	22	12	87	33
21	9.3	18	231	45	39	56	56	43	21	6.0	128	33
22	12	19	211	59	64	65	55	42	21	6.3	128	33
23	14	19	152	55	90	59	54	44	24	7.0	128	33
24	15	20	122	54	65	57	51	43	26	13	126	33
25	15	22	105	53	53	51	47	41	23	14	126	33
26	17	21	107	51	49	50	45	36	21	12	126	24
27	17	21	143	57	48	46	40	34	20	11	60	14
28	14	26	130	68	45	43	40	35	20	11	29	20
29	31	30	113	78	------	45	41	33	21	13	28	23
30	71	27	102	75	------	51	40	34	20	29	59	30
31	46	------	92	74	------	62	------	33	------	21	41	------
TOTAL	678.4	676	3,001	1,796	1,364	1,460	1,986	1,364	756	425.4	1,351.0	1,065
MEAN	21.9	22.5	96.8	57.9	48.7	47.1	66.2	44.0	25.2	13.7	43.6	35.5
MAX	71	41	231	89	90	65	97	92	43	31	128	95
MIN	5.6	17	20	35	33	29	40	33	19	4.1	6.0	14
MEAN≠	23.2	21.3	99.4	56.9	47.6	47.9	64.7	43.7	24.4	14.2	13.5	39.4
CFSM≠	1.38	1.27	5.92	3.39	2.83	2.85	3.85	2.60	1.45	.85	.80	2.35
IN.≠	1.59	1.42	6.82	3.91	2.95	3.29	4.30	3.00	1.62	.98	.92	2.62

CAL YR 1973 TOTAL 18,713.4 MEAN 51.3 MAX 231 MIN 5.6 MEAN≠ 51.3 CFSM≠ 3.05 IN.≠ 41.43
WTR YR 1974 TOTAL 15,922.8 MEAN 43.6 MAX 231 MIN 4.1 MEAN≠ 41.3 CFSM≠ 2.46 IN.≠ 33.42

≠ Adjusted for change in contents in Penn Forest Reservoir.

01449800 Pohopoco Creek below Beltzville Dam near Parryville, Pa.

LOCATION.--Lat 40°50'44", long 75°38'46", Carbon County, on right bank 0.1 mi (0.2 km) upstream from Sawmill Run, 0.45 mi (0.72 km) downstream from Beltzville Dam, 1.3 mi (2.1 km) upstream from Bull Run, and 2.3 mi (3.7 km) northeast of Parryville.

DRAINAGE AREA.--96.4 mi^2 (249.7 km^2).

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

AVERAGE DISCHARGE.--7 years, 212 ft^3/s (6.00 m^3/s), 29.86 in/yr (758 mm/yr), adjusted for storage and diversion.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 492.05 ft (149.977 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,230 ft^3/s (34.8 m^3/s) Apr. 8 (gage height, 5.03 ft or 1.533 m); minimum, 2.7 ft^3/s (0.076 m^3/s) Sept. 16 (gage height, 2.19 ft or 0.668 m).
Period of record: Maximum discharge, 1,740 ft^3/s (49.3 m^3/s) May 8, 1973 (gage height, 5.59 ft or 1.704 m); minimum, 0.90 ft^3/s (0.025 m^3/s) Oct. 11, 12, 1969 (gage height, 2.12 ft or 0.646 m), result of upstream shutoff.

REMARKS.--Records excellent. Flow regulated by Wild Creek and Penn Forest Reservoirs, 7.3 mi (11.7 km) and 10.0 mi (16.1 km) upstream, respectively, and Beltzville Lake, 0.45 mi (0.72 km) upstream (see p. 93). Figures of daily discharge do not include diversion from Wild Creek Reservoir to city of Bethlehem. Records of water quality for the current year are published in Part 2 of this report. Diversion from Tunkhannock Creek to Wild Creek basin above station since October 1969 (see p. 33).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	618	67	61	434	434	312	276	149	111	65	39	419
2	979	84	61	434	434	311	358	129	130	65	40	421
3	968	96	61	434	434	307	436	116	142	65	40	422
4	530	112	61	295	434	240	441	116	142	65	40	421
5	158	132	62	63	434	202	442	116	122	65	39	418
6	116	132	61	63	354	202	442	116	111	65	39	416
7	116	164	62	296	267	204	442	116	99	65	39	417
8	116	226	63	434	237	206	872	116	91	65	39	257
9	116	224	63	434	236	206	1,240	104	74	65	40	167
10	98	224	63	434	235	206	794	94	65	62	39	167
11	74	224	63	327	196	250	436	94	65	60	53	206
12	67	171	63	171	134	310	391	109	65	60	60	228
13	67	80	95	171	113	243	314	137	65	60	60	228
14	67	60	140	171	113	229	281	165	65	59	60	228
15	67	61	171	171	113	241	241	174	65	46	60	192
16	67	61	171	171	113	241	241	198	66	40	62	133
17	67	61	256	171	113	241	241	282	65	40	63	113
18	67	61	434	147	113	241	241	310	65	39	77	113
19	67	61	564	113	113	259	241	310	65	39	104	113
20	67	61	747	113	132	272	241	310	65	39	116	113
21	67	61	202	128	142	292	241	310	65	39	116	113
22	67	61	63	142	144	387	241	310	65	39	116	113
23	67	61	634	190	155	436	241	265	65	39	117	113
24	67	61	1,030	353	202	436	241	200	65	41	116	98
25	67	61	1,020	434	271	333	241	136	65	40	116	88
26	67	61	1,020	434	312	276	228	113	65	39	116	88
27	67	61	1,020	434	312	276	206	113	65	39	116	88
28	67	61	1,020	313	312	276	206	113	65	39	117	89
29	67	61	1,010	213	------	276	185	113	65	40	117	110
30	67	61	1,010	357	------	276	158	112	65	40	165	142
31	67	------	714	434	------	276	------	110	------	39	281	------
TOTAL	5,229	2,972	12,065	8,479	6,602	8,463	10,799	5,156	2,388	1,563	2,602	6,234
MEAN	169	99.1	389	274	236	273	360	166	79.6	50.4	83.9	208
MAX	979	226	1,030	434	434	436	1,240	310	142	65	281	422
MIN	67	60	61	63	113	202	158	94	65	39	39	88
(/)	40.5	37.9	35.9	37.3	37.7	36.6	39.9	40.8	41.3	41.9	40.8	40.6
MEAN≠	114	130	545	320	272	296	389	215	109	67.8	132	238
CFSM≠	1.18	1.35	5.65	3.32	2.82	3.07	4.04	2.23	1.13	.70	1.37	2.47
IN.≠	1.36	1.51	6.51	3.83	2.94	3.54	4.51	2.57	1.26	.81	1.58	2.76

CAL YR 1973 TOTAL 84,072 MEAN 230 MAX 1,040 MIN 41 MEAN≠ 270 CFSM≠ 2.80 IN.≠ 37.99
WTR YR 1974 TOTAL 72,552 MEAN 199 MAX 1,240 MIN 39 MEAN≠ 236 CFSM≠ 2.45 IN.≠ 33.18

/ Diversion above station from Wild Creek Reservoir for municipal supply, equivalent in cubic feet per second, furnished by city of Bethlehem.
≠ Adjusted for diversion from Wild Creek Reservoir and change in contents in Penn Forest and Wild Creek Reservoirs and Beltzville Lake.

01450500 Aquashicola Creek at Palmerton, Pa.

LOCATION.--Lat 40°48'22", long 75°35'54", Carbon County, on right bank 1,200 ft (370 m) upstream from Sixth Street Bridge in Palmerton, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--76.7 mi^2 (198.7 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 389.08 ft (118.592 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 149 ft^3/s (4.22 m^3/s), 26.38 in/yr (670 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 2,750 ft^3/s (77.9 m^3/s) Dec. 21 (gage height, 8.08 ft or 2.463 m); minimum, 39 ft^3/s (1.10 m^3/s) July 23 (gage height, 2.91 ft or 0.887 m).
Period of record: Maximum discharge, 11,700 ft^3/s (331 m^3/s) July 10, 1945 (gage height, 13.63 ft or 4.154 m), from rating curve extended above 2,500 ft^3/s (71 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 2.6 ft^3/s (0.074 m^3/s) Sept. 12, 1957, from rating curve extended below 16 ft^3/s (0.45 m^3/s); minimum gage height, 2.44 ft (0.74 m) Sept. 16, 1964; minimum daily discharge, 9.1 ft^3/s (0.26 m^3/s) Sept. 15, 1964.

REMARKS.--Records good. Regulation at low flow by mills above station. Occasional diversion from Pohopoco Creek into Aquashicola Creek above station. Figures of daily discharge do not include water diverted above station from Aquashicola Creek by the New Jersey Zinc Co.

REVISIONS (WATER YEARS).--WSP 1051: 1940-45 (monthly net diversion), drainage area. WRD Penna. 1968: 1967 (monthly net diversion).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	180	58	286	286	177	387	134	118	134	45	182
2	76	150	57	249	252	162	441	123	102	95	52	503
3	85	130	57	228	223	152	404	143	95	84	107	373
4	78	110	58	214	201	146	574	135	93	78	76	346
5	82	110	182	190	177	140	664	118	85	75	97	290
6	76	100	467	180	162	130	603	117	80	75	78	237
7	75	96	332	172	157	125	498	120	77	66	69	255
8	76	94	249	157	147	131	414	109	80	61	65	206
9	75	90	394	150	138	166	462	107	78	60	93	188
10	73	86	685	147	126	230	440	133	73	60	122	175
11	69	82	467	157	126	245	399	115	70	60	87	160
12	69	78	342	152	118	235	352	211	66	54	76	145
13	68	75	293	131	115	213	325	649	66	52	69	143
14	65	73	409	120	113	194	305	438	68	51	66	182
15	63	71	387	115	107	178	390	340	67	49	60	138
16	61	69	325	113	99	215	330	286	128	48	57	129
17	60	66	296	118	99	254	300	253	104	45	101	122
18	60	63	246	107	95	235	280	225	76	44	122	118
19	57	63	209	107	126	230	285	201	69	45	91	109
20	57	60	209	103	188	213	258	183	68	47	82	103
21	55	58	1,880	143	129	303	229	168	70	44	75	111
22	52	58	1,590	228	240	395	213	161	69	43	69	107
23	52	55	839	302	387	357	204	165	80	41	97	93
24	51	57	572	316	318	319	187	151	85	57	80	85
25	51	63	436	299	269	263	172	139	77	54	76	84
26	50	65	405	267	225	234	162	130	83	47	80	84
27	49	58	519	296	196	213	153	123	70	45	80	78
28	47	68	511	373	181	195	145	122	66	45	82	140
29	110	75	424	424	------	185	139	114	77	48	97	196
30	440	63	363	387	------	196	135	110	70	87	162	162
31	230	------	316	335	------	322	------	102	------	54	170	------
TOTAL	2,585	2,466	13,577	6,566	5,000	6,753	9,850	5,625	2,410	1,848	2,683	5,244
MEAN	83.4	82.2	438	212	179	218	328	181	80.3	59.6	86.5	175
MAX	440	180	1,880	424	387	395	664	649	128	134	170	503
MIN	47	55	57	103	95	125	135	102	66	41	45	78
(/)	-1.2	-.4	+.3	-.5	-.2	+.3	-.2	-.4	-2.1	-2.3	-2.5	-1.8
MEAN≠	82.2	81.8	438	212	179	218	328	181	78.2	57.3	84.0	173
CFSM≠	1.07	1.07	5.71	2.76	2.33	2.84	4.28	2.36	1.02	.75	1.10	2.26
IN.≠	1.23	1.19	6.58	3.18	2.43	3.27	4.78	2.72	1.14	.86	1.27	2.52

CAL YR 1973 TOTAL 74,457 MEAN 204 MAX 1,880 MIN 41 MEAN≠ 204 CFSM≠ 2.66 IN.≠ 36.07
WTR YR 1974 TOTAL 64,607 MEAN 177 MAX 1,880 MIN 41 MEAN≠ 176 CFSM≠ 2.29 IN.≠ 31.17

PEAK DISCHARGE (BASE, 1,000 CFS).--Dec. 21 (1815) 2,750 cfs (8.08 ft).

/ Figures of net diversion, in cubic feet per second, include water from Pohopoco Creek to Aquashicola Creek plus water diverted above station from Aquashicola Creek; furnished by New Jersey Zinc Co.
≠ Adjusted for diversion.

01451000 Lehigh River at Walnutport, Pa.

LOCATION.--Lat 40°45'25", long 75°36'12", Northampton County, on left bank 0.3 mi (0.5 km) upstream from highway bridge at Walnutport, and 0.4 mi (0.6 km) upstream from Trout Creek.

DRAINAGE AREA.--889 mi^2 (2,303 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 350.27 ft (106.762 m) above mean sea level.

AVERAGE DISCHARGE.--28 years, 1,796 ft^3/s (50.9 m^3/s), 27.43 in/yr (697 mm/yr).

EXTREMES.--Current year: Maximum discharge, 21,100 ft^3/s (598 m^3/s) Dec. 21 (gage height, 8.40 ft or 2.560 m); minimum, 388 ft^3/s (11.0 m^3/s) July 18 (gage height, 1.91 ft or 0.582 m).

Period of record: Maximum discharge, 77,800 ft^3/s (2,200 m^3/s) Aug. 19, 1955 (gage height, 17.68 ft or 5.389 m); minimum, 57 ft^3/s (1.61 m^3/s) July 27, 1965 (gage height, 1.25 ft or 0.381 m), result of upstream shutoff.

Maximum stage known, 20.6 ft (6.28 m) May 23, 1942, from floodmarks.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Wild Creek Reservoir since January 1941, Penn Forest Reservoir since October 1958, Francis E. Walter Lake since February 1961, and Beltzville Lake since February 1971 (see p. 93).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,460	2,580	1,290	4,750	3,820	2,490	3,620	1,450	1,310	1,510	694	2,790
2	1,990	2,110	1,240	4,420	3,360	2,320	3,750	1,540	1,510	1,620	683	3,510
3	2,150	1,880	1,210	4,520	3,180	2,220	4,230	1,450	1,420	1,440	894	4,380
4	1,730	1,780	1,060	3,140	2,930	2,130	6,140	1,450	1,280	894	978	5,070
5	1,240	1,670	1,980	1,840	2,500	2,160	7,610	1,360	1,120	826	1,150	4,030
6	1,100	1,480	4,180	1,730	2,300	2,130	7,190	1,350	1,060	815	1,020	3,130
7	1,000	1,430	3,600	1,960	2,000	2,060	5,710	1,410	978	760	906	2,990
8	989	1,480	2,530	3,380	1,900	2,080	4,990	1,240	859	727	683	2,750
9	922	1,460	3,660	2,810	1,800	2,640	5,690	1,210	826	672	650	2,420
10	882	1,390	5,810	2,300	1,700	3,730	5,020	1,330	782	630	1,000	1,950
11	831	1,340	5,180	2,200	1,600	3,680	4,030	1,330	760	672	749	1,780
12	794	1,290	4,080	2,100	1,400	3,470	3,680	1,720	738	620	683	1,590
13	700	1,150	3,360	2,000	1,300	2,830	3,470	4,760	727	560	650	1,700
14	666	1,100	4,060	1,900	1,400	2,450	3,150	4,310	650	505	640	2,180
15	644	1,070	4,040	1,700	1,300	2,360	3,700	3,320	630	436	600	2,310
16	612	1,100	3,600	1,710	1,300	2,510	3,490	2,690	882	412	570	1,780
17	700	1,060	3,010	1,830	1,290	3,490	3,190	2,510	1,170	404	749	1,540
18	735	1,030	2,900	1,700	1,240	3,300	2,810	2,240	894	444	870	1,350
19	655	1,020	2,830	1,600	1,330	2,750	2,640	2,100	727	505	694	1,280
20	633	882	3,110	1,570	1,930	2,720	2,540	1,980	727	514	749	1,290
21	623	806	14,700	1,860	1,670	3,260	2,380	1,880	738	496	782	1,470
22	602	895	9,260	3,010	2,810	4,520	2,250	1,670	930	487	672	1,510
23	602	895	7,860	3,820	5,080	4,180	1,980	1,670	942	469	859	1,330
24	550	747	9,860	3,660	4,720	3,840	1,980	1,570	1,070	532	815	1,410
25	520	806	8,760	3,620	3,470	2,990	1,910	1,420	906	523	683	1,200
26	530	856	8,730	3,470	3,110	2,720	1,830	1,470	848	460	716	1,110
27	540	895	10,900	3,600	2,470	2,580	1,600	1,420	894	452	804	1,030
28	520	1,110	9,700	4,320	2,400	2,290	1,560	1,330	894	436	894	1,210
29	689	1,560	6,700	5,550	------	2,220	1,510	1,170	942	444	1,160	2,170
30	3,410	1,700	6,110	4,850	------	2,310	1,440	1,110	749	918	2,340	2,670
31	3,090	------	5,380	4,450	------	3,410	------	1,070	------	1,000	2,600	------
TOTAL	32,109	38,572	160,690	91,370	65,310	87,840	105,090	56,530	27,963	21,183	27,937	64,930
MEAN	1,036	1,286	5,184	2,947	2,333	2,834	3,503	1,824	932	683	901	2,164
MAX	3,410	2,580	14,700	5,550	5,080	4,520	7,610	4,760	1,510	1,620	2,600	5,070
MIN	520	747	1,060	1,570	1,240	2,060	1,440	1,070	630	404	570	1,030
CFSM	1.17	1.45	5.83	3.32	2.62	3.19	3.94	2.05	1.05	.77	1.01	2.43
IN.	1.34	1.61	6.72	3.82	2.73	3.68	4.40	2.37	1.17	.89	1.17	2.72

CAL YR 1973 TOTAL 926,043 MEAN 2,537 MAX 16,900 MIN 455 CFSM 2.85 IN 38.75
WTR YR 1974 TOTAL 779,524 MEAN 2,136 MAX 14,700 MIN 404 CFSM 2.40 IN 32.62

01451500 Little Lehigh Creek near Allentown, Pa.

LOCATION.--Lat 40°34'56", long 75°29'00", Lehigh County, on right bank at downstream side of bridge on Lehigh Parkway in Allentown, 0.8 mi (1.3 km) upstream from Cedar Creek, and 2.9 mi (4.7 km) upstream from mouth.

DRAINAGE AREA.--80.8 mi^2 (209.3 km^2).

PERIOD OF RECORD.--October 1945 to current year. Prior to October 1946, published as "at Allentown".

GAGE.--Water-stage recorder and, since September 1958, masonry control. Datum of gage is 253.41 ft (77.239 m) above mean sea level.

AVERAGE DISCHARGE.--29 years, 92.6 ft^3/s (2.622 m^3/s), 15.56 in/yr (395 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,380 ft^3/s (39.1 m^3/s) Dec. 21 (gage height, 4.56 ft or 1.390 m); minimum, 55 ft^3/s (1.56 m^3/s) July 28 (gage height, 2.27 ft or 0.692 m).
Period of record: Maximum discharge, 11,800 ft^3/s (334 m^3/s) June 22, 1972 (gage height, 11.80 ft or 3.597 m), from rating curve extended above 980 ft^3/s (27.8 m^3/s) on basis of slope-area measurement of peak flow; minimum, 17 ft^3/s (0.48 m^3/s) Feb. 4, 1965 (gage height, 1.84 ft or 0.561 m), result of upstream shutoff; minimum gage height, 1.39 ft (0.424 m) June 17, 18, 22, 1949.

REMARKS.--Records good. Occasional regulation at low flow by fish hatchery above station.

REVISIONS (WATER YEARS).--WRD Penna. 1973: 1946(M), 1951(P), 1955(M), 1956(M), 1958(M), 1962(M), 1963(M), 1965(M), 1969(M), 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	77	64	169	156	130	294	144	130	137	69	93
2	77	74	60	156	153	124	244	141	122	103	74	271
3	79	70	60	153	150	121	214	169	117	93	93	281
4	74	68	58	172	144	119	438	156	113	88	121	249
5	72	66	166	153	135	119	390	141	112	87	135	130
6	72	66	172	147	135	113	320	147	106	88	84	110
7	70	66	105	140	138	113	265	153	103	85	76	172
8	72	66	90	120	135	132	241	138	104	82	74	128
9	72	66	218	110	132	172	405	138	104	81	81	109
10	72	64	182	100	130	162	307	153	102	81	87	103
11	72	62	121	110	130	138	252	141	98	79	74	98
12	72	64	105	130	127	132	233	233	97	78	71	96
13	70	66	103	110	127	127	244	390	96	77	70	99
14	70	62	166	100	132	121	241	252	95	77	70	148
15	70	62	116	100	124	121	233	218	94	77	67	103
16	70	62	103	100	121	150	207	169	166	77	66	95
17	70	60	103	110	124	186	196	153	126	75	250	91
18	70	58	95	98	119	141	189	151	104	75	137	89
19	70	60	90	98	135	135	189	136	98	75	90	87
20	70	60	103	130	162	130	186	132	96	73	82	86
21	68	60	880	182	132	221	175	129	96	72	78	91
22	68	60	390	225	153	214	172	128	96	72	75	93
23	66	60	229	203	156	162	179	139	132	72	135	84
24	66	62	186	192	130	150	169	133	124	85	85	81
25	66	66	162	175	130	135	162	128	106	81	79	81
26	66	68	229	169	124	130	159	123	102	77	77	81
27	66	66	325	192	121	124	156	121	97	76	77	79
28	64	86	237	182	121	121	153	125	99	72	75	157
29	98	93	196	196	------	119	150	122	109	70	80	190
30	132	70	182	172	------	175	147	122	97	88	105	112
31	83	------	166	162	------	366	------	119	------	74	87	------
TOTAL	2,281	1,990	5,462	4,556	3,776	4,603	6,910	4,844	3,241	2,527	2,824	3,687
MEAN	73.6	66.3	176	147	135	148	230	156	108	81.5	91.1	123
MAX	132	93	880	225	162	366	438	390	166	137	250	281
MIN	64	58	58	98	119	113	147	119	94	70	66	79
CFSM	.91	.82	2.18	1.82	1.67	1.83	2.85	1.93	1.34	1.01	1.13	1.52
IN.	1.05	.92	2.51	2.10	1.74	2.12	3.18	2.23	1.49	1.16	1.30	1.70

CAL YR 1973 TOTAL 57,475 MEAN 157 MAX 1,760 MIN 58 CFSM 1.94 IN 26.46
WTR YR 1974 TOTAL 46,701 MEAN 128 MAX 880 MIN 58 CFSM 1.58 IN 21.50

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1045	4.56	1,380	9- 2	0215	3.53	543
5-12	2215	3.83	741	9- 3	2115	3.81	727
8-17	1345	3.69	643	9-28	2215	3.53	543

01451800 Jordan Creek near Schnecksville, Pa.

LOCATION.--Lat 40°39'42", long 75°37'38", Lehigh County, on upstream side of wooden covered bridge at Trexler-Lehigh County Game Preserve, 1.0 mi (1.6 km) downstream from Mill Creek, and 1.1 mi (1.8 km) southwest of Schnecksville.

DRAINAGE AREA.--53.0 mi^2 (137.3 km^2).

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

GAGE.--Nonrecording gage. Altitude of gage is 400 ft (122 m) from topographic map.

AVERAGE DISCHARGE.--8 years, 89.6 ft^3/s (2.537 m^3/s), 22.96 in/yr (583 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,300 ft^3/s (36.8 m^3/s) Dec. 21 (gage height, 6.23 ft or 1.89 m), from rating curve extended as explained below; minimum, 4.5 ft^3/s (0.127 m^3/s) July 23 (gage height, 2.60 ft or 0.792 m).

Period of record: Maximum discharge, 7,100 ft^3/s (201 m^3/s) June 22, 1972 (gage height, 12.32 ft or 3.755 m, from floodmark), from rating curve extended above 680 ft^3/s (19.3 m^3/s) on basis of contracted-opening measurement of peak flow; minimum observed, 0.4 ft^3/s (0.011 m^3/s) July 26, 1966; minimum gage height observed, 1.74 ft (0.530 m) July 19, 26, 1966.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	58	22	167	163	98	401	41	39	103	11	23
2	18	42	20	132	141	82	329	35	29	44	9.5	77
3	25	36	20	118	119	76	246	60	25	35	41	52
4	20	33	20	124	100	72	458	48	21	38	37	73
5	17	31	165	102	82	71	471	37	19	72	59	55
6	16	29	253	96	88	65	371	36	18	70	25	48
7	16	27	178	92	76	64	290	38	17	53	21	90
8	15	26	134	78	100	94	237	33	18	53	18	68
9	15	24	324	77	89	170	316	32	18	45	28	63
10	14	23	374	68	70	246	264	43	15	37	43	57
11	14	21	266	64	64	228	232	34	13	34	21	51
12	14	21	190	61	58	196	198	114	12	48	17	47
13	13	21	161	58	53	158	188	199	12	68	16	52
14	12	20	222	55	52	134	177	113	12	56	15	117
15	14	19	162	52	43	119	441	91	14	40	13	88
16	13	20	151	50	44	110	281	75	50	37	11	77
17	12	18	145	49	40	119	214	71	29	30	101	64
18	11	17	116	48	40	125	172	69	18	29	113	55
19	10	18	105	52	76	125	161	53	14	25	60	49
20	12	17	104	60	126	125	130	46	15	15	46	44
21	10	16	955	152	70	125	106	42	15	11	37	52
22	11	16	665	329	180	184	96	40	16	9.2	33	43
23	10	15	388	402	208	246	93	46	40	7.9	38	35
24	11	16	261	340	158	210	76	43	36	18	30	31
25	11	23	192	271	143	159	67	38	27	17	25	29
26	11	25	248	223	118	135	60	33	23	12	22	28
27	11	21	453	231	97	115	54	29	19	11	22	25
28	11	35	387	222	89	102	50	31	20	10	27	81
29	57	39	292	253	------	92	47	29	34	9.9	30	103
30	130	26	228	225	------	126	43	29	23	27	27	82
31	56	------	182	197	------	417	------	25	------	13	24	------
TOTAL	630	753	7,383	4,448	2,687	4,388	6,269	1,653	661	1,078.0	1,020.5	1,759
MEAN	20.3	25.1	238	143	96.0	142	209	53.3	22.0	34.8	32.9	58.6
MAX	130	58	955	402	208	417	471	199	50	103	113	117
MIN	10	15	20	48	40	64	43	25	12	7.9	9.5	23
CFSM	.38	.47	4.49	2.70	1.81	2.68	3.94	1.01	.42	.66	.62	1.11
IN.	.44	.53	5.18	3.12	1.89	3.08	4.40	1.16	.46	.76	.72	1.23

CAL YR 1973 TOTAL 38,806.8 MEAN 106 MAX 1,050 MIN 3.4 CFSM 2.00 IN 27.24
WTR YR 1974 TOTAL 32,729.5 MEAN 89.7 MAX 955 MIN 7.9 CFSM 1.69 IN 22.97

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1530	6.23	1,300	4-15	0315	5.13	732
4- 4	0700	4.82	608				

01452000 Jordan Creek at Allentown, Pa.

LOCATION.--Lat 40°37'23", long 75°28'58", Lehigh County, on right bank 200 ft (60 m) upstream from bridge on State Highway 145, 0.5 mi (0.8 km) northwest of city limits of Allentown, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--75.8 mi^2 (196.3 km^2).

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

GAGE.--Water-stage recorder and rubble masonry control (crest raised one foot or 0.3 m in August 1958). Datum of gage is 259.82 ft (79.193 m) above mean sea level (Pennsylvania Department of Transportation benchmark).

AVERAGE DISCHARGE.--30 years, 108 ft^3/s (3.059 m^3/s), 19.35 in/yr (491 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,960 ft^3/s (55.5 m^3/s) Dec. 21 (gage height, 5.51 ft or 1.679 m); minimum, 9.1 ft^3/s (0.258 m^3/s) Oct. 24 (gage height, 2.45 ft or 0.747 m).

Period of record: Maximum discharge, 16,200 ft^3/s (459 m^3/s) June 23, 1972 (gage height, 11.61 ft or 3.539 m, from floodmark), from rating curve extended above 6,100 ft^3/s (173 m^3/s) on basis of slope-area measurement of peak flow; no flow on many days.

Flood of May 23, 1942, reached a stage of approximately 7.1 ft (2.16 m) outside, from floodmarks 650 ft (200 m) downstream.

REMARKS.--Records good. Some regulation at low flow by mills above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	67	30	212	232	119	566	65	48	108	25	27
2	27	60	27	176	200	106	458	59	48	69	23	93
3	36	48	24	153	176	101	336	75	40	51	50	91
4	34	44	24	165	153	93	608	81	36	44	55	125
5	28	40	81	138	106	93	698	60	33	46	90	96
6	24	39	504	132	113	83	559	59	30	111	45	77
7	23	36	491	127	119	81	421	62	28	54	35	122
8	23	34	403	111	79	96	325	54	28	45	20	111
9	22	32	452	86	77	200	409	51	30	39	22	93
10	21	31	504	75	81	285	363	63	28	35	25	86
11	21	28	358	70	86	276	315	59	25	45	23	75
12	20	25	252	65	67	248	268	83	23	70	20	67
13	19	26	197	60	77	200	252	310	21	90	19	71
14	18	25	272	55	81	169	220	165	21	70	19	181
15	19	23	204	50	63	144	497	132	22	60	18	130
16	17	23	190	46	48	162	352	116	57	50	18	114
17	16	23	186	44	65	260	268	98	59	45	130	98
18	14	21	132	42	51	212	224	103	34	40	150	86
19	14	21	130	44	62	197	197	77	26	30	91	75
20	16	22	135	45	169	176	186	67	23	23	61	69
21	14	20	1,270	200	98	260	147	62	23	21	46	81
22	14	19	1,100	450	144	380	135	59	24	15	37	73
23	15	19	545	560	256	320	135	65	36	15	46	54
24	13	18	347	450	183	272	116	65	57	20	38	46
25	13	23	248	350	165	204	106	60	40	30	30	41
26	12	29	268	310	141	172	96	50	35	20	25	39
27	14	28	594	330	119	153	86	47	31	16	23	37
28	20	37	531	310	113	132	79	47	28	15	26	93
29	24	47	385	360	------	119	73	45	39	14	49	196
30	159	36	295	300	------	138	67	45	38	19	32	149
31	75	------	232	260	------	517	------	41	------	40	29	------
TOTAL	814	944	10,411	5,776	3,324	5,968	8,562	2,425	1,011	1,350	1,320	2,696
MEAN	26.3	31.5	336	186	119	193	285	78.2	33.7	43.5	42.6	89.9
MAX	159	67	1,270	560	256	517	698	310	59	111	150	196
MIN	12	18	24	42	48	81	67	41	21	14	18	27
CFSM	.35	.42	4.43	2.45	1.57	2.55	3.76	1.03	.44	.57	.56	1.19
IN.	.40	.46	5.11	2.83	1.63	2.93	4.20	1.19	.50	.66	.65	1.32

CAL YR 1973 TOTAL 51,617.9 MEAN 141 MAX 1,270 MIN 5.1 CFSM 1.86 IN 25.33
WTR YR 1974 TOTAL 44,601.0 MEAN 122 MAX 1,270 MIN 12 CFSM 1.61 IN 21.89

PEAK DISCHARGE (BASE, 1,300 CFS).--Dec. 21 (1930) 1,960 cfs (5.51 ft).

01452500 Monocacy Creek at Bethlehem, Pa.

LOCATION.--Lat 40°38'28", long 75°22'47", Northampton County, on right bank 40 ft (12 m) downstream from highway bridge at entrance to Monocacy Park at Bethlehem, and 2.1 mi (3.4 km) upstream from mouth.

DRAINAGE AREA.--44.5 mi^2 (115.3 km^2).

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Concrete control since July 17, 1969. Datum of gage is 247.24 ft (75.359 m) above mean sea level (levels by Corps of Engineers). Prior to May 15, 1962, nonrecording gage at site 40 ft (12 m) upstream at same datum.

AVERAGE DISCHARGE.--26 years, 48.9 ft^3/s (1.385 m^3/s), 14.92 in/yr (379 mm/yr).

EXTREMES.--Current year: Maximum discharge, 484 ft^3/s (13.7 m^3/s) Dec. 21 (gage height, 3.66 ft or 1.116 m); minimum daily, 44 ft^3/s (1.25 m^3/s) on many days.

Period of record: Maximum discharge, 2,340 ft^3/s (66.3 m^3/s) Feb. 28, 1958 (gage height, 7.63 ft or 2.326 m), from rating curve extended above 560 ft^3/s (15.9 m^3/s) on basis of slope-area measurement at gage height, 9.74 ft (2.969 m); minimum, 3.0 ft^3/s (0.085 m^3/s) Jan. 9, 1966 (gage height, 1.67 ft or 0.509 m).

Flood of July 10, 1945, reached a stage of 9.74 ft (2.969 m), from floodmarks (discharge, 5,200 ft^3/s or 147 m^3/s, by slope-area measurement).

REMARKS.--Records fair. Some regulation at low flow by mill above station since April 1954.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	54	46	90	92	54	139	70	74	69	50	57
2	54	52	46	80	85	54	136	68	66	50	50	84
3	56	50	44	76	82	55	117	78	62	52	53	150
4	52	48	44	80	78	54	148	72	60	50	59	130
5	52	48	66	72	68	54	142	70	60	49	70	90
6	52	47	97	72	66	55	139	70	57	49	58	72
7	52	47	82	70	72	57	127	70	56	48	55	100
8	52	47	72	66	66	62	117	68	56	48	53	84
9	51	49	117	62	64	66	151	72	55	49	56	72
10	51	46	122	64	58	82	127	76	54	49	60	64
11	52	44	109	70	58	80	117	70	50	50	56	60
12	52	44	97	68	60	82	109	98	49	49	54	61
13	50	49	82	60	57	76	104	136	49	47	53	78
14	50	49	104	57	60	72	104	104	49	49	50	90
15	50	47	82	60	55	68	163	92	48	47	48	61
16	50	46	76	60	54	82	130	94	80	45	60	61
17	50	44	76	60	52	97	122	90	63	44	120	61
18	50	44	70	54	50	90	109	85	58	44	100	62
19	50	44	62	58	57	82	104	80	56	45	74	62
20	50	44	68	58	72	80	99	78	55	45	64	62
21	49	44	360	74	66	112	92	74	52	45	62	62
22	49	46	352	102	66	130	85	72	52	44	56	62
23	48	44	194	120	64	114	87	74	69	49	78	62
24	48	44	136	122	60	109	78	70	53	59	57	62
25	48	46	107	117	60	94	78	70	50	52	50	60
26	47	44	112	109	55	90	74	68	49	49	50	60
27	46	44	142	112	60	87	72	66	49	52	50	54
28	49	50	125	107	54	78	70	68	50	50	50	80
29	70	54	114	122	------	80	70	66	54	50	67	107
30	90	49	107	109	------	94	70	66	50	58	70	80
31	60	------	97	102	------	145	------	66	------	54	50	------
TOTAL	1,629	1,408	3,408	2,533	1,791	2,535	3,280	2,401	1,685	1,540	1,883	2,250
MEAN	52.5	46.9	110	81.7	64.0	81.8	109	77.5	56.2	49.7	60.7	75.0
MAX	90	54	360	122	92	145	163	136	80	69	120	150
MIN	46	44	44	54	50	54	70	66	48	44	48	54
CFSM	1.18	1.05	2.47	1.84	1.44	1.84	2.45	1.74	1.26	1.12	1.36	1.69
IN.	1.36	1.18	2.85	2.12	1.50	2.12	2.74	2.01	1.41	1.29	1.57	1.88

CAL YR 1973 TOTAL 30,635 MEAN 83.9 MAX 400 MIN 37 CFSM 1.89 IN 25.61
WTR YR 1974 TOTAL 26,343 MEAN 72.2 MAX 360 MIN 44 CFSM 1.62 IN 22.02

PEAK DISCHARGE (BASE, 300 CFS).--Dec. 21 (0700) 484 cfs (3.66 ft).

01453000 Lehigh River at Bethlehem, Pa.

LOCATION.--Lat 40°36'55", long 75°22'45", Lehigh County, on left bank 120 ft (37 m) upstream from New Street Bridge at Bethlehem, and 1,800 ft (549 m) upstream from Monocacy Creek.

DRAINAGE AREA.--1,279 mi^2 (3,313 km^2) includes that of Monocacy Creek. At site used prior to Oct. 1, 1928, 1,229 mi^2 (3,183 km^2).

PERIOD OF RECORD.--Sept. 1902 to February 1905, April 1909 to current year. Monthly discharge only for some periods, published in WSP 1302. Published as "at South Bethlehem" prior to Oct. 1913.

GAGE.--Water-stage recorder. Datum of gage is 210.94 ft (64.295 m) above mean sea level. Prior to October 1928, nonrecording gage at New Street Bridge 120 ft (37 m) downstream at same datum. Oct. 1, 1928, to Sept. 30, 1962, water-stage recorder at site 4,250 ft (1,295 m) downstream at datum 2.49 ft (0.759 m) lower.

AVERAGE DISCHARGE.--67 years (1902-4, 1909-74), 2,286 ft^3/s (64.74 m^3/s), 24.27 in/yr (616 mm/yr), adjusted for diversion 1902-04, 1909-42 and, for recirculated water, October 1, 1959, to September 30, 1962.

EXTREMES.--Current year: Maximum discharge, 28,600 ft^3/s (810 m^3/s) Dec. 21 (gage height, 11.41 ft or 3.478 m), from rating curve extended above 8,900 ft^3/s (252 m^3/s) on basis of slope-area measurement at gage height 20.02 ft (6.102 m); minimum, 870 ft^3/s (24.6 m^3/s) July 29 (gage height, 1.90 ft or 0.579 m).
Period of record: Maximum discharge, 92,000 ft^3/s (2,610 m^3/s) May 23, 1942 (gage height, about 25.9 ft or 7.89 m, from floodmark, present site and datum), from rating curve extended above 48,000 ft^3/s (1,360 m^3/s); minimum, 125 ft^3/s (3.54 m^3/s) June 28, 1965 (gage height, 0.94 ft or 0.287 m).
Flood of Feb. 28, 1902, reached a stage of 24.9 ft (7.59 m) from floodmark, present site and datum (discharge, about 88,000 ft^3/s or 2,490 m^3/s).

REMARKS.--Records fair. Flow regulated by Wild Creek Reservoir since January 1941, Penn Forest Reservoir since October 1958, Francis E. Walter Reservoir since February 1961, and Beltzville Lake since February 1971, (see p. 93). Records of water quality for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 261: 1903-5. WSP 321: 1910-11. WSP 1051: Drainage area. WSP 1141: 1929-34(M). WSP 1302: 1914(M), 1916(M), 1918, 1921, 1927-28. WSP 1432: 1903, 1919(M), 1920-21, 1929, 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,620	2,940	1,830	5,980	7,560	3,250	5,310	2,020	1,650	3,430	1,180	4,210
2	2,300	2,410	1,600	5,530	6,350	3,170	5,090	2,090	1,830	2,650	1,170	4,950
3	2,500	2,090	1,530	5,630	5,400	3,010	5,280	2,230	1,740	2,420	1,370	8,110
4	2,330	2,010	1,460	4,550	4,460	2,930	8,000	2,150	1,670	1,820	1,460	7,580
5	1,680	1,900	2,250	3,130	3,330	2,910	9,430	1,990	1,520	1,730	1,570	6,200
6	1,530	1,650	5,310	2,770	2,750	2,910	8,850	2,020	1,420	1,850	1,380	4,730
7	1,440	1,590	4,490	2,730	3,150	2,810	7,710	2,120	1,380	1,560	1,220	4,550
8	1,420	1,680	3,260	4,120	2,930	2,930	6,640	1,910	1,290	1,680	1,110	4,030
9	1,350	1,680	4,430	3,750	2,650	3,530	8,180	1,850	1,250	1,680	1,290	3,590
10	1,250	1,710	7,150	3,270	2,510	4,950	7,150	2,100	1,210	1,530	1,530	3,090
11	1,220	1,620	6,210	3,310	2,530	4,900	5,640	2,040	1,170	1,600	1,230	2,610
12	1,180	1,620	4,950	3,290	2,350	4,730	5,150	2,780	1,150	1,600	1,120	2,420
13	1,150	1,440	4,100	2,890	2,240	4,010	4,930	5,790	1,140	1,510	1,090	2,510
14	1,090	1,280	5,130	2,630	2,260	3,510	4,560	5,110	1,100	1,380	1,090	3,230
15	1,080	1,350	4,820	2,670	2,210	3,330	5,950	3,960	1,070	1,280	1,040	3,230
16	1,060	1,380	4,320	2,630	2,040	3,570	5,330	3,160	1,640	1,190	1,040	2,730
17	1,040	1,380	3,500	2,730	2,070	4,780	4,820	3,040	1,680	1,160	2,140	2,330
18	1,160	1,320	3,520	2,590	2,010	4,460	4,230	2,740	1,460	1,130	2,280	2,140
19	1,110	1,330	3,550	2,470	2,100	3,850	3,920	2,520	1,280	1,130	1,520	2,000
20	1,060	1,240	3,990	2,430	3,190	3,750	3,830	2,390	1,240	1,120	1,400	1,970
21	1,050	1,100	20,300	2,870	2,810	4,600	3,410	2,330	1,280	1,070	1,460	2,140
22	1,050	1,140	14,700	4,750	3,570	6,230	3,260	2,200	1,370	1,060	1,380	2,240
23	1,030	1,170	9,130	6,280	6,830	5,730	3,220	2,170	1,770	1,030	1,900	1,980
24	1,020	1,100	11,100	6,180	6,130	5,200	3,000	2,170	1,650	1,070	1,710	1,920
25	971	1,100	9,790	6,230	4,320	4,210	2,940	2,010	1,530	1,080	1,440	1,940
26	980	1,220	9,880	6,150	4,010	3,750	2,740	1,930	1,350	975	1,480	1,790
27	989	1,240	13,500	6,450	3,390	3,590	2,440	1,930	1,320	930	1,600	1,760
28	971	1,440	12,000	7,380	3,350	3,290	2,250	1,880	1,340	915	1,740	2,120
29	1,200	1,820	8,500	9,400	------	2,800	2,120	1,570	1,400	885	2,150	3,230
30	3,550	2,200	7,430	9,010	------	3,100	1,930	1,470	1,250	1,180	3,220	3,230
31	3,460	------	6,700	8,680	------	5,170	------	1,420	------	1,200	4,010	------
TOTAL	44,841	47,150	200,430	142,480	98,500	120,960	147,310	75,090	42,150	44,845	49,320	98,560
MEAN	1,446	1,572	6,465	4,596	3,518	3,902	4,910	2,422	1,405	1,447	1,591	3,285
MAX	3,550	2,940	20,300	9,400	7,560	6,230	9,430	5,790	1,830	3,430	4,010	8,110
MIN	971	1,100	1,460	2,430	2,010	2,800	1,930	1,420	1,070	885	1,040	1,760
CFSM	1.13	1.23	5.05	3.59	2.75	3.05	3.84	1.89	1.10	1.13	1.24	2.57
IN.	1.30	1.37	5.83	4.14	2.86	3.52	4.28	2.18	1.23	1.30	1.43	2.87

CAL YR 1973 TOTAL 1,331,081 MEAN 3,647 MAX 20,300 MIN 850 CFSM 2.85 IN 38.71
WTR YR 1974 TOTAL 1,111,636 MEAN 3,046 MAX 20,300 MIN 885 CFSM 2.38 IN 32.33

01454700 Lehigh River at Glendon, Pa.

LOCATION.--Lat 40°40'09", long 75°14'12", Northampton County, on right bank 140 ft (43 m) upstream from highway bridge in Hugh Moore Parkway at Glendon, 1.9 mi (3.1 km) upstream from mouth, and 2.0 mi (3.2 km) southwest of Easton.

DRAINAGE AREA.--1,359 mi^2 (3,520 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 164.30 ft (50.079 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 2,819 ft^3/s (79.83 m^3/s), 28.17 in/yr (716 mm/yr).

EXTREMES.--Current year: Maximum discharge, 27,600 ft^3/s (782 m^3/s) Dec. 21 (gage height, 17.44 ft or 5.316 m), from rating curve extended above 19,000 ft^3/s (538 m^3/s); minimum daily, 930 ft^3/s (26.3 m^3/s) July 17.

Period of record: Maximum discharge, 60,600 ft^3/s (1,720 m^3/s) June 23, 1972 (gage height, 24.86 ft or 7.577 m), from rating curve extended above 19,000 ft^3/s (538 m^3/s); minimum, 526 ft^3/s (14.9 m^3/s) Oct. 1, 1966 (gage height, 6.59 ft or 2.009 m).

REMARKS.--Records good. Flow regulated by Francis E. Walter, Penn Forest, and Wild Creek Reservoirs and since February 1971, Beltzville Lake about 60 mi (10 km) upstream (see p. 93). Records of water quality for the current year, collected at site 1.9 mi (3.1 km) downstream, are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Pa. 1972: 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,850	3,520	2,040	6,460	5,520	3,530	6,290	2,390	2,120	4,000	1,500	3,210
2	2,610	3,010	1,850	5,920	4,950	3,420	5,910	2,420	2,320	2,900	1,480	4,770
3	2,820	2,640	1,830	5,840	4,590	3,230	6,140	2,600	2,260	2,050	1,920	5,780
4	2,740	2,460	1,670	5,140	4,230	3,140	9,240	2,520	2,100	1,800	2,000	6,750
5	1,990	2,400	2,410	3,470	3,590	3,080	11,000	2,270	1,920	1,780	2,250	5,520
6	1,780	2,180	5,840	2,860	3,290	3,070	10,500	2,300	1,780	1,920	1,920	4,150
7	1,670	2,060	5,170	2,700	3,240	2,970	8,490	2,360	1,730	1,650	1,680	4,240
8	1,640	2,090	3,790	3,980	3,120	3,100	7,270	2,200	1,630	1,780	1,520	3,800
9	1,600	2,100	5,090	3,970	2,900	3,780	9,150	2,140	1,550	1,600	1,740	3,260
10	1,530	2,040	8,280	3,460	2,750	5,290	7,970	2,420	1,500	1,520	1,940	2,870
11	1,490	1,940	7,250	3,400	2,720	5,230	6,220	2,350	1,430	1,600	1,600	2,490
12	1,440	1,930	6,010	3,460	2,520	5,060	5,640	2,950	1,400	1,400	1,430	2,330
13	1,400	1,810	4,820	3,000	2,410	4,250	5,430	6,910	1,400	1,280	1,370	2,340
14	1,300	1,720	5,900	2,660	2,420	3,680	4,990	6,260	1,490	1,120	1,360	3,300
15	1,290	1,690	5,570	2,680	2,330	3,460	6,520	4,940	1,590	1,030	1,300	3,070
16	1,260	1,680	5,060	2,590	2,150	3,710	5,700	3,930	1,800	960	1,250	2,640
17	1,210	1,670	4,490	2,850	2,180	5,130	5,140	3,740	1,700	930	2,790	2,270
18	1,370	1,620	4,060	2,770	2,090	4,780	4,550	3,470	1,500	1,040	2,750	2,070
19	1,320	1,630	3,830	2,630	2,180	4,150	4,250	3,130	1,300	1,120	1,800	1,920
20	1,250	1,580	4,120	2,610	3,240	3,950	4,130	2,970	1,320	1,170	1,610	1,880
21	1,230	1,420	18,700	2,960	2,780	4,900	3,750	2,830	1,400	1,150	1,630	2,050
22	1,220	1,440	18,000	4,920	3,120	6,740	3,590	2,670	1,540	1,160	1,260	2,220
23	1,210	1,500	10,200	6,230	6,760	6,170	3,380	2,600	1,980	1,160	1,630	1,940
24	1,190	1,450	11,600	5,950	6,530	5,600	3,160	2,600	1,700	1,250	1,520	1,880
25	1,120	1,430	10,700	5,670	4,910	4,670	3,080	2,360	1,500	1,290	1,210	1,850
26	1,120	1,520	10,600	5,350	4,440	4,030	2,950	2,260	1,500	1,190	1,200	1,700
27	1,130	1,540	13,600	5,360	3,650	3,830	2,700	2,250	1,500	1,150	1,280	1,570
28	1,110	1,830	12,400	6,030	3,440	3,520	2,560	2,250	1,600	1,140	1,370	2,220
29	1,510	2,240	9,610	7,550	------	3,320	2,520	2,070	1,500	1,130	1,730	3,760
30	3,970	2,340	8,240	6,940	------	3,740	2,430	1,930	2,600	1,540	2,420	3,510
31	3,990	------	7,410	6,440	------	6,390	------	1,870	------	1,750	3,110	------
TOTAL	52,360	58,480	220,140	135,850	98,050	130,920	164,650	89,960	50,660	46,560	53,570	91,360
MEAN	1,689	1,949	7,101	4,382	3,502	4,223	5,488	2,902	1,689	1,502	1,728	3,045
MAX	3,990	3,520	18,700	7,550	6,760	6,740	11,000	6,910	2,600	4,000	3,110	6,750
MIN	1,110	1,420	1,670	2,590	2,090	2,970	2,430	1,870	1,300	930	1,200	1,570
CFSM	1.24	1.43	5.23	3.22	2.58	3.11	4.04	2.14	1.24	1.11	1.27	2.24
IN.	1.43	1.60	6.03	3.72	2.68	3.58	4.51	2.46	1.39	1.27	1.47	2.50

CAL YR 1973 TOTAL 1,391,870 MEAN 3,813 MAX 23,400 MIN 1,110 CFSM 2.81 IN 38.10
WTR YR 1974 TOTAL 1,192,560 MEAN 3,267 MAX 18,700 MIN 930 CFSM 2.40 IN 32.64

01459500 Tohickon Creek near Pipersville, Pa.

LOCATION.--Lat 40°26'01", long 75°07'01", Bucks County, on right bank at highway bridge, 1.5 mi (2.4 km) northeast of Pipersville, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--97.4 mi^2 (252.3 km^2).

PERIOD OF RECORD.--July 1935 to current year.

GAGE.--Water-stage recorder. Datum of gage is 258.96 ft (78.931 m) above mean sea level.

AVERAGE DISCHARGE.--39 years, 139 ft^3/s (3.936 m^3/s), 19.38 in/yr (492 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,170 ft^3/s (146 m^3/s) Dec. 21 (gage height, 7.21 ft or 2.198 m); minimum, 5.0 ft^3/s (0.142 m^3/s) Oct. 26 (gage height, 0.79 ft or 0.241 m).
Period of record: Maximum discharge, 16,000 ft^3/s (453 m^3/s) Aug. 18, 1955 (gage height, 11.26 ft or 3.432 m), from rating curve extended above 3,600 ft^3/s (102 m^3/s) on basis of slope-area measurement at gage height, 10.48 ft (3.194 m); minimum, 0.05 ft^3/s (0.001 m^3/s) Sept. 29, 1941; minimum daily, 0.1 ft^3/s (0.003 m^3/s) Sept. 24, 29, Oct. 6, 1941.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Regulation at low flow by mills above station. Flood flows affected by construction work on Nockamixon Dam 7.6 mi (12.2 km) upstream since September 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	79	63	648	34	34	128	45	30	72	14	50
2	13	60	45	600	30	30	78	34	33	63	22	50
3	26	51	33	588	27	28	58	36	35	37	29	50
4	27	37	27	660	26	27	154	58	34	31	18	49
5	24	33	267	582	24	27	203	45	31	27	18	48
6	18	31	174	546	24	27	118	43	30	25	15	47
7	14	22	61	498	22	24	64	64	26	31	15	200
8	11	19	37	426	22	41	46	57	24	27	15	130
9	10	17	420	352	21	128	426	52	22	23	15	80
10	9.6	15	154	405	21	130	113	227	21	21	16	56
11	8.5	14	76	330	20	60	63	262	19	20	14	45
12	8.1	13	50	97	19	45	46	768	17	18	13	68
13	7.7	13	55	52	20	33	110	1,900	15	16	13	45
14	7.1	12	594	40	23	27	82	726	13	15	14	100
15	7.1	12	702	37	22	25	654	178	12	14	13	60
16	8.1	12	660	32	29	87	456	133	51	14	13	57
17	13	11	636	31	17	157	307	105	192	14	13	54
18	7.7	11	588	32	34	58	200	105	99	14	34	49
19	5.5	11	540	33	20	42	140	82	57	14	95	46
20	6.7	10	522	35	45	33	110	64	38	13	58	43
21	6.1	10	2,750	178	30	366	100	52	45	14	41	49
22	7.1	10	810	348	49	145	92	45	50	14	33	40
23	6.1	10	726	199	66	69	83	54	78	14	41	37
24	5.8	11	690	136	35	54	75	67	128	15	85	35
25	5.8	12	666	84	32	37	69	58	95	14	69	35
26	5.5	12	1,440	63	28	32	64	46	75	14	49	35
27	6.1	14	930	93	26	28	59	39	58	14	50	35
28	5.8	25	684	67	27	26	55	37	49	14	50	250
29	103	70	702	76	------	22	50	34	54	14	50	1,000
30	343	84	666	51	------	154	46	28	54	17	50	100
31	142	------	642	46	------	684	------	27	------	15	50	------
TOTAL	880.4	741	16,410	7,365	793	2,680	4,249	5,471	1,485	668	1,025	2,943
MEAN	28.4	24.7	529	238	28.3	86.5	142	176	49.5	21.5	33.1	98.1
MAX	343	84	2,750	660	66	684	654	1,900	192	72	95	1,000
MIN	5.5	10	27	31	17	22	46	27	12	13	13	35
CFSM	.29	.25	5.43	2.44	.29	.89	1.46	1.81	.51	.22	.34	1.01
IN.	.34	.28	6.27	2.81	.30	1.02	1.62	2.09	.57	.26	.39	1.12

CAL YR 1973 TOTAL 72,985.0 MEAN 200 MAX 2,750 MIN 3.2 CFSM 2.05 IN 27.88
WTR YR 1974 TOTAL 44,710.4 MEAN 122 MAX 2,750 MIN 5.5 CFSM 1.25 IN 17.08

PEAK DISCHARGE (BASE, 3,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0330	7.21	5,170	5-12	2115	5.97	3,340
12-26	2130	5.91	3,260				

NOTE.--No gage-height record Aug. 27 to Sept. 30.

01463500 Delaware River at Trenton, N. J.
(International Hydrologic Decade River Station)

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, N. J., on left bank 450 ft (137 m) upstream from Calhoun Street Bridge at Trenton, 0.5 mi (0.8 km) upstream from Assunpink Creek, and at mile 134.5 (216.4 km).
DRAINAGE AREA.--6,780 mi^2 (17,560 km^2).
PERIOD OF RECORD.--October 1912 to current year. Prior to February 1913 monthly discharge only, published in WSP 1302. Gage-height records collected in this vicinity since 1904 are contained in reports of National Weather Service.
GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Prior to Sept. 30, 1965, at datum 7.77 ft (2.368 m) higher. Feb. 24, 1913 to Oct. 2, 1928, nonrecording gage on downstream side of highway bridge at site 500 ft (152 m) downstream.
AVERAGE DISCHARGE.--62 years, 11,570 ft^3/s (327.7 m^3/s), unadjusted.
EXTREMES.--Current year: Maximum discharge, 119,000 ft^3/s (3,370 m^3/s) Dec. 22 (elevation 18.90 ft or 5.761 m); minimum, 2,850 ft^3/s (80.7 m^3/s) July 20 (elevation, 8.02 ft or 2.444 m). Flow in Delaware and Raritan Canal not included.

Period of record: Maximum discharge, 329,000 ft^3/s (9,320 m^3/s) Aug. 20, 1955 (elevation, 28.60 ft or 8.717 m, from highwater mark in gage house), from rating curve extended above 230,000 ft^3/s (6,510 m^3/s); minimum, 1,180 ft^3/s (33.4 m^3/s) Oct. 31, 1963 (elevation, 7.26 ft or 2.213 m). Flow in Trenton power race and Delaware and Raritan Canal not included.

Flood of Oct. 11, 1903 reached an elevation of about 28.5 ft (8.69 m) above mean sea level (discharge estimated, 295,000 ft^3/s or 8,350 m^3/s). Maximum elevation known since 1903, 30.6 ft (9.33 m) above mean sea level Mar. 8, 1904, from floodmark (ice jam).
REMARKS.--Records excellent. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lakes Wallenpaupack (see p. 93) and Hopatcong and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, Neversink Reservoirs (see New Jersey Annual Report) and Wild Creek Reservoir (see p. 94) and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs and to Delaware and Raritan Canal (see New Jersey Annual Report). Water diverted just above station by borough of Morrisville, Pa., and city of Trenton for municipal supply (see New Jersey Annual Report). Records of water quality for the current year are published in Part 2 of the New Jersey Annual Report.
REVISIONS (WATER YEARS).--WSP 951: Drainage area. WSP 1302: 1913-20. WSP 1382: 1924, 1928.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,770	12,300	11,300	30,100	28,800	15,900	24,200	9,870	8,520	6,430	9,560	9,230
2	5,070	10,300	9,520	26,900	25,600	15,400	24,300	10,100	9,770	7,030	8,740	13,500
3	5,670	8,470	8,390	24,700	22,900	14,900	26,200	11,700	13,000	8,110	8,630	18,400
4	6,200	7,350	7,660	24,000	20,100	13,900	31,900	12,000	11,700	7,310	6,800	26,400
5	5,860	6,760	8,080	20,700	18,200	13,200	40,200	11,400	9,830	6,720	6,910	24,900
6	5,060	6,330	16,400	17,600	16,500	14,900	44,800	11,200	9,300	6,080	6,570	20,400
7	6,290	5,700	19,400	16,100	15,100	18,400	43,700	11,300	8,410	6,380	5,600	18,200
8	5,380	5,270	19,800	15,600	14,500	19,000	36,200	11,500	7,840	5,270	4,880	17,600
9	4,270	5,470	19,900	16,000	13,700	20,300	37,300	11,600	7,230	4,510	4,460	15,600
10	4,250	5,610	28,000	14,300	12,800	22,300	37,600	13,200	6,330	4,840	5,000	13,600
11	4,840	5,610	38,000	13,600	12,200	21,900	32,900	12,900	5,690	5,250	4,270	11,900
12	4,560	5,510	29,300	15,600	11,600	19,800	28,500	13,400	6,070	4,880	3,740	10,500
13	4,000	5,460	22,900	14,500	11,400	18,600	27,900	26,700	5,890	3,910	3,610	9,390
14	3,520	5,340	23,400	12,300	11,300	16,600	27,700	40,000	5,350	3,350	3,730	10,400
15	4,230	5,450	23,600	10,700	11,100	14,900	30,800	32,600	4,720	3,720	3,810	10,300
16	4,250	5,430	21,500	12,200	10,800	13,800	35,900	25,600	4,210	3,620	3,740	8,730
17	3,850	5,260	19,400	12,500	9,930	18,700	34,400	21,700	7,880	3,780	3,940	7,560
18	3,760	5,270	17,000	12,700	9,480	22,500	29,000	19,800	10,500	4,400	10,300	7,320
19	3,920	5,440	14,700	10,800	9,230	21,100	25,300	17,600	10,100	3,350	7,670	6,830
20	3,830	5,370	13,500	11,200	11,600	19,000	23,900	15,000	8,100	2,990	6,790	6,440
21	3,760	5,030	53,900	11,600	13,200	20,400	21,400	13,500	6,650	3,770	6,070	6,410
22	3,800	4,780	107,000	17,200	12,300	26,200	18,800	12,500	6,240	3,900	5,460	6,880
23	3,730	4,680	77,300	21,600	18,800	29,300	17,500	11,600	6,150	3,500	5,110	6,270
24	3,850	4,080	50,200	23,500	31,200	25,500	15,900	11,900	7,830	3,560	5,370	6,280
25	4,110	3,970	39,400	22,900	26,400	22,900	14,700	11,100	7,290	3,680	4,820	7,200
26	4,140	5,020	35,900	21,600	22,800	21,000	13,800	10,700	6,750	3,890	4,310	6,590
27	3,780	5,560	42,500	20,900	19,500	19,700	12,800	9,590	6,140	4,100	4,200	6,050
28	3,660	7,430	52,800	23,500	17,100	18,100	11,900	8,880	6,240	4,090	4,570	5,560
29	4,930	9,230	54,400	35,400	------	16,600	11,200	8,480	6,440	4,030	5,020	16,500
30	13,000	11,700	42,900	38,600	------	17,000	10,700	7,850	7,640	4,400	5,580	15,900
31	15,100	------	35,000	33,800	------	25,100	------	7,840	------	8,740	8,340	------
TOTAL	158,440	189,180	963,050	602,700	458,140	596,900	791,400	453,110	227,810	149,590	177,600	350,840
MEAN	5,111	6,306	31,070	19,440	16,360	19,250	26,380	14,620	7,594	4,825	5,729	11,690
MAX	15,100	12,300	107,000	38,600	31,200	29,300	44,800	40,000	13,000	8,740	10,300	26,400
MIN	3,520	3,970	7,660	10,700	9,230	13,200	10,700	7,840	4,210	2,990	3,610	5,560
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 6,057,630 MEAN 16,600 MAX 109,000 MIN 3,520 CFSM - IN. -
WTR YR 1974 TOTAL 5,118,760 MEAN 14,020 MAX 107,000 MIN 2,990 CFSM - IN. -

PEAK DISCHARGE (BASE, 50,000 CFS).--Dec. 22 (1500) 119,000 cfs (18.90 ft); Dec. 28 (2115) 58,800 cfs (14.79 ft),

01465500 Neshaminy Creek near Langhorne, Pa.

LOCATION.--Lat 40°10'26", long 74°57'26", Bucks County, on left bank at bridge on State Highway 213, 0.3 mi (0.5 km) downstream from Mill Creek, and 1.7 mi (2.7 km) west of Langhorne.

DRAINAGE AREA.--210 mi^2 (544 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 40.57 ft (12.366 m) above mean sea level.

AVERAGE DISCHARGE.--40 years, 282 ft^3/s (7.986 m^3/s), 18.24 in/yr (463 mm/yr).

EXTREMES.--Current year: Maximum discharge, 15,700 ft^3/s (445 m^3/s) Dec. 21 (gage height, 13.36 ft or 4.072 m), from rating curve extended as explained below; minimum, 18 ft^3/s (0.51 m^3/s) Oct. 29; minimum gage height, 0.59 ft (0.180 m) July 23.

Period of record: Maximum discharge, 49,300 ft^3/s (1,400 m^3/s) Aug. 19, 1955 (gage height, 22.84 ft or 6.962 m, from floodmarks), from rating curve extended above 4,700 ft^3/s (133 m^3/s) on basis of contracted-opening measurement at gage height 15.94 ft (4.859 m), and slope-area measurement of peak flow; minimum, 1.9 ft^3/s (0.054 m^3/s) Sept. 8, 1957; minimum gage height, 0.35 ft (0.107 m) Sept. 1, 2, 1963.

Flood of Aug. 23, 1933, reached a stage of 17.3 ft (5.27 m), from floodmark (discharge, 30,000 ft^3/s or 850 m^3/s, from rating curve extended as explained above).

REMARKS.--Records good. Some regulation at low flow by mills above station. Occasional regulation by Springfield Lake (capacity, 650 mil gal or 2.460 hm^3) completed in 1934; no significant regulation except during period May 1934 to January 1944, when the lake was filling, and in September 1949, July 1954, July through October 1957, September, October 1961. Interceptor sewer installed along left bank in May, June 1966.

REVISIONS (WATER YEARS).--WSP 1332: 1949. WSP 1432: 1936-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	168	77	638	309	355	604	176	120	123	47	163
2	165	125	59	506	283	312	378	155	200	125	1,130	163
3	339	106	54	454	276	244	450	200	224	91	1,070	165
4	137	89	52	833	248	231	620	209	133	77	609	165
5	85	79	215	589	197	221	1,000	163	106	173	387	160
6	59	75	905	458	190	200	870	163	100	109	261	153
7	49	67	251	420	188	185	700	165	85	91	234	748
8	45	63	168	395	185	179	780	147	83	69	221	370
9	42	63	1,260	335	182	580	690	155	81	56	358	212
10	39	59	1,020	327	180	575	638	790	77	50	403	173
11	34	52	395	801	178	362	538	403	69	47	231	160
12	33	50	279	1,210	173	294	441	362	61	39	194	241
13	32	50	241	571	197	258	1,010	1,530	56	33	185	160
14	30	49	1,030	395	234	221	967	424	50	32	182	454
15	26	49	475	391	194	203	613	268	49	32	182	231
16	24	50	327	378	163	309	520	218	85	30	176	158
17	24	43	335	360	163	1,020	445	188	618	26	168	137
18	22	39	251	350	155	497	399	171	165	24	171	128
19	24	39	272	351	182	462	366	153	106	34	168	118
20	24	39	258	387	399	374	362	137	83	52	165	111
21	24	37	11,000	938	261	327	316	128	104	36	155	111
22	22	39	1,770	1,570	251	301	294	125	113	27	153	118
23	21	37	855	910	391	272	305	179	218	24	155	109
24	16	37	662	687	248	254	290	203	286	43	158	89
25	21	39	533	538	231	261	248	135	147	75	158	85
26	22	40	2,580	454	221	2,170	228	113	125	61	160	85
27	21	40	3,740	533	203	1,070	212	104	106	43	160	85
28	19	125	938	480	212	580	200	112	100	34	160	135
29	672	188	667	445	------	436	191	128	165	32	158	2,510
30	1,130	111	580	382	------	411	182	130	147	57	160	374
31	261	------	515	343	------	561	------	130	------	109	163	------
TOTAL	3,527	2,047	31,764	17,429	6,294	13,725	14,857	7,664	4,062	1,854	8,282	8,071
MEAN	114	68.2	1,025	562	225	443	495	247	135	59.8	267	269
MAX	1,130	188	11,000	1,570	399	2,170	1,010	1,530	618	173	1,130	2,510
MIN	16	37	52	327	155	179	182	104	49	24	47	85
CFSM	.54	.32	4.88	2.68	1.07	2.11	2.36	1.18	.64	.28	1.27	1.28
IN.	.62	.36	5.63	3.09	1.11	2.43	2.63	1.36	.72	.33	1.47	1.43

CAL YR 1973 TOTAL 179,028 MEAN 490 MAX 11,000 MIN 16 CFSM 2.33 IN 31.71
WTR YR 1974 TOTAL 119,576 MEAN 328 MAX 11,000 MIN 16 CFSM 1.56 IN 21.18

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1430	13.36	15,700	8- 2	2200	9.76	8,300
12-27	0130	10.26	9,150	9-29	0630	8.50	6,400
3-26	0900	8.65	6,610				

01465770 Poquessing Creek at Trevose Road, Philadelphia, Pa.

LOCATION.--Lat 40°07'55", long 74°59'40", Bucks County, on right bank 30 ft (9 m) downstream from Trevose Road Bridge, 1 mi (1.6 km) southwest of Trevose.

DRAINAGE AREA.--5.08 mi^2 (13.2 km^2).

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 120 ft (37 m) from topographic map.

AVERAGE DISCHARGE.--10 years, 7.07 ft^3/s (0.200 m^3/s), 18.90 in/yr (480 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,030 ft^3/s (29.2 m^3/s) Aug. 4 (gage height, 6.56 ft or 2.00 m), from rating curve extended as explained below; minimum 0.78 ft^3/s (0.022 m^3/s) Oct. 23; minimum gage height, 1.35 ft (0.411 m) Aug. 15.
Period of record: Maximum discharge, 2,100 ft^3/s (59.5 m^3/s) Aug. 28, 1971 (gage height, 8.38 ft or 2.554 m, in gage well, 9.10 ft or 2.774 m outside, from floodmark), from rating curve extended above 150 ft^3/s (4.2 m^3/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.1 ft^3/s (0.003 m^3/s) Aug. 31, 1966.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD Penna. 1972: 1970(M), 1971(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	6.5	1.6	11	4.3	8.2	10	3.6	7.5	7.9	1.5	2.2
2	20	2.0	1.5	5.0	4.3	5.3	11	3.6	20	2.6	120	20
3	4.5	1.6	1.5	11	4.0	4.8	7.9	12	5.0	2.6	7.5	43
4	1.7	1.6	1.5	18	4.3	4.5	11	3.8	3.8	2.6	100	17
5	1.4	2.0	26	6.2	4.0	4.3	18	3.8	3.4	38	7.5	3.8
6	1.6	1.6	7.5	5.3	3.2	4.0	8.6	3.8	3.2	4.5	2.6	3.6
7	1.4	1.6	2.6	5.0	9.0	4.0	6.2	4.5	3.4	3.0	7.5	36
8	1.2	1.6	1.9	4.5	4.5	5.5	9.8	3.8	3.4	2.6	2.5	4.0
9	1.4	1.6	45	5.0	4.5	15	46	13	3.2	2.5	43	3.2
10	1.3	1.5	5.5	7.9	4.3	8.2	10	36	3.0	4.3	5.5	2.8
11	1.4	1.5	3.0	34	4.3	4.5	7.5	6.2	2.6	2.3	2.6	2.6
12	1.6	1.5	2.5	12	4.5	4.5	6.2	29	2.6	2.2	2.3	2.6
13	1.5	1.6	11	5.9	6.2	4.0	23	9.4	2.6	2.0	2.0	3.0
14	1.5	1.5	28	5.0	5.3	3.8	9.0	5.5	2.6	2.0	1.7	19
15	1.6	1.5	3.8	6.2	3.8	3.8	7.2	5.0	2.5	2.0	1.6	3.0
16	1.6	1.4	3.4	9.8	4.0	32	5.9	4.5	18	2.0	1.5	2.8
17	1.3	1.4	5.7	8.2	4.3	10	5.7	4.5	3.8	1.7	9.8	2.6
18	1.3	1.2	3.0	5.3	3.8	5.0	5.3	4.3	3.0	1.7	2.6	2.6
19	1.4	1.5	2.6	7.5	14	4.3	6.5	3.8	2.6	2.0	2.3	2.5
20	1.3	1.4	17	5.5	11	3.6	5.3	3.6	2.5	1.6	2.3	2.5
21	.85	1.4	210	23	4.5	81	4.3	3.6	13	1.6	2.2	6.8
22	.85	1.4	9.4	7.2	8.6	8.2	4.0	3.8	3.6	1.6	4.8	3.2
23	.92	1.4	5.9	5.5	5.0	5.7	12	13	24	1.6	23	2.6
24	1.2	2.0	5.0	5.3	4.0	5.3	4.8	4.3	4.5	10	3.4	3.4
25	.99	1.7	4.5	5.3	5.0	4.8	4.3	3.6	3.4	2.2	2.8	2.5
26	1.2	2.2	48	5.5	6.2	4.5	3.8	3.4	3.4	1.9	2.6	2.5
27	.99	1.9	17	11	5.5	4.5	3.2	3.6	3.0	1.7	2.8	2.5
28	.99	16	6.5	6.2	8.2	4.3	3.0	7.5	7.2	1.6	3.6	39
29	81	3.0	5.7	5.7	------	10	4.3	9.4	4.8	1.6	3.0	12
30	6.5	1.7	5.3	5.3	------	44	4.0	14	3.0	13	2.6	3.8
31	2.8	------	6.2	5.3	------	110	------	3.8	------	1.7	2.3	------
TOTAL	148.49	68.8	498.1	263.6	154.6	421.6	267.8	233.7	168.6	128.6	379.4	257.1
MEAN	4.79	2.29	16.1	8.50	5.52	13.6	8.93	7.54	5.62	4.15	12.2	8.57
MAX	81	16	210	34	14	110	46	36	24	38	120	43
MIN	.85	1.2	1.5	4.5	3.2	3.6	3.0	3.4	2.5	1.6	1.5	2.2
CFSM	.94	.45	3.17	1.67	1.09	2.68	1.76	1.48	1.11	.82	2.40	1.69
IN.	1.09	.50	3.65	1.93	1.13	3.09	1.96	1.71	1.23	.94	2.78	1.88

CAL YR 1973 TOTAL 3,533.39 MEAN 9.68 MAX 210 MIN .85 CFSM 1.91 IN 25.87
WTR YR 1974 TOTAL 2,990.39 MEAN 8.19 MAX 210 MIN .85 CFSM 1.61 IN 21.90

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	1300	5.15	512	8- 2	2000	6.48	1,000
12-21	0245	5.66	696	8- 4	1800	6.56	1,030
3-21	1400	5.04	510	9- 3	0545	4.68	420
3-31	0045	5.14	537	9-28	2200	4.70	425
7- 5	1615	5.21	558				

01465785 Walton Run at Philadelphia, Pa.

LOCATION.--Lat 40°05'22", long 74°59'37", Philadelphia County, on right bank 110 ft (34 m) downstream from bridge on Decatur Road, 1 mi (1.6 km) upstream from mouth, Philadelphia.

DRAINAGE AREA.--2.17 mi^2 (5.62 km^2).

PERIOD OF RECORD.--July 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 77.63 ft (23.662 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 3.29 ft^3/s (0.093 m^3/s), 20.59 in/yr (523 mm/yr).

EXTREMES.--Current year: Maximum discharge, 422 ft^3/s (12.0 m^3/s) Aug. 2 (gage height, 6.16 ft or 1.878 m); minimum, 0.17 ft^3/s (0.005 m^3/s) Dec. 2, 3 (gage height, 2.27 ft or 0.692 m).
Period of record: Maximum discharge, 1,430 ft^3/s (40.5 m^3/s) Aug. 27, 1967 (gage height, 9.46 ft or 2.883 m), from rating extended above 740 ft^3/s (21.0 m^3/s) on basis of step-backwater analysis; minimum, 0.04 ft^3/s (0.001 m^3/s) Oct. 2, 1972 (gage height, 2.21 ft or 0.674 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	2.0	.32	3.8	1.1	3.6	3.8	1.2	3.2	4.0	.49	1.0
2	18	.60	.20	1.0	1.0	1.2	3.2	1.2	9.7	.86	20	4.3
3	2.8	.41	.43	6.7	.86	.95	1.7	7.2	1.2	.95	2.2	20
4	1.0	.40	.49	7.5	1.3	1.2	4.0	1.0	1.0	.70	14	5.0
5	.86	.50	17	1.2	1.2	1.1	9.4	.86	1.1	6.1	3.4	1.4
6	.49	.40	3.4	.86	1.2	1.1	2.7	3.6	1.1	.78	1.0	2.5
7	.32	.40	.70	1.0	4.9	1.1	1.5	1.5	1.5	.49	5.1	26
8	.70	.40	.43	1.0	1.2	1.8	4.0	1.1	1.0	.70	1.1	1.2
9	.78	.38	30	1.6	1.2	6.9	28	7.5	.86	.86	15	1.2
10	.78	.38	2.1	5.1	1.0	3.2	2.7	12	1.0	4.0	1.3	1.1
11	.78	.38	.86	22	1.2	1.1	1.7	1.5	1.0	1.5	.62	1.2
12	.70	.38	.62	4.0	1.6	1.1	1.3	9.7	1.0	1.2	.78	1.1
13	.43	.39	8.1	1.2	1.7	1.0	12	2.5	.86	1.5	1.0	3.4
14	.28	.40	10	1.1	1.6	.95	2.1	1.2	4.0	.70	1.3	11
15	.28	.37	.78	2.2	1.1	.95	1.6	1.1	9.0	1.3	2.7	.78
16	.30	.37	.62	3.8	1.2	17	1.5	1.1	2.1	1.7	1.1	.95
17	.30	.34	3.0	2.2	1.2	3.6	1.3	1.1	1.3	1.6	3.8	.95
18	.30	.31	.78	1.3	1.0	1.3	1.3	1.3	1.0	1.6	.95	1.0
19	.30	.37	.62	1.8	8.4	1.2	1.9	1.2	1.1	1.7	1.1	.95
20	.30	.35	21	.95	5.6	1.1	1.1	1.6	1.1	1.0	1.0	.95
21	.30	.70	63	10	1.3	24	1.0	1.8	5.6	.62	1.1	3.0
22	.30	.37	2.2	2.4	3.2	2.8	1.2	2.2	1.0	.62	3.6	1.2
23	.30	.24	1.0	1.5	1.2	1.3	6.9	6.9	16	.78	17	.90
24	.30	.78	.78	1.2	.78	1.0	1.3	1.2	1.6	5.9	1.2	.90
25	.30	.37	.70	1.2	1.9	1.0	1.3	.86	1.2	.78	.70	1.0
26	.49	.62	25	1.2	3.2	.95	1.2	.78	1.1	.49	.86	.92
27	.37	1.2	5.1	4.7	2.2	1.0	1.0	.78	1.2	.43	1.2	.90
28	.28	8.1	1.6	1.9	3.2	1.0	.95	3.2	5.1	.55	5.6	15
29	38	1.2	.95	1.6	------	6.9	1.2	4.0	1.7	.49	2.0	5.0
30	2.5	.49	1.1	1.2	------	36	1.2	4.0	.62	9.0	.84	1.5
31	1.0	------	2.8	1.2	------	29	------	1.2	------	.49	.68	------
TOTAL	74.62	23.60	205.68	98.41	56.54	156.40	104.05	86.38	79.24	53.39	112.72	116.30
MEAN	2.41	.79	6.63	3.17	2.02	5.05	3.47	2.79	2.64	1.72	3.64	3.88
MAX	38	8.1	63	22	8.4	36	28	12	16	9.0	20	26
MIN	.28	.24	.20	.86	.78	.95	.95	.78	.62	.43	.49	.78
CFSM	1.11	.36	3.06	1.46	.93	2.33	1.60	1.29	1.22	.79	1.68	1.79
IN.	1.28	.40	3.53	1.69	.97	2.68	1.78	1.48	1.36	.92	1.93	1.99

CAL YR 1973 TOTAL 1,520.33 MEAN 4.17 MAX 102 MIN .20 CFSM 1.92 IN 26.06
WTR YR 1974 TOTAL 1,167.33 MEAN 3.20 MAX 63 MIN .20 CFSM 1.47 IN 20.01

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0045	5.30	267	8- 4	1700	5.39	281
3-21	1345	5.19	250	8- 9	1830	5.66	327
8- 2	1915	6.16	422				

01465790 Byberry Creek at Chalfont Road, Philadelphia, Pa.

LOCATION.--Lat 40°05'01", long 74°58'57", Philadelphia County, on right bank 200 ft (61 m) downstream from Chalfont Road Bridge, 0.2 mi (0.3 km) downstream from Walton Run, Philadelphia.

DRAINAGE AREA.--5.34 mi^2 (13.8 km^2).

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 48.98 ft (14.929 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 8.57 ft^3/s (0.243 m^3/s), 21.79 in/yr (553 mm/yr).

EXTREMES.--Current year: Maximum discharge, 577 ft^3/s (16.3 m^3/s) Dec. 21 (gage height, 7.18 ft or 2.188 m); minimum, 0.42 ft^3/s (0.12 m^3/s) Sept. 23 (gage height, 1.66 ft or 0.506 m).
Period of record: Maximum discharge, 1,930 ft^3/s (54.7 m^3/s) Aug. 28, 1971 (gage height, 12.47 ft or 3.801 m, from floodmark), from rating curve extended above 950 ft^3/s (26.9 m^3/s); minimum, 0.4 ft^3/s (0.011 m^3/s) August 4, 1965; minimum gage height, 1.27 ft (0.387 m) June 4, 1965, before completion of control.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	8.2	1.9	8.2	3.9	8.8	12	3.3	20	7.7	1.9	1.5
2	52	2.8	1.8	3.6	3.9	4.9	9.5	3.3	11	2.4	48	20
3	7.7	2.6	1.9	13	3.9	4.2	6.2	12	3.5	2.8	6.2	56
4	2.8	2.4	2.0	18	4.2	4.6	11	3.9	2.6	2.8	26	18
5	2.8	3.1	39	4.6	3.9	4.6	23	3.6	2.5	12	8.8	2.4
6	2.2	2.6	8.2	3.6	4.2	3.9	5.0	6.6	2.3	3.3	2.2	3.1
7	2.1	2.6	2.6	3.3	12	4.2	10	3.9	2.5	2.0	9.9	53
8	2.2	2.6	2.2	3.3	4.2	4.9	17	3.3	2.5	2.6	2.2	2.8
9	2.6	2.8	65	4.6	4.6	16	64	11	2.3	2.6	40	2.2
10	2.6	2.4	6.2	9.9	3.9	8.2	8.2	25	2.1	8.2	6.2	2.1
11	2.6	2.4	3.3	47	4.2	3.9	6.2	4.2	1.9	2.6	1.9	2.6
12	2.6	2.6	2.6	10	4.6	3.9	5.7	17	1.9	2.2	1.9	2.1
13	2.1	2.8	12	4.6	5.4	3.6	25	6.0	1.8	2.2	1.7	4.9
14	1.9	2.8	21	3.6	4.6	3.6	7.1	4.0	1.8	2.4	2.1	25
15	1.9	2.8	3.1	5.7	3.6	3.6	5.7	3.5	1.7	2.4	3.4	2.2
16	2.4	2.8	2.8	8.2	3.9	37	4.9	3.4	16	3.1	1.9	2.1
17	2.4	3.3	7.1	6.6	4.6	8.8	4.6	3.3	5.5	3.3	6.7	2.1
18	2.1	4.6	2.8	4.2	3.9	4.9	4.6	3.1	1.9	2.4	2.1	2.1
19	2.1	5.7	2.4	5.7	19	4.6	5.7	2.9	1.8	2.4	2.1	2.1
20	2.6	4.9	32	3.9	17	3.9	4.6	2.8	4.5	1.9	1.9	2.1
21	2.4	2.8	163	24	4.6	96	3.9	2.8	14	1.7	1.9	8.2
22	2.4	3.3	6.7	7.1	8.2	7.7	3.9	4.5	3.0	2.0	6.7	2.8
23	2.8	2.4	4.2	4.9	4.6	5.7	13	11	33	1.9	36	1.9
24	2.6	5.7	3.3	4.6	3.6	4.9	4.6	3.5	3.6	10	2.6	1.7
25	2.8	4.6	3.1	4.2	6.6	4.6	3.9	3.4	2.8	2.2	2.1	1.9
26	2.4	3.3	51	4.2	8.2	4.6	3.6	3.3	2.6	1.6	1.7	1.9
27	2.4	5.4	13	10	6.6	4.2	3.6	5.0	2.4	1.6	2.2	1.7
28	2.4	20	4.9	5.7	6.2	4.2	3.3	8.0	9.3	1.9	14	40
29	111	4.2	3.6	4.9	------	42	3.6	12	4.9	1.9	3.9	8.0
30	7.2	2.0	3.9	3.9	------	61	3.6	7.0	2.4	17	2.4	2.5
31	3.3	------	6.2	3.9	------	100	------	3.5	------	1.9	1.7	------
TOTAL	243.8	120.5	482.8	249.0	168.1	477.0	287.0	190.1	168.1	115.0	252.3	279.0
MEAN	7.86	4.02	15.6	8.03	6.00	15.4	9.57	6.13	5.60	3.71	8.14	9.30
MAX	111	20	163	47	19	100	64	25	33	17	48	56
MIN	1.9	2.0	1.8	3.3	3.6	3.6	3.3	2.8	1.7	1.6	1.7	1.5
CFSM	1.47	.75	2.92	1.50	1.12	2.88	1.79	1.15	1.05	.69	1.52	1.74
IN.	1.70	.84	3.36	1.73	1.17	3.32	2.00	1.32	1.17	.80	1.76	1.94

CAL YR 1973 TOTAL 4,000.8 MEAN 11.0 MAX 218 MIN 1.6 CFSM 2.06 IN 27.87
WTR YR 1974 TOTAL 3,032.7 MEAN 8.31 MAX 163 MIN 1.5 CFSM 1.56 IN 21.13

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	1900	6.61	490	3-31	0030	6.56	483
10-29	1315	6.94	539	8- 2	2015	6.75	510
12- 9	1245	5.94	403	8- 4	1745	5.99	409
12-21	0130	7.18	577	8- 9	1945	6.63	493
3-21	1415	6.86	527	9- 3	0645	6.17	431

01467049 Wooden Bridge Run at Grant Avenue, Philadelphia, Pa.

LOCATION.--Lat 40°04'36", long 75°01'19", Philadelphia County, on left bank 20 ft (6.10 m) downstream from Grant Avenue Bridge in northeast Philadelphia.

DRAINAGE AREA.--1.06 mi^2 (2.75 km^2).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 80 ft (24.4 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 538 ft^3/s (15.2 m^3/s) Aug. 2 (gage height, 6.91 ft or 2.106 m); minimum, 0.20 ft^3/s (0.006 m^3/s) on many days in October to December, August, September (gage height, 2.22 ft or 0.677 m).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	1.4	.21	1.1	.38	.60	1.0	.55	1.4	1.9	.38	.36
2	6.3	.25	.21	.51	.43	.50	.90	.61	5.2	.40	11	4.2
3	.76	.25	.22	2.6	.49	.45	.80	2.8	1.3	.40	.68	15
4	.36	.30	.22	2.4	.49	.45	1.5	.63	.90	.40	7.9	3.1
5	.35	.49	9.4	.49	.49	.45	2.4	.52	.60	1.9	.80	.45
6	.34	.33	.71	.49	.52	.45	.86	1.3	1.5	.44	.38	.87
7	.34	.23	.30	.46	1.9	.45	.80	.66	.90	.38	2.1	10
8	.34	.23	.26	.40	.50	1.0	1.5	.51	.54	.40	.41	.48
9	.34	.25	10	.62	.50	2.7	5.0	3.1	.54	.38	2.8	.36
10	.37	.22	.45	2.0	.51	.97	.98	4.1	.54	1.9	.48	.37
11	.35	.22	.43	7.9	.52	.62	.81	.69	.51	.42	.36	.33
12	.34	.22	.40	2.0	.67	.55	.77	4.5	.48	.38	.35	.34
13	.34	.22	3.6	.70	.82	.51	4.9	.91	.44	.37	.36	2.9
14	.33	.24	1.8	.60	.53	.49	.93	.55	.41	.39	.35	3.6
15	.32	.23	.42	.88	.45	.45	.83	.49	.45	.37	.37	.37
16	.30	.23	.40	1.5	.66	7.6	.79	.49	4.0	.36	.38	.33
17	.30	.22	.39	.74	.59	.97	.76	.49	.70	.36	1.3	.34
18	.36	.22	.37	.56	.43	.62	.74	.62	.43	.41	.38	.32
19	.38	.23	.35	.79	.43	.60	.98	.55	.44	.44	.35	.35
20	.32	.23	12	.60	.43	.55	.76	.49	.47	.35	.35	.31
21	.23	.24	26	5.0	.42	15	.74	.43	2.0	.35	.36	1.7
22	.29	.25	.62	.60	.42	.87	.71	.59	.49	.36	2.0	.33
23	.33	.23	.51	.50	.42	.70	2.8	3.1	8.1	.38	11	.24
24	.30	.48	.47	.48	.42	.69	.72	.62	.58	2.5	.46	.25
25	.30	.36	.43	.48	.60	.64	.69	.49	.49	.42	.40	.27
26	.30	.22	9.9	.59	.70	.64	.66	.43	.46	.38	.50	.33
27	.30	.65	1.1	1.7	.50	.64	.68	.38	.46	.38	.48	.23
28	.30	3.1	.55	.80	.50	.64	.63	1.4	2.3	.37	5.6	7.5
29	22	.32	.49	.57	------	2.0	.55	2.9	.75	.35	.54	3.5
30	.43	.23	.61	.44	------	15	.55	1.1	.45	5.4	.37	.37
31	.30	------	1.9	.43	------	4.5	------	.49	------	.39	.37	------
TOTAL	38.28	12.29	84.72	38.93	15.72	62.30	36.74	36.49	37.83	23.63	53.56	59.10
MEAN	1.23	.41	2.73	1.26	.56	2.01	1.22	1.18	1.26	.76	1.73	1.97
MAX	22	3.1	26	7.9	1.9	15	5.0	4.5	8.1	5.4	11	15
MIN	.23	.22	.21	.40	.38	.45	.55	.38	.41	.35	.35	.23
CFSM	1.16	.39	2.58	1.19	.53	1.90	1.15	1.11	1.19	.72	1.63	1.86
IN.	1.34	.43	2.97	1.37	.55	2.19	1.29	1.28	1.33	.83	1.88	2.07

CAL YR 1973	TOTAL	-	MEAN	-	MAX	-	MIN	-	CFSM	-	IN	-
WTR YR 1974	TOTAL	499.59	MEAN	1.37	MAX	26	MIN	.21	CFSM	1.29	IN	17.53

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	1150	6.41	436	3-30	2200	4.81	178	9- 2	0055	5.38	257
12- 5	2045	5.38	257	8- 2	1845	6.91	538	9- 3	0520	6.69	492
12-21	1215	5.17	228	8- 4	1640	6.76	507	9-13	2350	5.19	231
3-21	1215	5.11	219	8-28	2005	6.17	391	9-29	1640	4.66	159

01467083 Tacony Creek near Jenkintown, Pa.

LOCATION.--Lat 40°05'08", long 75°08'08", Montgomery County, on right bank 700 ft (213 m) downstream from State Highway 73 (Washington Lane) and 0.5 mi (0.8 km) south of Jenkintown Railroad Station.

DRAINAGE AREA.--5.25 mi^2 (13.6 km^2).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 200 ft (61 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 3,180 ft^3/s (90.1 m^3/s) Aug. 23 (gage height, 7.54 ft or 2.298 m), from rating curve extended above 150 ft^3/s (4.25 m^3/s) on basis of slope-area measurement of peak flow; minimum, 2.1 ft^3/s (0.059 m^3/s) Aug. 15, 16, 17, 20, 21, 22 (gage height, 0.67 ft or 0.204 m).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	11	3.2	12	6.7	9.6	15	7.7	9.2	8.3	2.5	3.3
2	16	3.5	3.0	8.0	7.0	7.3	15	7.3	19	3.7	41	4.8
3	5.2	4.5	3.0	17	6.3	6.7	11	18	5.0	3.2	4.7	54
4	3.8	3.0	3.3	19	6.8	6.7	17	7.2	4.8	3.0	40	17
5	3.7	3.5	38	8.9	6.0	6.7	22	6.7	4.8	20	7.0	5.1
6	3.6	4.0	6.5	7.9	6.2	6.3	12	11	4.6	3.4	3.1	6.8
7	3.3	3.5	4.0	8.0	12	6.4	10	7.4	4.4	2.9	9.9	42
8	3.6	3.0	3.6	7.6	6.4	8.4	16	6.6	4.4	2.9	3.1	6.1
9	3.9	2.9	55	8.5	6.1	18	44	24	3.8	3.1	19	5.6
10	3.9	3.0	6.8	13	5.4	8.8	12	40	3.8	11	4.0	5.5
11	4.1	3.0	4.6	38	5.6	6.0	11	7.5	4.1	3.4	2.7	5.2
12	4.2	20	4.2	12	6.1	6.0	11	39	4.1	3.1	2.6	5.2
13	4.2	4.0	23	8.2	8.0	5.5	36	10	3.7	2.9	2.7	8.4
14	3.6	3.0	24	7.7	6.4	5.4	12	7.6	3.6	2.5	3.1	16
15	4.1	4.0	5.5	9.1	5.8	5.2	11	7.1	3.5	2.6	2.5	4.2
16	4.1	3.0	5.2	12	5.8	40	10	6.6	20	2.8	2.4	4.6
17	4.8	3.0	4.9	9.7	6.3	9.3	11	6.5	6.0	3.1	23	4.5
18	4.3	3.0	4.5	7.7	5.7	6.5	10	6.4	3.6	3.0	2.9	4.4
19	4.0	3.5	4.2	10	18	6.7	12	5.9	3.5	3.9	2.4	4.4
20	4.0	3.0	58	7.5	9.0	6.1	9.9	5.3	3.4	2.5	2.5	4.4
21	3.7	3.0	168	46	6.5	60	9.4	5.6	14	2.4	2.4	12
22	3.8	3.0	13	11	13	9.1	9.4	8.7	3.7	2.4	3.0	4.1
23	3.9	4.0	9.9	8.8	7.1	7.9	18	18	36	2.5	250	4.5
24	4.2	5.0	8.2	8.0	6.6	7.2	9.2	6.0	4.4	17	6.8	4.3
25	4.0	3.5	7.3	7.6	8.9	6.6	9.0	5.0	3.7	2.8	4.6	4.5
26	4.1	4.3	63	8.0	9.3	6.7	8.5	4.6	3.5	2.7	4.5	4.4
27	4.4	9.5	14	14	7.8	6.8	8.6	4.3	3.5	2.8	4.4	4.4
28	4.0	27	10	8.2	9.4	6.4	7.9	8.9	12	2.3	19	83
29	78	4.6	9.2	7.6	------	18	8.2	9.8	5.4	2.4	4.7	15
30	12	3.5	9.4	6.9	------	94	7.6	9.1	3.2	16	4.1	6.7
31	5.3	------	13	6.8	------	47	------	4.9	------	2.6	3.8	------
TOTAL	219.2	158.8	589.5	364.7	214.2	451.3	403.7	322.7	208.7	147.2	488.4	354.4
MEAN	7.07	5.29	19.0	11.8	7.65	14.6	13.5	10.4	6.96	4.75	15.8	11.8
MAX	78	27	168	46	18	94	44	40	36	20	250	83
MIN	3.3	2.9	3.0	6.8	5.4	5.2	7.6	4.3	3.2	2.3	2.4	3.3
CFSM	1.35	1.01	3.62	2.25	1.46	2.78	2.57	1.98	1.33	.90	3.01	2.25
IN.	1.55	1.13	4.18	2.58	1.52	3.20	2.86	2.29	1.48	1.04	3.46	2.51

CAL YR 1973	TOTAL -	MEAN -	MAX -	MIN -	CFSM -	IN -
WTR YR 1974	TOTAL 3,922.8	MEAN 10.7	MAX 250	MIN 2.3	CFSM 2.04	IN 27.80

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	1300	3.34	526	5-12	1845	3.26	479	8-23	0400	7.54	3,180
12-21	0030	3.66	657	7- 5	1545	3.09	416	8-28	1930	3.28	487
1-21	1400	3.79	720	8- 2	2100	3.17	444	9- 3	1930	3.51	590
3-21	1215	3.20	455	8- 4	1730	3.83	740	9-28	2045	4.54	1,130
3-30	2145	3.16	441								

01467084 Rock Creek above Curtis Arboretum near Philadelphia, Pa.

LOCATION.--Lat 40°04'54", long 75°09'03", Montgomery County, on right bank 60 ft (18 m) upstream from stone arch bridge, 1,600 ft (488 m) upstream from Washington Lane, Cheltenham Township and about 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--1.15 mi^2 (2.98 km^2).

PERIOD OF RECORD.--May 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 245 ft (75 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 936 ft^3/s (26.5 m^3/s) Aug. 23 (gage height, 6.56 ft or 1.999 m), from rating curve extended above 130 ft^3/s (3.7 m^3/s); minimum, 0.42 ft^3/s (0.012 m^3/s) July 15, 16, 21, 22 (gage height, 2.25 ft or 0.686 m).
Period of record: Maximum discharge, 936 ft^3/s (26.5 m^3/s) Aug. 23, 1974 (gage height, 6.56 ft or 1.999 m), from rating curve extended above 130 ft^3/s (3.7 m^3/s); minimum, 0.27 ft^3/s (0.008 m^3/s) July 27, 1972 (gage height, 2.11 ft or 0.643 m).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.78	2.1	.60	1.8	1.0	1.3	2.5	1.4	4.8	2.5	.92	.96
2	6.7	.66	.57	1.5	1.1	1.1	2.3	1.4	7.9	1.3	12	1.4
3	.98	.78	.57	4.9	1.0	1.0	1.8	5.3	3.0	1.4	1.2	20
4	.90	.60	.57	1.8	1.1	1.0	3.4	1.5	2.0	1.0	14	3.7
5	.90	.67	12	1.6	1.1	1.0	5.7	1.4	1.5	6.9	1.7	1.0
6	.86	.74	.78	1.4	1.0	1.0	1.8	3.3	2.9	.86	.94	1.4
7	.86	.57	.60	1.6	2.1	.98	1.7	1.4	1.5	.74	3.8	16
8	.90	.57	.60	1.3	1.1	1.7	3.7	1.3	1.3	.63	1.0	1.4
9	.86	.60	15	1.5	1.1	5.3	12	9.9	1.3	.71	3.2	1.1
10	.86	.63	1.2	2.6	1.0	1.3	1.9	14	1.3	.74	1.0	1.1
11	.94	.63	1.1	11	1.0	1.0	1.7	1.5	1.2	.67	.90	1.1
12	1.0	3.7	1.0	1.9	1.1	.98	1.7	12	1.1	.63	.89	1.1
13	.94	.78	8.5	1.5	1.3	.98	11	1.7	1.1	.67	.86	1.3
14	.82	.50	4.7	1.4	1.0	.98	1.9	1.5	.99	.63	.96	3.4
15	.82	.71	1.3	1.8	.98	.98	1.8	1.4	1.1	.55	.80	1.0
16	.86	.57	1.3	2.1	1.1	15	1.7	1.3	9.0	.57	.78	1.0
17	.86	.52	1.3	1.6	1.0	1.5	1.8	1.3	1.8	.60	4.3	1.0
18	.86	.52	1.3	1.3	.98	1.2	1.8	1.3	1.1	.67	.91	1.1
19	.82	.57	1.2	1.7	4.6	1.2	2.2	1.2	1.0	.63	.88	1.0
20	.82	.52	20	1.3	1.4	1.2	1.9	1.1	.97	.60	.84	.98
21	.84	.55	36	11	1.0	20	2.0	1.2	4.3	.52	.79	5.0
22	.86	.55	2.0	1.3	2.9	1.5	1.8	4.3	1.1	.52	1.3	.86
23	.90	.55	1.9	1.2	1.0	1.3	4.1	5.9	12	.57	47	.74
24	1.0	.74	1.9	1.1	1.0	1.3	1.7	1.9	1.2	6.2	1.1	.74
25	.96	.67	1.9	1.1	1.3	1.3	1.6	4.6	1.1	.99	.96	.74
26	1.0	.55	18	1.2	1.4	1.3	1.5	4.7	1.1	.90	.91	.74
27	1.2	2.1	2.1	2.6	1.2	1.3	1.5	4.9	1.0	.92	.92	.74
28	1.0	5.6	1.7	1.2	1.2	1.3	1.5	5.9	3.5	.93	2.4	18
29	29	.67	1.5	1.1	------	8.1	1.5	4.3	1.4	.94	1.1	3.5
30	3.3	.60	2.0	1.1	------	29	1.5	4.6	1.1	6.9	.96	1.0
31	.67	------	3.3	1.1	------	10	------	3.2	------	.96	.99	------
TOTAL	64.07	29.52	146.49	69.6	37.06	117.10	83.0	110.7	74.66	43.35	110.31	93.10
MEAN	2.07	.98	4.73	2.25	1.32	3.78	2.77	3.57	2.49	1.40	3.56	3.10
MAX	29	5.6	36	11	4.6	29	12	14	12	6.9	47	20
MIN	.67	.50	.57	1.1	.98	.98	1.5	1.1	.97	.52	.78	.74
CFSM	1.80	.85	4.11	1.96	1.15	3.29	2.41	3.10	2.17	1.22	3.10	2.70
IN.	2.07	.95	4.74	2.25	1.20	3.79	2.68	3.58	2.42	1.40	3.57	3.01

CAL YR 1973 TOTAL 1,016.15 MEAN 2.78 MAX 44 MIN .45 CFSM 2.42 IN 32.87
WTR YR 1974 TOTAL 978.96 MEAN 2.68 MAX 47 MIN .50 CFSM 2.33 IN 31.67

PEAK DISCHARGE (BASE, 250 CFS).--Aug. 23 (0310) 936 cfs (6.56 ft); Sept. 28 (2040) 278 cfs (4.35 ft).

01467085 Jenkintown Creek at Elkins Park, Pa.

LOCATION.--Lat 40°04'45", long 75°06'36", Montgomery County, on right bank 20 ft (6 m) downstream from Cedar Road bridge, 0.5 mi (0.8 km) east of Elkins Park, and 1 mi (1.6 km) west of Rockledge.

DRAINAGE AREA.--1.17 mi^2 (3.03 km^2).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 220 ft^3/s (6.23 m^3/s) Aug. 4 (gage height, 3.02 ft or 0.920 m); minimum, 0.22 ft^3/s (0.006 m^3/s) Oct. 17, 18 (gage height, 1.17 ft or 0.357 m).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	1.4	.45	1.5	1.6	2.2	4.3	2.2	2.1	1.4	.45	.63
2	3.0	.94	.45	1.6	1.7	1.8	4.0	2.2	4.0	.79	11	3.0
3	.55	.98	.47	2.7	1.6	1.7	3.7	3.7	2.2	.76	1.5	6.1
4	.54	1.0	.63	2.8	1.6	1.5	4.1	2.5	1.6	.76	13	3.1
5	.52	1.2	5.6	1.6	1.4	1.4	5.3	2.2	1.3	1.5	1.4	.83
6	.50	1.4	1.3	1.6	1.3	1.4	3.3	2.6	1.3	.83	.70	1.1
7	.50	1.3	.60	1.6	1.4	1.4	3.1	2.4	1.1	.69	1.5	7.1
8	.52	1.4	.60	1.3	1.6	1.7	3.1	1.9	1.1	.51	.81	1.1
9	.50	1.6	8.0	1.5	1.6	3.0	8.6	3.7	1.1	.54	2.0	.94
10	.50	.99	1.1	2.0	1.6	2.1	3.3	9.1	.94	1.0	.92	.96
11	.54	.69	.76	6.1	1.4	1.6	3.1	2.4	.76	.68	.70	.79
12	.50	.77	.65	2.6	1.4	1.6	2.9	7.2	.76	.55	.70	.76
13	.48	1.0	1.8	2.0	1.8	1.6	5.6	2.7	.76	.58	.61	1.8
14	.48	1.1	4.5	1.8	1.6	1.6	3.4	2.0	.76	.56	.62	1.9
15	.48	1.1	.95	2.0	1.4	1.6	3.1	2.0	.60	.56	.60	.80
16	.51	2.0	.83	2.5	1.4	6.4	2.7	1.8	2.4	.54	.61	.80
17	.47	2.0	.80	2.3	1.6	3.1	2.7	1.3	1.6	.43	2.4	.80
18	.45	1.6	.78	1.9	1.4	2.4	2.6	1.3	.94	.45	.78	1.0
19	.39	.60	.76	2.1	2.7	2.3	2.6	1.3	.60	.54	.55	1.0
20	.41	.60	1.6	1.8	2.4	2.1	2.5	1.3	.60	.45	.60	1.2
21	.50	.60	38	6.1	1.6	14	2.4	1.3	1.3	.45	.57	2.1
22	.45	.45	2.5	2.1	2.1	2.3	2.4	1.6	.94	.45	.70	.97
23	.45	.37	2.0	1.8	1.7	2.0	3.6	2.9	5.0	.46	17	.77
24	.71	.61	1.7	1.7	1.6	2.0	2.6	1.6	1.1	2.6	.88	.76
25	.77	.93	1.6	1.7	1.8	2.0	2.4	1.1	.94	.66	.75	.77
26	.76	.90	10	1.8	1.8	2.0	2.5	.94	.94	.60	.68	.79
27	.80	1.0	2.0	2.4	1.6	2.0	2.3	.94	.84	.54	.69	.65
28	.90	3.0	1.7	1.9	1.9	2.0	2.2	1.3	1.7	.46	1.6	7.6
29	15	.76	1.6	1.8	------	3.1	2.2	1.1	1.3	.49	.88	2.4
30	2.0	.45	1.5	1.6	------	17	2.2	1.8	.91	2.6	.64	.86
31	.60	------	2.0	1.6	------	12	------	1.3	------	.55	.62	------
TOTAL	35.43	32.74	97.23	67.8	46.6	102.9	98.8	71.68	41.49	23.98	66.46	53.38
MEAN	1.14	1.09	3.14	2.19	1.66	3.32	3.29	2.31	1.38	.77	2.14	1.78
MAX	15	3.0	38	6.1	2.7	17	8.6	9.1	5.0	2.6	17	7.6
MIN	.39	.37	.45	1.3	1.3	1.4	2.2	.94	.60	.43	.45	.63
CFSM	.97	.93	2.68	1.87	1.42	2.84	2.81	1.97	1.18	.66	1.83	1.52
IN.	1.13	1.04	3.09	2.16	1.48	3.27	3.14	2.28	1.32	.76	2.11	1.70

CAL YR 1973	TOTAL -	MEAN -	MAX -	MIN -	CFSM -	IN -
WTR YR 1974	TOTAL 738.49	MEAN 2.02	MAX 38	MIN .37	CFSM 1.73	IN 23.48

PEAK DISCHARGE (BASE, 80 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	2030	2.33	84	8- 4	1645	3.02	220
12-21	0300	2.67	142	8-23	0410	2.87	183
3-30	2225	2.41	96	9- 2	0110	2.37	90
5-10	0755	2.34	86	9- 3	0550	2.30	80
8- 2	1850	2.78	164	9-28	2030	2.33	84

01468500 Schuylkill River at Landingville, Pa.

LOCATION.--Lat 40°37'45", long 76°07'30", Schuylkill County, on left bank 10 ft (3 m) upstream from highway bridge at Landingville, 0.1 mi (0.2 km) upstream from Mahannon Creek, and 5 mi (8.0 km) downstream from West Branch Schuylkill River.

DRAINAGE AREA.--133 mi^2 (344 km^2).

PERIOD OF RECORD.--August 1947 to April 1953, October 1963 to September 1965, August 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 470.64 ft (143.451 m) above mean sea level. Prior to Aug. 27, 1947 nonrecording gage 10 ft (3 m) downstream at same datum.

AVERAGE DISCHARGE.--8 years (1947-52, 1963-65, 1974), 274 ft^3/s (7.76 m^3/s), 27.98 in/yr (711 mm/yr).

EXTREMES.--August to September 1973: Maximum discharge during period, 2,690 ft^3/s (76.2 m^3/s) Aug. 1 (gage height, 9.36 ft or 2.853 m), from rating curve extended above 650 ft^3/s (18.4 m^3/s); minimum, 85 ft^3/s (2.41 m^3/s) Sept. 9, 10 (gage height, 3.48 ft or 1.061 m).

Water year 1974: Maximum discharge, 4,540 ft^3/s (129 m^3/s) Dec. 21 (gage height, 11.44 ft or 3.487 m), from rating curve extended above 650 ft^3/s (18.4 m^3/s); minimum, 97 ft^3/s (2.75 m^3/s) Oct. 28 (gage height, 3.58 ft or 1.091 m).

Period of record: Maximum discharge 8,570 ft^3/s (243 m^3/s) Nov. 25, 1950 (gage height, 13.29 ft or 4.051 m); minimum, 19 ft^3/s (0.54 m^3/s) Oct. 30, 31, Nov. 4, 1963.

Flood in June 1972 reached a stage of 17.36 ft (5.291 m).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											732	112
2											675	98
3											418	96
4											329	104
5											271	113
6											244	113
7											224	107
8											204	102
9											190	88
10											476	89
11											379	95
12											276	97
13											271	94
14											221	683
15											215	544
16											223	232
17											197	186
18											180	644
19											167	418
20											165	337
21											157	287
22											153	263
23											147	314
24											143	247
25											135	225
26											129	214
27											126	210
28											120	200
29					------						127	260
30					------						124	230
31		------			------		------		------		120	------
TOTAL											7,538	6,802
MEAN											243	227
MAX											732	683
MIN											120	88
CFSM											1.83	1.71
IN.											2.11	1.90

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8- 1	1700	9.36	2,690	9-14	2115	9.16	2,530
8-10	2045	8.70	2,190	9-18	1230	7.95	1,690

01468500 Schuylkill River at Landingville, Pa.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	192	149	598	547	399	624	235	296	560	130	207
2	210	157	137	531	503	364	624	222	221	360	120	392
3	270	147	144	508	443	319	645	232	210	280	330	474
4	220	139	141	483	411	316	1,040	208	206	250	260	517
5	200	152	508	418	373	317	1,230	205	201	220	210	375
6	190	141	401	374	345	293	1,130	209	192	210	180	308
7	190	134	365	360	331	273	922	208	189	190	160	460
8	180	132	308	337	307	370	786	205	172	180	157	304
9	180	139	879	334	278	660	858	238	168	160	213	277
10	230	122	916	326	252	683	711	232	168	170	179	271
11	190	116	731	365	251	603	646	208	184	200	146	253
12	180	123	575	357	249	559	593	531	165	150	143	265
13	170	129	527	278	243	504	540	701	171	142	143	284
14	170	125	633	264	231	439	547	549	164	136	137	284
15	160	115	515	271	209	406	722	477	159	136	132	226
16	150	121	461	280	209	512	583	408	196	136	120	207
17	150	123	455	302	203	497	523	373	171	133	140	196
18	140	111	413	274	198	429	474	361	153	132	160	180
19	140	113	356	275	261	424	453	308	148	137	130	173
20	140	118	503	240	261	407	408	292	146	131	118	192
21	150	106	3,650	510	216	624	353	287	143	116	117	199
22	140	103	2,140	655	682	570	334	306	140	120	118	178
23	140	101	1,200	655	696	529	333	341	221	128	129	159
24	130	119	826	623	557	481	304	285	176	170	112	149
25	116	115	644	576	517	441	273	268	194	140	104	147
26	112	111	798	556	463	422	265	233	156	120	109	146
27	120	110	1,230	581	412	393	262	225	146	110	110	139
28	101	195	1,160	667	369	349	240	233	171	120	117	380
29	183	201	946	750	------	332	240	237	250	130	114	279
30	303	171	742	685	------	406	243	232	200	300	251	216
31	182	------	654	628	------	661	------	214	------	180	139	------
TOTAL	5,347	3,981	23,107	14,061	10,017	13,982	16,906	9,263	5,477	5,647	4,728	7,837
MEAN	172	133	745	454	358	451	564	299	183	182	153	261
MAX	303	201	3,650	750	696	683	1,230	701	296	560	330	517
MIN	101	101	137	240	198	273	240	205	140	110	104	139
CFSM	1.29	1.00	5.60	3.41	2.69	3.39	4.24	2.25	1.38	1.37	1.15	1.96
IN.	1.50	1.11	6.46	3.93	2.80	3.91	4.73	2.59	1.53	1.58	1.32	2.19

CAL YR 1973	TOTAL	-	MEAN	-	MAX	-	MIN	-	CFSM	-	IN	-
WTR YR 1974	TOTAL	120,353	MEAN	330	MAX	3,650	MIN	101	CFSM	2.48	IN	33.66

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1345	7.44	1,380	2-22	1600	7.47	1,400
12-21	1200	11.44	4,540	4-14	2315	7.44	1,380
12-27	0015	7.44	1,380	5-12	2015	7.80	1,600

01469500 Little Schuylkill River at Tamaqua, Pa.

LOCATION.--Lat 40°48'25", long 75°58'20", Schuylkill County, on left bank at pumping plant of Panther Valley Water Co., 0.6 mi (1.0 km) upstream from Tamaqua, and 0.8 mi (1.3 km) upstream from Panther Creek.

DRAINAGE AREA.--42.9 mi^2 (111.1 km^2).

PERIOD OF RECORD.--October 1919 to current year. Monthly discharge only for some periods, published in WSP 1302. June 1916 to September 1919 (gage heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 817.48 ft (249.168 m) above mean sea level. Prior to June 21, 1929, nonrecording gage at site 3,600 ft (1,100 m) downstream at datum 28.64 ft (8.729 m) lower.

AVERAGE DISCHARGE.--55 years, 92.0 ft^3/s (2.61 m^3/s), 29.12 in/yr (740 mm/yr), adjusted for diversion and, since February 1933, for storage.

EXTREMES.--Current year: Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) Dec. 21 (gage height, 5.22 ft or 1.591 m); minimum, 8.2 ft^3/s (0.23 m^3/s) Aug. 14, 15 (gage height, 1.78 ft or 0.543 m).
Period of record: Maximum discharge, 7,790 ft^3/s (221 m^3/s) Aug. 18, 1955 (gage height, 11.10 ft or 3.383 m), from rating curve extended above 3,200 ft^3/s (91 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 1.8 ft^3/s (0.051 m^3/s) Dec. 18, 1931 (gage height, 1.21 ft or 0.369 m); minimum daily, 2.9 ft^3/s (0.082 m^3/s) Sept. 2, 1966.

REMARKS.--Records fair. Flow regulated by Still Creek Reservoir 6.5 mi (10.5 km) upstream (see p. 94). Figures of daily discharge do not include water diverted from reservoir.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 971: 1942. WSP 1302: 1922, 1926-30. WSP 1432: 1920-21, 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	176	59	211	214	110	138	42	57	151	26	51
2	62	146	52	181	193	128	136	37	56	79	26	104
3	66	126	52	162	176	124	173	41	51	66	63	124
4	56	108	53	151	165	119	273	39	45	63	62	176
5	54	96	170	128	146	117	294	34	42	59	48	138
6	48	86	246	117	138	112	301	35	39	56	36	124
7	48	74	205	108	133	108	294	33	35	49	31	167
8	48	66	184	96	115	117	252	30	33	44	27	136
9	43	63	315	96	98	149	269	39	31	41	28	117
10	44	57	353	96	94	211	227	45	30	37	27	104
11	44	51	290	96	81	184	193	39	28	36	23	94
12	42	51	236	94	65	179	181	102	26	31	32	88
13	43	45	211	83	62	170	176	220	24	28	35	106
14	40	42	249	72	60	156	162	187	22	26	10	115
15	36	44	208	69	56	146	173	167	22	26	16	88
16	36	44	179	66	53	170	146	146	23	24	24	77
17	33	40	173	76	52	181	130	138	26	21	28	69
18	32	35	146	72	52	156	110	146	26	20	32	65
19	31	31	126	70	60	146	100	119	23	21	28	62
20	30	30	154	70	70	126	90	106	22	17	28	59
21	29	28	1,130	110	59	173	80	94	21	14	27	59
22	28	26	935	180	187	181	72	88	20	13	27	60
23	27	27	582	176	193	179	66	90	21	13	28	54
24	26	30	385	187	141	173	59	85	28	24	27	52
25	23	32	273	176	126	146	54	74	29	22	25	52
26	22	30	290	170	110	124	51	69	28	18	25	51
27	21	28	439	208	100	81	44	66	25	16	25	48
28	20	60	397	269	92	72	41	63	23	14	39	81
29	71	81	330	308	------	85	42	62	27	24	44	106
30	246	65	280	276	------	131	41	60	29	86	69	81
31	187	------	233	243	------	165	------	54	------	39	48	------
TOTAL	1,593	1,818	8,935	4,417	3,091	4,419	4,368	2,550	912	1,178	1,014	2,708
MEAN	51.4	60.6	288	142	110	143	146	82.3	30.4	38.0	32.7	90.3
MAX	246	176	1,130	308	214	211	301	220	57	151	69	176
MIN	20	26	52	66	52	72	41	30	20	13	10	48
(/)	4.4	4.3	10.8	9.1	6.3	8.4	9.6	5.9	4.6	1.9	3.2	4.6
MEAN≠	55.6	64.7	300	151	116	152	155	88.4	33.3	38.8	37.5	95.9
CFSM≠	1.30	1.51	6.99	3.52	2.70	3.54	3.61	2.06	.78	.90	.87	2.24
IN.≠	1.50	1.68	8.06	4.06	2.81	4.08	4.03	2.38	.87	1.04	1.00	2.50

CAL YR 1973 TOTAL 40,170 MEAN 110 MAX 1,130 MIN 13 MEAN≠ 114 CFSM≠ 2.66 IN.≠ 36.29
WTR YR 1974 TOTAL 37,003 MEAN 101 MAX 1,130 MIN 10 MEAN≠ 107 CFSM≠ 2.49 IN.≠ 34.01

PEAK DISCHARGE (BASE,700 CFS).--Dec. 21 (1130) 1,450 cfs (5.22 ft).

/ Diversion from Still Creek Reservoir, equivalent in cubic feet per second, furnished by Panther Valley Water Company.
≠ Adjusted for diversion and change in contents in Still Creek Reservoir.

01470500 Schuylkill River at Berne, Pa.

LOCATION.--Lat 40°31'21", long 75°59'55", Berks County, on right bank 50 ft (15 m) upstream from highway bridge at Berne, 0.5 mi (8 km) upstream from Mill Creek, and 6.5 mi (10.5 km) downstream from Little Schuylkill River.

DRAINAGE AREA.--355 mi^2 (919 km^2).

PERIOD OF RECORD.--August 1947 to current year. Monthly discharge only for August 1947, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 310.65 ft (94.686 m) above mean sea level.

AVERAGE DISCHARGE.--27 years, 689 ft^3/s (19.5 m^3/s), 26.36 in/yr (670 mm/yr).

EXTREMES.--Current year: Maximum discharge, 15,400 ft^3/s (436 m^3/s) Dec. 21 (gage height, 11.50 ft or 3.505 m); minimum, 164 ft^3/s (4.64 m^3/s) Aug. 26 (gage height, 4.84 ft or 1.475 m).
Period of record: Maximum discharge, 42,800 ft^3/s (1,210 m^3/s) June 22, 1972 (gage height, 19.0 ft or 5.79 m, from floodmark in gage shelter), from rating curve extended above 17,000 ft^3/s (481 m^3/s); minimum, 31 ft^3/s (0.88 m^3/s) Sept. 2, 1949.
Flood in May 1942, reached a stage of 15.0 ft (4.57 m), from floodmarks (discharge, 26,900 ft^3/s or 762 m^3/s).

REMARKS.--Records good. Some regulation at low flow by mine pumpage and by Still Creek Reservoir about 25 mi (40 km) upstream from station (see p. 94). Records of water quality for current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	432	745	408	1,660	1,530	901	1,970	472	577	1,100	246	271
2	432	615	393	1,430	1,360	867	1,910	440	506	684	235	811
3	540	523	378	1,290	1,260	833	1,890	480	440	532	653	596
4	440	515	371	1,260	1,120	778	2,750	440	393	463	472	1,130
5	416	472	1,020	1,080	970	778	3,210	416	371	424	432	767
6	385	440	1,750	1,020	878	714	3,150	416	336	408	336	615
7	385	401	1,390	936	833	653	2,640	408	322	371	290	901
8	378	371	1,140	833	756	725	2,140	371	315	343	265	745
9	364	371	2,350	800	663	1,570	2,210	401	329	322	271	615
10	455	357	3,060	789	643	1,910	1,880	568	315	322	401	549
11	371	350	2,320	844	624	1,680	1,630	432	302	364	296	506
12	343	350	1,780	890	549	1,500	1,530	855	284	296	271	463
13	343	329	1,520	745	523	1,310	1,450	2,680	277	277	265	643
14	350	329	2,160	653	523	1,140	1,310	1,720	265	265	241	704
15	329	309	1,740	643	463	1,020	2,480	1,390	284	252	218	577
16	309	315	1,520	624	432	1,120	1,840	1,140	343	235	212	489
17	296	296	1,420	745	463	1,420	1,560	982	371	218	258	424
18	296	309	1,210	674	440	1,120	1,380	959	277	218	271	378
19	284	315	1,010	674	489	1,070	1,260	822	252	229	235	350
20	277	284	982	694	789	982	1,160	714	258	218	201	343
21	296	265	11,400	1,130	532	1,480	1,040	643	252	218	190	393
22	284	252	7,710	2,040	1,270	1,740	936	624	246	218	190	401
23	271	241	4,230	2,090	2,080	1,550	800	745	408	195	201	350
24	271	258	2,910	1,970	1,550	1,420	714	643	432	277	206	290
25	258	336	2,090	1,750	1,350	1,190	634	577	371	246	206	284
26	241	329	2,160	1,600	1,140	1,080	577	532	315	201	185	284
27	252	284	3,820	1,680	982	924	558	497	277	195	180	271
28	235	296	3,450	1,840	890	833	549	497	265	212	195	549
29	322	624	2,750	2,230	------	756	532	463	440	229	252	913
30	1,450	440	2,260	1,990	------	936	497	472	357	577	371	577
31	778	------	1,860	1,780	------	1,770	------	424	------	315	322	------
TOTAL	12,083	11,321	72,562	38,384	25,102	35,770	46,187	22,223	10,180	10,424	8,567	16,189
MEAN	390	377	2,341	1,238	897	1,154	1,540	717	339	336	276	540
MAX	1,450	745	11,400	2,230	2,080	1,910	3,210	2,680	577	1,100	653	1,130
MIN	235	241	371	624	432	653	497	371	246	195	180	271
CFSM	1.10	1.06	6.59	3.49	2.53	3.25	4.34	2.02	.95	.95	.78	1.52
IN.	1.27	1.19	7.60	4.02	2.63	3.75	4.84	2.33	1.07	1.09	.90	1.70

CAL YR 1973 TOTAL 349,984 MEAN 959 MAX 11,400 MIN 201 CFSM 2.70 IN 36.67
WTR YR 1974 TOTAL 308,992 MEAN 847 MAX 11,400 MIN 180 CFSM 2.39 IN 32.38

PEAK DISCHARGE (BASE, 4,400 CFS).--Dec. 21 (1400) 15,400 cfs (11.50 ft).

01470720 Maiden Creek tributary at Lenhartsville, Pa.

LOCATION.--Lat 40°34'23", long 75°52'34", Berks County, on left bank 60 ft (18 m) downstream from culvert on Interstate Highway 78, 0.5 mi (0.8 km) upstream from mouth and 0.5 mi (0.8 km) east of Lenhartsville.

DRAINAGE AREA.--7.46 mi^2 (19.3 km^2).

PERIOD OF RECORD.--Annual maximum and occasional discharge measurements, water years 1962-65. October 1965 to current year.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 368.78 ft (112.404 m) above mean sea level. July 12, 1961 to Sept. 15, 1965 crest-stage gage at site 60 ft (18 m) upstream at same datum.

AVERAGE DISCHARGE.--9 years, 11.6 ft^3/s (0.329 m^3/s), 21.12 in/yr (536 mm/yr).

EXTREMES.--Current year: Maximum discharge, 181 ft^3/s (5.13 m^3/s) Oct. 29 (gage height, 3.58 ft or 1.091 m); minimum, 1.0 ft^3/s (0.028 m^3/s) July 17 (gage height, 2.24 ft or 0.683 m).
Period of record: Maximum discharge, 1,530 ft^3/s (43.3 m^3/s) June 22, 1972 (gage height, 6.46 ft or 1.969 m) from peak-stage indicator, from rating curve extended above 280 ft^3/s (7.93 m^3/s) on basis of computation of peak flow through culvert; maximum gage height, 6.7 ft (2.04 m) Feb. 8, 1965, from floodmark; no flow on many days.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD Penna. 1972: 1967(M), 1969-71(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	20	3.1	22	21	13	57	3.9	5.9	11	1.5	4.1
2	4.0	13	2.9	16	18	9.6	48	3.6	3.9	4.9	4.1	8.8
3	4.2	10	2.9	16	15	8.4	34	5.8	3.4	4.3	5.5	5.8
4	3.3	8.4	3.0	17	12	8.0	73	4.1	3.0	3.8	9.4	5.9
5	3.1	7.4	28	15	11	7.4	72	3.6	2.7	3.8	7.0	3.9
6	2.7	6.4	34	14	9.0	6.9	54	4.1	2.5	3.4	4.2	3.8
7	2.5	5.6	29	13	8.4	7.0	41	3.8	2.5	2.8	3.6	11
8	2.5	5.2	22	12	7.6	15	33	3.4	2.6	2.5	3.2	6.2
9	2.5	4.9	38	12	7.2	34	37	3.9	2.4	2.3	3.9	5.9
10	2.7	4.3	39	11	6.6	39	30	4.7	2.2	2.1	3.4	5.0
11	2.5	4.0	34	15	6.2	34	28	3.5	2.1	1.9	2.4	4.5
12	2.3	3.9	26	13	5.6	28	24	25	2.0	1.7	2.2	4.1
13	2.3	3.7	25	12	6.1	22	24	27	1.9	1.6	2.2	11
14	2.3	3.6	27	11	5.9	17	19	22	1.9	1.5	2.0	22
15	2.1	3.5	25	9.6	5.0	14	20	18	1.8	1.7	1.7	16
16	2.0	3.6	23	10	4.7	20	15	14	5.1	1.6	1.6	12
17	1.8	3.2	19	11	4.7	16	14	11	3.6	1.3	27	9.6
18	1.8	3.0	15	12	4.7	15	13	9.2	2.4	1.3	14	7.9
19	1.8	3.0	12	12	14	15	13	7.5	2.2	2.5	9.8	6.6
20	1.8	2.8	19	12	12	13	10	6.4	2.4	2.1	7.3	6.1
21	1.7	2.8	128	26	9.6	29	8.7	5.8	2.4	1.5	5.7	6.4
22	1.7	2.9	100	42	26	31	8.4	5.3	2.2	1.3	4.9	5.0
23	1.7	2.7	60	56	31	30	8.4	5.9	8.0	1.4	4.3	4.4
24	1.7	3.2	39	51	29	25	6.9	5.5	4.4	3.0	3.7	3.8
25	1.7	4.0	28	42	25	19	6.1	4.9	4.2	2.0	3.1	3.6
26	1.5	3.5	43	34	19	15	5.4	4.2	3.5	1.7	3.1	3.4
27	1.5	3.7	65	32	15	12	4.9	4.0	3.0	1.7	2.9	3.1
28	1.5	5.2	58	30	13	11	4.6	3.9	3.8	1.5	2.8	13
29	29	4.1	43	29	------	9.5	4.5	3.9	4.3	1.8	2.9	9.2
30	32	3.4	32	27	------	20	4.2	3.7	3.2	4.2	3.5	7.2
31	24	------	25	25	------	53	------	3.5	------	1.8	2.8	------
TOTAL	149.3	155.0	1,047.9	659.6	352.3	596.8	721.1	235.1	95.5	80.0	155.7	219.3
MEAN	4.82	5.17	33.8	21.3	12.6	19.3	24.0	7.58	3.18	2.58	5.02	7.31
MAX	32	20	128	56	31	53	73	27	8.0	11	27	22
MIN	1.5	2.7	2.9	9.6	4.7	6.9	4.2	3.4	1.8	1.3	1.5	3.1
CFSM	.65	.69	4.53	2.86	1.69	2.59	3.22	1.02	.43	.35	.67	.98
IN.	.74	.77	5.23	3.29	1.76	2.98	3.60	1.17	.48	.40	.78	1.09

CAL YR 1973 TOTAL 5,057.85 MEAN 13.9 MAX 128 MIN .69 CFSM 1.86 IN 25.22
WTR YR 1974 TOTAL 4,467.60 MEAN 12.2 MAX 128 MIN 1.3 CFSM 1.64 IN 22.28

PEAK DISCHARGE (BASE, 110 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	1945	3.58	181	4- 4	0315	3.45	145
12-21	1415	3.48	153	8-17	1545	3.35	120

01470756 Maiden Creek at Virginville, Pa.

LOCATION.--Lat 40°30'51", long 75°53'00", Berks County, on right bank 0.9 mi (1.4 km) downstream from Sacony Creek, 0.9 mi (1.4 km) southwest of Virginville, and 1.0 mi (1.6 km) upstream from Moselem Creek.

DRAINAGE AREA.--159 mi^2 (412 km^2).

PERIOD OF RECORD.--January 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 310 ft (125 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 4,090 ft^3/s (116 m^3/s) Dec. 21 (gage height, 8.39 ft or 2.557 m); minimum, 30 ft^3/s (0.85 m^3/s) July 19 (gage height, 1.98 ft or 0.604 m).
Period of record: Maximum discharge, 4,090 ft^3/s (116 m^3/s) Dec. 21, 1973 (gage height, 8.39 ft or 2.557 m); minimum, 29 ft^3/s (0.82 m^3/s) Sept. 14, 1973; minimum gage height, 1.98 ft (0.604 m) July 19, 1974.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	307	87	510	433	303	1,170	153	159	303	43	64
2	82	218	78	410	388	254	912	138	123	153	43	303
3	113	181	76	370	336	236	692	191	109	118	185	156
4	84	156	76	428	295	225	1,720	169	96	104	118	218
5	74	143	556	349	280	218	1,630	141	88	129	156	135
6	65	131	908	336	260	201	1,220	141	80	153	78	112
7	61	118	525	320	236	198	882	153	78	98	64	225
8	61	111	367	276	205	284	703	132	80	83	57	165
9	59	107	814	254	190	686	858	132	80	73	66	138
10	63	99	906	269	190	785	681	175	73	66	138	123
11	56	90	637	349	181	645	585	141	68	64	73	109
12	54	87	464	370	172	545	520	419	64	54	61	101
13	52	86	398	276	175	433	515	882	61	50	57	126
14	50	84	675	260	181	362	447	428	59	48	54	437
15	48	80	479	247	156	311	1,190	328	68	46	46	218
16	46	82	407	247	144	415	660	265	144	46	43	172
17	44	74	381	311	150	535	505	232	126	41	229	144
18	44	68	330	261	135	392	419	239	80	39	222	126
19	46	69	300	240	222	370	392	188	68	41	115	112
20	44	67	266	240	410	328	344	169	70	54	88	104
21	44	63	3,170	505	239	675	288	156	68	39	75	109
22	43	65	2,220	984	580	780	269	147	73	35	66	104
23	43	62	1,210	1,090	769	630	269	172	162	33	75	88
24	43	66	802	930	530	545	229	159	159	68	66	75
25	43	88	600	741	452	419	208	144	121	68	57	73
26	43	100	796	620	357	357	191	126	104	48	50	70
27	41	82	1,680	645	295	311	178	118	88	46	52	66
28	41	124	1,230	600	272	280	169	121	85	43	54	118
29	303	156	864	660	------	257	165	115	126	44	85	257
30	923	101	670	565	------	370	156	118	96	115	93	162
31	332	------	555	510	------	1,470	------	107	------	54	70	------
TOTAL	3,123	3,265	22,527	14,173	8,233	13,820	18,167	6,299	2,856	2,356	2,679	4,410
MEAN	101	109	727	457	294	446	606	203	95.2	76.0	86.4	147
MAX	923	307	3,170	1,090	769	1,470	1,720	882	162	303	229	437
MIN	41	62	76	240	135	198	156	107	59	33	43	64
CFSM	.64	.69	4.57	2.87	1.85	2.81	3.81	1.28	.60	.48	.54	.92
IN.	.73	.76	5.27	3.32	1.93	3.23	4.25	1.47	.67	.55	.63	1.03

CAL YR 1973 TOTAL - MEAN - MAX - MIN - CFSM - IN -
WTR YR 1974 TOTAL 101,908 MEAN 279 MAX 3,170 MIN 33 CFSM 1.75 IN 23.84

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	0030	5.63	1,940	4- 4	0800	6.10	2,270
12-21	1645	8.39	4,090	4-15	0615	5.64	1,950
12-27	0330	5.46	1,820	5-13	0015	5.32	1,720
3-31	0615	5.39	1,770				

01470960 Tulpehocken Creek at Blue Marsh damsite near Reading, Pa.

LOCATION.--Lat 40°22'00", long 76°01'16", Berks County, on right bank 1 mi (1.6 km) upstream from Rebers Bridge and Plum Creek, 1 mi (1.6 km) east of Blue Marsh, 3 mi (4.8 km) north of Sinking Spring and 5.5 mi (8.8 km) northwest of Reading.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--May 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 240 ft (73 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 254 ft^3/s (7.19 m^3/s), 19.71 in/yr (501 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,540 ft^3/s (100 m^3/s) Dec. 21 (gage height, 6.31 ft or 1.923 m); minimum, 56 ft^3/s (1.59 m^3/s) Aug. 28 (gage height, 1.50 ft or 0.457 m).
Period of record: Maximum discharge, 16,100 ft^3/s (456 m^3/s) June 22, 1972 (gage height, 18.7 ft or 5.70 m, from floodmarks), from rating curve extended above 2,600 ft^3/s (74 m^3/s) on basis of runoff comparison with downstream station; minimum, 22 ft^3/s (0.62 m^3/s) Sept. 11, 12, 13, 1966; minimum gage height, 1.45 ft (0.442 m) July 29, 30, 31, 1965.

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

REVISIONS (WATER YEARS).--WRD Penna. 1972: 1969-1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	187	105	534	449	315	734	223	200	177	77	74
2	157	167	99	458	426	286	657	215	181	145	69	277
3	194	147	96	431	397	279	561	255	174	129	196	139
4	157	138	99	534	370	269	1,310	234	156	116	166	208
5	147	135	198	450	339	263	1,300	215	145	113	119	129
6	138	132	284	424	343	250	1,040	208	139	116	95	107
7	132	125	194	412	318	248	818	219	136	110	87	219
8	125	122	170	381	301	242	688	199	136	104	79	174
9	119	122	493	367	295	357	772	209	139	92	84	136
10	125	119	554	363	284	379	639	275	136	92	132	119
11	125	113	406	409	270	345	555	217	136	95	84	104
12	122	108	326	427	262	339	506	335	119	87	77	98
13	119	108	292	352	260	313	528	782	116	84	72	113
14	119	108	425	364	266	294	485	414	113	84	72	315
15	113	105	322	329	246	285	480	359	113	82	67	177
16	113	108	296	329	227	318	420	304	136	84	64	149
17	108	110	292	365	228	383	387	275	159	79	101	129
18	102	105	270	329	217	301	369	254	129	77	104	119
19	102	108	250	316	243	289	355	237	113	77	79	110
20	99	102	234	323	357	276	342	220	107	77	67	104
21	99	99	2,560	592	264	448	320	211	116	74	64	101
22	105	99	1,640	864	349	512	310	204	116	72	62	107
23	105	99	969	802	411	437	320	218	188	72	69	92
24	105	102	711	740	342	412	292	202	208	95	67	87
25	102	116	561	646	341	370	275	184	174	95	64	84
26	99	110	783	581	313	350	265	177	159	84	62	82
27	99	105	1,620	624	293	320	254	170	132	84	62	79
28	96	125	1,050	558	292	294	247	177	129	79	64	129
29	170	132	815	609	------	279	237	170	184	84	67	252
30	466	110	681	526	------	359	227	174	142	134	82	156
31	201	------	585	493	------	1,000	------	159	------	92	87	------
TOTAL	4,215	3,566	17,380	14,932	8,703	10,812	15,693	7,695	4,331	2,985	2,641	4,169
MEAN	136	119	561	482	311	349	523	248	144	96.3	85.2	139
MAX	466	187	2,560	864	449	1,000	1,310	782	208	177	196	315
MIN	96	99	96	316	217	242	227	159	107	72	62	74
CFSM	.78	.68	3.21	2.75	1.78	1.99	2.99	1.42	.82	.55	.49	.79
IN.	.90	.76	3.69	3.17	1.85	2.30	3.34	1.64	.92	.63	.56	.89

CAL YR 1973 TOTAL 132,266 MEAN 362 MAX 2,990 MIN 83 CFSM 2.07 IN 28.12
WTR YR 1974 TOTAL 97,122 MEAN 266 MAX 2,560 MIN 62 CFSM 1.52 IN 20.65

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1500	6.31	3,540	4- 4	1415	4.30	1,730
12-27	0315	4.58	1,980				

01471000 Tulpehocken Creek near Reading, Pa.

LOCATION.--Lat 40°22'08", long 75°58'46", Berks County, on right bank, 15 ft (4.6 m) upstream from covered bridge, 1 mi (2 km) downstream from Cacoosing Creek, 2.5 mi (4.0 km) upstream from mouth, and 3.5 mi (5.6 km) northwest of square at Reading.

DRAINAGE AREA.--211 mi^2 (546 km^2).

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for October, November 1950, published in WSP 1722.

GAGE.--Water-stage recorder. Datum of gage is 216.00 ft (65.837 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 298 ft^3/s (8.44 m^3/s), 19.18 in/yr (487 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,500 ft^3/s (99.1 m^3/s) Dec. 21 (gage height, 5.42 ft or 1.652 m); minimum, 67 ft^3/s (1.90 m^3/s) Aug. 28 (gage height, 1.21 ft or 0.369 m).
Period of record: Maximum discharge, 17,000 ft^3/s (481 m^3/s) June 23, 1972 (gage height, 15.65 ft or 4.770 m, from floodmark in gage shelter), from rating curve extended above 3,500 ft^3/s (99 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 23 ft^3/s (0.65 m^3/s) Dec. 1, 1964 (gage height, 0.94 ft or 0.287 m), result of upstream shutoff.

REMARKS.--Records good. Some regulation at low flow by mills above station.

REVISIONS (WATER YEARS).--WSP 1382: 1951-53, 1954(M). WRD Penna. 1967: 1965(M). WRD Penna. 1972: 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	228	126	664	535	375	910	286	241	215	94	90
2	207	195	119	576	506	344	839	272	215	180	86	330
3	249	176	119	547	472	334	742	320	207	161	211	170
4	203	164	119	664	445	324	1,440	295	188	146	195	240
5	188	161	254	570	396	315	1,380	277	176	143	154	150
6	172	157	386	541	386	300	1,140	272	168	143	116	130
7	164	150	254	529	386	300	918	286	161	136	106	240
8	157	150	228	495	365	290	790	258	161	129	97	200
9	150	150	588	472	349	418	895	272	161	116	100	170
10	157	146	664	472	324	445	749	354	164	113	154	150
11	154	139	506	523	329	401	664	281	161	116	100	132
12	150	132	412	547	315	401	613	412	143	106	92	126
13	146	132	370	461	315	370	645	874	136	103	86	136
14	139	129	518	428	324	349	601	512	132	100	83	370
15	143	129	407	434	300	334	595	439	136	100	78	224
16	146	132	375	428	272	375	518	386	168	97	72	184
17	139	139	365	467	281	450	484	349	184	92	139	164
18	132	129	334	428	263	354	461	320	150	89	136	154
19	132	132	320	412	295	344	450	300	132	89	94	143
20	129	129	295	418	423	329	428	281	122	89	83	132
21	126	122	2,560	690	320	506	401	267	136	89	78	129
22	132	126	1,710	948	407	582	391	258	136	86	75	136
23	132	122	1,090	895	484	500	401	272	224	86	83	129
24	132	126	839	832	407	472	370	254	241	113	80	116
25	129	146	684	736	407	428	349	236	203	116	75	110
26	132	139	910	671	375	412	334	224	191	100	80	106
27	129	129	1,720	716	349	380	324	220	161	100	78	103
28	126	161	1,180	645	349	349	310	224	161	94	78	100
29	203	164	948	697	------	334	300	215	224	100	82	277
30	535	132	811	613	------	439	290	220	180	180	98	236
31	241	------	716	582	------	1,120	------	203	------	119	100	------
TOTAL	5,273	4,366	19,927	18,101	10,379	12,674	18,732	9,639	5,163	3,646	3,183	5,077
MEAN	170	146	643	584	371	409	624	311	172	118	103	169
MAX	535	228	2,560	948	535	1,120	1,440	874	241	215	211	370
MIN	126	122	119	412	263	290	290	203	122	86	72	90
CFSM	.81	.69	3.05	2.77	1.76	1.94	2.96	1.47	.82	.56	.49	.80
IN.	.93	.77	3.51	3.19	1.83	2.23	3.30	1.70	.91	.64	.56	.90

CAL YR 1973 TOTAL 161,277 MEAN 442 MAX 3,000 MIN 116 CFSM 2.09 IN 28.43
WTR YR 1974 TOTAL 116,160 MEAN 318 MAX 2,560 MIN 72 CFSM 1.51 IN 20.48

PEAK DISCHARGE (BASE, 2,000 CFS) Dec. 21 (1500) 3,500 cfs (5.42 ft).

01472000 Schuylkill River at Pottstown, Pa.

LOCATION.--Lat 40°14'30", long 75°39'07", Montgomery County, on right bank 75 ft (23 m) upstream from Hanover Street bridge in Pottstown and 0.3 mi (0.5 km) downstream from Manatawny Creek.

DRAINAGE AREA.--1,147 mi^2 (2,971 km^2).

PERIOD OF RECORD.--October 1926 to current year. Monthly discharges only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 117.86 ft (35.924 m) above mean sea level. October 1926 to Nov. 22, 1928 nonrecording gage and Nov. 23, 1928 to Dec. 26, 1972 recording gage, present site and datum. Dec. 27, 1972 to May 10, 1974 nonrecording gage 1.0 mi (1.6 km) downstream at datum 2.83 ft (0.863 m) lower.

AVERAGE DISCHARGE.--48 years, 1.851 ft^3/s (52.42 m^3/s), 21.97 in/yr (557 mm/yr).

EXTREMES.--Current year: Maximum discharge, 22,500 ft^3/s (637 m^3/s) Dec. 21 (gage height, 13.56 ft or 4.133 m); minimum, 436 ft^3/s (12.3 m^3/s) July 22, 23 (gage height, 1.59 ft or 0.485 m).

Period of record: Maximum discharge, 95,900 ft^3/s (2,720 m^3/s) June 23, 1972 (gage height, 29.97 ft or 9.135 m, from floodmark), from rating curve extended above 15,000 ft^3/s (425 m^3/s) on basis of volume-discharge study; minimum, 87 ft^3/s (2.46 m^3/s) Aug. 13, 1930 (gage height, 0.43 ft or 0.131 m); minimum daily, 175 ft^3/s (4.96 m^3/s) Sept. 19, 1932.

Maximum stage known prior to October 1926, 21.0 ft (6.40 m) Feb. 28, 1902, from floodmarks (discharge 53,900 ft^3/s or 1,530 m^3/s).

REMARKS.--Records good. Some regulation at low flow by mill above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,250	1,780	1,020	4,010	3,600	2,190	6,100	1,580	1,400	2,500	700	1,860
2	1,130	1,610	982	3,600	3,140	2,220	2,610	1,530	1,560	1,650	600	2,080
3	1,290	1,380	934	3,100	3,000	2,120	4,890	1,520	1,380	1,350	1,500	2,800
4	1,250	1,240	922	3,580	2,850	2,050	7,010	1,700	1,290	1,200	1,100	2,100
5	1,110	1,170	1,790	3,170	2,370	1,920	8,210	1,500	1,170	1,100	900	1,780
6	1,040	1,130	4,100	2,850	2,150	1,860	7,320	1,440	1,110	1,000	820	1,530
7	994	1,120	3,100	2,730	2,240	1,820	6,270	1,510	1,060	950	750	2,180
8	982	1,010	2,320	2,560	2,190	1,660	5,510	1,470	1,020	900	700	2,190
9	958	970	3,550	2,350	1,970	3,220	6,670	1,370	1,030	850	700	1,650
10	933	910	5,180	2,420	1,840	3,850	5,360	1,860	1,010	850	1,000	1,500
11	958	910	4,590	2,640	1,790	3,750	4,530	1,780	1,030	1,000	700	1,300
12	922	888	3,770	3,200	1,730	3,240	4,050	1,700	994	800	660	1,200
13	866	899	3,160	2,530	1,660	2,980	4,350	5,470	958	750	620	1,800
14	877	888	4,010	2,250	1,720	2,630	4,030	3,920	899	700	580	2,000
15	866	866	3,510	2,100	1,670	2,390	4,510	3,020	910	650	550	1,500
16	855	866	3,120	2,120	1,480	2,390	4,870	2,730	1,330	600	520	1,300
17	844	855	3,120	2,300	1,500	3,660	3,960	2,390	1,360	565	660	1,100
18	811	800	2,670	2,320	1,470	3,270	3,430	2,150	1,190	542	700	1,000
19	822	855	2,290	2,270	1,480	2,570	3,170	1,980	958	536	610	950
20	778	844	2,900	2,240	2,350	2,440	2,900	1,840	844	523	540	930
21	778	811	15,100	3,070	2,240	3,340	2,760	1,730	866	483	520	952
22	756	800	14,900	5,440	1,900	4,890	2,630	1,580	958	457	520	1,130
23	745	778	9,400	5,570	4,230	3,780	2,530	1,850	1,400	449	560	949
24	734	734	6,310	5,270	3,530	3,550	2,300	1,790	1,700	631	580	814
25	734	844	4,680	4,860	3,170	3,240	2,050	1,620	1,470	667	580	715
26	734	970	5,950	4,170	2,970	2,690	1,940	1,440	1,200	560	520	704
27	745	958	9,400	4,170	2,420	2,480	1,800	1,380	1,130	540	500	696
28	712	994	7,960	4,120	2,150	2,370	1,760	1,380	1,080	540	532	1,270
29	1,060	1,240	6,220	4,420	------	2,300	1,720	1,360	1,130	600	675	2,570
30	3,170	1,070	5,270	4,280	------	3,160	1,670	1,430	840	1,300	999	1,780
31	2,220	------	4,500	3,920	------	6,220	------	1,380	------	900	706	------
TOTAL	31,924	30,190	146,728	103,630	64,810	90,250	120,910	59,400	34,277	26,143	21,602	44,330
MEAN	1,030	1,006	4,733	3,343	2,315	2,911	4,030	1,916	1,143	843	697	1,478
MAX	3,170	1,780	15,100	5,570	4,230	6,220	8,210	5,470	1,700	2,500	1,500	2,800
MIN	712	734	922	2,100	1,470	1,660	1,670	1,360	840	449	500	696
CFSM	.90	.88	4.13	2.91	2.02	2.54	3.51	1.67	1.00	.74	.61	1.29
IN.	1.04	.98	4.76	3.36	2.10	2.93	3.92	1.93	1.11	.85	.70	1.44

CAL YR 1973 TOTAL 1,002,851 MEAN 2,748 MAX 15,100 MIN 689 CFSM 2.40 IN 32.52
WTR YR 1974 TOTAL 774,194 MEAN 2,121 MAX 15,100 MIN 449 CFSM 1.85 IN 25.11

PEAK DISCHARGE (BASE, 7,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2100	13.56	22,500	4- 9	0730	6.55	7,540
4- 4	2000	7.55	9,500	5-13	1030	6.23	7,520

01472157 French Creek near Phoenixville, Pa.

LOCATION.--Lat 40°09'05", long 75° 36'06", Chester County, on right bank 70 ft (21 m) downstream from two-span county bridge on French Creek Road, 4.5 mi (7.2 km) northwest of Phoenixville, and 7.3 mi (11.7 km) upstream from mouth.

DRAINAGE AREA.--59.1 mi^2 (153.1 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 160 ft (49 m), from topographic map. Prior to Nov. 7, 1968, nonrecording gage at site 70 ft (21 m) upstream at same datum.

AVERAGE DISCHARGE.--6 years, 92.0 ft^3/s (2.605 m^3/s), 21.14 in/yr (537 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,090 ft^3/s (59.2 m^3/s) Dec. 21 (gage height, 8.42 ft or 2.566 m), from rating curve extended as explained below; minimum daily, 16 ft^3/s (0.45 m^3/s) Sept. 27.
Period of record: Maximum discharge, 11,200 ft^3/s (317 m^3/s) June 22, 1972 (gage height, 13.66 ft or 4.164 m), from rating curve extended above 2,500 ft^3/s (70.8 m^3/s) on basis of slope-area measurement of peak flow; minimum, 11 ft^3/s (0.31 m^3/s) July 4, 5, 1969 (gage height, 4.11 ft or 1.253 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	44	29	148	88	109	247	92	83	54	27	22
2	31	38	27	114	86	86	195	86	82	48	28	22
3	41	34	26	109	86	83	165	123	78	43	75	51
4	33	30	26	175	80	77	394	107	61	39	34	78
5	30	30	222	121	77	72	268	88	56	39	43	31
6	28	30	210	105	82	68	219	86	53	44	31	24
7	27	29	68	101	80	66	163	86	51	38	28	68
8	27	27	47	96	83	65	155	78	54	34	28	42
9	27	27	251	90	82	96	585	78	56	34	28	28
10	29	27	170	94	80	128	254	140	52	32	27	25
11	27	25	77	216	77	83	186	98	46	31	25	29
12	27	26	57	207	78	74	168	275	45	30	22	28
13	27	26	52	123	75	68	457	410	44	29	22	24
14	27	26	133	105	85	64	318	145	43	28	22	29
15	25	26	72	98	74	62	244	112	43	27	20	25
16	25	26	56	105	65	94	189	98	48	27	20	20
17	23	25	58	138	68	173	165	90	54	26	20	20
18	24	25	62	109	65	90	155	83	44	25	30	20
19	23	25	90	98	74	78	153	80	41	27	22	19
20	24	25	80	103	140	72	150	77	39	25	20	19
21	24	25	1,500	240	86	213	133	74	66	23	19	19
22	23	26	362	251	94	186	128	75	51	23	18	21
23	24	25	165	165	107	107	150	138	74	22	20	19
24	24	27	123	138	74	98	128	92	69	39	19	18
25	24	29	99	121	75	85	114	69	112	36	17	17
26	23	27	632	109	72	80	107	66	69	30	17	17
27	23	27	746	140	69	77	101	64	52	29	34	16
28	28	43	225	116	77	75	96	64	68	27	23	68
29	183	56	163	123	------	77	94	61	99	27	20	173
30	195	35	143	103	------	303	94	64	59	39	25	42
31	57	------	128	96	------	600	------	59	------	30	30	------
TOTAL	1,186	891	6,099	4,057	2,279	3,609	5,975	3,258	1,792	1,005	814	1,034
MEAN	38.3	29.7	197	131	81.4	116	199	105	59.7	32.4	26.3	34.5
MAX	195	56	1,500	251	140	600	585	410	112	54	75	173
MIN	23	25	26	90	65	62	94	59	39	22	17	16
CFSM	.65	.50	3.33	2.22	1.38	1.96	3.37	1.78	1.01	.55	.45	.58
IN.	.75	.56	3.84	2.55	1.43	2.27	3.76	2.05	1.13	.63	.51	.65

CAL YR 1973 TOTAL 42,555 MEAN 117 MAX 2,100 MIN 20 CFSM 1.98 IN 26.79
WTR YR 1974 TOTAL 31,999 MEAN 87.7 MAX 1,500 MIN 16 CFSM 1.48 IN 20.14

PEAK DISCHARGE (BASE, 750 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	2030	6.86	896	3-31	0045	6.93	938
12-21	0945	8.42	2,090	4-13	1515	6.95	950
12-26	2045	7.76	1,530	5-12	2245	7.02	994

01472174 Pickering Creek near Chester Springs, Pa.

LOCATION.--Lat 40°05'22", long 75°37'50", Chester County, on left bank 30 ft (9.1 m) downstream from bridge on Horseshoe Trail Road, 0.45 mi (0.72 km) downstream from unnamed tributary, and 0.75 mi (1.21 km) southwest of Chester Springs.

DRAINAGE AREA.--5.98 mi^2 (15.49 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 280 ft (85 m) from topographic map. Prior to Aug. 11, 1967, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--7 years, 9.75 ft^3/s (0.276 m^3/s), 22.14 in/yr (562 mm/yr).

EXTREMES.--Current year: Maximum discharge, 412 ft^3/s (11.7 m^3/s) Oct. 29 (gage height, 4.29 ft or 1.308 m); minimum, 2.0 ft^3/s (0.057 m^3/s) July 29 (gage height, 0.97 ft or 0.296 m).
Period of record: Maximum discharge, 2,410 ft^3/s (68.3 m^3/s) June 22, 1972 (gage height, 5.21 ft or 1.588 m), from rating curve extended above 700 ft^3/s (19.8 m^3/s); minimum, 0.87 ft^3/s (0.025 m^3/s) Sept. 1, 2, 1969 (gage height, 0.94 ft or 0.287 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	8.0	3.7	14	9.4	13	17	7.6	7.2	6.6	3.2	3.7
2	5.2	7.8	3.2	11	9.8	9.6	16	7.4	7.8	5.9	6.8	4.0
3	5.4	7.2	3.1	13	9.6	9.6	14	11	7.0	5.5	5.2	26
4	4.5	6.7	3.1	21	9.0	8.8	24	8.6	6.3	5.2	5.0	12
5	4.1	6.6	46	12	8.6	8.2	21	8.0	5.7	5.3	4.5	5.5
6	3.8	6.4	14	11	8.0	7.6	15	8.2	5.5	5.2	3.8	5.0
7	3.8	6.3	9.0	11	9.8	7.4	14	8.0	5.3	5.0	3.7	18
8	3.8	6.2	7.6	9.4	9.2	7.2	15	7.6	5.5	4.7	3.5	5.7
9	3.6	6.1	43	9.4	8.8	10	61	8.6	5.2	4.5	3.8	4.7
10	3.9	5.9	10	9.4	8.6	11	18	15	5.2	4.3	3.7	4.0
11	3.8	5.4	6.8	9.6	8.4	8.4	15	8.4	4.7	4.0	3.4	3.5
12	3.8	5.6	5.5	10	8.2	8.0	13	48	4.7	4.0	3.2	4.0
13	3.6	5.4	6.6	11	9.4	7.4	49	20	4.7	3.8	3.1	3.7
14	3.5	4.8	14	13	9.2	7.0	21	12	4.7	3.7	3.1	5.0
15	3.3	4.8	6.3	11	8.2	7.0	17	9.6	4.7	3.7	3.0	3.7
16	3.2	4.5	5.3	12	7.6	16	14	7.4	5.3	3.7	2.8	3.5
17	3.2	4.1	6.8	13	8.0	13	13	7.0	5.2	3.5	7.6	3.4
18	3.3	4.0	5.0	10	7.0	9.0	12	7.2	4.7	3.5	4.8	3.2
19	3.3	3.8	4.5	11	9.4	8.6	11	6.8	4.3	4.0	3.7	3.2
20	3.3	3.7	20	9.0	10	8.0	10	6.5	4.1	3.4	3.2	3.2
21	3.3	3.5	204	50	8.2	31	10	6.3	16	3.2	3.2	3.8
22	3.3	3.4	19	18	11	12	10	6.8	6.8	3.1	3.2	4.0
23	3.3	3.2	13	14	8.2	9.8	12	14	11	3.1	3.5	3.2
24	3.3	3.4	10	12	7.0	9.0	11	7.8	9.8	5.7	3.2	3.1
25	3.3	3.5	9.0	11	7.4	7.8	9.8	6.8	16	3.8	3.1	3.1
26	3.5	3.4	127	11	7.0	7.8	9.4	6.5	7.8	4.0	3.1	3.1
27	3.5	3.4	37	13	8.6	7.2	9.8	6.3	6.8	3.2	3.1	3.1
28	3.6	7.2	17	11	9.4	7.0	9.0	6.1	12	3.2	3.0	23
29	68	5.5	14	11	------	8.8	8.0	6.1	10	3.5	3.1	13
30	15	4.1	12	10	------	60	7.8	6.1	7.0	4.7	5.7	5.7
31	8.0	------	12	9.8	------	48	------	5.9	------	3.4	4.1	------
TOTAL	194.6	153.9	697.5	401.6	243.0	393.2	486.8	301.6	211.0	130.4	119.4	190.1
MEAN	6.28	5.13	22.5	13.0	8.68	12.7	16.2	9.73	7.03	4.21	3.85	6.34
MAX	68	8.0	204	50	11	60	61	48	16	6.6	7.6	26
MIN	3.2	3.2	3.1	9.0	7.0	7.0	7.8	5.9	4.1	3.1	2.8	3.1
CFSM	1.05	.86	3.76	2.17	1.45	2.12	2.71	1.63	1.18	.70	.64	1.06
IN.	1.21	.96	4.34	2.50	1.51	2.45	3.03	1.88	1.31	.81	.74	1.18

CAL YR 1973 TOTAL 5,001.6 MEAN 13.7 MAX 204 MIN 3.1 CFSM 2.29 IN 31.11
WTR YR 1974 TOTAL 3,523.1 MEAN 9.65 MAX 204 MIN 2.8 CFSM 1.61 IN 21.92

PEAK DISCHARGE (BASE, 220 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	2100	4.29	412	1-21	1500	3.95	224
12-21	0900	4.35	356	5-12	2000	4.00	240
12-26	1615	4.19	334				

01472186 Pigeon Run at Rapps Corner, Pa.

LOCATION.--Lat 40°04'58", long 75°35'31", Chester County, on left bank 5 ft (2 m) upstream from Yellow Springs Road, 0.6 mi (1.0 km) southeast of Rapps Corner, 1.6 mi (2.6 km) southeast of Chester Springs and 3 mi (4.8 km) west of Devault, Pa.

DRAINAGE AREA.--1.06 mi^2 (2.75 km^2).

PERIOD OF RECORD.--March to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 280 ft (85 m) from topographic map.

EXTREMES.--Maximum discharge during period March to September, 40 ft^3/s (1.13 m^3/s) May 12 (gage height, 7.16 ft or 2.182 m); minimum, 0.32 ft^3/s (0.009 m^3/s) Aug. 29 (gage height, 5.29 ft or 1.612 m).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						2.0	3.1	.90	2.0	1.1	.45	.75
2						1.5	2.9	.90	2.0	1.0	.60	.75
3						1.4	2.8	1.4	1.8	.92	.90	1.5
4						1.3	3.2	1.0	1.6	.90	.60	.81
5						1.3	3.1	.90	1.5	.90	.80	.48
6						1.2	2.7	1.0	1.5	.70	1.0	.49
7						1.1	2.4	.90	1.5	.60	.86	1.4
8						1.1	2.6	1.5	1.5	.47	.86	.59
9						1.8	5.2	1.8	1.5	.47	1.5	.54
10						2.5	2.4	3.2	1.4	.47	1.2	.47
11						1.5	1.4	1.8	1.4	.47	.97	.53
12						1.3	1.1	5.8	1.4	.47	.97	.53
13						1.2	5.0	3.3	1.2	.47	.86	.48
14						1.1	2.5	2.4	1.1	.47	.86	.71
15						1.1	2.0	2.3	1.1	.47	.75	.52
16						1.5	1.7	2.2	1.2	.39	.75	.47
17						2.0	1.5	2.1	1.1	.39	1.4	.45
18						3.0	1.4	2.1	1.1	.39	1.2	.44
19						1.6	1.2	2.1	1.1	.65	.86	.46
20						1.5	1.5	2.0	1.1	.39	.75	.44
21						5.5	1.2	2.0	2.5	.39	.75	.54
22						2.6	1.1	2.1	1.7	.39	.75	.60
23						2.2	1.1	2.6	2.3	.39	.75	.42
24						2.1	.97	2.0	1.7	.86	.75	.47
25						2.0	.97	1.8	2.5	.55	.65	.47
26						1.8	.97	1.8	1.8	.47	.75	.44
27						1.8	1.1	1.8	1.5	.47	.75	.41
28						2.2	1.0	1.8	2.0	.45	.65	1.5
29					------	3.1	.95	1.6	1.5	.50	.65	.70
30					------	9.2	.90	1.6	1.3	.70	1.2	.50
31		------			------	6.5	------	1.6	------	.50	.86	------
TOTAL						70.0	59.96	60.30	46.9	17.76	26.65	18.86
MEAN						2.26	2.00	1.95	1.56	.57	.86	.63
MAX						9.2	5.2	5.8	2.5	1.1	1.5	1.5
MIN						1.1	.90	.90	1.1	.39	.45	.41
CFSM						2.13	1.89	1.84	1.47	.54	.81	.59
IN.						2.46	2.10	2.12	1.65	.62	.94	.66

PEAK DISCHARGE (BASE, 10 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-21	1415	6.51	24	5-10	0645	6.29	17
3-30	1945	6.72	29	5-12	1815	7.16	40
4- 9	0245	6.13	15				

01473000 Perkiomen Creek at Graterford, Pa.

LOCATION.--Lat 40°13'46", long 75°27'07", Montgomery County, on left bank 1,650 ft (503 m) upstream from highway bridge at Graterford, 0.5 mi (0.8 km) upstream from Landis Brook and 2.5 mi (4.0 km) north of Collegeville.

DRAINAGE AREA.--279 mi^2 (723 km^2).

PERIOD OF RECORD.--June 1914 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1950, published as "at Graters Ford".

GAGE.--Water-stage recorder. Datum of gage is 112.66 ft (34.339 m) above mean sea level. June 1914 to Sept. 6, 1921, nonrecording gage at site 1,650 ft (503 m) downstream at datum, 3.29 ft (1.003 m) lower. Sept. 7, 1921 to Sept. 13, 1927, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--60 years, 378 ft^3/s (10.70 m^3/s), 18.40 in/yr (467 mm/yr), adjusted for storage since December 1956.

EXTREMES.--Current year: Maximum discharge, 21,100 ft^3/s (598 m^3/s) Dec. 21 (gage height, 13.04 ft or 3.975 m); minimum, 48 ft^3/s (1.36 m^3/s) July 28 (gage height, 1.05 ft or 0.320 m).
Period of record: Maximum discharge, 39,900 ft^3/s (1,130 m^3/s) July 9, 1935 (gage height, 18.26 ft or 5.566 m), from rating curve extended above 12,000 ft^3/s (340 m^3/s) on basis of slope-area measurement at gage height, 16.23 ft (4.947 m); minimum, 4.7 ft^3/s (0.13 m^3/s) Oct. 5, 1941; minimum daily, 5.6 ft^3/s (0.16 m^3/s) Oct. 5, 1941.

REMARKS.--Records good. Some regulation by Green Lane Reservoir 10.5 mi (16.9 km) upstream since December 21, 1956 (see p. 94).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1171: 1935(M). WSP 1302: 1915-16, 1927-29. WSP 1382: 1932-33, 1935, 1937, 1942, 1947, 1948(M), 1949(P), 1950(M), 1951-52(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	117	102	582	392	350	1,780	210	210	228	65	108
2	80	114	88	498	345	330	1,030	169	237	197	59	807
3	131	95	85	416	325	295	825	205	214	131	148	561
4	102	83	85	1,270	280	300	1,800	295	165	105	117	1,910
5	85	80	950	807	246	270	1,860	205	134	88	568	491
6	76	78	1,110	568	255	232	1,560	185	119	97	210	285
7	70	76	350	491	228	210	843	232	105	88	122	798
8	68	74	228	446	214	205	650	210	105	74	92	533
9	68	76	1,720	345	232	816	3,740	185	108	68	83	305
10	68	74	1,280	398	228	970	1,590	498	111	68	92	232
11	63	72	554	990	210	512	880	392	100	74	80	197
12	63	70	350	1,370	181	398	674	1,030	83	65	68	185
13	63	65	280	690	189	330	1,430	3,100	85	61	61	162
14	63	65	1,320	464	219	270	1,280	762	78	59	61	345
15	55	65	634	422	197	237	2,680	470	83	57	61	241
16	55	65	392	392	169	410	990	356	295	55	57	158
17	52	68	356	717	173	1,590	642	285	422	54	589	131
18	54	65	300	582	158	582	526	255	162	54	900	119
19	54	70	290	428	165	404	458	214	114	57	201	111
20	55	100	335	464	446	345	470	185	95	59	119	102
21	55	70	14,300	1,630	340	1,750	386	165	102	57	90	100
22	55	60	2,090	2,550	330	1,630	345	162	189	55	74	165
23	54	60	920	1,540	596	699	368	320	219	55	232	131
24	55	60	642	1,090	320	547	340	285	416	72	223	95
25	55	80	458	744	290	416	285	205	250	95	122	83
26	55	60	4,180	575	265	350	260	162	177	74	90	80
27	54	60	4,270	744	232	325	237	141	165	61	83	80
28	54	350	1,200	634	255	285	219	145	145	54	83	275
29	88	634	726	762	------	270	214	145	246	57	177	3,030
30	404	422	589	554	------	1,350	214	181	193	76	128	658
31	151	------	470	452	------	5,960	------	148	------	80	134	------
TOTAL	2,497	3,428	40,654	23,615	7,480	22,638	28,576	11,502	5,127	2,475	5,189	12,478
MEAN	80.5	114	1,311	762	267	730	953	371	171	79.8	167	416
MAX	404	634	14,300	2,550	596	5,960	3,740	3,100	422	228	900	3,030
MIN	52	60	85	345	158	205	214	141	78	54	57	80
MEAN≠	76.6	77.5	1,354	762	266	735	948	372	170	66.0	180	418
CFSM≠	.27	.28	4.85	2.73	.95	2.63	3.40	1.33	.61	.24	.65	1.50
IN.≠	.32	.31	5.60	3.15	.99	3.04	3.79	1.54	.68	.27	.74	1.67

CAL YR 1973 TOTAL 185,820 MEAN 509 MAX 14,300 MIN 52 MEAN≠ 509 CFSM ≠ 1.82 IN.≠ 24.76
WTR YR 1974 TOTAL 165,659 MEAN 454 MAX 14,300 MIN 52 MEAN≠ 454 CFSM ≠ 1.63 IN.≠ 22.10

≠ Adjusted for change in contents in Green Lane Reservoir.

01473120 Skippack Creek near Collegeville, Pa.

LOCATION.--Lat 40°09'52", long 75°26'01", Montgomery County, on right bank 60 ft (18 m) downstream from two-span highway bridge, 1.5 mi (2.4 km) upstream from mouth, and 2 mi (3 km) southeast of Collegeville.

DRAINAGE AREA.--53.7 mi^2 (139.1 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 99.03 ft (30.184 m) above mean sea level. Prior to June 15, 1967, nonrecording gage at site 60 ft (18 m) upstream at same datum.

AVERAGE DISCHARGE.--8 years, 76.0 ft^3/s (2.152 m^3/s), 19.22 in/yr (488 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,420 ft^3/s (238 m^3/s) Dec. 21 (gage height, 11.61 ft or 3.539 m); minimum, 4.8 ft^3/s (0.136 m^3/s) July 29; minimum gage height, 1.00 ft (0.305 m) Aug. 21, 22, 23.
Period of record: Maximum discharge, 40,400 ft^3/s (1,140 m^3/s) Sept. 13, 1971 (gage height, 22.5 ft or 6.86 m, from floodmark), from rating curve extended above 8,400 ft^3/s (238 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.1 ft^3/s (0.003 m^3/s) Sept. 12, 13, 1966; minimum gage height, 0.79 ft (0.241 m) Oct 3, 1968.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	16	38	101	59	92	236	17	23	51	7.1	7.8
2	74	11	38	69	56	65	156	14	28	36	6.8	16
3	94	9.0	38	69	53	57	112	29	29	28	21	31
4	41	8.2	37	266	48	53	278	23	16	24	9.5	85
5	29	7.8	300	104	48	51	207	15	13	20	10	16
6	21	7.8	144	80	51	47	152	15	11	29	7.4	11
7	21	7.4	51	72	44	44	94	16	9.5	15	6.5	121
8	19	8.6	38	63	40	41	80	13	9.5	13	6.8	34
9	18	10	582	56	35	94	743	13	9.0	10	17	18
10	16	16	158	62	32	113	171	146	8.2	9.5	10	15
11	14	21	74	474	29	66	101	40	7.4	11	7.4	13
12	13	20	53	259	32	59	80	343	6.8	8.2	7.1	17
13	14	18	47	110	33	53	589	280	7.1	7.1	6.8	12
14	15	21	435	94	36	50	205	71	6.5	7.1	6.8	31
15	16	28	87	69	29	47	128	51	6.5	6.8	6.5	15
16	18	32	63	79	24	82	84	41	592	6.5	6.2	12
17	20	29	60	123	27	194	68	34	106	5.3	6.5	12
18	18	33	58	80	22	71	59	29	41	6.2	6.5	11
19	17	34	57	68	25	59	54	23	24	7.4	6.5	11
20	17	36	192	68	53	51	51	19	18	6.2	6.2	11
21	15	37	4,200	519	41	627	43	17	34	5.6	5.9	11
22	15	25	264	288	47	198	40	18	40	5.3	5.6	12
23	16	14	127	160	56	96	45	56	140	5.0	41	10
24	15	16	91	115	43	77	37	31	101	13	10	8.6
25	15	27	71	92	45	60	31	19	229	14	7.4	8.6
26	15	23	1,780	77	43	54	27	14	69	5.6	6.8	8.6
27	14	25	259	96	37	50	23	13	51	5.3	7.1	8.2
28	13	56	156	77	51	44	21	16	54	5.0	6.8	568
29	71	41	101	82	------	44	20	13	74	4.8	12	980
30	77	40	80	68	------	627	19	25	47	32	12	77
31	20	------	72	63	------	1,460	------	14	------	9.5	9.5	------
TOTAL	799	677.8	9,751	4,003	1,139	4,726	3,954	1,468	1,810.5	412.4	292.7	2,191.8
MEAN	25.8	22.6	315	129	40.7	152	132	47.4	60.4	13.3	9.44	73.1
MAX	94	56	4,200	519	59	1,460	743	343	592	51	41	980
MIN	13	7.4	37	56	22	41	19	13	6.5	4.8	5.6	7.8
CFSM	.48	.42	5.87	2.40	.76	2.83	2.46	.88	1.12	.25	.18	1.36
IN.	.55	.47	6.75	2.77	.79	3.27	2.74	1.02	1.25	.29	.20	1.52

CAL YR 1973 TOTAL 36,836.0 MEAN 101 MAX 4,200 MIN 4.0 CFSM 1.88 IN 25.52
WTR YR 1974 TOTAL 31,225.2 MEAN 85.5 MAX 4,200 MIN 4.8 CFSM 1.59 IN 21.63

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1445	6.32	2,020	3-21	1645	7.28	2,780	5-12	2200	6.64	2,250
12-21	0400	11.61	8,420	3-31	0145	8.53	4,030	6-16	1830	8.09	3,590
12-26	1730	8.84	4,360	4- 9	0530	6.84	2,410	9-29	0100	10.10	6,000
1-21	1700	6.60	2,220	4-13	1530	6.90	2,460				

01473870 Pine Run tributary near Ambler, Pa.

LOCATION.--40°08'56", long 75°10'50", Montgomery County, on left bank 20 ft (6 m) upstream from Susquehanna Road, 1.5 mi (2.4 km) east of Fort Washington and 3 mi (4.8 km) northwest of Roslyn.

DRAINAGE AREA.--1.18 mi^2 (3.06 km^2).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 200 ft (61 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 134 ft^3/s (3.79 m^3/s) Dec. 21 (gage height, 2.98 ft or 0.908 m), from rating curve extended above 75 ft^3/s (2.12 m^3/s) on basis of flow-through-culvert study; minimum, 0.06 ft^3/s (0.002 m^3/s) July 13, Aug. 10 (gage height, 1.08 ft or 0.329 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.17	.10	2.5	1.8	1.2	5.6	1.7	.88	.41	.12	.14
2	.44	.14	.09	2.0	1.8	1.0	4.9	1.6	1.5	.37	.11	.70
3	.24	.13	.09	2.2	1.6	1.0	4.1	1.9	1.1	.32	.15	3.0
4	.17	.13	.08	3.2	1.5	.95	4.2	1.5	.70	.31	.30	.30
5	.15	.13	.81	2.1	1.3	.92	5.0	1.3	.61	.34	.18	.20
6	.14	.12	.37	2.1	1.3	.92	3.8	1.6	.55	.35	.13	.30
7	.14	.12	.15	2.0	1.5	.92	3.4	1.3	.51	.27	.11	2.0
8	.14	.12	.14	1.8	1.4	.88	3.5	1.1	.51	.23	.12	.80
9	.14	.12	3.0	1.8	1.3	1.5	8.7	1.9	.50	.21	.12	.45
10	.14	.11	.51	2.0	1.2	1.3	4.2	4.0	.44	.20	.20	.30
11	.13	.11	.29	5.9	1.1	1.0	3.7	1.5	.40	.20	.15	.25
12	.13	.11	.24	3.3	1.1	.96	3.6	5.1	.36	.19	.14	.20
13	.13	.11	.31	2.5	1.2	.92	7.3	2.6	.36	.18	.14	.25
14	.12	.11	1.9	2.2	1.2	.85	4.4	1.9	.34	.17	.13	1.9
15	.11	.10	.40	2.2	1.1	.84	4.0	1.7	.31	.17	.12	.70
16	.11	.10	.34	2.7	1.0	3.4	3.6	1.5	.84	.16	.11	.70
17	.11	.10	.31	2.6	1.0	2.0	3.3	1.3	.50	.15	.11	1.0
18	.11	.10	.28	2.1	.94	1.4	3.1	1.2	.33	.15	.11	.92
19	.11	.10	.26	2.2	1.5	1.3	3.1	1.2	.28	.15	.11	.32
20	.11	.10	5.6	2.1	1.4	1.3	2.9	1.1	.26	.15	.11	.32
21	.11	.09	49	5.8	1.0	6.8	2.8	.98	1.4	.14	.11	.44
22	.11	.08	3.2	3.1	1.4	2.6	2.7	.99	.54	.13	.10	.38
23	.11	.08	2.5	2.8	1.1	2.4	2.7	2.2	3.0	.13	5.0	.30
24	.10	.08	2.0	2.6	1.0	2.3	2.4	1.1	.84	.22	.31	.29
25	.09	.09	1.7	2.4	1.0	2.1	2.2	.89	.57	.15	.15	.29
26	.09	.09	13	2.2	1.0	2.0	2.0	.82	.49	.14	.12	.29
27	.12	.09	4.8	2.6	.88	1.9	1.9	.77	.43	.13	.12	.29
28	.16	.44	3.2	2.2	1.1	1.8	1.9	.85	.53	.13	1.0	7.8
29	2.6	.18	2.8	2.1	------	2.1	1.8	.82	.84	.13	.15	2.7
30	.35	.11	2.5	2.0	------	17	1.7	1.7	.46	.41	.14	.98
31	.18	------	2.3	1.9	------	14	------	.86	------	.13	.14	------
TOTAL	7.05	3.66	102.27	79.2	34.72	79.56	108.5	48.98	20.38	6.52	10.11	28.51
MEAN	.23	.12	3.30	2.55	1.24	2.57	3.62	1.58	.68	.21	.33	.95
MAX	2.6	.44	49	5.9	1.8	17	8.7	5.1	3.0	.41	5.0	7.8
MIN	.09	.08	.08	1.8	.88	.84	1.7	.77	.26	.13	.10	.14
CFSM	.19	.10	2.80	2.16	1.05	2.18	3.07	1.34	.58	.18	.28	.81
IN.	.22	.12	3.22	2.50	1.09	2.51	3.42	1.54	.64	.21	.32	.90

CAL YR 1973	TOTAL	-	MEAN	-	MAX	-	MIN	-	CFSM	-	IN	-
WTR YR 1974	TOTAL	529.46	MEAN	1.45	MAX	49	MIN	.08	CFSM	1.23	IN	16.69

PEAK DISCHARGE (BASE, 30 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0045	2.98	134	8-23	0415	2.47	80
12-26	1500	2.17	47	9-28	2130	2.48	81
3-30	2245	2.64	98				

01474500 Schuylkill River at Philadelphia, Pa.

LOCATION.--Lat 39°58'00", long 75°11'20", Philadelphia County, on right bank 150 ft (46 m) upstream from Fairmount Dam, 1,500 ft (457 m) upstream from Spring Garden Street Bridge, in Philadelphia, and 8.7 mi (14.0 km) upstream from mouth.

DRAINAGE AREA.--1,893 mi^2 (4,903 km^2).

PERIOD OF RECORD.--September 1931 to current year. Records for January 1898 to December 1912, published in WSP 35, 48, 65, 82, 97, 125, 166, 202, 241, 261, 281, 301, 381, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5.74 ft (1.750 m) above mean sea level. Prior to Nov. 25, 1956, water-stage recorder at site on right bank just upstream from Fairmount Dam at same datum. Nov. 26, 1956 to Oct. 6, 1966, water-stage recorder at site on left bank 40 ft (12 m) upstream from Fairmount Dam at same datum.

AVERAGE DISCHARGE.--43 years, 2,871 ft^3/s (81.30 m^3/s), 20.59 in/yr (523 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 51,300 ft^3/s (1,450 m^3/s) Dec. 21 (gage height, 11.47 ft or 3.496 m); minimum, 427 ft^3/s (12.1 m^3/s) July 23 (gage height, 5.77 ft or 1.759 m); minimum daily discharge, 461 ft^3/s (13.1 m^3/s) July 23.

Period of record: Maximum discharge, 103,000 ft^3/s (2,920 m^3/s) June 23, 1972 (gage height, 14.65 ft or 4.465 m); no flow over dam at times; minimum daily, 0.6 ft^3/s (0.02 m^3/s) Sept. 2, 1966.

Maximum stage known, 17.0 ft (5.18 m) Oct. 4, 1869 (discharge, 135,000 ft^3/s or 3,820 m^3/s, from rating curve extended above 46,000 ft^3/s or 1,300 m^3/s). Flood of Mar. 1, 1902, reached a stage of 14.8 ft or 4.511 m (discharge, 98,000 ft^3/s or 2,780 m^3/s).

REMARKS.--Records good except those below 1,000 ft^3/s (28.3 m^3/s) which are fair. Some regulation by reservoirs above station. Records of daily discharge do not include diversion above station by city of Philadelphia for municipal water supply. Records of water quality for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1936(M). WSP 1432: 1945. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,570	2,280	1,260	5,830	4,080	3,110	11,000	2,060	1,700	1,650	965	1,120
2	1,610	1,910	1,030	5,180	3,580	3,210	8,310	1,920	2,120	2,280	777	1,360
3	1,980	1,660	929	4,460	3,370	2,900	7,320	2,090	2,050	1,890	1,030	2,700
4	1,530	1,420	862	6,170	3,010	2,760	8,130	2,410	1,680	1,500	1,810	5,530
5	1,310	1,280	1,750	5,380	2,570	2,610	12,500	2,060	1,450	1,480	3,950	3,400
6	1,140	1,240	6,610	4,240	2,240	2,470	12,200	1,870	1,300	1,320	1,920	2,150
7	1,050	1,130	4,520	3,910	2,290	2,330	9,150	1,950	1,200	1,250	1,220	3,260
8	997	1,080	3,220	3,630	2,290	2,200	7,530	1,900	1,180	1,100	981	3,450
9	1,010	1,040	5,290	3,210	2,030	3,110	13,700	1,860	1,200	954	917	2,410
10	968	972	9,620	3,260	1,810	5,370	9,870	2,990	1,140	858	1,390	1,890
11	999	963	6,630	5,260	1,770	5,130	7,080	2,930	1,090	790	1,070	1,610
12	996	909	4,970	6,380	1,730	4,330	5,990	2,780	996	812	927	1,550
13	916	915	3,970	4,300	1,650	3,860	7,690	11,500	965	777	763	1,410
14	907	904	6,080	3,160	1,690	3,370	8,540	7,040	933	729	653	2,270
15	858	845	5,610	3,010	1,620	3,000	8,660	4,780	883	615	632	2,970
16	804	840	4,210	3,150	1,880	3,230	7,850	3,860	2,010	586	557	2,060
17	783	764	3,850	3,100	1,760	6,290	5,970	3,200	2,990	554	547	1,670
18	740	789	3,400	3,050	1,760	4,640	5,120	2,810	1,640	507	2,460	1,440
19	738	785	2,820	3,000	1,800	3,550	4,630	2,610	1,230	553	1,560	1,280
20	739	791	2,850	3,000	2,500	3,250	4,460	2,320	1,010	523	1,000	1,170
21	728	763	37,400	4,000	3,120	5,170	4,000	2,100	1,150	540	743	1,160
22	723	734	26,400	5,700	2,510	9,370	3,640	1,960	1,520	503	626	1,310
23	726	708	13,600	9,000	4,060	5,890	3,640	2,630	2,260	461	2,980	1,280
24	742	713	9,190	8,100	4,760	5,010	3,330	2,560	2,650	787	1,160	1,090
25	708	756	6,800	7,200	3,950	4,400	2,920	2,080	2,470	936	870	957
26	684	831	10,800	6,000	3,600	3,760	2,650	1,820	1,850	822	663	859
27	668	897	22,000	6,200	3,110	3,410	2,490	1,700	1,540	687	974	793
28	630	1,130	12,000	6,000	3,010	3,060	2,330	1,670	1,480	610	777	1,200
29	1,730	1,920	9,190	6,500	------	2,940	2,270	1,640	1,880	550	701	8,540
30	3,760	1,940	7,530	5,900	------	5,000	2,200	1,700	1,770	1,030	961	2,610
31	3,760	------	6,220	5,300	------	18,600	------	1,680	------	1,080	1,110	------
TOTAL	36,504	32,909	240,611	152,580	73,550	137,330	195,170	86,480	47,337	28,734	36,694	64,499
MEAN	1,178	1,097	7,762	4,922	2,627	4,430	6,506	2,790	1,578	927	1,184	2,150
MAX	3,760	2,280	37,400	9,000	4,760	18,600	13,700	11,500	2,990	2,280	3,950	8,540
MIN	630	708	862	3,000	1,620	2,200	2,200	1,640	883	461	547	793
(/)	268	258	257	260	251	251	248	263	280	331	308	275
MEAN≠	1,446	1,355	8,019	5,182	2,878	4,681	6,754	3,053	1,858	1,258	1,492	2,425
CFSM≠	.76	.71	4.24	2.74	1.52	2.47	3.57	1.61	.98	.66	.79	1.28
IN.≠	.88	.78	4.87	3.15	1.58	2.84	3.97	1.86	1.09	.76	.91	1.43

CAL YR 1973 TOTAL 1,443,906 MEAN 3,956 MAX 37,400 MIN 562 MEAN≠ 4,226 CFSM≠ 2.23 IN.≠ 30.30
WTR YR 1974 TOTAL 1,132,398 MEAN 3,102 MAX 37,400 MIN 461 MEAN≠ 3,374 CFSM≠ 1.78 IN.≠ 24.19

PEAK DISCHARGE (BASE, 18,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1600	11.47	51,300	3-31	0745	9.14	23,800
12-27	0215	9.93	32,000	4- 9	1315	8.61	18,800

/ Diversion, equivalent in cubic feet per second, for municipal water supply; furnished by city of Philadelphia.
≠ Adjusted for diversion.

01475300 Darby Creek at Waterloo Mills near Devon, Pa.

LOCATION.--Lat 40°01'21", long 75°25'20", Chester County, on left bank 125 ft (38 m) upstream from bridge on Waterloo Road, 2 mi (3.2 km) south of Devon, and 2.5 mi (4.0 km) northwest of Newtown Square.

DRAINAGE AREA.--5.15 mi^2 (13.3 km^2).

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 310 ft (94 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 427 ft^3/s (12.1 m^3/s) Dec. 21 (gage height, 4.22 ft or 1.286 m); minimum, 1.4 ft^3/s (0.040 m^3/s) Sept. 16 (gage height, 1.40 ft or 0.427 m).
Period of record: Maximum discharge, 985 ft^3/s (27.9 m^3/s) June 22, 1972 (gage height, 5.49 ft or 1.673 m); minimum, 1.4 ft^3/s (0.040 m^3/s) Sept. 16, 1974 (gage height, 1.40 ft or 0.427 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	4.5	3.3	14	9.2	11	16	7.8	9.2	8.9	3.6	2.4
2	16	4.4	3.2	10	10	9.0	14	7.5	7.8	5.9	4.5	2.7
3	6.6	4.2	3.2	13	9.2	9.0	13	12	6.4	5.5	4.9	12
4	4.4	4.1	3.1	18	8.9	8.5	16	8.5	5.8	5.0	6.1	8.2
5	3.9	4.6	27	12	8.2	8.0	20	7.8	5.5	8.6	4.9	3.4
6	3.4	4.4	9.2	10	7.8	8.0	14	8.2	5.2	6.0	3.6	3.4
7	3.5	4.2	4.6	9.8	10	8.0	12	8.2	4.7	5.1	4.7	19
8	3.5	4.2	3.9	9.6	9.2	8.0	15	7.5	5.2	4.7	3.9	4.8
9	3.4	4.4	24	9.6	8.5	12	38	9.2	5.2	4.5	6.6	4.0
10	3.4	4.1	7.4	10	8.2	13	15	13	4.9	4.4	4.9	3.7
11	3.3	4.1	5.5	29	8.2	10	13	8.2	4.5	4.2	3.5	3.5
12	3.3	4.0	4.7	15	8.2	9.0	13	33	4.7	4.0	3.3	3.4
13	3.3	4.0	5.9	10	9.2	8.0	33	15	4.0	3.6	3.3	3.6
14	3.3	4.0	17	10	9.6	7.0	16	9.2	4.0	3.4	3.2	6.3
15	3.4	4.0	6.1	11	8.5	7.0	14	8.5	3.7	3.4	3.0	4.0
16	3.4	3.7	5.5	12	7.8	19	13	7.8	26	3.6	2.8	2.8
17	3.4	3.5	5.2	12	8.5	13	12	7.5	8.2	3.2	8.1	2.8
18	3.5	3.7	4.9	10	7.8	8.9	11	7.5	5.8	3.4	4.2	2.9
19	3.6	4.1	4.7	11	10	8.5	13	7.2	5.2	5.2	3.1	3.0
20	3.7	4.0	20	10	11	7.8	12	6.9	4.7	3.2	2.8	2.9
21	3.5	3.9	235	27	9.2	31	11	6.9	10	3.0	2.6	4.1
22	3.4	4.0	18	14	14	12	11	7.5	6.6	3.0	2.7	3.5
23	3.4	4.0	14	11	11	10	13	11	36	3.2	7.1	2.8
24	3.6	4.2	11	11	9.0	9.2	10	6.3	10	7.8	3.3	2.6
25	3.6	4.2	10	10	10	8.5	8.2	6.3	8.2	4.1	2.9	2.7
26	3.9	3.9	58	10	9.0	8.5	8.9	6.6	7.4	3.4	2.7	2.7
27	3.7	4.0	22	13	8.2	8.2	8.9	6.3	6.9	3.4	2.8	2.6
28	3.5	8.8	14	11	9.5	8.2	8.5	6.1	12	3.2	2.6	19
29	20	5.4	12	10	------	13	8.5	6.1	10	3.0	2.5	9.2
30	7.7	4.0	11	9.6	------	45	8.2	6.1	7.2	11	3.1	4.0
31	4.8	------	12	9.6	------	37	------	5.8	------	4.1	2.7	------
TOTAL	146.7	128.6	585.4	382.2	257.9	383.3	419.2	275.5	245.0	145.0	120.0	152.0
MEAN	4.73	4.29	18.9	12.3	9.21	12.4	14.0	8.89	8.17	4.68	3.87	5.07
MAX	20	8.8	235	29	14	45	38	33	36	11	8.1	19
MIN	3.3	3.5	3.1	9.6	7.8	7.0	8.2	5.8	3.7	3.0	2.5	2.4
CFSM	.92	.83	3.67	2.39	1.79	2.41	2.72	1.73	1.59	.91	.75	.98
IN.	1.06	.93	4.23	2.76	1.86	2.77	3.03	1.99	1.77	1.05	.87	1.10

CAL YR 1973 TOTAL 4,146.9 MEAN 11.4 MAX 235 MIN 2.4 CFSM 2.21 IN 29.95
WTR YR 1974 TOTAL 3,240.8 MEAN 8.88 MAX 235 MIN 2.4 CFSM 1.72 IN 23.41

PEAK DISCHARGE (BASE, 200 CFS).--Dec. 21 (0145) 427 cfs (4.22 ft).

01475510 Darby Creek near Darby, Pa.

LOCATION.--Lat 39°55'44", long 75°16'22", Delaware County, on right bank 30 ft (9 m) upstream from Providence Road Bridge, 1.1 mi (1.8 km) northwest of Upper Darby, 2.3 mi (3.7 km) upstream from Cobbs Creek, and 8.4 mi (13.5 km) upstream from mouth.

DRAINAGE AREA.--37.4 mi^2 (96.9 km^2).

PERIOD OF RECORD.--February 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.41 ft (5.916 m) above mean sea level. Prior to May 9, 1964, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 69.6 ft^3/s (1.97 m^3/s), 25.27 in/yr (642 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,920 ft^3/s (168 m^3/s) Aug. 23 (gage height, 10.23 ft or 3.118 m), from rating curve extended as explained below; minimum, 11 ft^3/s (0.31 m^3/s) Dec. 10 (gage height, 1.20 ft or 0.366 m).

Period of record: Maximum discharge, 5,920 ft^3/s (168 m^3/s) Aug. 23, 1974 (gage height, 10.23 ft or 3.118 m), from rating curve extended above 920 ft^3/s (26 m^3/s) on basis of step-backwater analysis; minimum, 8.8 ft^3/s (0.25 m^3/s) Sept. 2, 1966 (gage height, 1.16 ft or 0.354 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	47	30	101	68	75	101	61	64	50	29	29
2	103	33	29	75	68	64	98	59	64	40	90	41
3	73	33	30	73	68	62	86	108	51	41	59	147
4	34	32	29	73	68	57	112	64	45	40	144	110
5	32	34	186	75	59	56	147	61	45	120	77	36
6	32	33	105	75	48	54	101	66	42	50	34	36
7	30	32	44	75	51	54	83	64	42	38	59	222
8	30	30	37	75	54	53	103	57	44	44	36	48
9	32	32	228	75	54	83	281	96	44	47	59	39
10	32	30	70	105	53	79	105	139	41	34	50	37
11	31	30	47	212	53	56	92	64	39	34	33	36
12	31	30	41	119	59	54	90	180	38	34	32	34
13	30	30	68	75	61	53	212	139	38	33	30	38
14	29	30	188	68	64	53	112	68	37	33	32	64
15	28	30	53	68	59	51	96	61	37	32	28	36
16	30	30	47	73	57	180	90	57	188	30	27	33
17	28	29	51	79	57	114	86	56	79	30	33	32
18	30	29	45	70	53	64	81	56	40	30	42	32
19	30	36	41	71	77	61	88	53	35	50	39	30
20	30	29	129	68	86	56	81	53	45	32	27	30
21	30	29	1,200	174	57	291	77	54	36	30	26	47
22	30	29	122	96	86	94	75	51	35	29	34	47
23	30	29	81	73	68	71	103	98	73	28	746	29
24	29	29	70	68	56	66	75	75	50	101	183	28
25	29	30	64	66	64	62	68	51	45	38	62	33
26	29	30	312	64	61	61	68	48	40	32	36	29
27	30	30	177	88	57	59	66	48	35	32	34	28
28	29	71	88	70	59	57	66	48	45	30	33	147
29	216	57	75	68	------	96	64	48	36	30	30	110
30	70	33	73	68	------	351	62	47	35	105	29	37
31	45	------	77	68	------	288	------	45	------	33	30	------
TOTAL	1,294	1,006	3,837	2,608	1,725	2,875	2,969	2,175	1,488	1,330	2,203	1,645
MEAN	41.7	33.5	124	84.1	61.6	92.7	99.0	70.2	49.6	42.9	71.1	54.8
MAX	216	71	1,200	212	86	351	281	180	188	120	746	222
MIN	28	29	29	64	48	51	62	45	35	28	26	28
CFSM	1.12	.90	3.32	2.25	1.65	2.48	2.65	1.88	1.33	1.15	1.90	1.47
IN.	1.29	1.00	3.82	2.59	1.72	2.86	2.95	2.16	1.48	1.32	2.19	1.64

CAL YR 1973 TOTAL 33,390 MEAN 91.5 MAX 1,200 MIN 28 CFSM 2.45 IN 33.21
WTR YR 1974 TOTAL 25,155 MEAN 68.9 MAX 1,200 MIN 26 CFSM 1.84 IN 25.02

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1000	6.05	2,000	6-16	1700	3.92	894
12-26	2000	3.92	894	8- 4	1830	4.08	966
3-21	1430	3.95	908	8-23	0415	10.23	5,920
3-30	2130	3.99	926	8-24	2230	6.28	2,150

01475530 Cobbs Creek at U. S. Highway No. 1 at Philadelphia, Pa.

LOCATION.--Lat 39°58'29", long 75°16'49", Philadelphia County, on left bank 30 ft (9 m) downstream from bridge on U. S. Highway No. 1 and 50 ft (15 m) upstream from unnamed tributary at west city limits of Philadelphia.

DRAINAGE AREA.--4.78 mi^2 (12.4 km^2).

PERIOD OF RECORD.--October 1964 to current year. Prior to October 1973 published as "near Philadelphia".

GAGE.--Water-stage recorder and concrete control. Datum of gage is 121.76 ft (37.112 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 6.80 ft^3/s (0.193 m^3/s), 19.32 in/yr (491 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,480 ft^3/s (98.6 m^3/s) Aug. 23 (gage height, 10.48 ft or 3.194 m), from rating curve extended above 160 ft^3/s (4.5 m^3/s) on basis of computation of flow through culvert at gage height, 9.18 ft (2.798 m); minimum, 1.1 ft^3/s (0.031 m^3/s) Jan. 17 (gage height, 2.15 ft or 0.655 m).
Period of record: Maximum discharge, 3,480 ft^3/s (98.6 m^3/s) Aug. 23, 1974 (gage height, 10.48 ft or 3.194 m), from rating curve extended as explained above; minimum, 0.3 ft^3/s (0.008 m^3/s) Oct. 13, Nov. 24, 25, 1965; minimum gage height, 2.03 ft (0.619 m) Nov. 25, 1965.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	4.9	2.4	11	5.2	6.8	10	4.7	7.2	8.2	2.4	4.9
2	16	2.6	2.2	6.1	6.1	5.5	8.6	4.4	8.2	3.9	19	10
3	3.4	2.6	2.2	13	5.5	5.2	7.2	14	4.2	4.2	5.5	55
4	2.4	2.4	2.2	15	5.5	4.9	12	4.9	3.4	3.9	51	17
5	2.0	2.8	31	7.2	4.7	4.9	20	4.7	3.0	15	7.5	5.8
6	1.8	2.4	6.1	6.5	4.7	4.7	8.2	7.9	2.8	3.7	3.0	6.5
7	1.8	2.4	3.2	6.1	10	4.9	6.8	4.9	2.8	3.0	10	45
8	1.8	2.4	2.8	5.8	5.2	4.4	13	4.4	2.8	2.8	3.0	7.2
9	2.0	2.2	39	6.5	4.9	13	43	17	2.4	2.6	24	6.8
10	2.0	2.2	4.9	10	4.7	7.5	10	25	2.4	2.4	4.4	5.5
11	1.8	2.2	3.4	32	4.7	4.2	11	5.5	2.4	2.4	3.0	5.5
12	1.8	2.2	3.0	10	5.2	3.7	10	32	2.8	2.2	2.8	4.9
13	1.4	2.4	15	6.1	6.1	3.7	30	8.9	2.8	2.2	2.6	5.2
14	1.5	2.4	22	5.5	5.5	3.4	8.6	5.8	2.4	2.2	2.6	12
15	1.5	2.4	3.9	5.5	4.9	3.4	7.5	5.5	2.6	2.0	2.2	4.7
16	1.5	2.2	3.7	6.8	4.9	38	6.1	4.9	31	2.2	2.0	4.7
17	1.5	2.2	3.9	5.8	5.2	8.6	6.1	4.7	7.2	2.2	2.4	4.4
18	1.5	2.2	3.2	5.2	4.7	5.2	6.1	4.7	3.4	3.2	2.6	4.2
19	1.7	2.6	2.8	6.5	14	4.9	8.2	4.2	3.0	7.9	2.2	3.9
20	1.4	2.4	32	5.2	9.3	4.4	6.5	4.2	3.0	2.4	2.0	3.4
21	1.5	2.4	135	26	5.2	50	6.1	3.7	13	2.0	1.8	12
22	1.7	2.4	11	7.5	12	7.5	6.1	4.7	8.6	2.0	3.4	4.9
23	1.8	2.4	7.9	5.8	5.8	5.8	14	14	30	2.4	310	4.2
24	1.2	2.6	6.8	5.2	4.9	5.8	5.8	5.5	4.9	18	35	4.2
25	1.8	2.8	6.1	5.2	6.1	5.5	5.5	4.4	4.2	3.0	8.9	4.2
26	1.8	2.4	44	5.2	6.5	5.2	5.5	3.9	3.7	2.6	5.2	4.2
27	1.8	2.6	13	11	5.5	4.9	5.2	3.9	3.4	2.4	5.8	3.4
28	2.4	15	7.9	6.8	6.1	4.9	5.2	3.7	11	2.4	6.1	35
29	40	3.4	7.2	6.5	------	16	4.9	3.7	5.2	2.2	6.5	6.1
30	4.9	2.4	7.2	5.5	------	63	4.7	3.9	3.2	15	7.5	3.2
31	3.4	------	9.6	5.5	------	35	------	3.7	------	2.6	5.2	------
TOTAL	113.7	88.5	444.6	266.0	173.1	344.9	301.9	227.4	187.0	133.2	549.6	298.0
MEAN	3.67	2.95	14.3	8.58	6.18	11.1	10.1	7.34	6.23	4.30	17.7	9.93
MAX	40	15	135	32	14	63	43	32	31	18	310	55
MIN	1.2	2.2	2.2	5.2	4.7	3.4	4.7	3.7	2.4	2.0	1.8	3.2
CFSM	.77	.62	2.99	1.80	1.29	2.32	2.11	1.54	1.30	.90	3.70	2.08
IN.	.88	.69	3.46	2.07	1.35	2.68	2.35	1.77	1.46	1.04	4.28	2.32

CAL YR 1973 TOTAL 3,491.0 MEAN 9.56 MAX 160 MIN 1.2 CFSM 2.00 IN 27.17
WTR YR 1974 TOTAL 3,127.9 MEAN 8.57 MAX 310 MIN 1.2 CFSM 1.79 IN 24.34

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0245	5.08	321	8- 4	1730	6.16	621
3-16	1700	4.93	289	8-23	0400	10.48	3,480
3-21	1215	4.92	285	8-24	2215	6.46	734
3-30	1915	4.79	262	9- 3	1945	5.59	448
4- 9	0215	4.74	253	9-28	2015	5.25	362

01475545 Naylor Creek at West Chester Pike near Philadelphia, Pa.

LOCATION.--Lat 39°58'13", long 75°18'11", Delaware County, 200 ft (60 m) north of West Chester Pike, 0.4 mi (0.6 km) west of intersection of West Chester Pike and U.S. Highway 1 and 8 mi (13 km) west of City Hall, Philadelphia.

DRAINAGE AREA.--1.10 mi^2 (2.85 km^2).

PERIOD OF RECORD.--June 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 215 ft (65.5 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 568 ft^3/s (16.1 m^3/s) Aug. 23 (gage height, 6.58 ft or 2.006 m), from rating curve extended above 90 ft^3/s (2.55 m^3/s) on basis of computation of peak flow through culvert and over road; minimum daily, 0.25 ft^3/s (0.007 m^3/s) Dec. 2, 3.

Period of record: Maximum discharge, 568 ft^3/s (16.1 m^3/s) Aug. 23, 1974 (gage height, 6.58 ft or 2.006 m), from rating curve extended as explained above; minimum daily, 0.25 ft^3/s (0.007 m^3/s) Dec. 2, 3, 1973.

REVISIONS.--Figures of maximum discharge for the water years 1972 and 1973 have been revised to 298 ft^3/s (8.44 m^3/s) June 30, 1972 (gage height, 2.63 ft or 0.802 m) and 427 ft^3/s (12.1 m^3/s) Aug. 2, 1973 (gage height, 3.92 ft or 1.195 m), superseding figures published in WRD Penna. 1972 and 1973.

REMARKS.--Records fair. Revised figures of discharge, in cubic feet per second, for high-water periods in the water year 1973, superseding those published in WRD Penna. 1973, are given herewith.

Date	Discharge
June 29 -----	54
Aug. 1 -----	16
Aug. 2 -----	34

Month	CFS-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
June 1973	81.18	54	.54	2.71	2.46	2.74
August 1973	80.16	34	.54	2.59	2.35	2.71
WTR YR 1973	765.61	54	.30	2.10	1.91	25.89

The figures of peak discharge for the water years 1972 and 1973 have been revised as shown in the following table. They supersede figures published in WRD Penna., 1972 and 1973.

REVISED PEAK DISCHARGE.--1972: June 21 (2245) 193 ft^3/s (1.88 ft); June 30 (1645) 298 ft^3/s (2.63 ft) July 13 (0430) 166 ft^3/s (1.71 ft).

1973: Dec. 6 (1615) 164 ft^3/s (1.70 ft); Feb. 2 (1145) 161 ft^3/s (1.68 ft); May 3 (1445) 210 ft^3/s (1.99 ft); June 29 (1345) 419 ft^3/s (3.82 ft); Aug. 1 (1900) 258 ft^3/s (2.32 ft); Aug 2 (1715) 427 ft^3/s (3.92 ft); Sept. 14 (1815) 212 ft^3/s (2.00 ft).

01475545 Naylor Creek at West Chester Pike near Philadelphia, Pa.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.86	.33	1.1	.75	.97	1.3	.97	1.3	.75	1.1	.64
2	3.9	.56	.25	.75	.97	.86	1.2	.86	1.5	5.1	10	1.7
3	.64	.56	.25	2.7	.75	.97	.97	2.5	.64	14	.64	17
4	.56	.48	.33	2.2	.86	.97	2.2	.86	.64	4.5	14	2.7
5	.56	.64	5.4	.75	.64	1.3	3.6	.75	.64	5.1	.86	.86
6	.56	.48	.75	.75	.64	1.3	1.1	1.3	.64	1.0	.48	1.1
7	.56	.48	.41	.75	1.7	1.5	.97	.75	.64	.80	1.8	8.0
8	.56	.48	.41	.75	.75	1.5	3.3	.75	.64	.60	.48	1.1
9	.56	.56	7.5	1.1	.64	2.7	8.9	3.6	.64	.56	3.9	.97
10	.56	.48	.64	2.0	.64	.86	1.1	5.1	.64	.56	.56	.97
11	.56	.48	.56	7.5	.64	.56	1.3	1.7	.64	.75	.48	.86
12	.56	.48	.48	1.5	.86	.50	1.3	6.0	.64	.75	.48	.86
13	.56	.48	1.7	.86	.86	.50	4.5	2.0	.64	.75	.48	2.0
14	.56	.48	6.2	.75	.75	.50	.86	1.3	.64	.75	.48	.75
15	.56	.48	.56	.86	.75	.64	.75	.97	.64	.75	.48	.75
16	.64	.48	.56	.97	.75	10	.75	.97	7.5	.75	.48	.75
17	.64	.41	.56	.86	.75	1.1	.97	.97	.97	.75	.48	.75
18	.64	.41	.48	.75	.64	.86	.64	.97	.48	3.3	.48	.65
19	.64	.41	.56	.97	2.7	.86	1.1	.97	.41	1.3	.48	.64
20	.64	.41	1.1	.75	1.1	.75	.64	.97	.41	.48	.48	.64
21	.64	.41	51	5.8	.64	11	.64	.97	3.6	.48	.48	2.0
22	.48	.41	1.5	.97	2.4	.97	.86	.97	1.8	.48	.75	.64
23	.48	.41	.97	.86	.75	.86	.86	.97	5.4	.48	21	.64
24	.48	.48	.75	.75	.75	.86	.86	.86	.56	3.3	8.5	.64
25	.48	.56	.75	.75	1.1	.75	.80	.86	.56	.41	1.5	.64
26	.48	.41	4.8	.86	1.1	.75	.85	.86	.48	.41	.86	.64
27	.48	.41	5.4	1.7	.75	.75	.80	.86	.48	.41	.75	.64
28	.48	2.0	.86	.97	.97	.75	.80	.56	1.7	.41	.75	9.8
29	7.1	.48	.86	.75	------	3.0	.86	.64	.64	.48	.86	1.3
30	.64	.41	.86	.75	------	17	.86	.75	.48	2.7	1.1	.75
31	.56	------	2.2	.75	------	5.1	------	.75	------	.97	.64	------
TOTAL	27.32	16.08	98.98	43.53	26.60	70.99	45.64	43.31	36.59	53.83	75.81	61.38
MEAN	.88	.54	3.19	1.40	.95	2.29	1.52	1.40	1.22	1.74	2.45	2.05
MAX	7.1	2.0	51	7.5	2.7	17	8.9	6.0	7.5	14	21	17
MIN	.48	.41	.25	.75	.64	.50	.64	.56	.41	.41	.48	.64
CFSM	.80	.49	2.90	1.27	.86	2.08	1.38	1.27	1.11	1.58	2.23	1.86
IN.	.92	.54	3.35	1.47	.90	2.40	1.54	1.46	1.24	1.82	2.56	2.08

CAL YR 1973 TOTAL 705.48 MEAN 1.93 MAX 54 MIN .25 CFSM 1.75 IN 23.86
WTR YR 1974 TOTAL 600.06 MEAN 1.64 MAX 51 MIN .25 CFSM 1.49 IN 20.29

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0715	1.73	169	6-16	1530	1.68	161	8- 4	1715	2.39	268
1-21	1300	1.79	178	6-21	1630	1.70	164	8-23	Unk.	6.58	568
3-16	1630	1.71	166	7-18	2345	1.89	194	9- 3	1915	2.84	322
3-30	1830	1.85	188	8- 2	1830	2.50	282	9-28	2000	2.14	233

01475550 Cobbs Creek at Darby, Pa.

LOCATION.--Lat 39°55'02", long 75°14'52", Delaware County, on right bank at Darby, 60 ft (18 m) upstream from dam, 200 ft (61 m) upstream from bridge on Woodland Avenue, and 1.1 mi (1.8 km) upstream from mouth.

DRAINAGE AREA.--22.0 mi^2 (57.0 km^2).

PERIOD OF RECORD.--February 1964 to current year.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 11.93 ft (3.636 m) above mean sea level. Prior to Apr. 29, 1964, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 28.6 ft^3/s (0.81 m^3/s), 17.65 in/yr (448 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,350 ft^3/s (94.9 m^3/s) Aug. 23, from computation of flow through culvert; maximum gage height, 12.85 ft (3.917 m) Aug. 23 (backwater from storage tank); minimum discharge, 0.97 ft^3/s (0.03 m^3/s) Aug. 27 (gage height, 0.85 ft or 0.259 m).
Period of record: Maximum discharge, 4,490 ft^3/s (127 m^3/s) June 29, 1973 (gage height, 10.98 ft or 3.347 m), from rating curve extended above 850 ft^3/s (24.1 m^3/s) on basis of computation of peak flow through culvert; maximum gage height, 12.85 ft (3.917 m) Aug. 23, 1974, backwater from storage tank; no flow on many days in 1964-66.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	27	8.0	37	18	21	30	15	26	35	8.9	5.2
2	75	8.1	7.8	16	23	17	32	15	37	15	112	22
3	22	11	7.4	39	22	20	23	68	18	16	27	228
4	9.1	20	7.9	52	20	14	50	16	13	13	75	80
5	7.9	23	150	18	17	14	73	16	12	94	35	11
6	7.4	23	33	16	18	15	24	24	12	22	16	11
7	7.4	32	11	16	39	14	21	21	16	14	47	206
8	7.6	27	8.7	15	20	13	54	15	13	17	11	13
9	7.1	24	171	26	18	47	202	94	13	20	35	11
10	7.4	8.7	21	66	17	32	30	123	18	13	20	11
11	8.5	8.3	12	131	16	13	24	21	13	9.9	9.9	10
12	8.5	8.3	11	35	16	13	23	141	12	9.1	8.9	8.9
13	8.7	8.7	50	21	18	12	123	33	11	9.1	8.9	11
14	9.5	8.9	94	18	18	12	26	22	12	9.9	9.7	39
15	9.1	8.7	13	20	15	12	23	22	16	10	8.3	8.7
16	9.7	8.5	13	24	16	147	22	18	161	9.5	7.6	7.9
17	9.1	8.1	14	29	18	35	21	18	30	8.9	12	8.1
18	8.9	7.8	11	37	13	17	21	21	16	9.1	8.7	7.8
19	9.1	8.1	9.7	47	48	18	29	18	12	33	7.9	6.4
20	8.9	7.1	109	35	39	17	22	17	9.9	9.1	7.6	6.0
21	8.5	7.9	687	141	16	232	22	17	73	8.1	7.1	27
22	9.1	8.1	30	33	32	27	23	20	47	8.1	16	16
23	9.1	7.9	22	27	17	21	54	60	245	8.3	710	5.5
24	8.7	8.1	18	26	16	18	21	43	23	129	103	6.5
25	8.5	8.1	16	33	27	16	21	21	20	15	106	6.5
26	8.3	7.6	164	37	24	16	20	16	17	9.3	2.0	6.5
27	8.3	7.6	41	54	20	15	20	16	14	8.5	1.2	5.7
28	7.8	52	21	32	18	15	18	18	35	8.3	3.2	112
29	215	17	18	21	------	62	16	16	27	9.1	6.5	459
30	23	8.1	21	17	------	268	16	15	12	94	5.5	141
31	12	------	30	18	------	144	------	14	------	9.9	6.5	------
TOTAL	566.8	418.7	1,830.5	1,137	599	1,337	1,104	994	983.9	684.2	1,443.4	1,497.7
MEAN	18.3	14.0	59.0	36.7	21.4	43.1	36.8	32.1	32.8	22.1	46.6	49.9
MAX	215	52	687	141	48	268	202	141	245	129	710	459
MIN	7.1	7.1	7.4	15	13	12	16	14	9.9	8.1	1.2	5.2
CFSM	.83	.64	2.68	1.67	.97	1.96	1.67	1.46	1.49	1.00	2.12	2.27
IN.	.96	.71	3.10	1.92	1.01	2.26	1.87	1.68	1.66	1.16	2.44	2.53

CAL YR 1973 TOTAL 14,253.9 MEAN 39.1 MAX 883 MIN 7.1 CFSM 1.78 IN 24.10
WTR YR 1974 TOTAL 12,596.2 MEAN 34.5 MAX 710 MIN 1.2 CFSM 1.57 IN 21.30

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0045	4.81	1,360	8-23	0615	12.85	3,350
3-21	1345	4.61	1,270	8-24	2400	6.22	2,030
6-23	0215	4.92	1,410				

01476030 Little Crum Creek at Michigan Avenue, Swarthmore, Pa.

LOCATION.--Lat 39°53'42", long 75°20'19", Delaware County, on left bridge abutment at Michigan Avenue, Ridley Township, Swarthmore.

DRAINAGE AREA.--1.15 mi^2 (2.98 km^2).

PERIOD OF RECORD.--May 1971 to current year.

GAGE.--Water-stage recorder and concrete and rock control. Altitude of gage is 40 ft (12 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 466 ft^3/s (13.2 m^3/s) Aug. 24 (gage height, 6.90 ft or 2.103 m), from rating curve extended as explained below; minimum, 0.10 ft^3/s (0.003 m^3/s) Sept. 1 (gage height, 1.96 ft (0.597 m).

Period of record: Maximum discharge, 605 ft^3/s (17.1 m^3/s) Sept. 13, 1971 (gage height, 9.77 ft or 2.978 m, from crest-stage indicator), from rating curve extended above 50 ft^3/s (1.4 m^3/s); minimum, 0.02 ft^3/s (0.001 m^3/s) Sept. 16, 17, 1972; minimum gage height, 1.96 ft (0.597 m) Sept. 1, 1974.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	1.0	.47	1.4	.70	1.1	1.6	.67	.67	1.4	37	.24
2	2.3	.77	.47	.95	.80	1.0	1.4	.70	1.0	.85	1.9	.26
3	.67	.57	.63	1.7	.70	1.0	1.2	2.7	.47	.90	.60	7.3
4	.57	.67	.60	2.4	.70	1.0	2.2	1.1	.42	.95	.54	2.0
5	.52	.70	6.7	1.1	.63	1.0	3.6	1.1	.42	2.4	.57	.72
6	.52	.70	1.2	1.0	.63	1.0	1.7	1.4	.40	1.2	.34	2.8
7	.57	.60	.73	.95	1.1	1.0	1.4	1.1	.42	1.1	1.4	5.1
8	.57	.60	.70	.85	.70	.73	2.8	1.0	.45	.95	.40	.88
9	.57	.67	7.4	1.2	.67	1.4	12	2.5	.42	.95	.38	.80
10	.57	.60	1.0	2.0	.64	1.1	2.3	3.4	.42	.85	.34	.69
11	.54	.60	.77	7.1	.63	.85	1.8	1.2	.42	.77	1.0	.76
12	.42	.60	.73	1.8	.70	.85	1.7	3.6	.42	.70	.18	.78
13	.42	.60	2.8	1.2	.73	.80	4.9	1.5	.42	.70	.16	.80
14	.42	.60	2.7	1.1	.70	.77	1.8	1.1	.45	.70	.20	1.0
15	.38	.60	.85	1.1	.67	.73	1.4	1.0	.47	.70	.22	.51
16	.47	.57	.80	1.2	.60	7.8	1.3	.95	6.1	.70	.26	.46
17	.32	.57	.85	1.2	.66	1.9	1.2	1.3	1.6	.67	.36	.46
18	.28	.60	.73	1.0	.60	1.2	1.2	1.5	1.1	.70	.22	.42
19	.26	.77	.70	1.1	.80	1.2	1.4	1.4	1.0	.73	.22	.42
20	.26	.77	9.8	1.0	.85	1.1	.90	1.4	.90	.70	.20	.42
21	.28	.80	30	5.4	.75	13	.95	1.4	5.4	.77	.18	.84
22	.30	.85	1.4	1.1	1.1	1.8	1.1	1.9	1.4	.73	1.9	.36
23	.36	.80	1.1	.85	.85	1.7	2.0	3.1	9.4	.73	22	.30
24	.38	.77	.95	.80	.78	1.2	.95	1.6	1.6	4.1	24	.28
25	.36	.80	.90	.77	.86	1.1	.85	1.5	1.4	.54	3.2	.30
26	.34	.85	7.8	.73	.87	1.1	.90	1.5	1.3	.45	.57	.28
27	.32	1.0	1.9	1.0	.88	1.1	.80	1.4	1.2	.45	.40	.28
28	.30	1.4	1.1	.80	1.0	1.1	.80	1.4	1.8	.38	.36	4.1
29	8.2	.60	1.0	.77	------	2.3	.77	1.6	1.3	.42	.18	1.4
30	.85	.52	1.0	.73	------	14	.70	1.4	1.1	2.2	.38	.80
31	.67	------	1.4	.73	------	5.4	------	3.5	------	.45	.12	------
TOTAL	23.37	21.55	89.18	45.03	21.30	71.33	57.62	50.92	43.87	29.84	99.78	35.76
MEAN	.75	.72	2.88	1.45	.76	2.30	1.92	1.64	1.46	.96	3.22	1.19
MAX	8.2	1.4	30	7.1	1.1	14	12	3.6	9.4	4.1	37	7.3
MIN	.26	.52	.47	.73	.60	.73	.70	.67	.40	.38	.12	.24
CFSM	.65	.63	2.50	1.26	.66	2.00	1.67	1.43	1.27	.83	2.80	1.03
IN.	.76	.70	2.88	1.46	.69	2.31	1.86	1.65	1.42	.97	3.23	1.16

CAL YR 1973 TOTAL 678.92 MEAN 1.86 MAX 62 MIN .26 CFSM 1.62 IN 21.96
WTR YR 1974 TOTAL 589.55 MEAN 1.62 MAX 37 MIN .12 CFSM 1.41 IN 19.07

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0210	3.83	101	8-24	2205	6.90	466
8-23	0320	4.83	228				

01477000 Chester Creek near Chester, Pa.

LOCATION.--Lat 39°52'08", long 75°24'31", Delaware County, on right bank 30 ft (9 m) downstream from Dutton Mill Bridge and 3 mi (5 km) northwest of Chester.

DRAINAGE AREA.--61.1 mi^2 (158.2 km^2).

PERIOD OF RECORD.--August 1931 to current year. Monthly discharges only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 23.41 ft (7.135 m) above mean sea level (Penn Central Railroad benchmark). Prior to June 27, 1966 water-stage recorder at site 50 ft (15 m) upstream and June 28, 1966 to Oct. 4, 1967, nonrecording gage 150 ft (46 m) upstream, all at same datum.

AVERAGE DISCHARGE.--43 years, 82.0 ft^3/s (2,322 m^3/s), 18.23 in/yr (463 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,160 ft^3/s (89.5 m^3/s) Dec. 21 (gage height, 9.32 ft or 2.841 m); minimum, 24 ft^3/s (0.68 m^3/s) Nov. 30, may have been lower during period of no gage-height record; minimum gage height, 3.00 ft or 0.914 m on many days in October, July to September.

Period of record: Maximum discharge, 21,000 ft^3/s (595 m^3/s) Sept. 13, 1971 (gage height, 24.59 ft or 7.495 m from floodmark), from rating curve extended above 2,400 ft^3/s (68.0 m^3/s) on basis of contracted-opening measurement at 13.57 ft (4.136 m) and slope-area measurement of peak flow; minimum, 0.3 ft^3/s (0.008 m^3/s) Aug. 7, 1934 (gage height, 0.28 ft or 0.085 m); minimum daily, 6.5 ft^3/s (0.18 m^3/s) Sept. 25, 1941.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WRD Penna. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	59	25	138	82	130	160	92	80	77	35	31
2	70	51	25	107	84	110	150	308	78	63	49	35
3	97	44	25	107	87	105	140	122	78	57	65	77
4	51	43	25	186	80	97	190	99	67	55	75	111
5	44	44	337	124	73	92	250	86	63	91	120	47
6	40	51	156	107	68	90	170	87	67	93	51	41
7	38	49	67	101	75	90	140	99	59	60	60	195
8	40	47	54	95	82	90	170	87	60	54	51	73
9	43	46	211	97	82	120	450	91	59	49	44	55
10	47	43	107	111	80	110	170	159	54	46	57	49
11	44	43	68	252	78	75	150	107	52	44	41	46
12	43	42	59	205	86	73	145	176	49	41	43	44
13	40	41	68	138	94	72	350	276	49	40	40	55
14	43	40	225	120	100	70	180	129	47	40	38	71
15	40	39	82	115	90	70	150	111	46	41	38	47
16	41	38	68	120	87	140	145	97	186	43	34	40
17	40	37	73	133	84	181	135	91	138	38	38	38
18	40	36	62	113	83	101	130	89	70	37	77	38
19	43	43	56	109	100	91	140	80	59	40	37	35
20	41	37	350	109	150	86	130	77	54	37	34	35
21	40	38	1,500	189	86	267	125	75	93	34	31	38
22	40	37	200	166	113	164	120	71	105	35	31	57
23	41	35	138	124	111	115	170	131	368	35	246	35
24	41	38	115	109	89	109	130	107	151	62	62	34
25	40	37	99	103	110	99	110	93	99	54	77	34
26	41	38	276	99	105	97	105	75	84	46	46	34
27	38	62	286	107	98	93	103	73	73	43	41	31
28	38	62	145	103	100	87	100	71	86	41	37	60
29	164	31	120	97	------	97	98	70	124	41	35	140
30	161	26	113	91	------	308	95	71	78	91	34	47
31	59	------	109	84	------	935	------	68	------	43	34	------
TOTAL	1,626	1,277	5,244	3,859	2,557	4,364	4,801	3,368	2,676	1,571	1,701	1,673
MEAN	52.5	42.6	169	124	91.3	141	160	109	89.2	50.7	54.9	55.8
MAX	164	62	1,500	252	150	935	450	308	368	93	246	195
MIN	38	26	25	84	68	70	95	68	46	34	31	31
CFSM	.86	.70	2.77	2.03	1.49	2.31	2.62	1.78	1.46	.83	.90	.91
IN.	.99	.78	3.19	2.35	1.56	2.66	2.92	2.05	1.63	.96	1.04	1.02

CAL YR 1973 TOTAL 36,492.0 MEAN 100 MAX 1,500 MIN 7.3 CFSM 1.64 IN 22.22
WTR YR 1974 TOTAL 34,717.0 MEAN 95.1 MAX 1,500 MIN 25 CFSM 1.56 IN 21.14

PEAK DISCHARGE (BASE, 1,400 CFS).--Dec. 21 (time unknown) 3,160 cfs (9.32 ft).

01480000 Red Clay Creek at Wooddale, Delaware

LOCATION.--Lat 39°45'52", long 75°38'08", New Castle County, on right bank 12 ft (4 m) upstream from bridge on State Highway 48, 0.3 mi (0.5 km) south of Wooddale, 2.3 mi (3.7 km) north of Marshallton, and 4.9 mi (7.9 km) upstream from mouth.

DRAINAGE AREA.--47.0 mi^2 (121.7 km^2).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 81.46 ft (24.829 m) above mean sea level. Prior to Sept. 21, 1950, nonrecording gage at site 10 ft (3 m) downstream at same datum.

AVERAGE DISCHARGE.--31 years, 63.1 ft^3/s (1.787 m^3/s), 18.23 in/yr (463 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,870 ft^3/s (53.0 m^3/s) Dec. 21 (gage height, 5.82 ft or 1.774 m); minimum, 5.3 ft^3/s (0.150 m^3/s) Aug. 15, result of regulation; minimum daily, 23 ft^3/s (0.651 m^3/s) July 23. Period of record: Maximum discharge, 4,780 ft^3/s (135.4 m^3/s) Sept. 12, 1960 (gage height, 9.93 ft or 3.027 m); minimum, 2.9 ft^3/s (0.082 m^3/s) Sept. 4, 1966; minimum daily, 4.5 ft^3/s (0.127 m^3/s) Sept. 4, 1966.

REMARKS.--Records good. Some diurnal fluctuation at low flow caused by mills above station. Water-quality records for the current water year are published in Part 2 of the Maryland-Delaware Annual Report.

REVISIONS (WATER YEARS).--WSP 1141: 1948. WSP 1272: 1951(m). WSP 1432: 1944(M), 1945, 1946(M), 1948, 1949(M). WRD Md. and Del. 1969: 1960(M), 1964(M), 1966-67(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	40	30	91	57	77	96	54	58	49	28	30
2	55	34	29	65	61	63	89	51	58	41	63	32
3	65	31	28	66	68	62	76	90	56	38	108	44
4	39	29	31	142	58	58	101	61	48	35	122	84
5	35	31	174	77	53	56	116	54	45	184	105	37
6	32	32	112	67	53	54	98	59	44	89	43	35
7	31	29	44	63	66	54	73	62	40	49	44	184
8	31	30	38	59	66	53	83	53	44	41	40	61
9	32	31	164	63	58	63	317	57	42	38	38	44
10	33	29	76	71	54	68	112	91	40	36	35	40
11	32	28	48	201	55	54	86	59	38	34	32	38
12	31	29	41	132	55	53	82	224	36	32	30	37
13	31	29	44	79	61	50	196	183	36	30	30	66
14	30	29	145	67	69	48	119	80	35	30	32	70
15	28	29	55	68	58	47	93	69	34	30	26	43
16	29	29	47	73	53	81	80	61	68	32	27	36
17	28	27	52	80	57	104	74	58	50	28	41	35
18	28	27	42	66	53	59	71	58	37	28	58	33
19	29	27	39	65	60	57	71	55	35	28	31	31
20	29	27	53	65	83	54	69	51	33	26	29	31
21	28	28	1,050	183	59	176	67	50	94	25	27	32
22	28	29	130	110	90	99	66	50	66	27	27	53
23	29	28	84	80	77	71	93	137	206	23	44	31
24	29	29	68	71	58	64	69	74	79	46	31	29
25	28	29	61	69	64	58	63	68	55	35	143	30
26	28	28	210	64	60	58	60	51	53	30	147	30
27	28	30	183	80	58	56	59	51	45	29	76	28
28	27	53	85	69	64	55	58	51	89	28	41	52
29	113	66	72	67	------	59	58	51	88	27	35	174
30	78	34	67	62	------	233	56	52	51	79	32	42
31	40	------	66	60	------	232	------	49	------	32	31	------
TOTAL	1,136	951	3,368	2,575	1,728	2,376	2,751	2,214	1,703	1,279	1,596	1,512
MEAN	36.6	31.7	109	83.1	61.7	76.6	91.7	71.4	56.8	41.3	51.5	50.4
MAX	113	66	1,050	201	90	233	317	224	206	184	147	184
MIN	27	27	28	59	53	47	56	49	33	23	26	28
CFSM	.78	.67	2.32	1.77	1.31	1.63	1.95	1.52	1.21	.88	1.10	1.07
IN.	.90	.75	2.67	2.04	1.37	1.88	2.18	1.75	1.35	1.01	1.26	1.20

CAL YR 1973 TOTAL 34,093 MEAN 93.4 MAX 1,050 MIN 26 CFSM 1.99 IN 26.98
WTR YR 1974 TOTAL 23,189 MEAN 63.5 MAX 1,050 MIN 23 CFSM 1.35 IN 18.35

PEAK DISCHARGE (BASE, 1,200 CFS).--Dec. 21 (1130) 1,870 cfs (5.82 ft).

01480300 West Branch Brandywine Creek near Honey Brook, Pa.

LOCATION.--Lat 40°04'22", long 75°51'40", Chester County, at right upstream end of bridge on Legislative Route 15185, at Birdell, 0.4 mi (0.6 km) downstream from Two Log Run, and 3.0 mi (4.8 km) southeast of Honey Brook.

DRAINAGE AREA.--18.7 sq mi (48.4 sq km).

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 591.20 ft (180.198 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 23.0 ft^3/s (0.651 m^3/s), 16.70 in/yr (424 mm/yr).

EXTREMES.--Current year: Maximum discharge, 848 ft^3/s (24.0 m^3/s) Dec. 21 (gage height, 6.86 ft or 2.091 m), from peak-stage indicator; minimum, 5.4 ft^3/s (0.15 m^3/s) Aug. 28, 29; minimum gage height, 1.12 ft (0.341 m) Feb. 5.

Period of record: Maximum discharge, 8,140 ft^3/s (231 m^3/s) June 22, 1972 (gage height, 11.41 ft or 3.478 m), from rating curve extended above 1,900 ft^3/s (53.8 m^3/s) on basis of slope-area measurement of peak flow; minimum, 1.7 ft^3/s (0.048 m^3/s) Aug. 15, 16, 17, 18, 19, 1963 (gage height, 1.09 ft or 0.332 m).

REMARKS.--Records good except those for period of no gage-height record, which are fair.

REVISIONS (WATER YEARS).--WRD Penna 1973: 1972(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	10	7.3	35	22	32	47	19	25	18	9.0	7.4
2	8.0	8.4	6.9	27	22	24	42	18	24	15	12	9.4
3	8.8	8.0	6.9	29	22	26	33	27	21	14	22	14
4	7.6	7.6	7.3	54	20	23	127	22	17	13	14	20
5	7.3	8.0	75	34	19	21	87	19	15	13	23	8.6
6	6.9	8.0	37	27	18	20	46	20	14	14	11	8.2
7	6.9	7.6	14	26	21	20	32	20	14	12	10	26
8	7.3	7.6	11	25	21	20	35	19	15	12	10	11
9	7.3	8.0	86	24	21	27	159	21	15	11	10	9.4
10	8.4	7.6	36	25	24	36	47	38	13	11	9.8	8.6
11	7.6	7.6	16	62	19	22	33	23	12	11	9.0	8.2
12	7.3	8.0	15	58	19	21	30	92	12	10	8.6	7.8
13	7.3	8.4	14	29	23	19	217	127	12	9.8	8.6	8.6
14	7.6	8.0	44	25	24	19	64	28	14	9.8	8.6	9.0
15	7.3	8.0	20	26	20	19	52	23	14	9.8	8.2	7.4
16	7.3	8.0	15	30	18	36	33	21	20	9.4	8.2	7.0
17	6.9	7.6	16	40	19	43	30	20	15	9.0	38	7.0
18	6.9	7.6	13	29	18	23	28	20	12	9.0	17	7.4
19	7.3	8.0	12	26	26	22	27	18	11	13	9.0	6.6
20	7.3	7.6	22	31	35	21	27	17	12	9.8	7.8	6.6
21	7.3	7.6	430	76	23	94	25	17	107	9.0	6.6	7.4
22	7.3	8.0	280	73	33	39	24	17	34	9.0	6.6	9.0
23	7.6	7.6	32	43	27	26	33	30	39	8.6	6.6	7.0
24	7.3	8.4	26	35	20	24	26	21	26	15	6.2	6.2
25	7.3	10	23	31	22	21	24	17	69	11	6.2	6.6
26	7.3	10	210	29	20	21	23	16	25	10	6.2	6.6
27	7.3	10	200	41	20	20	22	16	24	10	6.6	6.2
28	6.9	16	45	30	24	20	21	17	34	9.4	5.8	68
29	34	14	32	33	------	21	21	17	36	9.8	5.8	64
30	22	8.4	30	26	------	101	20	17	20	16	8.6	13
31	10	------	28	24	------	203	------	17	------	10	9.4	------
TOTAL	272.9	259.6	1,810.4	1,103	620	1,084	1,435	814	721	351.4	328.4	392.2
MEAN	8.80	8.65	58.4	35.6	22.1	35.0	47.8	26.3	24.0	11.3	10.6	13.1
MAX	34	16	430	76	35	203	217	127	107	18	38	68
MIN	6.9	7.6	6.9	24	18	19	20	16	11	8.6	5.8	6.2
CFSM	.47	.46	3.12	1.90	1.18	1.87	2.56	1.41	1.28	.60	.57	.70
IN.	.54	.52	3.60	2.19	1.23	2.16	2.85	1.62	1.43	.70	.65	.78

CAL YR 1973 TOTAL 11,639.8 MEAN 31.9 MAX 430 MIN 6.9 CFSM 1.71 IN 23.16
WTR YR 1974 TOTAL 9,191.9 MEAN 25.2 MAX 430 MIN 5.8 CFSM 1.35 IN 18.29

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	Unk.	6.86*	848	4-13	1630	6.07	611
12-26	Unk.	6.82	836				

NOTE.--No gage-height record Dec. 16 to Jan. 21.
* From peak-stage indicator

01480500 West Branch Brandywine Creek at Coatesville, Pa.

LOCATION.--Lat 39°59'08", long 75°49'40", Chester County, on right bank at city limits of Coatesville, 1,200 ft (366 m) upstream from bridge on old Lincoln Highway, and 0.6 mi (1.0 km) downstream from Rock Run.

DRAINAGE AREA.--45.8 mi^2 (118.6 km^2).

PERIOD OF PERIOD.--October 1943 to December 1951, January 1970 to current year.

GAGE.--Water-stage recorder and V-notch sharp crested weir. Altitude of gage is 305 ft (93.0 m) from topographic map. Sept. 10, 1943 to Dec. 31, 1951, nonrecording gage at site 1,100 ft (335 m) downstream at different datum.

AVERAGE DISCHARGE.--12 years (1943-51, 1970-74), 72.1 ft^3/s (2.04 m^3/s), 21.38 in/yr (543 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 1,770 ft^3/s (50.1 m^3/s) Dec. 21 (gage height, 6.61 ft or 2.015 m); minimum, 11 ft^3/s (0.31 m^3/s) Nov. 14 (gage height, 3.47 ft or 1.058 m).
Period of record: Maximum discharge, 8,100 ft^3/s (229 m^3/s) June 29, 1973 (gage height, 10.08 ft or 3.072 m), from rating curve extended above 2,200 ft^3/s (62.3 m^3/s) on basis of slope-area measurement at gage height 9.92 ft (3.024 m); minimum observed, 4.6 ft^3/s (0.13 m^3/s) Sept. 10, 1944 (gage height, 0.70 ft or 0.213 m, site and datum then in use); minimum daily, 9.6 ft^3/s (0.27 m^3/s) Sept. 12, 1949.
Flood of Aug. 9, 1942 reached a stage of 12.3 ft (3.75 m), site and datum then in use (discharge, 8,600 ft^3/s or 244 m^3/s, by slope-area measurement).

REMARKS.--Records good. Diversion above station from Rock Run Reservoir (capacity, 320 mil gal or 1.211 hm^3), 2.6 mi (4.2 km) upstream, for municipal supply of city of Coatesville.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	32	19	89	59	75	140	57	69	52	20	20
2	21	24	18	69	60	57	108	54	60	46	29	22
3	26	21	18	70	61	57	98	75	60	41	79	77
4	22	18	18	134	55	53	195	67	46	36	35	76
5	21	19	153	82	47	49	172	57	42	36	41	34
6	19	20	124	68	48	45	136	57	40	39	27	24
7	18	17	45	66	53	44	90	57	39	36	22	78
8	19	17	37	62	55	44	89	54	42	38	21	46
9	19	18	179	59	50	54	348	56	42	36	21	33
10	29	18	114	62	49	75	145	113	39	35	20	27
11	23	17	51	151	51	52	103	67	36	32	18	24
12	21	18	42	142	49	49	95	258	34	23	17	23
13	21	18	41	73	53	45	333	278	33	22	17	25
14	20	16	98	62	61	43	254	92	35	21	17	28
15	20	17	52	63	53	43	142	70	41	22	16	23
16	20	18	44	72	47	62	107	61	41	21	15	19
17	19	16	45	97	47	105	95	57	45	20	121	19
18	19	16	42	73	45	55	89	59	35	19	82	19
19	18	17	40	64	51	50	84	54	31	35	30	19
20	18	17	57	72	86	48	84	52	31	23	22	18
21	17	17	1,080	192	56	156	78	50	96	18	19	20
22	17	17	169	191	65	128	78	50	122	18	18	25
23	18	17	81	104	69	68	101	81	91	18	20	19
24	18	17	66	86	47	61	81	62	87	29	20	17
25	17	19	56	76	52	54	72	49	161	29	22	16
26	17	19	523	70	48	54	67	45	80	22	19	16
27	17	19	510	94	48	51	64	44	65	22	18	16
28	16	33	114	75	54	52	62	45	82	21	18	67
29	72	43	83	77	------	56	61	46	115	21	17	134
30	77	24	76	66	------	216	59	48	63	41	24	39
31	33	------	70	63	------	410	------	45	------	26	25	------
TOTAL	734	599	4,065	2,724	1,519	2,411	3,630	2,260	1,803	898	890	1,023
MEAN	23.7	20.0	131	87.9	54.3	77.8	121	72.9	60.1	29.0	28.7	34.1
MAX	77	43	1,080	192	86	410	348	278	161	52	121	134
MIN	16	16	18	59	45	43	59	44	31	18	15	16
(/)	3.61	3.84	3.60	3.72	4.11	3.36	3.78	3.57	2.86	4.47	3.76	3.88
MEAN≠	27.3	23.8	135	91.6	58.4	81.2	125	76.5	63.0	33.5	32.5	38.0
CFSM≠	.60	.52	2.95	2.00	1.28	1.77	2.73	1.67	1.38	.73	.71	.83
IN.≠	.69	.58	3.40	2.31	1.33	2.04	3.05	1.92	1.54	.84	.82	.93

CAL YR 1973	TOTAL	30,138	MEAN	82.6	MAX	1,080	MIN	15	MEAN≠	86.2	CFSM≠	1.88	IN.≠ 25.60
WTR YR 1974	TOTAL	22,556	MEAN	61.8	MAX	1,080	MIN	15	MEAN≠	65.5	CFSM≠	1.43	IN.≠ 19.45

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1000	6.61	1,770	4-13	1430	5.58	767
12-26	2115	6.33	1,420	5-12	2015	6.02	1,120

/ Diversion for municipal supply and change in contents in Rock Run Reservoir, equivalent in cubic feet per second, furnished by city of Coatesville.
≠ Adjusted for diversion and change in reservoir contents.

01480617 West Branch Brandywine Creek at Modena, Pa.

LOCATION.--Lat 39°57'42", long 75°48'06", Chester County, on left bank at bridge on Legislative Route 15068 at Modena and 300 ft (91 m) upstream from Dennis Run.
DRAINAGE AREA.--55.0 mi^2 (142.4 km^2).
PERIOD OF RECORD.--January 1970 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 265 ft (80.8 m) from topographic map.
EXTREMES.--Current year: Maximum discharge, 2,280 ft^3/s (64.6 m^3/s) Dec. 21 (gage height, 6.95 ft or 2.118 m), from rating curve extended above 740 ft^3/s (21.0 m^3/s) as explained below; minimum, 0.66 ft^3/s (0.019 m^3/s) Sept. 10 (gage height, 2.07 ft or 0.631 m), regulation from unknown source.
Period of record: Maximum discharge, 9,600 ft^3/s (272 m^3/s) June 29, 1973 (gage height, 12.47 ft or 3.801 m), from rating curve extended above 920 ft^3/s (26.1 m^3/s) on basis of slope-area measurement at gage height, 11.48 ft (3.499 m); minimum, 0.66 ft^3/s (0.019 m^3/s) Sept. 10, 1974 (gage height, 2.07 ft or 0.631 m), regulation from unknown source.
REVISIONS.--The maximum discharge for the water year 1971 has been revised to 3,460 ft^3/s (98.0 m^3/s) Feb. 13, 1971 (gage height, 8.17 ft or 2.490 m) superseding figure published in WRD Penna. 1971.
REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Rock Run Reservoir (capacity, 320 mil gal or 1.211 hm^3) 5.6 mi (9.0 km) upstream.
REVISIONS.--Revised figures of discharge, in cubic feet per second, for September 1973, and supplemental peak discharges for water years 1971 and 1972, are given herewith. They supersede figures published in WRD Penna. 1971, 1972, 1973.

Sept. 1 -- 27	Sept. 7 -- 32	Sept. 13 -- 27	Sept. 19 -- 40	Sept. 25 -- 29
2 -- 32	8 -- 28	14 -- 88	20 -- 32	26 -- 29
3 -- 30	9 -- 27	15 --146	21 -- 29	27 -- 29
4 -- 32	10 -- 27	16 -- 41	22 -- 29	28 -- 27
5 -- 31	11 -- 28	17 -- 34	23 -- 37	29 -- 31
6 -- 30	12 -- 25	18 -- 36	24 -- 36	30 -- 32

Month	Cfs days	Maximum	Minimum	Mean	Adj. mean	Per square mile	Runoff in inches
September 1973	1,101	146	25	36.7	36.7	0.67	0.75
Wtr Yr 1973	43,505	1,970	23	119	119	2.16	29.39

REVISED PEAK DISCHARGE.--1971: Feb. 8 (0030) 2,250 cfs (6.91 ft); Feb. 13 (1345) 3,460 cfs (8.17 ft); Aug. 5 (0330) 916 cfs (5.19 ft); Aug. 28 (0615) 3,320 cfs (8.04 ft).
1972: Feb. 13 (1500) 1,630 cfs (6.25 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	51	31	106	77	101	197	68	88	53	29	24
2	36	43	27	88	77	79	149	65	80	47	48	28
3	32	40	29	90	81	77	130	95	72	41	93	100
4	30	38	29	178	72	72	267	79	58	43	40	96
5	30	39	262	103	63	65	233	67	50	48	44	41
6	28	40	149	84	59	61	182	68	48	44	33	34
7	27	36	54	81	70	61	115	68	47	39	31	103
8	27	37	44	77	74	59	120	63	50	38	30	53
9	27	38	267	70	65	79	491	67	50	36	30	39
10	36	37	149	79	61	101	193	149	47	35	29	32
11	30	38	63	182	72	68	133	84	44	33	27	31
12	28	37	48	186	65	65	120	397	41	32	27	31
13	28	37	53	93	65	58	477	388	40	31	27	32
14	27	32	120	77	79	56	314	120	44	30	27	37
15	27	35	63	81	72	54	178	90	49	31	26	30
16	28	28	51	90	65	88	136	78	50	31	26	27
17	27	30	56	120	61	133	117	72	56	28	250	27
18	27	30	48	90	63	70	109	74	38	30	186	28
19	28	30	46	81	65	65	106	70	39	41	40	27
20	27	29	98	88	110	59	103	64	38	32	29	27
21	27	29	1,470	279	80	233	95	62	120	28	23	32
22	28	28	267	258	86	167	95	60	150	28	23	31
23	26	31	112	130	88	86	117	100	100	28	26	27
24	27	29	84	110	64	77	95	74	94	39	31	26
25	28	29	67	100	70	67	88	60	180	37	28	25
26	27	31	730	93	64	67	81	56	80	32	23	26
27	27	33	677	123	64	63	77	54	63	30	23	26
28	27	51	160	101	70	63	74	54	93	30	22	72
29	117	48	109	103	------	77	77	55	123	30	21	171
30	109	31	101	86	------	336	72	58	63	58	30	47
31	51	------	90	81	------	558	------	54	------	33	30	------
TOTAL	1,073	1,065	5,554	3,508	2,002	3,265	4,741	2,913	2,095	1,116	1,352	1,330
MEAN	34.6	35.5	179	113	71.5	105	158	94.0	69.8	36.0	43.6	44.3
MAX	117	51	1,470	279	110	558	491	397	180	58	250	171
MIN	26	28	27	70	59	54	72	54	38	28	21	24
(/)	-.11	+.12	-.11	0	+.40	-.30	+.08	+.81	-1.76	+.72	-.01	+.14
MEAN≠	34.5	35.6	179	113	71.9	105	158	94.8	68.0	36.7	43.6	44.4
CFSM≠	.63	.65	3.25	2.05	1.31	1.91	2.87	1.72	1.24	.67	.79	.81
IN.≠	.73	.72	3.75	2.36	1.36	2.20	3.20	1.98	1.38	.77	.91	.90

CAL YR 1973 TOTAL 41,042 MEAN 112 MAX 1,970 MIN 26 MEAN≠ 112 CFSM≠ 2.04 IN.≠ 27.71
WTR YR 1974 TOTAL 30,014 MEAN 82.2 MAX 1,470 MIN 21 MEAN≠ 82.2 CFSM≠ 1.49 IN.≠ 20.26

NOTE.--No gage-height record May 15 to June 26.
/ Change in contents in Rock Run Reservoir, equivalent in cubic feet per second, furnished by city of Coatesville.
≠ Adjusted for change in reservoir contents.

01480675 Marsh Creek near Glenmoore, Pa.

LOCATION.--Lat 40°05'52", long 75°44'31", Chester County, on left bank 200 ft (60 m) north of Pennsylvania Turnpike, 1.2 mi (1.9 km) downstream from Lyons Run, 1.8 mi (2.9 km) upstream from Black Horse Creek, and 3 mi (5 km) northeast of Glenmoore.

DRAINAGE AREA.--8.57 mi^2 (22.20 km^2).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 450 ft (137 m), from topographic map.

AVERAGE DISCHARGE.--8 years, 12.3 ft^3/s (0.348 m^3/s), 19.49 in/yr (495 mm/yr).

EXTREMES.--Current year: Maximum discharge, 190 ft^3/s (5.38 m^3/s) Dec. 21 (gage height, 2.55 ft or 0.777 m); minimum, 1.7 ft^3/s (0.048 m^3/s) Oct. 16, 17; minimum gage height, 1.27 ft (0.387 m) Aug. 25, 26.
Period of record: Maximum discharge, 946 ft^3/s (26.8 m^3/s) June 22, 1972 (gage height, 4.68 ft or 1.426 m); minimum, 0.3 ft^3/s (0.008 m^3/s) Aug. 31, 1966 (gage height, 0.98 ft or 0.299 m).
REVISIONS.--Figures of maximum discharge for the water years 1967 and 1971 have been revised to 292 ft^3/s (8.27 m^3/s) Mar. 7, 1967 (gage height, 2.89 ft or 0.881 m) and 586 ft^3/s (16.6 m^3/s) Feb. 13, 1971 (gage height, 3.73 ft or 1.137 m), superseding figures published in WSP 2102, WRD Penna. 1967 and 1971.

REMARKS.--Records good.

REVISIONS.--The figures of peak discharge for water years 1971, 1972 have been revised as shown in the following table. They supersede figures published in WSP 2102, WRD Penna. 1971, 1972.
REVISED PEAK DISCHARGE.--1971: Feb. 13 (2115) 586 ft^3/s (3.73 ft); Aug. 28 (0545) 351 ft^3/s (3.06 ft).
1972: Feb. 14 (0100) 157 ft^3/s (2.44 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	7.7	3.5	19	11	18	36	11	13	7.7	3.3	3.4
2	3.9	5.1	2.8	15	11	14	22	9.9	14	5.7	4.8	3.5
3	4.6	4.2	2.8	13	11	13	20	17	14	4.5	10	7.7
4	4.0	3.5	3.1	23	9.9	11	32	16	9.5	4.0	8.0	11
5	3.3	3.5	23	18	8.0	11	42	11	7.1	4.2	5.3	7.4
6	2.6	3.8	46	13	7.7	9.5	27	11	5.9	4.5	3.9	3.9
7	2.5	3.4	13	13	9.9	9.5	19	13	5.5	3.9	3.2	9.5
8	2.5	3.2	6.6	12	11	9.1	19	11	6.4	3.6	2.8	9.5
9	2.4	3.3	24	11	9.9	13	70	11	6.4	3.3	2.8	5.3
10	2.5	3.2	34	12	9.5	19	40	23	5.9	3.5	2.6	3.9
11	2.5	2.8	12	24	9.5	12	21	18	4.8	3.8	2.5	3.1
12	2.3	3.1	7.1	32	9.5	9.9	19	30	4.5	3.8	2.5	2.8
13	2.2	3.3	6.6	22	11	8.7	50	83	4.3	3.6	2.3	2.8
14	2.1	3.4	19	13	13	7.7	65	23	4.2	3.6	2.2	3.3
15	1.9	3.3	13	12	11	8.0	28	13	4.3	3.8	2.1	3.0
16	1.8	3.4	8.0	13	9.1	13	22	11	4.8	3.8	2.2	2.6
17	1.8	3.1	5.7	19	9.5	23	19	10	5.5	3.6	4.0	2.4
18	1.9	2.8	6.4	15	8.7	12	18	9.9	4.5	3.6	4.0	2.3
19	2.0	3.2	5.9	13	12	9.9	17	9.1	4.0	3.8	3.3	2.2
20	2.0	3.0	10	14	25	9.1	17	8.4	3.9	3.5	2.5	2.3
21	2.0	3.0	136	25	15	24	16	8.0	12	3.1	2.2	2.4
22	2.0	3.3	65	46	15	38	15	8.4	15	3.2	2.1	3.0
23	2.0	3.2	20	24	20	15	21	19	15	3.2	2.3	2.6
24	2.0	3.3	12	19	12	12	18	15	16	4.6	2.2	2.5
25	2.0	3.8	9.9	16	10	10	14	9.9	25	4.3	2.0	3.4
26	2.1	3.8	48	14	9.5	9.5	13	8.0	20	3.9	2.1	3.6
27	2.1	3.4	118	20	10	9.9	12	7.7	10	3.8	2.4	3.6
28	2.0	6.9	32	18	12	9.5	12	7.7	12	3.6	2.5	9.9
29	10	8.0	18	17	------	10	12	7.7	20	3.5	2.8	26
30	27	4.6	15	14	------	34	11	8.0	12	4.5	3.6	14
31	13	------	15	12	------	85	------	7.7	------	3.9	3.6	------
TOTAL	119.0	115.6	741.4	551	320.7	497.3	747	456.4	289.5	123.4	102.1	162.9
MEAN	3.84	3.85	23.9	17.8	11.5	16.0	24.9	14.7	9.65	3.98	3.29	5.43
MAX	27	8.0	136	46	25	85	70	83	25	7.7	10	26
MIN	1.8	2.8	2.8	11	7.7	7.7	11	7.7	3.9	3.1	2.0	2.2
CFSM	.45	.45	2.79	2.08	1.34	1.87	2.91	1.72	1.13	.46	.38	.63
IN.	.52	.50	3.22	2.39	1.39	2.16	3.24	1.98	1.26	.54	.44	.71

CAL YR 1973 TOTAL 5,817.6 MEAN 15.9 MAX 274 MIN 1.8 CFSM 1.86 IN 25.25
WTR YR 1974 TOTAL 4,226.3 MEAN 11.6 MAX 136 MIN 1.8 CFSM 1.35 IN 18.35

PEAK DISCHARGE (BASE, 130 CFS).--Dec. 21 (1430) 190 cfs (2.55 ft); Dec. 27 (0445) 157 cfs (2.44 ft).

01480685 Marsh Creek near Downingtown, Pa.

LOCATION.--Lat 40°03'19", long 75°43'00", Chester County, on left bank 1,000 ft (305 m) downstream from Marsh Creek Dam, 0.2 mi (0.3 km) upstream from mouth and 3.0 mi (4.8 km) north of Downingtown.

DRAINAGE AREA.--20.3 mi^2 (52.6 km^2).

PERIOD OF RECORD.--June 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 280 ft (85 m) from topographic map.

EXTREMES.--June to September 1973: Maximum discharge during period, 258 ft^3/s (7.31 m^3/s) June 30 (gage height, 3.11 ft or 0.948 m), from rating curve extended above 140 ft^3/s (4.0 m^3/s); minimum, 8.0 ft^3/s (0.23 m^3/s) Sept. 12, 13, 14 (gage height, 1.48 ft or 0.451 m).
Water year 1974: Maximum discharge, 120 ft^3/s (3.40 m^3/s) Oct. 29 (gage height, 2.66 ft or 0.811 m); minimum, 0.25 ft^3/s (0.007 m^3/s) Dec. 22; minimum gage height, 0.97 ft (0.296 m) Nov. 16, 17, May 4.

REMARKS.--Records good. Flow completely regulated since November 1973 by Marsh Creek Reservoir 1,000 ft (305 m) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									36	236	17	9.7
2									33	197	95	9.7
3									36	127	56	9.7
4									36	74	25	10
5									33	89	20	9.4
6									29	67	17	9.7
7									30	38	16	9.7
8									28	30	15	9.1
9									27	28	15	8.8
10									24	26	15	8.8
11									22	42	15	9.1
12									22	31	16	8.5
13									31	26	15	8.0
14									26	24	14	27
15									22	33	16	63
16									23	34	17	31
17									29	27	15	16
18									25	24	14	20
19									25	22	14	17
20									26	20	14	14
21									24	26	15	12
22									27	30	14	11
23									27	25	13	13
24									47	21	13	13
25									84	20	12	12
26									91	19	12	11
27									29	19	12	10
28									30	17	11	10
29					------				161	17	11	11
30					------				254	17	10	14
31		------			------		------		------	15	10	------
TOTAL									1,337	1,421	574	425.2
MEAN									44.6	45.8	18.5	14.2
MAX									254	236	95	63
MIN									22	15	10	8.0
CFSM									2.20	2.26	.91	.70
IN.									2.45	2.60	1.05	.78

01480685 Marsh Creek near Downingtown, Pa.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	18	2.4	2.6	57	.79	1.2	.62	.88	30	10	7.8
2	14	14	2.4	22	56	.62	.98	.70	.79	28	12	8.0
3	16	12	2.3	59	56	.62	.88	.79	.70	25	17	13
4	13	11	2.4	59	55	.55	1.3	.49	.70	22	17	23
5	12	11	2.8	59	45	.62	1.1	.44	.70	20	17	20
6	10	11	2.3	59	20	.62	.79	.49	.70	20	15	18
7	9.7	10	5.1	59	6.5	.70	.70	.62	5.1	18	14	23
8	9.4	9.7	15	59	2.4	.70	.88	.62	6.5	17	13	23
9	9.7	10	7.0	59	1.1	.88	2.2	.79	6.5	15	12	21
10	12	9.7	2.8	59	.98	.79	.98	.98	6.5	14	11	19
11	10	9.4	2.7	59	.79	.70	.79	.55	6.5	13	9.4	17
12	9.7	9.4	2.7	59	.79	.70	.70	2.1	3.7	11	8.5	16
13	9.4	9.7	2.8	59	.88	.70	1.8	.79	3.7	9.7	8.0	15
14	9.1	10	1.8	59	.79	.70	.88	.55	6.8	9.7	7.8	15
15	9.4	8.8	2.0	58	.70	.70	.79	.62	8.0	9.4	7.3	14
16	10	3.9	2.6	58	.62	1.1	.70	.62	8.0	8.8	6.5	12
17	9.4	2.3	2.7	58	.70	.88	.70	.70	6.0	7.8	8.8	11
18	8.3	3.1	2.6	58	.70	.70	.62	.79	3.2	7.5	13	10
19	8.5	2.7	2.7	58	.88	.70	.62	.70	3.6	8.5	12	9.4
20	8.5	2.4	3.6	58	.79	.70	.62	.62	4.0	7.8	11	9.1
21	8.5	2.4	4.4	59	.70	1.5	.55	.70	4.5	7.0	9.7	9.1
22	8.5	2.4	.31	58	.79	.79	.55	.70	7.5	6.5	9.1	9.4
23	8.5	2.4	.31	58	.70	.70	.70	.98	13	6.2	8.8	8.3
24	8.5	2.4	1.3	58	.62	.70	.55	.70	17	8.2	8.3	7.3
25	8.5	2.6	2.4	58	.70	.70	.62	.62	25	9.4	7.5	6.8
26	8.5	2.4	4.2	58	.70	.70	.62	.62	29	9.1	7.0	6.5
27	8.5	2.4	.62	58	2.4	.70	.62	.62	29	9.1	6.8	6.0
28	8.5	2.6	1.2	58	2.2	.70	.62	.70	29	8.8	6.5	11
29	34	3.0	2.7	58	------	.88	.62	.70	34	8.5	6.3	22
30	67	2.4	2.6	58	------	2.2	.62	.70	33	12	7.8	23
31	27	------	2.6	58	------	1.8	------	.70	------	12	8.0	------
TOTAL	406.1	203.1	93.34	1,719.6	316.43	25.84	25.30	22.32	303.57	399.0	316.1	413.7
MEAN	13.1	6.77	3.01	55.5	11.3	.83	.84	.72	10.1	12.9	10.2	13.8
MAX	67	18	15	59	57	2.2	2.2	2.1	34	30	17	23
MIN	8.3	2.3	.31	2.6	.62	.55	.55	.44	.70	6.2	6.3	6.0
(/)	0	+8.2	+64.3	-8.3	+18.2	+42.0	+64.3	+36.9	+16.0	-3.1	+.2	-2.5
MEAN≠	13.1	15.0	67.3	47.2	29.5	42.8	65.1	37.6	26.1	9.8	10.4	11.3
CFSM≠	.65	.74	3.32	2.33	1.45	2.11	3.21	1.85	1.29	.48	.51	.56
IN.≠	.75	.83	3.83	2.69	1.51	2.43	3.58	2.13	1.44	.55	.59	.62

CAL YR 1973	TOTAL	-	MEAN	-	MAX	-	MIN	-	MEAN≠	-	CFSM≠	-	IN.≠	-
WTR YR 1974	TOTAL	4,244.40	MEAN	11.6	MAX	67	MIN	.31	MEAN≠	31.5	CFSM≠	1.55	IN.≠	20.95

/ Change in contents in Marsh Creek Reservoir, equivalent in cubic feet per second, furnished by Pennsylvania Department of Environmental Resources.
≠ Adjusted for change in reservoir contents.

01480700 East Branch Brandywine Creek near Downingtown, Pa.

LOCATION.--Lat 40°02'05", long 75°42'32", Chester County, on right bank 20 ft (6 m) downstream from bridge on Dowlin Forge Road, 200 ft (60 m) east of State Highway 282, 0.4 mi (0.6 km) downstream from Shamona Creek, 1.5 mi (2.4 km) downstream from Marsh Creek, 2.0 mi (3.2 km) upstream from Beaver Creek, and 2.2 mi (3.5 km) north of Downingtown.

DRAINAGE AREA.--60.6 mi^2 (157.0 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1948-57, October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft or 82 m (from topographic map). Prior to July 30, 1966, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--9 years, 87.5 ft^3/s (2.478 m^3/s), 19.61 in/yr (498 mm/yr), adjusted for storage since November 1973.

EXTREMES.--Current year: Maximum discharge, 2,090 ft^3/s (59.2 m^3/s) Dec. 21 (gage height, 6.16 ft or 1.878 m); minimum, 10 ft^3/s (0.28 m^3/s) Apr. 6 (gage height, 2.00 ft or 0.610 m), result of upstream shutoff.
Period of record: Maximum discharge, 8,070 ft^3/s (229 m^3/s) June 22, 1972 (gage height, 12.06 ft or 3.676 m, from floodmark), from rating curve extended above 5,000 ft^3/s (140 m^3/s); minimum, 7.2 ft^3/s (0.20 m^3/s) Sept. 2, 3, 11, 12, 13, 1966 (gage height, 1.80 ft or 0.549 m).

REMARKS.--Records good except those for periods of doubtful or no gage-height record, which are fair. Flow regulated by Marsh Creek Reservoir 1.9 mi (3.1 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	41	26	95	117	72	131	56	63	63	41	27
2	39	36	25	95	117	58	112	51	57	52	58	33
3	47	33	24	131	117	56	99	78	60	50	99	94
4	38	30	25	177	110	54	183	63	45	50	50	110
5	35	33	167	136	95	50	151	57	41	56	51	45
6	31	32	110	128	69	48	119	57	38	60	42	40
7	28	31	50	126	63	47	90	58	38	54	40	92
8	28	31	50	121	58	48	90	53	38	48	38	54
9	29	30	180	119	51	65	334	55	33	45	38	44
10	32	27	103	123	51	84	133	110	35	42	38	39
11	30	25	55	215	50	57	101	67	40	39	33	38
12	29	24	42	180	50	51	90	225	40	37	32	36
13	29	25	41	133	51	47	305	218	47	34	31	34
14	27	24	105	123	58	45	161	88	37	34	30	45
15	25	23	51	123	50	44	123	71	31	34	25	33
16	27	22	44	131	45	71	101	62	31	33	23	29
17	26	21	47	146	47	101	90	57	32	31	86	27
18	25	23	42	128	44	58	84	57	138	30	60	25
19	25	23	35	126	51	51	80	51	62	38	34	24
20	25	23	76	128	76	48	78	48	114	32	30	24
21	25	23	1,100	257	58	156	75	45	133	30	27	25
22	25	23	164	195	62	107	73	45	123	29	28	29
23	25	23	99	156	66	69	88	82	117	28	29	24
24	25	23	80	143	52	62	75	63	86	45	32	23
25	24	25	67	136	54	55	67	50	141	45	48	22
26	25	25	570	131	50	51	65	45	101	42	27	22
27	25	24	312	151	48	50	62	44	82	41	25	21
28	26	37	128	133	54	48	62	44	78	40	23	86
29	100	41	99	136	------	53	58	42	75	38	22	117
30	140	29	86	126	------	225	58	44	69	63	36	50
31	52	------	80	121	------	361	------	41	------	44	31	------
TOTAL	1,101	830	4,083	4,369	1,814	2,392	3,338	2,127	2,025	1,307	1,207	1,312
MEAN	35.5	27.7	132	141	64.8	77.2	111	68.6	67.5	42.2	38.9	43.7
MAX	140	41	1,100	257	117	361	334	225	141	63	99	117
MIN	24	21	24	95	44	44	58	41	31	28	22	21
(✓)	0	+8.2	+64.3	-8.3	+18.2	+42.0	+64.3	+36.9	+16.0	-3.1	+.2	-2.5
MEAN≠	35.5	35.9	196	133	83.0	119	175	106	83.5	39.1	39.1	41.2
CFSM≠	.59	.59	3.23	2.19	1.37	1.96	2.89	1.75	1.38	.65	.65	.68
IN.≠	.68	.66	3.72	2.52	1.43	2.26	3.22	2.02	1.54	.75	.75	.76

CAL YR 1973 TOTAL 42,819 MEAN 117 MAX 1,620 MIN 21 MEAN≠ 123 CFSM≠ 2.03 IN.≠ 27.65
WTR YR 1974 TOTAL 25,905 MEAN 71.0 MAX 1,100 MIN 21 MEAN≠ 90.9 CFSM≠ 1.50 IN.≠ 20.31

NOTE.--No gage-height record Oct. 1 to Nov. 19; doubtful gage-height record Aug. 20 to Sept. 19.
✓ Change in contents in Marsh Creek Reservoir, equivalent in cubic feet per second, furnished by Pennsylvania Department of Environmental Resources.
≠ Adjusted for change in reservoir contents.

01480870 East Branch Brandywine Creek below Downingtown, Pa.

LOCATION.--Lat 39°58'07", long 75°40'25", Chester County, on left bank at downstream side of Sugars Bridge (State Highway 322), 2,000 ft (610 m) upstream from Valley Creek, 1.5 mi (2.4 km) north of Marshallton, and 3.3 mi (5.3 km) southeast of Downingtown.

DRAINAGE AREA.--89.9 mi^2 (232.8 km^2).

PERIOD OF RECORD.--February 1972 to current year.

GAGE.--Water-stage recorder Apr. 11, 1972 to June 22, 1972, Nov. 18, 1972 to present. Altitude of gage is 195 ft or 59.4 m (from topographic map). Nonrecording gage Feb. 1 to Apr. 10, June 25 to Nov. 17, 1972.

EXTREMES.--Current year: Maximum discharge, 4,090 ft^3/s (116 m^3/s) Dec. 21 (gage height, 9.22 ft or 2.810 m), from rating curve extended as explained below; minimum, 30 ft^3/s (0.85 m^3/s) Nov. 17, 23; minimum gage height, 2.15 ft (0.655 m) Nov. 17.
Period of record: Maximum discharge, 8,160 ft^3/s (231 m^3/s) June 22, 1972 (gage height, 12.4 ft or 3.78 m, from floodmark), from rating curve extended above 580 ft^3/s (16 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 29 ft^3/s (0.82 m^3/s) Oct. 5, 1972; minimum gage height, 2.15 ft (0.655 m) Nov. 17, 1973.

REMARKS.--Records good. Flow regulated since November 1973 by Marsh Creek Reservoir about 7.5 mi (12.1 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	67	39	153	161	137	243	109	112	107	54	43
2	58	56	37	132	164	110	205	102	102	100	78	52
3	72	51	36	178	163	109	183	143	103	93	159	163
4	57	48	37	264	155	101	304	119	84	88	84	205
5	49	50	240	189	139	96	264	106	77	91	85	77
6	45	51	149	173	115	91	216	107	73	92	66	66
7	43	48	73	168	112	90	165	108	73	82	62	175
8	44	47	68	163	107	89	166	100	81	67	59	93
9	44	47	266	157	98	110	595	103	79	63	59	76
10	49	41	145	167	94	134	248	191	74	60	59	68
11	46	41	86	323	97	101	191	121	70	56	51	66
12	45	41	71	276	93	94	175	396	65	52	48	61
13	44	42	68	187	99	88	548	435	61	50	46	59
14	42	43	137	165	107	84	302	154	65	49	45	73
15	38	43	82	169	96	83	228	131	70	48	39	57
16	40	39	72	175	89	111	191	117	72	47	34	50
17	40	32	73	197	92	164	173	111	75	43	196	47
18	39	34	64	175	89	102	164	112	61	42	120	45
19	39	35	62	167	98	94	158	102	57	65	58	43
20	39	35	78	173	144	90	151	97	58	47	50	42
21	38	35	2,210	396	105	271	143	93	154	42	44	47
22	38	36	269	302	117	187	141	91	137	40	44	54
23	38	35	155	226	124	123	167	143	163	39	47	41
24	38	36	126	202	95	115	142	116	131	60	53	37
25	38	37	109	190	101	103	131	95	215	64	78	36
26	38	37	972	181	96	100	126	88	136	56	43	35
27	39	36	637	211	91	97	120	87	138	55	42	34
28	39	59	208	186	100	95	118	87	143	53	39	166
29	153	63	162	185	------	107	117	85	185	52	37	238
30	172	44	143	172	------	370	112	87	116	109	60	89
31	78	------	132	167	------	688	------	82	------	62	52	------
TOTAL	1,633	1,309	7,006	6,169	3,141	4,334	6,187	4,018	3,030	1,974	1,991	2,338
MEAN	52.7	43.6	226	199	112	140	206	130	101	63.7	64.2	77.9
MAX	172	67	2,210	396	164	688	595	435	215	109	196	238
MIN	38	32	36	132	89	83	112	82	57	39	34	34
(ƒ)	0	+8.2	+64.3	-8.3	+18.2	+42.0	+64.3	+36.9	+16.0	-3.1	+.2	-2.5
MEAN≠	52.7	51.8	290	191	130	182	270	167	117	60.6	64.4	75.4
CFSM≠	.59	.58	3.23	2.12	1.45	2.02	3.00	1.86	1.30	.67	.72	.84
IN.≠	.68	.65	3.72	2.44	1.51	2.33	3.35	2.14	1.45	.77	.83	.94

CAL YR 1973	TOTAL 66,656	MEAN 183	MAX 2,550	MIN 32	MEAN≠ 189	CFSM≠ 2.10	IN.≠ 28.52
WTR YR 1974	TOTAL 43,130	MEAN 118	MAX 2,210	MIN 32	MEAN≠ 138	CFSM≠ 1.54	IN.≠ 20.81

ƒ Change in contents in Marsh Creek Reservoir, equivalent in cubic feet per second, furnished by Pennsylvania Department of Environmental Resources.
≠ Adjusted for change in reservoir contents.

01481000 Brandywine Creek at Chadds Ford, Pa.

LOCATION.--Lat 39°52'11", long 75°35'37", Delaware County, on left bank 27 ft (8 m) upstream from Penn Central Railroad bridge at Chadds Ford, 150 ft (46 m) upstream from Harvey Run and 1,200 ft (370 m) downstream from highway bridge on U.S. Highway 1.

DRAINAGE AREA.--287 mi^2 (743 km^2), including that of Harvey Run.

PERIOD OF RECORD.--August 1911 to December 1953, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 150.45 ft (45.857 m) above mean sea level. Prior to May 21, 1927, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--54 years, (1911-53, 1962-74), 386 ft^3/s (10.9 m^3/s), 18.26 in/yr (464 mm/yr), adjusted for storage since November 1973.

EXTREMES.--Current year: Maximum discharge, 6,790 ft^3/s (192 m^3/s) Dec. 21 (gage height, 9.99 ft or 3.045 m); minimum, 122 ft^3/s (3.46 m^3/s) Sept. 28 (gage height, 1.39 ft or 0.424 m).
Period of record: Maximum discharge, 23,800 ft^3/s (674 m^3/s) June 22, 1972 (gage height, 16.56 ft or 5.047 m) from rating curve extended above 7,000 ft^3/s (200 m^3/s) on basis of area-velocity study; minimum, 4.9 ft^3/s (0.14 m^3/s) Oct. 2, 1941 (gage height, 0.28 ft or 0.085 m); minimum daily, 42 ft^3/s (1.19 m^3/s) Sept. 12, 1966.

REMARKS.--Records good. Flow regulated by Marsh Creek Reservoir about 17 mi (27 km) upstream. Records of water quality for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1202: 1919-20, 1932-33, 1936, 1938(P), 1942, (maximum only, 1917-18, 1922-31, 1934, 1939, 1944-46). WRD Pa. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	226	157	550	465	440	870	415	395	347	189	164
2	206	194	150	465	465	400	695	390	371	309	202	177
3	252	179	147	495	485	390	635	510	376	291	505	228
4	194	168	147	775	450	371	790	460	319	273	309	725
5	176	172	625	570	415	356	870	405	291	352	314	255
6	161	172	725	500	390	337	780	405	273	337	232	206
7	157	168	283	475	410	333	580	410	268	273	210	545
8	157	161	230	465	415	328	565	385	286	246	202	328
9	157	164	695	450	380	371	1,730	385	291	232	198	246
10	172	157	640	480	361	435	885	590	277	224	210	219
11	172	154	311	860	385	366	675	480	259	210	181	198
12	157	157	252	895	361	337	625	750	241	206	172	202
13	157	154	234	560	380	328	1,330	1,770	241	198	164	202
14	154	157	475	480	405	314	1,220	570	241	198	164	241
15	150	150	311	490	376	309	780	475	259	202	152	202
16	150	150	256	500	347	366	670	430	356	202	145	177
17	143	140	269	560	356	575	610	405	314	181	237	164
18	143	140	234	515	347	380	580	405	246	181	615	160
19	143	143	222	475	361	352	565	376	228	219	210	152
20	147	143	260	500	480	337	555	361	224	193	177	152
21	147	147	5,260	1,000	395	705	525	342	356	172	164	160
22	143	147	1,470	1,060	425	760	510	337	640	164	160	202
23	143	147	605	660	460	450	595	490	905	164	181	160
24	143	143	490	590	366	415	530	455	540	202	181	141
25	140	150	420	550	376	380	480	371	570	228	380	141
26	143	150	1,500	525	366	371	460	337	440	198	189	141
27	140	150	2,830	605	347	361	450	328	385	189	177	137
28	140	206	770	550	366	352	440	328	425	185	156	356
29	575	252	585	530	------	366	440	319	615	181	156	910
30	695	179	525	500	------	930	430	333	380	366	181	300
31	260	------	485	480	------	2,160	------	314	------	219	185	------
TOTAL	6,000	4,920	21,563	18,110	11,135	14,675	20,870	14,331	11,012	7,142	6,898	7,591
MEAN	194	164	696	584	398	473	696	462	367	230	223	253
MAX	695	252	5,260	1,060	485	2,160	1,730	1,770	905	366	615	910
MIN	140	140	147	450	347	309	430	314	224	164	145	137
(/)	0	+8.2	+64.3	-8.3	+18.2	+42.0	+64.3	+36.9	+16.0	-3.1	+.2	-2.5
MEAN≠	194	172	760	576	416	515	760	499	383	227	223	250
CFSM≠	.68	.60	2.65	2.01	1.45	1.79	2.65	1.74	1.33	.79	.78	.87
IN.≠	.78	.67	3.06	2.32	1.51	2.06	2.96	2.01	1.48	.91	.90	.97

CAL YR 1973 TOTAL 202,067 MEAN 554 MAX 5,260 MIN 140 MEAN≠ 560 CFSM≠ 1.95 IN.≠ 26.49
WTR YR 1974 TOTAL 144,247 MEAN 395 MAX 5,260 MIN 137 MEAN≠ 415 CFSM≠ 1.45 IN.≠ 19.63

/ Change in contents in Marsh Creek Reservoir, equivalent in cubic feet per second, furnished by Pennsylvania Department of Environmental Resources.
≠ Adjusted for change in reservoir contents.

01481500 Brandywine Creek at Wilmington, Delaware

LOCATION.--Lat 39°46'09", long 75°34'25", New Castle County, on right bank in Rockford Park, 0.2 mi (0.3 km) downstream from Henry Clay Bridge, in Wilmington, and 4.2 mi (6.8 km) upstream from mouth.

DRAINAGE AREA.--314 mi^2 (813 km^2).

PERIOD OF RECORD.--October 1946 to current year. Prior to December 1946, monthly discharge only, published in WSP 1302.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 68.23 ft (20.797 m) above mean sea level.

AVERAGE DISCHARGE.--28 years, 461 ft^3/s (13.06 m^3/s), 19.94 in/yr (506 mm/yr), adjusted for storage since November 1973.

EXTREMES.--Current year: Maximum discharge, 5,890 ft^3/s (167 m^3/s) Dec. 21 (gage height, 8.26 ft or 2.518 m); minimum, 112 ft^3/s (3.17 m^3/s) November 27; minimum daily, 146 ft^3/s (4.13 m^3/s) Nov. 17.
Period of record: Maximum discharge, 29,000 ft^3/s (821 m^3/s) June 23, 1972 (gage height, 15.49 ft or 4.721 m), from rating curve extended above 18,000 ft^3/s (510 m^3/s); minimum, about 30 ft^3/s (0.85 m^3/s) Dec. 26, 1948, during period of ice effect; minimum daily, 56 ft^3/s (1.59 m^3/s) Aug. 23, 24, 1957.

REMARKS.--Records good. Some diurnal fluctuation at low flow caused by mills above station. Flow regulated since November 1973 by Marsh Creek Reservoir about 27 mi (43 km) upstream. No diversion just above station by plant of E. I. du Pont de Nemours & Co. since June 13, 1960. Records of water quality for the current year are published in Part 2 of the Maryland-Delaware Annual Report.

REVISIONS (WATER YEARS).--WSP 1432: 1948, 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	245	167	608	521	477	1,080	476	430	387	199	177
2	209	217	161	515	522	450	861	447	425	346	194	182
3	292	196	154	517	556	429	813	570	432	318	508	265
4	199	182	154	840	507	420	897	539	364	298	309	733
5	176	184	656	631	477	404	1,070	470	327	352	386	295
6	172	188	1,040	535	455	381	967	469	311	404	251	225
7	171	177	376	510	476	383	767	481	297	303	233	595
8	171	167	281	489	487	378	745	441	313	265	217	393
9	173	170	756	479	446	415	2,150	443	320	247	210	275
10	184	164	846	516	431	477	1,060	630	306	237	220	237
11	180	161	406	956	454	416	876	569	281	222	192	221
12	177	161	310	1,100	430	382	818	856	258	217	180	230
13	178	160	294	616	447	369	1,320	2,120	263	206	173	245
14	177	161	644	509	476	355	1,530	647	254	204	172	291
15	171	155	419	527	445	350	808	531	272	202	164	229
16	170	155	324	531	418	466	725	485	419	215	155	193
17	171	146	337	594	426	668	668	451	376	187	168	176
18	171	148	290	550	420	435	639	452	275	186	648	176
19	169	153	265	495	420	395	623	423	249	213	237	170
20	171	153	400	521	542	380	614	405	245	202	189	167
21	164	154	4,890	976	458	806	585	386	349	179	173	173
22	163	158	2,090	1,450	474	1,070	572	380	661	175	166	225
23	163	157	705	755	520	545	654	577	947	173	414	179
24	165	157	571	670	408	495	602	550	604	227	184	158
25	161	161	489	623	411	455	547	430	540	252	433	158
26	167	163	1,230	586	406	437	521	387	494	209	257	158
27	166	153	3,260	668	390	505	511	375	421	202	218	155
28	167	213	879	626	412	411	505	375	437	197	177	327
29	648	319	652	597	------	417	501	366	641	190	170	1,020
30	898	204	584	559	------	1,060	491	383	433	400	188	363
31	302	------	531	532	------	2,730	------	364	------	246	197	------
TOTAL	6,845	5,282	24,161	20,081	12,835	17,361	24,520	16,478	11,944	7,661	7,582	8,391
MEAN	221	176	779	648	458	560	817	532	398	247	245	280
MAX	898	319	4,890	1,450	556	2,730	2,150	2,120	947	404	648	1,020
MIN	161	146	154	479	390	350	491	364	245	173	155	155
(/)	0	+8.2	+64.3	-8.3	+18.2	+42.0	+64.3	+36.9	+16.0	-3.1	+0.2	+0.8
MEAN≠	221	184	843	640	476	602	881	569	414	244	245	281
CFSM ≠	.70	.59	2.68	2.04	1.52	1.92	2.81	1.81	1.32	.78	.78	.89
IN.≠	.81	.65	3.10	2.35	1.58	2.21	3.13	2.09	1.47	.90	.90	1.00

CAL YR 1973 TOTAL 235,605 MEAN 645 MAX 4,890 MIN 146 MEAN≠ 651 CFSM≠ 2.07 IN.≠ 28.17
WTR YR 1974 TOTAL 163,141 MEAN 447 MAX 4,890 MIN 146 MEAN≠ 467 CFSM≠ 1.49 IN.≠ 20.18

/ Change in contents in Marsh Creek Reservoir, equivalent in cubic feet per second, furnished by Pennsylvania Department of Environmental Resources.
≠ Adjusted for change in reservoir contents.

Lakes and reservoirs in Delaware River basin

01428900 PROMPTON RESERVOIR.--Lat 41°35'18", long 75°19'39", Wayne County, at dam on West Branch Lackawaxen River, 0.3 mi (0.5 km) north of Prompton, 0.4 mi (0.6 km) upstream from highway bridge and 0.5 mi (0.8 km) upstream from Van Auken Creek. Drainage area, 59.6 mi^2 (154 km^2). Period of record, December 1960 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 5,480 acre-ft (6.76 hm^3) Apr. 5 (elevation, 1,131.60 ft or 344.912 m); minimum, 3,530 acre-ft (4.35 hm^3) June 14 (elevation, 1,125.40 ft or 343.022 m). Extremes for period of record: Maximum contents, 8,170 acre-ft (10.1 hm^3) June 29, 1973 (elevation, 1,138.40 ft or 347.070 m); minimum (after first filling), 2,920 acre-ft (3.60 hm^3) Sept. 27, 1964 (elevation, 1,123.20 ft or 342.351 m).

Reservoir formed by an earth and rockfill dam with ungaged bedrock spillway at elevation 1,205.00 ft (367.284 m). Storage began July 1960. Capacity at elevation 1,205.00 ft (367.284 m) is 51,700 acre-ft (63.7 hm^3). Ordinary minimum (conservation) pool elevation, 1,125.00 ft or 342.900 m (capacity, 3,420 acre-ft or 4.22 hm^3). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Regulation is accomplished by discharge through an ungated tunnel. Records furnished by Corps of Engineers.

01429400 GENERAL EDGAR JADWIN RESERVOIR.--Lat 41°36'44", long 75°15'55", Wayne County, at dam on Dyberry Creek, 0.45 mi (0.72 km) upstream from unnamed tributary, 2.4 mi (3.9 km) north of Honesdale, and 2.9 mi (4.7 km) upstream from mouth. Drainage area, 64.5 mi^2 (167.1 km^2). Period of record, October 1959 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 2,200 acre-ft (2.71 hm^3) Dec. 21 (elevation, 1,001.50 ft or 305.257 m); minimum, no storage many times. Extremes for period of record: Maximum contents, 6,520 acre-ft (8.04 hm^3) June 19, 1973 (elevation, 1,017.40 ft or 310.104 m); minimum, no storage many times.

Reservoir formed by an earth and rockfill dam with ungated, concrete spillway at elevation, 1,053.00 ft (320.954 m). Storage began in October 1959. Capacity at elevation 1,053.00 ft (320.954 m) is 24,500 acre-ft (30.2 hm^3). Reservoir is used for flood control. Figures given herein represent total contents. Regulation is accomplished by discharge through an ungated tunnel. Records furnished by Corps of Engineers.

01431700 LAKE WALLENPAUPACK.--Lat 41°27'35", long 75°11'10", Wayne County, at dam on Wallenpaupack Creek at Wilsonville, 1.2 mi (1.9 km) south of Hawley and 1.5 mi (2.4 km) upstream from mouth. Drainage area, 228 mi^2 (591 km^2). Period of record, January 1926 to current year. Gage, vertical staff. Datum of gage is at mean sea level (levels by Pennsylvania Power and Light Co.). Extremes for current year: 139,930 acre-ft (173 hm^3) Dec. 28, 29 (elevation, 1,186.90 ft or 361.767 m); minimum, 86,480 acre-ft (107 hm^3) Oct. 13-29 (elevation, 1,176.20 ft or 358.506 m). Extremes for period of record: Maximum contents, 178,200 acre-ft (220 hm^3) Aug. 19-21, 1955 (elevation, 1,193.45 ft or 363.764 m); minimum (after first filling), 12,280 acre-ft (15.1 hm^3) Mar. 28, 1958 (elevation, 1,162.60 ft or 354.360 m).

Reservoir formed by concrete gravity-type and earthfill dam, with concrete spillway at elevation, 1,176.00 ft (358.445 m) in two sections. Spillway equipped with roller gate, 14 ft high (4.267 m) on each section. Storage began Nov. 3, 1925; water in reservoir first reached minimum pool elevation in January 1926. Total capacity at elevation, 1,190.00 ft or 362.712 m (top of gates) is 209,300 acre-ft (258 hm^3), of which 157,800 acre-ft (195 hm^3) is controlled storage above elevation, 1,160.00 ft or 353.568 m (minimum pool). Reservoir is used for generation of hydroelectric power. Figures given herein represent usable contents. Records furnished by Pennsylvania Power and Light Co.

01447780 FRANCIS E. WALTER RESERVOIR (formerly published as Bear Creek Reservoir).--Lat 41°06'45", long 75°43'15", Luzerne County, at dam on Lehigh River, 2,200 ft (670 m) downstream from Bear Creek and 5 mi (8 km) northwest of White Haven. Drainage area, 289 mi^2 (749 km^2). Period of record, February 1961 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 25,760 acre-ft (31.8 hm^3) Dec. 23 (elevation, 1,376.90 ft or 419.679 m); minimum, 1,920 acre-ft (2.37 hm^3) Oct. 3 (elevation, 1,297.23 ft or 395.396 m). Extremes for period of record: Maximum contents, 42,600 acre-ft (52.5 hm^3) June 26, 1972 (elevation, 1,398.20 ft or 426.171 m); minimum (after establishment of conservation pool), 1,510 acre-ft (1.86 hm^3) Apr. 23, 1962 (elevation, 1,295.10 ft or 394.746 m).

Reservoir formed by an earthfill embankment covered with a rock shell, with concrete spillway at elevation, 1,450.0 ft (441.96 m). Storage began Feb. 17, 1961; water in reservoir first reached conservation pool elevation in June 1961. Total capacity at elevation 1,450.0 ft (441.96 m) is 110,700 acre-ft (136 hm^3) of which 108,700 acre-ft (134 hm^3) is controlled storage above elevation 1,300.0 ft or 396.24 m (conservation pool). Dead storage is 2,000 acre-ft (2.47 hm^3). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Flow regulated by three gates and low flow by-pass system. Records furnished by Corps of Engineers.

01449400 PENN FOREST RESERVOIR.--Lat 40°55'45", long 75°33'45", Carbon County, at dam on Wild Creek near Hatchery, Pa., 0.7 mi (1.1 km) upstream from Hatchery, 2.6 mi (4.2 km) upstream from Wild Creek Dam, 4.4 mi (7.1 km) upstream from mouth, and 10 mi (16 km) northeast of Palmerton. Drainage area, 16.5 mi^2 (42.7 km^2). Period of record, October 1958 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by city of Bethlehem). Extremes for current year: Maximum contents, 20,470 acre-ft (25.2 hm^3) Dec. 22 (elevation, 1,000.84 ft or 305.056 m); minimum, 18,260 acre-ft (22.5 hm^3) Sept. 5 (elevation, 996.18 ft or 303.636 m). Extremes for period of record: Maximum contents, 20,470 acre-ft (25.2 hm^3) Dec. 22, 1973 (elevation, 1,000.84 ft or 305.056 m); minimum, 176 acre-ft (0.217 hm^3) Oct. 6, 1965 (elevation, 902.40 ft or 275.052 m).

Reservoir formed by an earthfill dam, with ungated concrete spillway at elevation, 1,000.00 ft (304,800 m). Storage began in October 1958. Capacity at elevation 1,000.00 ft (304.800 m) is 19,980 acre-ft (24.6 hm^3). Reservoir is used for municipal water supply. Figures given herein represent total contents. Regulation is done by valves on pipe through dam. Records furnished by city of Bethlehem. Figures given herein include diversion, since October 1969, from Tunkhannock Creek basin into Wild Creek basin.

Lakes and reservoirs in Delaware River basin--Continued

01449700 WILD CREEK RESERVOIR.--Lat 40°53'50", long 75°33'50", Carbon County, at dam on Wild Creek near Hatchery, Pa., 1.6 mi (2.6 km) upstream from mouth, 2.4 mi (3.9 km) south of Hatchery, and 7.5 mi (12 km) northeast of Palmerton. Drainage area, 22.2 mi^2 (57.5 km^2). Period of record, January 1941 to current year. Nonrecording gage. Datum of gage is at mean sea level (levels by city of Bethlehem). Extremes for current year: Maximum contents, 12,260 acre-ft (15.1 hm^3) Dec. 23 (elevation, 820.86 ft or 250.198 m); minimum, 9,060 acre-ft (11.2 hm^3) Aug. 17 (elevation, 808.87 ft or 246.544 m). Extremes for period of record: Maximum contents, 12,880 acre-ft (15.9 hm^3) May 23, 1942 (elevation, 822.93 ft or 250.829 m); minimum (after first filling), 2,680 acre-ft (3.30 hm^3) Nov. 15, 1966 (elevation, 774.10 ft or 235.946 m).

Reservoir formed by earthfill dam, with concrete ungated spillway at elevation, 820.00 ft (249.936 m). Storage began January 27, 1941; water in reservoir first reached minimum pool elevation in February 1941. Total capacity at elevation 820.00 ft (249.936 m) is 12,500 acre-ft (15.4 hm^3) of which 12,000 acre-ft (15 hm^3) is controlled storage. Reservoir is used for municipal water supply. Figures given herein represent usable contents. Regulation is accomplished by valves on pipe through dam. Records furnished by city of Bethlehem. Since October 1969 the basin upstream has received diversion from Tunkhannock Creek basin (see p. 33).

01449790 BELTZVILLE LAKE.--Lat 40°50'56", long 75°38'19", Carbon County, at dam on Pohopoco Creek, 0.45 mi (0.72 km) upstream from gaging station on Pohopoco Creek, 0.55 mi (0.88 km) upstream from Sawmill Run and 2.3 mi (3.7 km) northeast of Parryville. Drainage area, 96.3 mi^2 (249.4 km^2). Period of record, February 1971 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents 47,200 acre-ft (58.2 hm^3) Dec. 23 (elevation, 634.00 ft or 193.243 m); minimum, 35,420 acre-ft (43.7 hm^3) Oct. 29 (elevation, 621.50 ft or 189.433 m). Extremes for period of record: Maximum contents, 48,410 acre-ft (59.7 hm^3) July 4, 1973 (elevation 635.10 ft or 193.578 m); minimum, 136 acre-ft (0.168 hm^3) Feb. 8, 1971 (elevation 516.20 ft or 157.338 m).

Reservoir formed by an earth and rockfill dam with ungated, partially lined spillway at elevation, 651.00 ft (198.425 m). Storage began Feb. 8, 1971. Capacity at elevation 651.00 ft (198.425 m) is 68,300 acre-ft (84.2 hm^3). Ordinary minimum (conservation) pool elevation, 628.00 ft or 191.414 m (capacity, 41,250 acre-ft or 50.9 hm^3). Dead storage is 1,390 acre-ft (1.71 hm^3). Reservoir is used for recreation, flood control, low-flow augmentation and water supply. Figures given herein represent total contents. Regulation is accomplished by a multi-level water-quality outlet system and two flood-control gates. Records furnished by Corps of Engineers.

01469200 STILL CREEK RESERVOIR.--Lat 40°51'25", long 75°59'30", Schuylkill County, at dam on Still Creek, 1 mi (1.6 km) upstream from mouth and 2.3 mi (3.7 km) north of Hometown, Pa. Drainage area, 8.5 mi^2 (22.0 km^2). Period of record, January 1933 to current year. Nonrecording gage. Datum of gage is at mean sea level (levels by Panther Valley Water Co.). Extremes for current year: Maximum contents, 8,440 acre-ft (10.4 hm^3) Dec. 21 (elevation, 1,182.50 ft or 360.426 m); minimum, 8,070 acre-ft (9.95 hm^3) Aug. 22 (elevation, 1,181.25 ft or 360.045 m). Extremes for period of record: Maximum contents, 8,570 acre-ft (10.6 hm^3) Oct. 15, 1955 (elevation, 1,182.92 ft or 360.554 m), but may have been greater during 1950 and 1951 water years; minimum (after initial filling), 588 acre-ft (0.725 hm^3) Dec. 8, 1944 (elevation, 1,136.70 ft or 346.466 m).

Reservoir formed by earthfill dam, with ungated concrete spillway at elevation 1,182.00 ft (360.274 m). Storage began in February 1933. Capacity at elevation 1,182.00 ft (360.274 m) is 8,290 acre-ft (10.2 hm^3). Reservoir is used for municipal water supply. Figures given herein represent total contents. Regulation is accomplished by valves on pipe through dam. Records furnished by Panther Valley Water Co.

01472200 GREEN LANE RESERVOIR.--Lat 40°20'30", long 75°28'45", Montgomery County, at dam on Perkiomen Creek at Green Lane, Pa., 0.4 mi (0.6 km) west of Green Lane and 2.1 mi (3.4 km) upstream from Unami Creek. Drainage area, 70.9 mi^2 (183.6 km^2). Period of record, December 1956 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Philadelphia Suburban Water Co.). Extremes for current year: Maximum contents, 14,890 acre-ft (18.4 hm^3) Dec. 20 (elevation, 287.65 ft or 87.676 m)); minimum, 10,810 acre-ft (13.3 hm^3) Dec. 3 (elevation, 282.68 ft or 86.161 m). Extremes for period of record: Maximum contents, 17,030 acre-ft (21.0 hm^3) June 23, 1972 (elevation, 290.05 ft or 88.407 m); minimum (after first filling), 1,270 acre-ft (1.57 hm^3) Aug. 25, 1957 (elevation, 251.60 ft or 76.688 m).

Reservoir formed by concrete, gravity-type dam, with ungated spillway at elevation 286.00 ft (87.173 m). Storage began December 21, 1956. Capacity at spillway level (elevation 286.00 ft or 87.173 m), 13,430 acre-ft (16.6 hm^3). Reservoir is used for municipal water supply. Figures given herein represent total contents. Regulation is accomplished by valves on pipe through dam. Records furnished by Philadelphia Suburban Water Co.

Lakes and reservoirs in Delaware River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01428900 PROMPTON LAKE			01429400 GENERAL EDGAR JADWIN RESERVOIR		
Sept. 30	1,125.55	3,570	-	975.20	0	-
Oct. 31	1,125.85	3,660	+1.5	975.52	0	0
Nov. 30	1,126.68	3,890	+3.9	976.85	0	0
Dec. 31	1,129.41	4,750	+14.0	978.90	18	+.3
CAL YR 1973	-	-	+.6	-	-	-.3
Jan. 31	1,128.80	4,560	-3.1	980.03	51	+.5
Feb. 28	1,126.88	3,950	-11.0	976.91	0	-.9
Mar. 31	1,126.85	3,940	-.2	978.41	8	+.1
Apr. 30	1,126.00	3,700	-4.0	976.65	0	-.1
May 31	1,125.62	3,590	-1.8	975.99	0	0
June 30	1,126.32	3,790	+3.4	976.10	0	0
July 31	1,126.58	3,860	+1.1	976.35	0	0
Aug. 31	1,125.65	3,600	-4.2	975.80	0	0
Sept. 30	1,128.30	4,400	+13.4	977.13	0	0
WTR YR 1974	-	-	+1.1	-	-	0

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01431700 LAKE WALLENPAUPACK			01447780 FRANCIS E. WALTER LAKE		
Sept. 30	1,178.60	94,040	-	1,300.83	2,080	-
Oct. 31	1,176.90	84,870	-149	1,311.07	3,220	+18.5
Nov. 30	1,178.50	93,500	+145	1,301.78	2,180	-17.5
Dec. 31	1,186.20	136,940	+706	1,336.40	7,870	+92.5
CAL YR 1973	-	-	+26.9	-	-	+8.3
Jan. 31	1,182.80	116,900	-326	1,304.85	2,490	-87.5
Feb. 28	1,178.40	92,960	-431	1,303.05	2,300	-3.4
Mar. 31	1,176.80	84,340	-140	1,301.08	2,110	-3.1
Apr. 30	1,182.50	115,250	+519	1,301.81	2,180	+1.2
May 31	1,186.20	136,940	+353	1,302.61	2,260	+1.3
June 30	1,185.30	130,880	-102	1,300.65	2,060	-3.4
July 31	1,184.10	124,160	-109	1,301.90	2,190	+2.1
Aug. 31	1,182.00	112,500	-190	1,306.80	2,710	+8.5
Sept. 30	1,178.70	94,580	-301	1,304.55	2,460	-4.2
WTR YR 1974	-	-	+.7	-	-	+.5

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01449400 PENN FOREST RESERVOIR			01449700 WILD CREEK RESERVOIR		
Sept. 30	1,000.17	20,080	-	817.18	11,300	-
Oct. 31	1,000.31	20,160	+1.3	814.28	10,500	-13.0
Nov. 30	1,000.19	20,090	-1.2	812.98	10,140	-6.1
Dec. 31	1,000.47	20,250	+2.6	820.52	12,160	+32.9
CAL YR 1973	-	-	0	-	-	+.1
Jan. 31	1,000.37	20,190	-1.0	820.40	12,120	-.7
Feb. 28	1,000.26	20,130	-1.1	820.26	12,080	-.7
Mar. 31	1,000.35	20,180	+.8	820.39	12,120	+.7
Apr. 30	1,000.20	20,090	-1.5	820.08	12,020	-1.7
May 31	1,000.16	20,070	-.3	820.01	12,000	-.3
June 30	1,000.08	20,020	-.8	817.64	11,430	-9.6
July 31	1,000.13	20,050	+.5	812.08	9,890	-25.0
Aug. 31	996.04	18,200	-30.1	815.14	10,740	+13.8
Sept. 30	996.56	18,430	+3.9	816.69	11,170	+7.2
WTR YR 1974	-	-	-2.3	-	-	-.2

Lakes and reservoirs in Delaware River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01449790 BELTZVILLE LAKE			01469200 STILL CREEK RESERVOIR		
Sept. 30	628.30	41,540	-	1,182.08	8,310	-
Oct. 31	622.60	36,360	-84.2	1,182.04	8,300	-0.2
Nov. 30	622.60	36,360	0	1,182.02	8,290	-.2
Dec. 31	628.30	41,540	+84.2	1,182.21	8,350	+1.0
CAL YR 1973	-	-	0	-	-	0
Jan. 31	629.00	42,200	+10.7	1,182.17	8,340	-.2
Feb. 28	629.00	42,200	0	1,182.08	8,310	-.5
Mar. 31	628.00	41,250	-15.5	1,182.12	8,320	+.2
Apr. 30	627.50	40,780	-7.9	1,182.06	8,300	-.3
May 31	628.10	41,340	+9.1	1,182.08	8,310	+.2
June 30	628.00	41,250	-1.5	1,181.75	8,210	-1.7
July 31	628.00	41,250	0	1,181.50	8,140	-1.1
Aug. 31	629.50	42,700	+23.6	1,181.83	8,240	+1.6
Sept. 30	628.20	41,440	-21.2	1,182.06	8,300	+1.0
WTR YR 1974	-	-	-.1	-	-	0

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
01472200 GREEN LANE RESERVOIR			
Sept. 30	285.82	13,270	-
Oct. 31	285.55	13,030	-3.9
Nov. 30	282.75	10,860	-36.5
Dec. 31	286.10	13,520	+43.3
CAL YR 1973	-	-	-.2
Jan. 31	286.06	13,490	-.5
Feb. 28	286.03	13,460	-.5
Mar. 31	286.40	13,780	+5.2
Apr. 30	286.05	13,480	-5.0
May 31	286.10	13,520	+.7
June 30	286.02	13,450	-1.2
July 31	285.06	12,600	-13.8
Aug. 31	285.98	13,420	+13.3
Sept. 30	286.15	13,560	+2.4
WTR YR 1974	-	-	+.4

01516500 Corey Creek near Mainesburg, Pa.

LOCATION.--Lat 41°47'27", long 77°00'54", Tioga County, on right bank 30 ft (9 m) upstream from township bridge, 500 ft (152 m) upstream from small tributary, 1.1 mi (1.8 km) west of Mainesburg, 3.5 mi (5.6 km) east of Mansfield, and 4.2 mi (6.8 km) upstream from mouth.

DRAINAGE AREA.--12.2 mi^2 (31.6 km^2).

PERIOD OF RECORD.--May 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,337.50 ft (407.670 m) above mean sea level. Prior to June 28, 1954, nonrecording gage at site 30 ft (9 m) downstream at same datum.

AVERAGE DISCHARGE.--20 years, 11.9 ft^3/s (0.34 m^3/s), 13.25 in/yr (337 mm/yr).

EXTREMES.--Current year: Maximum discharge, 845 ft^3/s (23.9 m^3/s) Dec. 20 (gage height, 7.10 ft or 2.164 m) from rating curve extended above 100 ft^3/s (2.83 m^3/s); maximum gage height, 7.42 ft or 2.262 m Jan. 21 (backwater from ice); minimum daily discharge, 0.19 ft^3/s (0.005 m^3/s) Aug. 26.
Period of record: Maximum discharge, 5,580 ft^3/s (158 m^3/s) June 23, 1972 (gage height, 10.44 ft or 3.182 m, from floodmark), from rating curve extended above 490 ft^3/s (13.9 m^3/s) on basis of slope-area measurements at gage height, 7.88 ft (2.402 m) and at peak flow; no flow for many days.

REMARKS.--Records fair except those for winter periods and those for period of indefinite stage-discharge relation, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	5.6	5.8	28	20	19	33	13	3.0	34	.68	1.7
2	2.1	4.6	5.3	20	15	15	92	7.9	2.6	4.8	.58	2.8
3	2.1	4.2	5.0	16	13	21	47	8.2	2.5	2.7	.52	11
4	1.9	3.8	4.8	13	11	37	47	7.7	2.1	2.1	.90	6.0
5	2.3	3.5	97	11	10	43	35	6.7	2.0	2.0	1.2	3.0
6	2.0	3.2	34	9.2	8.8	32	29	7.2	2.0	1.8	.86	2.0
7	1.9	3.0	18	8.0	7.8	27	23	6.7	1.9	1.5	.64	1.6
8	1.8	2.7	14	7.2	7.0	50	20	5.9	1.8	1.4	.47	1.3
9	1.8	2.6	71	6.5	6.6	73	23	6.4	1.8	1.3	.47	1.2
10	1.7	2.5	37	6.0	6.0	63	23	7.9	6.4	1.2	.46	1.1
11	1.7	2.3	21	5.6	5.6	41	39	6.4	7.4	1.2	.41	1.0
12	1.6	2.3	16	5.4	5.4	32	58	28	3.1	1.1	.37	.96
13	1.6	2.2	14	5.2	5.6	27	44	29	2.6	1.0	.34	4.5
14	1.6	2.2	14	5.0	5.8	24	63	20	2.2	1.0	.31	4.8
15	1.5	2.3	10	5.4	5.8	18	58	15	2.1	1.1	.27	2.4
16	1.5	5.0	9.0	6.0	5.2	15	38	12	5.4	1.0	.26	1.8
17	1.5	3.8	8.6	6.4	4.8	13	30	11	3.2	.94	.32	1.5
18	1.6	3.1	8.2	6.0	4.6	12	24	9.5	2.6	.86	.40	1.3
19	1.7	3.0	15	5.6	4.4	11	27	7.4	2.3	.82	.33	1.2
20	1.5	2.9	120	9.0	9.0	10	20	6.4	2.1	.70	.28	1.5
21	1.5	2.7	178	90	8.2	30	17	5.4	2.1	.60	.25	14
22	1.5	2.6	60	54	120	21	16	5.0	2.0	.52	.23	9.0
23	1.5	2.5	56	75	54	15	17	5.4	2.0	1.0	.22	5.2
24	1.4	3.0	45	50	40	13	15	4.8	2.0	2.4	.22	3.8
25	1.4	13	45	33	24	12	12	4.1	2.1	3.2	.20	3.0
26	1.4	9.7	107	27	17	11	10	3.7	2.2	1.5	.19	2.6
27	1.3	7.7	101	39	15	9.8	9.1	3.5	2.0	1.3	.45	2.2
28	1.4	11	65	47	17	8.8	8.2	3.4	2.0	.92	.72	1.9
29	11	8.1	55	48	------	12	7.4	3.7	3.4	1.1	.76	3.2
30	19	6.7	46	36	------	13	7.9	3.4	64	1.3	2.3	2.8
31	6.0	------	37	27	------	20	------	3.0	------	.90	1.3	------
TOTAL	82.7	131.8	1,322.7	710.5	456.6	748.6	892.6	267.7	142.9	77.26	16.91	100.36
MEAN	2.67	4.39	42.7	22.9	16.3	24.1	29.8	8.64	4.76	2.49	.55	3.35
MAX	19	13	178	90	120	73	92	29	64	34	2.3	14
MIN	1.3	2.2	4.8	5.0	4.4	8.8	7.4	3.0	1.8	.52	.19	.96
CFSM	.22	.36	3.50	1.88	1.34	1.98	2.44	.71	.39	.20	.05	.27
IN.	.25	.40	4.03	2.17	1.39	2.28	2.72	.82	.44	.24	.05	.31

CAL YR 1973 TOTAL 5,268.00 MEAN 14.4 MAX 268 MIN 1.1 CFSM 1.18 IN 16.06
WTR YR 1974 TOTAL 4,950.63 MEAN 13.6 MAX 178 MIN .19 CFSM 1.11 IN 15.10

PEAK DISCHARGE (BASE, 280 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1800	6.67	738	2-22	1300	5.25	415
12-20	2215	7.10	845	6-30	2100	4.64	337

NOTE.--Indefinite stage-discharge relation July 17 to September 30.

01517000 Elk Creek near Mainesburg, Pa.

LOCATION.--Lat 41°48'54", long 76°57'55", Tioga County, on left bank 250 ft (76 m) downstream from highway bridge, 0.5 mi (0.8 km) upstream from small tributary, 2.8 mi (4.5 km) northeast of Mainesburg, 5.5 mi (8.8 km) usptream from mouth, and 5.8 mi (9.3 km) east of Mansfield.

DRAINAGE AREA.--10.2 mi^2 (26.4 km^2).

PERIOD OF RECORD.--May 1954 to current year.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 1,385.05 ft (422.163 m) above mean sea level. Prior to Aug. 29, 1956, nonrecording gage and crest-stage gage at bridge 250 ft (76 m) upstream at same datum.

AVERAGE DISCHARGE.--20 years, 10.6 ft^3/s (0.30 m^3/s), 14.11 in/yr (358 mm/yr).

EXTREMES.--Current year: Maximum discharge, 363 ft^3/s (10.3 m^3/s) Dec. 20 (gage height, 2.19 ft or 0.668 m); maximum gage height, 2.28 ft or 0.695 m Dec. 20 (backwater from ice); no flow Aug. 25, 26, 27.
Period of record: Maximum discharge, 3,940 ft^3/s (112 m^3/s) June 22, 1972 (gage height, 6.00 ft or 1.829 m in gage well, 6.75 ft or 2.057 m outside from floodmarks), from rating curve extended above 300 ft^3/s (8.50 m^3/s) on basis of contracted-opening measurement of peak flow; no flow on many days.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	6.0	6.3	16	15	15	22	11	2.0	21	.37	.88
2	1.4	4.8	5.6	11	11	12	85	7.0	1.6	6.0	.31	1.5
3	1.5	4.2	5.4	10	9.6	18	50	7.0	1.4	4.2	.28	5.6
4	1.4	3.6	5.1	8.4	8.6	33	47	6.6	1.2	3.3	.41	3.6
5	1.7	3.4	59	7.2	7.6	38	34	5.6	1.0	2.8	.61	1.6
6	1.4	3.3	35	6.4	6.6	27	27	6.0	.92	2.7	.43	1.0
7	1.3	3.2	20	5.8	5.8	23	21	6.0	.80	1.9	.34	.86
8	1.2	2.8	14	5.3	5.4	44	17	5.4	.80	1.4	.25	.70
9	1.1	2.7	68	4.7	4.9	62	18	5.6	.80	1.2	.25	.61
10	1.1	2.2	41	4.4	4.6	53	20	7.0	2.3	1.0	.25	.57
11	1.1	2.1	26	4.2	4.3	34	31	5.6	4.9	.86	.23	.53
12	1.0	2.1	17	4.1	4.0	26	68	21	1.8	.70	.19	.49
13	.98	1.9	14	4.0	4.3	16	53	12	1.3	.61	.17	2.4
14	.98	1.8	14	3.9	4.5	14	61	8.2	.98	.53	.13	2.5
15	.92	1.9	9.7	4.2	4.5	13	56	8.2	.92	.53	.09	1.3
16	.86	6.2	14	4.7	3.9	12	35	7.8	3.4	.53	.07	.98
17	.92	4.2	6.0	5.0	3.6	10	27	7.4	2.1	.46	.13	.80
18	1.0	3.4	14	4.6	3.4	7.8	22	6.3	1.4	.46	.21	.70
19	1.1	3.3	15	4.3	3.2	9.2	24	4.8	1.1	.43	.15	.65
20	1.0	3.0	80	8.2	9.0	8.7	16	4.4	.98	.37	.09	.80
21	.98	2.8	142	71	6.3	28	12	3.8	.92	.31	.05	7.5
22	.92	2.8	60	39	90	20	13	3.6	.80	.28	.04	5.2
23	.92	2.7	37	58	38	14	14	3.8	.65	.40	.04	2.8
24	.86	3.3	24	33	26	12	12	3.3	.65	1.3	.04	2.0
25	.80	18	21	25	15	8.2	10	2.8	.92	1.6	.01	1.6
26	.80	12	88	20	13	8.7	9.2	2.7	1.2	.80	0	1.4
27	.80	7.4	79	30	12	8.2	8.2	2.4	.92	.70	.24	1.2
28	.80	12	47	36	14	8.2	7.4	2.6	.92	.49	.40	1.0
29	14	9.2	35	37	------	7.4	6.6	3.0	2.7	.54	.40	1.7
30	26	7.4	26	26	------	10	7.4	2.7	27	.70	1.2	1.4
31	6.6	------	17	20	------	15	------	2.0	------	.49	.70	------
TOTAL	76.84	143.7	1,045.1	521.4	338.1	615.4	833.8	185.6	68.38	58.59	8.08	53.87
MEAN	2.48	4.79	33.7	16.8	12.1	19.9	27.8	5.99	2.28	1.89	.26	1.80
MAX	26	18	142	71	90	62	85	21	27	21	1.2	7.5
MIN	.80	1.8	5.1	3.9	3.2	7.4	6.6	2.0	.65	.28	0	.49
CFSM	.24	.47	3.30	1.65	1.19	1.95	2.73	.59	.22	.19	.03	.18
IN.	.28	.52	3.81	1.90	1.23	2.24	3.04	.68	.25	.21	.03	.20

CAL YR 1973 TOTAL 4,440.05 MEAN 12.2 MAX 239 MIN .28 CFSM 1.20 IN 16.19
WTR YR 1974 TOTAL 3,948.86 MEAN 10.8 MAX 142 MIN 0 CFSM 1.06 IN 14.40

PEAK DISCHARGE (BASE, 230 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1700	1.89	247	2-22	1200	1.85	233
12-20	2200	2.19	363				

01518000 Tioga River at Tioga, Pa.

LOCATION.--Lat 41°54'30", long 77°07'47", Tioga County, on left bank 130 ft (40 m) upstream from remains of highway bridge at Tioga, 0.8 mi (1.3 km) upstream from Crooked Creek.

DRAINAGE AREA.--282 mi^2 (730 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,021.0 ft (311.20 m) above mean sea level. Prior to Sept. 9, 1953, at site 20 ft (6 m) upstream at datum 2.11 ft (0.643 m) higher. Sept. 9, 1953 to Aug. 10, 1954, at site 130 ft (40 m) downstream at present datum.

AVERAGE DISCHARGE.--36 years, 330 ft^3/s (9.35 m^3/s), 15.89 in/yr (404 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,260 ft^3/s (149 m^3/s) Dec. 21 (gage height, 5.97 ft or 1.820 m) from rating curve extended above 2,600 ft^3/s (73.6 m^3/s); maximum gage height, 6.78 ft or 2.067 m Dec. 20 (backwater from ice); minimum discharge, 20 ft^3/s (0.57 m^3/s) July 23, Aug. 26, 27 (gage height, 0.06 ft or 0.018 m).

Period of record: Maximum discharge, 59,000 ft^3/s (1,670 m^3/s) June 22, 1972 (gage height, 19.70 ft or 6.005 m, from floodmark) from rating curve extended above 8,000 ft^3/s (227 m^3/s) on basis of slope-area measurement and contracted-opening measurement at gage height, 15.47 ft (4.715 m) and slope-area measurement of peak flow; minimum, 4.5 ft^3/s (0.13 m^3/s) Aug. 10, 11, 1955.

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

REVISIONS (WATER YEARS).--WSP 871: 1938.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	397	308	599	727	472	768	376	130	2,260	56	44
2	86	333	248	477	593	408	1,650	276	117	599	51	135
3	100	275	220	417	524	441	1,490	265	106	371	52	223
4	100	236	208	376	400	831	1,630	268	94	268	65	295
5	126	208	1,100	292	340	1,300	1,150	236	86	223	69	127
6	123	190	1,660	230	300	1,050	880	229	77	203	58	84
7	98	172	792	200	270	831	707	243	69	163	49	65
8	88	156	584	180	240	912	599	216	64	135	44	54
9	82	146	1,710	160	220	1,740	605	210	64	115	43	48
10	80	134	1,620	150	200	1,900	576	280	71	101	46	40
11	75	123	988	150	190	1,170	789	250	394	92	41	35
12	71	115	691	140	180	928	1,260	624	143	79	38	31
13	69	110	546	130	180	674	1,320	1,260	106	71	43	40
14	75	107	527	130	190	547	1,260	707	84	65	35	112
15	71	102	414	150	190	482	2,240	552	71	94	31	60
16	67	194	290	180	180	477	1,150	441	133	88	32	43
17	63	236	260	210	170	487	838	466	149	67	34	35
18	65	166	230	200	160	362	674	412	101	60	37	34
19	67	146	210	180	150	362	714	324	79	58	31	32
20	63	134	1,000	170	210	319	576	280	71	54	28	34
21	62	120	3,880	400	200	775	477	247	67	49	27	135
22	60	120	1,600	1,220	2,000	599	436	223	67	46	24	353
23	56	115	1,140	1,460	1,770	422	487	223	58	48	23	160
24	56	120	803	1,100	796	408	432	213	52	73	22	108
25	54	431	643	694	655	307	376	188	58	101	21	88
26	53	636	1,530	576	503	295	328	166	101	86	21	79
27	53	375	2,750	1,100	432	280	292	152	84	73	22	69
28	51	584	1,600	1,270	432	272	265	146	69	64	35	62
29	82	520	1,140	1,580	------	254	243	149	163	62	35	62
30	1,490	375	952	1,080	------	295	236	152	661	79	58	106
31	484	------	681	873	------	552	------	127	------	65	65	------
TOTAL	4,158	7,076	30,325	16,074	12,402	20,152	24,448	9,901	3,589	5,912	1,236	2,793
MEAN	134	236	978	519	443	650	815	319	120	191	39.9	93.1
MAX	1,490	636	3,880	1,580	2,000	1,900	2,240	1,260	661	2,260	69	353
MIN	51	102	208	130	150	254	236	127	52	46	21	31
CFSM	.48	.84	3.47	1.84	1.57	2.31	2.89	1.13	.43	.68	.14	.33
IN.	.55	.93	4.00	2.12	1.64	2.66	3.23	1.31	.47	.78	.16	.37

CAL YR 1973 TOTAL 149,620 MEAN 410 MAX 6,620 MIN 44 CFSM 1.45 IN 19.74
WTR YR 1974 TOTAL 138,066 MEAN 378 MAX 3,880 MIN 21 CFSM 1.34 IN 18.21

PEAK DISCHARGE (BASE, 6,500 CFS).--No peak above base.

01518500 Crooked Creek at Tioga, Pa.

LOCATION.--Lat 41°54'08", long 77°08'55", Tioga County, on right bank 30 ft (9 m) upstream from Penn Central Railroad bridge, 1 mi (1.6 km) southwest of Tioga, 1 mi (1.6 km) upstream from Elkhorn Creek, and 3 mi (4.8 km) upstream from mouth.

DRAINAGE AREA.--122 mi^2 (316 km^2).

PERIOD OF RECORD.--May 1953 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,051.28 ft (320.430 m) above mean sea level.

AVERAGE DISCHARGE.--21 years, 112 ft^3/s (3.17 m^3/s), 12.47 in/yr (317 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,390 ft^3/s (96.0 m^3/s) Dec. 20 (gage height, 10.66 ft or 3.249 m, from peak-stage indicator); minimum daily, 6.2 ft^3/s (0.18 m^3/s) Aug. 25, 26.
Period of record: Maximum discharge, 21,000 ft^3/s (595 m^3/s) June 23, 1972, on basis of runoff comparison with nearby stations; maximum gage height, 18.29 ft (5.575 m), from floodmark; minimum discharge 1.8 ft^3/s (0.051 m^3/s) Oct. 30, 1963; minimum gage height, 1.94 ft (0.591 m) Sept. 4, 5, 6, 7, 1971.

REMARKS.--Records poor. Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1332: 1953.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	145	105	232	270	172	270	128	46	827	13	13
2	26	105	88	182	230	145	560	94	40	168	13	38
3	32	88	80	156	190	161	500	92	37	110	13	64
4	33	72	77	120	150	248	560	98	33	80	22	84
5	40	64	156	98	130	348	400	84	29	66	15	38
6	40	60	215	90	110	278	300	84	26	58	13	25
7	32	56	110	76	96	242	240	94	24	50	12	19
8	29	51	96	66	88	275	220	81	23	38	12	16
9	27	49	472	62	82	631	210	81	23	32	12	14
10	26	46	517	60	76	658	200	88	25	27	12	12
11	24	42	318	58	70	390	300	80	140	23	12	11
12	23	41	225	56	68	320	420	270	45	20	11	10
13	23	39	187	54	68	230	450	427	24	18	11	12
14	24	38	179	52	74	187	420	242	23	17	11	35
15	23	37	145	52	74	163	980	177	23	27	10	18
16	21	51	105	58	66	172	400	156	112	24	9.9	13
17	20	54	65	66	60	175	300	170	50	17	9.9	10
18	21	43	62	62	56	126	240	140	34	14	9.4	9.6
19	22	41	60	60	52	126	260	120	28	15	8.6	9.4
20	21	40	480	80	50	112	200	100	25	17	7.8	10
21	20	38	1,500	200	85	228	160	90	24	17	7.4	40
22	20	37	600	439	1,040	208	150	78	22	15	7.1	100
23	19	36	430	667	577	168	182	78	21	14	6.6	47
24	18	38	300	481	305	156	161	74	20	17	6.4	32
25	18	108	240	302	240	110	139	66	20	17	6.2	28
26	17	145	500	252	203	100	122	58	39	15	6.2	23
27	17	101	1,000	493	199	96	108	50	60	15	6.4	20
28	17	175	694	487	154	92	98	50	35	16	10	18
29	30	168	472	586	------	90	91	52	141	13	11	21
30	571	120	388	398	------	100	91	54	242	23	17	28
31	168	------	270	330	------	200	------	48	------	15	19	------
TOTAL	1,451	2,128	10,136	6,375	4,863	6,707	8,732	3,504	1,434	1,825	340.9	818.0
MEAN	46.8	70.9	327	206	174	216	291	113	47.8	58.9	11.0	27.3
MAX	571	175	1,500	667	1,040	658	980	427	242	827	22	100
MIN	17	36	60	52	50	90	91	48	20	13	6.2	9.4
CFSM	.38	.58	2.68	1.69	1.43	1.77	2.39	.93	.39	.48	.09	.22
IN.	.44	.65	3.09	1.94	1.48	2.05	2.66	1.07	.44	.56	.10	.25

CAL YR 1973 TOTAL 50,066.0 MEAN 137 MAX 2,400 MIN 12 CFSM 1.12 IN 15.27
WTR YR 1974 TOTAL 48,313.9 MEAN 132 MAX 1,500 MIN 6.2 CFSM 1.08 IN 14.73

PEAK DISCHARGE (BASE, 2,400 CFS).--Dec. 20 (Unknown) 3,390 cfs (10.66 ft).

NOTE.--No gage-height record Dec. 20-23, Aug. 23 to Sept. 30.

01520000 Cowanesque River near Lawrenceville, Pa.

LOCATION.--Lat 41°59'04", long 77°09'06", Tioga County, on left bank 0.8 mi (1.3 km) downstream from Cook Creek, 1.8 mi (2.9 km) southwest of Lawrenceville, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--298 mi^2 (772 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 998.03 ft (304.200 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 274 ft^3/s (7.76 m^3/s), 12.49 in/yr (317 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,450 ft^3/s (126 m^3/s) Dec. 21 (gage height, 7.36 ft or 2.243 m); minimum, 10 ft^3/s (0.28 m^3/s) Aug. 14 (gage height, 2.40 ft or 0.732 m).
Period of record: Maximum discharge, about 40,500 ft^3/s (1,150 m^3/s) June 23, 1972, from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of runoff comparison with nearby stations; maximum gage height, 17.26 ft (5.261 m) June 23, 1972, from floodmarks (backwater from Tioga River); minimum discharge, 0.8 ft^3/s (0.023 m^3/s) Aug. 31, Sept. 1, 27, 1964; minimum gage height, 1.77 ft or 0.539 m Sept. 13, 1957.

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

REVISIONS (WATER YEARS).--WRD Penna 1972: 1971(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	313	198	473	485	422	554	309	103	1,360	37	38
2	62	253	175	370	380	350	1,240	222	95	461	30	37
3	79	212	162	336	341	461	1,490	230	83	318	27	282
4	88	181	156	300	310	953	2,020	265	75	234	28	336
5	84	162	204	270	280	1,330	1,400	215	65	184	75	129
6	97	151	234	220	250	864	1,040	204	55	151	43	82
7	75	140	175	190	220	695	757	212	51	119	33	60
8	66	127	156	170	200	680	665	184	48	94	27	49
9	63	117	591	160	190	1,420	622	204	46	77	27	41
10	59	110	587	150	180	1,560	587	261	45	66	34	36
11	56	101	370	140	170	830	856	215	45	60	29	33
12	53	97	291	140	150	710	1,380	830	45	51	24	31
13	51	92	257	130	160	479	1,110	1,170	42	46	22	30
14	50	90	257	130	170	390	944	589	40	43	20	39
15	48	86	226	130	170	345	2,110	425	41	46	18	43
16	45	124	190	140	160	380	1,080	339	348	41	16	33
17	44	132	170	160	150	444	765	351	185	34	16	28
18	46	110	160	150	140	278	594	345	112	29	19	30
19	49	101	150	140	130	304	781	245	83	28	22	41
20	49	94	1,200	200	120	265	560	204	70	26	23	41
21	45	90	2,880	560	170	291	444	187	61	26	20	66
22	43	88	1,060	1,150	2,600	332	390	168	55	23	17	222
23	41	84	757	1,840	1,700	355	438	194	50	23	15	117
24	40	86	528	1,410	672	422	395	177	45	36	14	84
25	39	194	428	789	560	253	350	164	45	39	14	70
26	38	242	1,260	622	406	245	296	143	378	31	14	63
27	37	194	3,070	1,100	370	226	257	129	757	29	13	51
28	36	309	1,570	989	360	230	230	122	241	27	14	43
29	51	287	1,020	1,210	------	204	212	126	678	26	21	38
30	1,480	222	822	781	------	226	201	140	340	107	51	48
31	406	------	548	629	------	422	------	111	------	55	65	------
TOTAL	3,482	4,589	19,852	15,179	11,194	16,366	23,768	8,680	4,327	3,890	828	2,241
MEAN	112	153	640	490	400	528	792	280	144	125	26.7	74.7
MAX	1,480	313	3,070	1,840	2,600	1,560	2,110	1,170	757	1,360	75	336
MIN	36	84	150	130	120	204	201	111	40	23	13	28
CFSM	.38	.51	2.15	1.64	1.34	1.77	2.66	.94	.48	.42	.09	.25
IN.	.43	.57	2.48	1.89	1.40	2.04	2.97	1.08	.54	.49	.10	.28

CAL YR 1973 TOTAL 97,690 MEAN 268 MAX 3,070 MIN 21 CFSM .90 IN 12.19
WTR YR 1974 TOTAL 114,396 MEAN 313 MAX 3,070 MIN 13 CFSM 1.05 IN 14.28

PEAK DISCHARGE (BASE, 6,300 CFS).--No peak above base.

01531500 Susquehanna River at Towanda, Pa.

LOCATION.--Lat 41°45'55", long 76°26'28", Bradford County, on right bank under Bridge Street Bridge at Towanda, 1.8 mi (2.9 km) upstream from Towanda Creek.

DRAINAGE AREA.--7,797 mi^2 (20,194 km^2).

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for some periods, published in WSP 1302. Gage-height records collected at same site since October 1892 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 694.38 ft (211.647 m) above mean sea level. Prior to Oct. 18, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--61 years, 10,450 ft^3/s (296 m^3/s), 18.20 in/yr (462 mm/yr).

EXTREMES.--Current year: Maximum discharge, 76,900 ft^3/s (2,180 m^3/s) Dec. 28 (gage height, 13.92 ft or 4.243 m); minimum, 1,000 ft^3/s (28.3 m^3/s) Aug. 24, 25 (gage height, 0.21 ft or 0.064 m).
Period of record: Maximum discharge, 320,000 ft^3/s (9,060 m^3/s) June 24, 1972 (gage height, 33.43 ft or 10.189 m from floodmarks), from rating curve extended above 180,000 ft^3/s (5,100 m^3/s); minimum, 334 ft^3/s (9.46 m^3/s) Sept. 23, 24, 1964; minimum gage height, -0.56 ft or -0.171 m Aug. 17, 1965.
Maximum stage known prior to 1892, 25.0 ft or 7.62 m Mar. 17, 1865 (discharge, about 188,000 ft^3/s or 5,320 m^3/s).

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

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1922, 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,540	4,510	6,680	29,100	25,200	12,500	19,100	7,270	6,220	7,970	3,390	2,770
2	1,480	3,860	6,110	24,100	20,700	13,600	28,200	8,340	5,680	9,080	4,060	2,850
3	1,470	3,810	5,400	19,400	17,000	13,800	48,700	8,120	5,240	5,640	3,120	3,330
4	1,450	3,550	4,820	16,300	14,700	17,900	51,400	8,010	4,810	5,090	2,580	4,640
5	1,520	3,260	4,800	13,100	12,200	30,400	57,800	7,840	4,450	12,900	2,300	8,880
6	1,530	2,920	15,000	10,800	9,620	38,700	51,600	7,240	4,130	13,000	2,220	8,790
7	1,530	2,640	17,900	10,200	9,000	33,300	41,000	6,880	3,790	10,000	2,240	6,170
8	1,510	2,510	14,700	8,900	8,600	27,700	33,100	6,890	3,440	7,590	2,080	4,650
9	1,410	2,360	14,300	7,810	8,000	28,700	30,700	6,990	3,120	6,300	1,910	3,880
10	1,420	2,190	36,500	6,530	7,600	30,500	28,600	8,090	2,920	5,310	1,720	3,300
11	1,510	2,050	32,900	6,000	7,400	25,600	27,300	10,300	3,030	4,500	1,580	2,860
12	1,460	1,950	24,500	5,600	7,200	20,300	36,400	9,650	3,170	3,940	1,490	2,580
13	1,360	1,870	17,800	5,400	7,200	16,800	42,200	27,200	3,290	3,540	1,510	2,410
14	1,290	1,810	14,200	5,200	8,000	13,400	39,400	30,700	3,230	3,230	1,650	2,270
15	1,210	2,020	13,000	5,200	7,960	11,300	52,200	23,600	3,000	3,030	1,470	2,370
16	1,180	2,420	11,200	6,000	7,110	10,400	46,700	17,600	3,500	3,000	1,320	3,450
17	1,180	2,620	9,000	7,200	6,560	12,200	35,800	14,000	5,300	2,930	1,230	3,690
18	1,210	3,030	5,980	7,280	6,190	14,300	27,100	16,400	5,410	2,840	1,180	3,020
19	1,240	3,110	4,630	6,540	5,920	13,900	22,200	18,900	4,450	2,640	1,130	2,590
20	1,260	2,980	5,550	6,490	5,980	12,700	20,500	14,500	3,810	2,330	1,170	2,320
21	1,290	2,910	34,400	7,740	6,440	12,600	17,300	11,300	3,310	2,050	1,130	2,360
22	1,280	2,620	53,700	19,100	14,600	17,500	14,800	9,740	3,140	1,870	1,130	3,020
23	1,210	2,460	41,600	24,000	53,400	17,300	13,500	8,760	3,210	1,790	1,090	5,950
24	1,170	2,220	31,600	36,400	37,700	18,100	13,400	8,380	4,110	1,970	1,040	7,280
25	1,160	2,300	22,200	28,900	26,600	17,400	12,500	8,380	4,020	2,280	1,020	5,570
26	1,130	3,640	22,800	23,400	19,400	15,000	11,600	8,230	3,390	2,290	1,050	4,470
27	1,090	5,580	56,700	24,200	15,200	12,800	10,100	7,830	3,560	2,400	1,070	3,880
28	1,040	5,810	71,300	40,800	13,200	11,900	8,960	6,940	5,560	2,530	1,200	3,680
29	1,070	6,950	57,600	43,900	------	11,000	8,100	6,510	5,110	2,350	1,290	3,550
30	2,920	7,160	46,700	38,700	------	10,000	7,470	6,580	5,930	2,120	1,370	3,570
31	7,770	------	36,400	31,000	------	13,300	------	6,810	------	2,370	2,160	------
TOTAL	48,890	97,120	739,970	525,290	388,680	554,900	857,730	347,980	123,330	138,880	52,900	120,150
MEAN	1,577	3,237	23,870	16,940	13,880	17,900	28,590	11,230	4,111	4,480	1,706	4,005
MAX	7,770	7,160	71,300	43,900	53,400	38,700	57,800	30,700	6,220	13,000	4,060	8,880
MIN	1,040	1,810	4,630	5,200	5,920	10,000	7,470	6,510	2,920	1,790	1,020	2,270
CFSM	.20	.42	3.06	2.17	1.78	2.30	3.67	1.44	.53	.57	.22	.51
IN.	.23	.46	3.53	2.51	1.85	2.65	4.09	1.66	.59	.66	.25	.57

CAL YR 1973 TOTAL 4,094,210 MEAN 11,220 MAX 71,300 MIN 1,040 CFSM 1.44 IN 19.53
WTR YR 1974 TOTAL 3,995,820 MEAN 10,950 MAX 71,300 MIN 1,020 CFSM 1.40 IN 19.06

PEAK DISCHARGE (BASE, 68,000 CFS).--Dec. 28 (0200) 76,900 cfs (13.92 ft).

01532000 Towanda Creek near Monroeton, Pa.

LOCATION.--Lat 41°42'27", long 76°28'20", Bradford County, on left bank 10 ft (3 m) upstream from Lehigh Valley Railroad Bridge, 1,000 ft (305 m) upstream from South Branch Towanda Creek, and 0.5 mi (0.8 km) south of Monroeton.

DRAINAGE AREA.--215 mi^2 (557 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 753.70 ft (229.728 m) above mean sea level. Prior to Oct. 1, 1942, nonrecording gage at site 1 mi (1.6 km) upstream at datum 20.44 ft (6.230 m) higher.

AVERAGE DISCHARGE.--60 years, 285 ft^3/s (8.07 m^3/s), 18.00 in/yr (457 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,010 ft^3/s (199 m^3/s) Dec. 21 (gage height, 6.78 ft or 2.067 m); minimum, 8.0 ft^3/s (0.23 m^3/s) Aug. 26, 27 (gage height, 1.00 ft or 0.305 m).
Period of record: Maximum discharge, 47,000 ft^3/s (1,330 m^3/s) June 22, 1972 (gage height, 15.30 ft or 4.663 m, from floodmark in gage well), from rating curve extended above 9,500 ft^3/s (269 m^3/s) on basis of slope-area and contracted-opening measurements at gage height, 10.33 ft or 3.149 m and slope-area measurement of peak flow; minimum observed, 0.7 ft^3/s (0.020 m^3/s) Sept. 15, 17, 21, 22, 1932.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1051: 1943-44(M). WSP 1302: 1922(M), 1924, 1925-26(M), 1928, 1929(M), 1930-31. WSP 1432: 1921(M), 1932(M), 1933, 1934-35(M), 1936, 1938(M), 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	309	293	505	610	352	680	374	106	960	30	78
2	64	267	245	392	470	313	1,760	246	91	400	26	275
3	65	207	217	328	360	333	1,670	236	72	250	26	292
4	65	172	201	286	292	546	1,780	229	63	200	32	405
5	64	153	645	215	225	814	1,150	201	57	180	41	165
6	64	142	1,470	190	210	705	821	194	52	160	31	103
7	59	133	689	170	190	580	628	196	46	140	26	78
8	56	131	491	140	180	647	514	172	42	110	24	64
9	54	123	1,630	150	170	1,330	532	191	40	92	22	54
10	52	115	1,570	160	150	1,400	503	304	38	76	20	48
11	51	110	865	160	140	930	682	251	68	66	19	42
12	49	108	598	140	130	736	1,250	437	53	56	16	38
13	44	100	463	120	120	531	1,370	733	42	50	16	45
14	47	100	445	120	110	428	1,050	495	38	46	17	64
15	54	98	360	130	100	366	1,450	395	34	52	14	58
16	51	159	278	140	96	350	842	315	190	60	13	45
17	47	169	220	130	94	364	637	272	460	49	13	38
18	47	139	200	120	88	271	514	235	240	42	15	36
19	47	131	190	110	82	266	484	192	150	45	14	33
20	46	123	700	100	78	237	424	163	100	37	12	32
21	44	118	4,560	600	90	476	350	144	90	33	12	80
22	42	115	1,670	1,170	1,860	561	311	128	88	30	12	298
23	42	113	1,070	1,070	1,400	379	335	124	80	28	11	141
24	41	113	770	926	666	336	292	121	72	70	10	98
25	40	368	603	645	518	270	252	108	66	74	9.8	80
26	40	573	1,340	540	368	249	206	94	78	54	9.2	72
27	38	393	2,470	846	314	235	182	87	68	43	9.2	64
28	38	495	1,460	1,110	309	222	161	87	60	38	12	57
29	40	472	1,010	1,390	------	210	150	87	72	33	25	55
30	723	356	838	942	------	264	160	86	95	41	88	57
31	332	------	617	755	------	498	------	74	------	36	85	------
TOTAL	2,513	6,105	28,178	13,800	9,420	15,199	21,140	6,971	2,751	3,551	710.2	2,995
MEAN	81.1	204	909	445	336	490	705	225	91.7	115	22.9	99.8
MAX	723	573	4,560	1,390	1,860	1,400	1,780	733	460	960	88	405
MIN	38	98	190	100	78	210	150	74	34	28	9.2	32
CFSM	.38	.95	4.23	2.07	1.56	2.28	3.28	1.05	.43	.53	.11	.46
IN.	.43	1.06	4.88	2.39	1.63	2.63	3.66	1.21	.48	.61	.12	.52

CAL YR 1973 TOTAL 143,856.0 MEAN 394 MAX 4,560 MIN 22 CFSM 1.83 IN 24.89
WTR YR 1974 TOTAL 113,333.2 MEAN 311 MAX 4,560 MIN 9.2 CFSM 1.45 IN 19.61

PEAK DISCHARGE (BASE, 4,300 CFS).--Dec. 21 (0100) 7,010 cfs (6.78 ft); Feb. 22 (1600) 4,400 cfs (5.65 ft).

01532850 Middle Branch Wyalusing Creek tributary near Birchardville, Pa.

LOCATION.--Lat 41°51'45", long 76°00'26", Susquehanna County, on left bank 60 ft (18 m) upstream from bridge on State Highway 267, 1,000 ft (305 m) upstream from mouth, and 1.2 mi (1.9 km) miles north of Birchardville.

DRAINAGE AREA.--5.67 mi^2 (14.69 km^2).

PERIOD OF RECORD.--Occasional discharge measurements and annual maximum, water years 1960-65. August 1965 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 1,077.51 ft (328.425 m) above mean sea level. Oct. 7, 1959 to Aug. 12, 1965, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--9 years, 8.49 ft^3/s (0.24 m^3/s), 20.33 in/yr (516 mm/yr).

EXTREMES.--Current year: Maximum discharge, 233 ft^3/s (6.60 m^3/s) Dec. 9 (gage height, 5.38 ft or 1.640 m); maximum gage height, 5.55 ft or 1.692 m Feb. 22 (backwater from ice); minimum discharge, 0.22 ft^3/s (0.006m^3/s) Aug. 21, 22 (gage height, 3.54 ft or 1.079 m).
Period of record: Maximum discharge, 1,120 ft^3/s (31.7 m^3/s) June 22, 1972 (gage height, 6.85 ft or 2.088 m), from rating curve extended above 30 ft^3/s (0.85 m^3/s); minimum daily, 0.1 ft^3/s (0.003 m^3/s) on many days.

REMARKS.--Records good exept those for winter periods and those for period of doubtful gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	7.5	10	12	14	8.0	12	16	11	20	.98	7.2
2	1.9	5.0	8.1	8.7	11	6.8	68	8.8	4.5	10	.82	7.6
3	1.8	3.8	7.0	7.0	10	8.0	74	9.2	3.6	8.0	.82	14
4	1.6	3.2	6.5	6.1	8.6	12	75	9.0	2.7	6.4	1.3	9.2
5	2.1	3.0	27	4.9	7.6	16	41	7.0	2.5	5.6	1.2	4.2
6	1.4	2.7	27	4.1	6.8	12	24	7.4	2.1	4.8	.90	3.0
7	1.3	2.5	14	3.6	6.2	11	16	7.0	1.8	3.3	.82	2.3
8	1.2	2.3	12	3.3	5.6	12	14	6.4	1.7	2.7	.63	1.8
9	1.4	2.1	97	3.2	5.0	16	14	7.4	1.5	2.3	.58	1.4
10	2.1	2.1	57	3.5	4.7	19	13	7.6	1.5	2.0	.53	1.2
11	1.6	1.9	30	3.6	4.3	13	19	6.6	3.3	1.7	.49	1.1
12	1.3	1.9	19	3.2	4.1	12	28	28	1.8	1.5	.42	.98
13	1.2	1.9	15	2.9	3.9	11	25	32	1.5	1.3	.39	1.2
14	1.6	1.8	16	2.8	3.7	10	20	19	2.3	1.2	.36	3.0
15	1.2	1.8	11	3.0	3.4	8.8	29	13	2.0	1.2	.30	1.5
16	1.1	6.1	7.5	3.3	3.2	11	20	9.2	9.2	.98	.30	1.2
17	1.1	4.1	4.7	3.0	3.0	11	16	8.0	24	.82	.32	.98
18	1.1	3.2	4.2	2.9	2.8	9.2	14	6.8	8.0	.75	.45	1.1
19	1.2	3.0	5.0	2.6	2.8	9.2	12	6.4	5.6	.82	.34	.98
20	.98	2.7	31	2.8	3.8	9.2	10	6.0	4.5	.75	.28	.98
21	.90	2.5	102	20	3.9	30	8.8	6.0	13	.69	.24	15
22	.77	2.5	38	34	40	19	8.0	6.4	15	.69	.22	11
23	.72	2.3	25	23	29	17	7.6	7.2	7.6	.75	1.4	6.4
24	.72	5.7	18	19	19	15	6.8	8.0	6.4	3.6	2.1	5.6
25	.68	17	18	14	13	13	6.0	6.0	6.0	1.5	.75	4.8
26	.64	11	48	13	10	11	4.8	2.5	7.2	1.5	.63	5.2
27	.60	16	78	58	8.2	8.4	4.2	2.3	6.4	2.0	.58	4.8
28	.60	25	46	48	7.6	7.6	3.9	2.1	4.8	1.1	.63	4.2
29	1.8	18	30	42	------	5.2	3.6	6.8	7.2	1.2	.75	3.9
30	5.0	13	22	27	------	8.0	4.6	4.2	11	2.7	5.6	3.0
31	2.7	------	15	21	------	11	------	3.3	------	1.2	2.7	------
TOTAL	43.71	175.6	849.0	405.5	245.2	370.4	602.3	275.6	179.7	93.05	27.83	128.82
MEAN	1.41	5.85	27.4	13.1	8.76	11.9	20.1	8.89	5.99	3.00	.90	4.29
MAX	5.0	25	102	58	40	30	75	32	24	20	5.6	15
MIN	.60	1.8	4.2	2.6	2.8	5.2	3.6	2.1	1.5	.69	.22	.98
CFSM	.25	1.03	4.83	2.31	1.55	2.10	3.55	1.57	1.06	.53	.16	.76
IN.	.29	1.15	5.57	2.66	1.61	2.43	3.95	1.81	1.18	.61	.18	.85

CAL YR 1973 TOTAL 3,304.19 MEAN 9.05 MAX 102 MIN .44 CFSM 1.60 IN 21.68
WTR YR 1974 TOTAL 3,396.71 MEAN 9.31 MAX 102 MIN .22 CFSM 1.64 IN 22.29

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1515	5.38	233	4- 3	1830	5.23	188
12-21	0100	5.32	217	4-14	2200	5.18	175

NOTE.--Doubtful gage-height record Apr. 14 to May 16.

01533800 Butler Creek at Gibson, Pa.

LOCATION.--Lat 41°48'10", long 75°38'45", Susquehanna County, on right bank 35 ft (11 m) upstream from bridge on State Highway 547 at Gibson, and 6.0 mi (9.7 km) upstream from Leslie Creek.

DRAINAGE AREA.--7.38 mi^2 (19.11 km^2).

PERIOD OF RECORD.--Occasional discharge measurements and annual maximum, water years 1963-73. October 1973 to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 1196.29 ft (364.629 m) above mean sea level. Sept. 11, 1962 to Mar. 12, 1973 crest-stage gage at site 300 ft (91 m) downstream at datum 7.0 ft (2.13 m) lower. Mar. 13 to Sept. 30, 1973 crest-stage gage at present site and datum.

EXTREMES.--Current year: Maximum discharge, 224 ft^3/s (6.34 m^3/s) Dec. 21 (gage height, 4.11 ft or 1.253 m), from rating curve extended above 120 ft^3/s (3.4 m^3/s) on basis of contracted-opening measurement at gage height, 12.66 ft or 3.859 m; maximum gage height, 4.50 ft (1.372 m) Feb. 22 (backwater from ice); minimum discharge, 0.23 ft^3/s (0.007 m^3/s) Aug. 21, 22; minimum gage height, 2.17 ft (0.661 m) July 22, 23.
Period of record: Maximum discharge, 2,460 ft^3/s (69.7 m^3/s) Aug. 27, 1967 (gage height, 12.66 ft or 3.859 m, at present site and datum, from highwater mark), result of contracted-opening measurement; minimum, 0.23 ft^3/s (0.007 m^3/s) Aug. 21, 22, 1974; minimum gage height, 2.17 ft (0.661 m) July 22, 23, 1974.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	4.7	11	18	26	16	19	21	47	11	2.7	8.0
2	2.8	4.3	8.8	13	21	14	41	11	19	4.2	1.6	20
3	3.0	3.7	8.3	11	18	14	86	12	12	2.5	5.1	27
4	2.7	3.1	8.1	9.6	15	21	106	12	9.2	1.9	4.8	24
5	9.0	3.0	39	8.0	13	31	70	9.2	7.6	2.6	3.4	12
6	4.5	2.7	50	7.0	12	24	45	9.6	6.4	11	2.1	8.4
7	3.2	2.8	27	6.2	11	21	32	9.6	6.4	5.1	1.4	6.8
8	2.8	2.7	21	5.6	9.6	20	27	8.4	5.7	2.7	1.1	5.1
9	2.5	2.7	64	5.4	9.0	25	34	9.6	5.1	1.6	.93	3.9
10	2.3	2.7	49	5.8	8.2	28	28	10	4.8	1.3	.85	3.2
11	2.2	2.9	34	6.2	7.6	20	35	8.8	9.2	1.3	.71	2.7
12	2.1	2.9	26	5.4	7.0	17	38	36	4.8	1.0	.59	2.3
13	2.0	2.9	22	5.0	6.8	16	34	41	3.6	.85	.54	2.5
14	2.1	2.6	28	4.7	6.4	14	29	24	4.5	.78	.49	6.4
15	1.9	3.2	20	5.2	5.8	15	38	18	4.2	.93	.39	3.4
16	1.8	15	15	5.6	5.4	17	25	15	6.4	.78	.35	2.3
17	1.6	8.0	11	5.2	5.0	20	20	12	6.8	.65	.49	2.1
18	1.9	5.9	9.6	4.8	4.9	18	17	10	3.9	.59	.54	2.1
19	2.1	5.2	11	4.5	4.8	16	17	8.4	2.5	1.0	.39	1.9
20	2.1	4.5	30	4.8	6.8	16	16	7.0	2.3	.78	.31	2.0
21	2.1	4.9	130	20	8.0	41	16	5.7	5.4	.65	.27	3.9
22	1.9	5.4	54	67	64	31	16	5.4	5.4	.54	.27	3.9
23	1.9	4.6	33	37	52	30	15	6.8	2.9	.82	1.9	2.6
24	1.8	7.7	23	34	37	30	9.2	6.1	2.1	6.4	1.4	2.3
25	1.6	23	21	26	23	25	7.6	5.4	2.3	3.2	.85	2.1
26	1.3	17	72	24	20	20	7.2	4.8	3.6	1.6	.65	1.9
27	1.1	16	95	84	16	17	5.4	4.2	2.9	2.1	.59	1.8
28	1.3	26	58	98	14	15	4.8	3.9	2.0	1.6	.93	13
29	6.4	20	38	70	------	12	4.5	11	4.2	4.6	1.3	15
30	3.2	14	29	50	------	18	8.0	8.4	4.5	14	12	10
31	3.4	------	21	34	------	20	------	5.7	------	6.0	7.2	------
TOTAL	80.8	224.1	1,066.8	685.0	437.3	642	850.7	360.0	206.7	94.07	56.14	202.6
MEAN	2.61	7.47	34.4	22.1	15.6	20.7	28.4	11.6	6.89	3.03	1.81	6.75
MAX	9.0	26	130	98	64	41	106	41	47	14	12	27
MIN	1.1	2.6	8.1	4.5	4.8	12	4.5	3.9	2.0	.54	.27	1.8
CFSM	.35	1.01	4.66	2.99	2.11	2.80	3.85	1.57	.93	.41	.25	.91
IN.	.41	1.13	5.38	3.45	2.20	3.24	4.29	1.81	1.04	.47	.28	1.02

CAL YR 1973	TOTAL	-	MEAN	-	MAX	-	MIN	-	CFSM	-	IN	-
WTR YR 1974	TOTAL	4,906.21	MEAN	13.4	MAX	130	MIN	.27	CFSM	1.82	IN	24.73

PEAK DISCHARGE (BASE, 180 CFS).--Dec. 21 (0145) 224 cfs (4.11 ft); Apr. 3 (1630) 184 cfs (3.94 ft).

01533950 South Branch Tunkhannock Creek near Montdale, Pa.

LOCATION.--Lat 41°34'29", long 75°38'32", Lackawanna County, on right bank 70 ft (21 m) upstream from highway bridge, 0.6 mi (1.0 km) downstream from Scott, 1.0 mi (1.6 km) upstream from East Benton, 3.5 mi (5.6 km) northwest of Montdale, 7.5 mi (12.1 km) west of Carbondale, and 16 mi (26 km) upstream from mouth.

DRAINAGE AREA.--12.6 m^2 (32.6 km^2).

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 1,090 ft or 332 m (from topographic map).

AVERAGE DISCHARGE.--14 years, 15.5 ft^3/s (0.44 m^3/s), 16.71 in/yr (424 mm/yr).

EXTREMES.--Current year: Maximum discharge, 856 ft^3/s (24.2 m^3/s) Dec. 21 (gage height, 4.96 ft or 1.512 m), from rating curve extended as explained below; minimum 1.1 ft^3/s (0.031 m^3/s) Aug. 15, 16, 17, 21, 22 (gage height, 1.04 ft or 0.317 m).

Period of record: Maximum discharge, 1,440 ft^3/s (40.8 m^3/s) Apr. 2, 1970 (gage height, 5.73 ft or 1.747 m), from rating curve extended above 350 ft^3/s (9.91 m^3/s) on basis of slope-area measurement at gage height, 5.43 ft or 1.655 m; minimum, 0.08 ft^3/s (0.002 m^2s) July 23, 1968; minimum gage height, 0.95 ft or 0.290 m Mar. 16, 1969.

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

REVISIONS (WATER YEARS).--WRD Penna 1972: 1961(P), 1962(M), 1964(P), 1965-66(M), 1969-70(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	8.6	16	30	30	18	26	24	26	24	2.7	12
2	4.7	6.8	13	22	25	17	84	17	9.7	7.1	2.3	17
3	4.9	5.9	12	19	22	16	180	14	7.7	4.9	2.3	35
4	4.2	5.1	12	16	19	18	240	12	7.1	4.2	2.1	28
5	10	4.9	28	14	16	21	110	11	5.7	7.4	2.0	12
6	5.7	4.7	42	12	14	16	75	10	5.1	6.8	1.8	8.3
7	4.7	4.4	22	11	13	15	50	15	4.4	4.2	1.7	7.7
8	4.4	4.2	18	9.8	12	22	40	13	4.2	3.6	1.6	6.2
9	4.2	4.2	135	9.4	11	52	66	13	4.2	3.2	1.6	5.4
10	4.0	4.0	71	10	10	58	56	19	4.0	2.9	1.6	4.7
11	4.0	3.8	42	11	9.6	30	50	16	6.2	2.7	1.5	4.0
12	3.8	3.8	29	9.2	9.0	25	48	24	4.2	2.6	1.4	3.6
13	3.6	3.8	23	8.6	8.6	20	44	50	4.0	2.4	1.4	3.6
14	4.0	3.8	33	8.2	8.0	19	52	33	3.8	2.3	1.3	5.4
15	3.8	4.2	21	9.8	7.4	18	60	24	3.6	2.7	1.2	3.8
16	3.6	9.0	16	11	6.8	31	44	21	8.0	2.4	1.1	3.2
17	3.4	6.2	14	9.6	6.6	42	37	19	6.2	2.1	2.0	2.9
18	3.6	5.1	13	9.0	6.0	21	31	17	4.4	2.1	2.0	2.9
19	3.8	4.7	14	8.0	6.0	21	27	14	4.0	2.3	1.6	2.7
20	3.6	4.4	74	11	11	20	24	12	3.8	2.1	1.4	2.9
21	3.4	4.2	570	63	13	134	21	10	8.6	2.0	1.3	6.2
22	3.2	4.4	123	86	66	60	20	9.7	8.0	1.9	1.2	6.2
23	3.0	4.4	64	94	86	37	19	10	4.7	1.9	2.6	4.4
24	3.0	5.9	41	69	37	30	17	9.0	4.2	4.2	1.9	3.6
25	2.9	23	40	44	30	25	15	8.0	4.0	3.4	1.6	3.4
26	3.0	20	225	39	23	20	13	7.4	4.0	2.7	1.4	3.2
27	3.0	17	235	112	19	16	12	6.8	3.8	4.4	1.4	3.0
28	3.0	37	128	125	17	14	11	6.5	3.6	3.4	1.4	21
29	5.9	25	71	114	------	12	10	8.3	3.6	4.7	1.5	22
30	20	19	48	61	------	20	10	8.3	6.8	22	4.7	12
31	7.4	------	35	44	------	23	------	6.5	------	4.2	3.0	------
TOTAL	145.6	261.5	2,228	1,099.6	542.0	891	1,492	468.5	177.6	146.8	56.6	256.3
MEAN	4.70	8.72	71.9	35.5	19.4	28.7	49.7	15.1	5.92	4.74	1.83	8.54
MAX	20	37	570	125	86	134	240	50	26	24	4.7	35
MIN	2.9	3.8	12	8.0	6.0	12	10	6.5	3.6	1.9	1.1	2.7
CFSM	.37	.69	5.71	2.82	1.54	2.28	3.94	1.20	.47	.38	.15	.68
IN.	.43	.77	6.58	3.25	1.60	2.63	4.40	1.38	.52	.43	.17	.76

CAL YR 1973 TOTAL 9,275.1 MEAN 25.4 MAX 570 MIN 2.7 CFSM 2.02 IN 27.38
WTR YR 1974 TOTAL 7,765.5 MEAN 21.3 MAX 570 MIN 1.1 CFSM 1.69 IN 22.93

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1530	4.03	415	3-21	1230	4.13	452
12-21	0245	4.96	856	4- 3	Unk.	4.09	327
12-26	2145	4.22	487				

01534000 Tunkhannock Creek near Tunkhannock, Pa.

LOCATION.--Lat 41°33'29", long 75°53'42", Wyoming County, on left bank 300 ft (91 m) upstream from bridge on U.S. Highway 6 at Dixon, 3 mi (4.8 km) northeast of Tunkhannock, and 4 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--383 mi^2 (992 km^2).

PERIOD OF RECORD.--February 1914 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1965, published as "at Dixon".

GAGE.--Water-stage recorder. Datum of gage is 610.50 ft (186.080 m) above mean sea level (Pennsylvania Department of Transportation benchmark). Prior to Aug. 10, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--60 years, 535 ft^3/s (15.2 m^3/s), 18.97 in/yr (482 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 8,600 ft^3/s (244 m^3/s) Dec. 21, on basis of runoff comparisons with nearby stations; minimum, 61 ft^3/s (1.73 m^3/s) Aug. 22 (gage height, 1.31 ft or 0.399 m).
Period of record: Maximum discharge, 33,600 ft^3/s (952 m^3/s) Mar. 10, 1964 (gage height, 14.26 ft or 4.346 m), from rating curve extended above 4,700 ft^3/s (133 m^3/s) on basis of contracted-opening measurement at gage height, 13.96 ft or 4.255 m; minimum, 6.2 ft^3/s (0.18 m^3/s) Sept. 24, 1964; minimum gage height, 0.73 ft or 0.223 m Aug. 12, 1930.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1051: 1921(M), 1932, 1934-35(M), 1936, 1938(M), 1939-40, 1942-44, 1945(M). WSP 1302: 1922, 1923(M), 1924-25, 1927-28. WSP 1432: 1919(M), 1920, 1933, 1943(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	199	569	1,050	1,280	593	1,070	1,090	1,510	1,780	198	237
2	172	236	482	866	1,010	581	1,880	760	928	754	150	816
3	172	199	428	733	859	545	3,860	702	611	505	132	715
4	166	178	397	668	700	637	4,830	643	481	463	358	1,220
5	178	163	681	490	480	873	3,520	523	389	363	229	624
6	182	175	2,180	420	450	844	2,450	481	323	511	169	423
7	157	166	1,140	380	410	720	1,600	499	271	353	138	347
8	145	160	859	350	380	707	1,190	434	237	267	116	327
9	137	154	2,000	320	350	1,350	2,020	434	217	225	106	337
10	134	151	2,900	350	330	1,550	1,720	553	201	194	104	337
11	129	140	1,700	380	300	1,040	1,490	475	347	169	93	299
12	126	134	1,320	320	280	873	1,450	708	258	150	84	183
13	124	131	1,020	300	260	681	1,400	2,260	205	135	81	166
14	137	107	1,150	280	240	593	1,400	1,250	176	124	79	323
15	148	96	932	330	230	533	1,900	963	225	135	72	258
16	140	272	720	400	220	569	1,470	809	221	121	68	176
17	129	334	530	350	200	1,220	1,150	663	327	106	71	147
18	129	224	440	310	190	781	984	591	241	97	86	132
19	134	195	450	290	180	747	907	487	183	106	79	127
20	131	175	730	280	387	753	809	406	163	108	70	118
21	126	160	6,500	660	387	1,740	695	347	237	91	65	395
22	126	157	4,200	2,300	2,110	1,990	617	318	611	82	62	1,100
23	121	154	2,200	1,930	2,640	1,210	591	308	318	79	91	505
24	116	154	1,500	1,930	1,140	1,170	535	313	233	166	110	353
25	111	545	1,110	1,330	948	900	481	313	221	209	87	285
26	107	851	1,870	1,160	700	760	423	267	249	135	74	258
27	104	606	3,900	2,720	560	656	379	233	308	118	68	233
28	98	971	3,000	2,980	569	606	342	217	237	108	72	318
29	98	917	2,140	3,920	------	545	323	241	254	100	86	1,060
30	248	687	1,690	2,160	------	551	318	395	308	682	187	767
31	236	------	1,220	1,630	------	873	------	276	------	323	373	------
TOTAL	4,443	8,791	49,958	31,587	17,790	27,191	41,804	17,959	10,490	8,759	3,758	12,586
MEAN	143	293	1,612	1,019	635	877	1,393	579	350	283	121	420
MAX	248	971	6,500	3,920	2,640	1,990	4,830	2,260	1,510	1,780	373	1,220
MIN	98	96	397	280	180	533	318	217	163	79	62	118
CFSM	.37	.77	4.21	2.66	1.66	2.29	3.64	1.51	.91	.74	.32	1.10
IN.	.43	.85	4.85	3.07	1.73	2.64	4.06	1.74	1.02	.85	.37	1.22

CAL YR 1973 TOTAL 247,621 MEAN 678 MAX 7,500 MIN 80 CFSM 1.77 IN 24.05
WTR YR 1974 TOTAL 235,116 MEAN 644 MAX 6,500 MIN 62 CFSM 1.68 IN 22.84

PEAK DISCHARGE (BASE, 5,700 CFS).--Dec. 21 (Unk.) 8,600 cfs (Unk.); Apr. 3 (2345) 6,390 cfs (7.63 ft).

NOTE.--Doubtful gage-height record Dec. 21, 22.

01534300 Lackawanna River near Forest City, Pa.

LOCATION.--Lat 41°40'47", long 75°28'20", Susquehanna County, on left bank 400 ft (122 m) downstream from bridge on State Highway 171, 1.3 mi (2.1 km) downstream from new Stillwater Dam, 1.7 mi (2.7 km) below confluence of East and West Branches, and 2.2 mi (3.5 km) north of Forest City.

DRAINAGE AREA.--38.8 mi^2 (100 km^2).

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,551.28 ft (472.830 m) above mean sea level. Prior to Dec. 11, 1958, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 70.0 ft^3/s (1.98 m^3/s), 24.50 in/yr (622 mm/yr).

EXTREMES.--Current year: Maximum discharge, 736 ft^3/s (20.8 m^3/s) Apr. 7 (gage height, 4.28 ft or 1.305 m); minimum, 7.1 ft^3/s (0.20 m^3/s) Oct. 28, 29 (gage height, 1.51 ft or 0.460 m).
Period of record: Maximum discharge, 1,390 ft^3/s (39.3 m^3/s) Jan. 22, 1959 (gage height, 6.41 ft or 1.954 m), from rating curve extended above 600 ft^3/s (17.0 m^3/s); minimum daily, 2.0 ft^3/s (0.057 m^3/s) Oct. 27, 28, Nov. 2-5, 1964; minimum gage height, 1.35 ft or 0.411 m Oct. 13, 1964.
Maximum discharge known, 2,530 ft^3/s (71.6 m^3/s) May 22, 1942, from computation of flow over dam.

REMARKS.--Records good. Flow regulated since December 1959 by Stillwater Lake 1.3 mi (2.1 km) upstream (see p.189).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	47	89	208	255	72	95	113	134	70	87	37
2	15	29	70	141	227	82	104	141	214	75	59	77
3	15	59	61	112	176	75	157	115	181	58	43	99
4	15	44	55	97	120	85	278	113	123	101	53	146
5	16	34	65	75	83	155	269	98	86	94	64	126
6	18	29	176	70	67	206	270	88	67	83	51	82
7	18	25	227	69	72	201	693	85	52	75	40	58
8	16	22	203	58	69	183	529	78	45	59	34	45
9	16	21	181	49	62	169	354	71	42	48	29	38
10	15	19	264	49	56	164	234	73	37	39	26	33
11	13	19	285	62	55	146	176	69	40	32	23	28
12	12	18	261	70	52	124	186	86	39	26	19	25
13	12	18	219	59	49	103	234	217	35	23	16	22
14	13	18	176	51	48	78	256	242	32	20	15	30
15	11	18	148	49	44	73	197	213	32	21	13	39
16	12	26	114	51	39	73	285	162	45	23	12	36
17	11	45	89	52	37	124	262	116	75	22	12	30
18	11	51	73	45	36	128	224	90	62	20	12	26
19	11	44	70	45	35	114	171	75	47	19	11	22
20	11	37	72	47	42	99	126	63	38	19	11	22
21	10	32	108	49	48	104	100	56	39	18	10	23
22	9.6	31	162	94	75	157	87	50	61	16	9.6	42
23	9.1	29	482	124	201	155	84	48	53	14	11	58
24	9.1	30	632	135	208	160	76	47	44	20	12	49
25	8.7	51	424	126	174	150	68	47	38	37	11	40
26	8.7	106	282	104	112	122	63	47	37	39	10	36
27	8.3	116	328	133	82	101	56	42	37	33	9.6	32
28	7.5	118	468	249	72	89	53	38	35	27	11	36
29	9.6	128	645	303	------	80	53	40	34	24	13	162
30	33	110	498	312	------	73	51	65	36	85	19	191
31	49	------	322	294	------	87	------	67	------	122	32	------
TOTAL	438.6	1,374	7,249	3,382	2,596	3,732	5,791	2,855	1,840	1,362	778.2	1,690
MEAN	14.1	45.8	234	109	92.7	120	193	92.1	61.3	43.9	25.1	56.3
MAX	49	128	645	312	255	206	693	242	214	122	87	191
MIN	7.5	18	55	45	35	72	51	38	32	14	9.6	22
MEAN≠	15.2	46.9	236	114	82.8	121	194	92.4	61.3	45.0	23.5	60.5
CFSM≠	.39	1.21	6.08	2.94	2.13	3.12	5.00	2.38	1.58	1.16	.61	1.56
IN.≠	.45	1.35	7.01	3.39	2.22	3.60	5.58	2.74	1.76	1.34	.70	1.74

CAL YR 1973 TOTAL 36,003.5 MEAN 98.6 MAX 805 MIN 6.7 MEAN≠ 98.5 CFSM≠ 2.54 IN.≠ 34.48
WTR YR 1974 TOTAL 33,087.8 MEAN 90.7 MAX 693 MIN 7.5 MEAN≠ 91.1 CFSM≠ 2.35 IN.≠ 31.88

≠ Adjusted for change in contents in Stillwater Lake.

01534500 Lackawanna River at Archbald, Pa.

LOCATION.--Lat 41°30'16", long 75°32'33", Lackawanna County, on right bank in Archbald, 0.5 mi (0.8 km) upstream from White Oak Run and Gilmartin Street Bridge.

DRAINAGE AREA.--108 mi^2 (280 km^2).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 889.33 ft (271.068 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 201 ft^3/s (5.69 m^3/s), 25.27 in/yr (642 mm/yr), adjusted for storage since December 1959.

EXTREMES.--Current year: Maximum discharge, 1,790 ft^3/s (50.7 m^3/s) Dec. 21 (gage height, 5.06 ft or 1.542 m); minimum, 33 ft^3/s (0.93 m^3/s) Oct. 25 (gage height, 1.61 ft or 0.491 m).
Period of record: Maximum discharge, 9,510 ft^3/s (269 m^3/s) May 22, 1942 (gage height, 10.58 ft or 3.225 m), from rating curve extended above 2,200 ft^3/s (62.3 m^3/s) on basis of slope-area measurement of peak flow; minimum, 3.0 ft^3/s (0.085 m^3/s) Oct. 9, 11, 1943; minimum daily, 13 ft^3/s (0.368 m^3/s) Nov. 1, 1964.

REMARKS.--Records good. Regulation at low flow by mine pumps above station. Flow regulated since December 1959 by Stillwater Lake about 17 mi (27 km) upstream (see p. 189).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	146	257	561	565	224	270	252	297	234	146	109
2	52	125	224	392	509	221	328	255	311	190	118	192
3	54	141	200	349	434	209	557	240	291	171	103	252
4	52	127	183	312	342	227	987	234	237	214	105	314
5	70	110	231	260	260	329	1,100	214	195	214	113	277
6	56	103	368	234	224	384	849	203	166	187	96	217
7	52	91	400	218	215	378	1,160	198	144	169	84	182
8	50	85	372	191	200	365	939	182	129	146	73	146
9	48	80	599	171	183	407	794	177	120	127	68	125
10	47	74	741	169	169	435	581	190	111	111	68	109
11	46	70	665	206	166	374	529	179	127	90	61	96
12	45	69	575	194	152	336	558	370	109	73	55	88
13	45	67	478	163	146	288	598	667	103	68	52	84
14	46	65	451	152	143	250	645	546	94	66	49	94
15	45	67	376	160	130	229	872	470	92	70	46	94
16	46	103	305	163	117	250	711	382	149	66	46	90
17	44	108	267	163	115	354	610	311	154	58	66	83
18	46	113	228	143	108	321	488	259	139	59	58	79
19	44	110	197	160	113	305	432	226	122	66	43	70
20	43	103	215	146	130	280	359	201	111	63	43	70
21	42	96	1,210	183	127	439	304	184	127	61	43	84
22	40	91	791	294	447	478	271	171	144	55	42	94
23	40	87	903	345	570	444	249	164	131	53	52	105
24	39	96	991	376	478	425	223	156	120	75	46	100
25	38	171	752	342	409	383	203	146	113	77	43	90
26	38	244	746	308	318	337	187	139	111	81	43	83
27	37	267	1,240	523	256	294	174	129	109	86	42	77
28	37	342	1,180	768	231	263	164	122	103	70	43	159
29	55	334	1,190	959	------	242	156	136	107	75	45	291
30	152	298	959	797	------	235	154	146	115	169	61	321
31	130	------	719	687	------	262	------	146	------	177	66	------
TOTAL	1,629	3,983	18,013	10,089	7,257	9,968	15,452	7,395	4,381	3,421	2,019	4,175
MEAN	52.5	133	581	325	259	322	515	239	146	110	65.1	139
MAX	152	342	1,240	959	570	478	1,160	667	311	234	146	321
MIN	37	65	183	143	108	209	154	122	92	53	42	70
MEAN≠	53.6	134	583	330	249	323	516	239	146	111	63.5	143
CFSM≠	.50	1.24	5.40	3.06	2.31	2.99	4.78	2.21	1.35	1.03	.59	1.32
IN.≠	.58	1.38	6.23	3.53	2.40	3.45	5.33	2.55	1.51	1.19	.68	1.47

CAL YR 1973 TOTAL 100,953 MEAN 277 MAX 1,850 MIN 37 MEAN≠ 277 CFSM≠ 2.56 IN.≠ 34.71
WTR YR 1974 TOTAL 87,782 MEAN 240 MAX 1,240 MIN 37 MEAN≠ 240 CFSM≠ 2.22 IN.≠ 30.30

≠ Adjusted for change in contents in Stillwater Lake.

01536000 Lackawanna River at Old Forge, Pa.

LOCATION.--Lat 41°21'33", long 75°44'41", Lackawanna County, on right bank 150 ft (46 m) upstream from Delaware, Lackawanna and Western Railroad Bridge on Old Forge, and 0.5 mi (0.8 km) upstream from St. Johns Creek.

DRAINAGE AREA.--332 mi^2 (860 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 595.26 ft (181.435 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 503 ft^3/s (14.2 m^3/s), 20.57 in/yr (522 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,660 ft^3/s (189 m^3/s) Dec. 21 (gage height, 7.29 ft or 2.222 m); minimum daily, 62 ft^3/s (1.76 m^3/s) Aug. 20, 21, 25-27.
Period of record: Maximum discharge, 31,000 ft^3/s (878 m^3/s) Aug. 19, 1955 (gage height, 20.05 ft or 6.111 m, from floodmark), from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of slope-area measurement at gage height, 15.30 ft or 4.663 m and of peak flow; minimum, 20 ft^3/s (0.57 m^3/s) Sept. 21, 1964 (gage-height, 1.28 ft or 0.390 m).

REMARKS.--Records fair prior to June 28 and poor thereafter. Flow regulated since December 1959 by Stillwater Lake about 33 mi (53 km) upstream (see p.189).

REVISIONS (WATER YEARS).--WSP 1432: 1939(M), 1940, 1945.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	242	520	1,280	1,250	520	800	597	462	360	230	170
2	101	229	460	1,010	1,080	520	956	507	474	310	190	300
3	103	209	400	874	953	487	1,600	493	425	260	170	380
4	94	210	340	801	806	507	2,650	487	345	320	160	490
5	176	191	420	651	615	626	2,830	425	273	320	180	420
6	108	179	500	540	500	710	2,300	407	237	270	150	320
7	96	167	640	480	460	679	2,070	401	207	240	130	260
8	96	158	586	420	420	726	1,820	372	187	210	110	230
9	96	149	1,140	380	390	1,090	1,930	361	172	180	105	190
10	92	141	1,530	390	360	1,310	1,550	413	165	150	105	160
11	87	135	1,230	430	340	1,120	1,320	389	224	120	90	130
12	87	133	1,010	410	320	974	1,290	611	162	100	82	110
13	85	130	837	350	310	825	1,270	1,770	152	90	76	110
14	92	127	797	320	290	702	1,220	1,280	142	86	72	130
15	83	134	682	340	270	619	1,620	1,060	139	94	68	140
16	99	203	606	370	240	710	1,380	914	278	86	68	130
17	83	174	568	380	230	1,210	1,200	720	245	76	98	120
18	87	170	486	334	220	947	1,020	620	187	78	80	110
19	85	174	426	412	230	876	974	520	165	86	68	100
20	81	163	523	362	300	817	876	450	159	82	62	100
21	77	159	4,700	592	290	1,240	742	390	155	80	62	120
22	77	161	2,740	1,110	783	1,550	656	350	232	72	64	130
23	77	160	2,010	1,160	1,560	1,240	626	350	169	70	74	150
24	75	180	1,820	1,360	1,010	1,110	554	345	165	96	66	140
25	73	330	1,510	1,120	887	947	500	298	176	100	62	130
26	69	490	1,870	979	718	817	449	268	187	110	62	120
27	71	530	3,610	1,240	590	734	401	245	145	110	62	110
28	68	700	2,960	1,690	520	641	367	228	140	94	64	200
29	133	660	2,340	2,280	------	590	350	241	150	100	70	410
30	386	580	1,910	1,780	------	619	345	245	160	250	90	460
31	238	------	1,510	1,510	------	825	------	232	------	290	96	------
TOTAL	3,269	7,368	40,681	25,355	15,942	26,288	35,666	15,989	6,479	4,890	3,066	6,070
MEAN	105	246	1,312	818	569	848	1,189	516	216	158	98.9	202
MAX	386	700	4,700	2,280	1,560	1,550	2,830	1,770	474	360	230	490
MIN	68	127	340	320	220	487	345	228	139	70	62	100
MEAN≠	106	247	1,314	823	559	849	1,190	516	216	159	97.3	206
CFSM≠	.32	.74	3.96	2.48	1.68	2.56	3.58	1.55	.65	.48	.29	.62
IN.≠	.37	.83	4.56	2.86	1.75	2.95	3.99	1.79	.72	.55	.33	.69

CAL YR 1973 TOTAL 214,900 MEAN 589 MAX 4,700 MIN 68 MEAN≠ 589 CFSM≠ 1.77 IN.≠ 24.05
WTR YR 1974 TOTAL 191,063 MEAN 523 MAX 4,700 MIN 62 MEAN≠ 523 CFSM≠ 1.58 IN.≠ 21.39

NOTE.--Doubtful or no gage-height record June 28 to Sept. 30.
≠ Adjusted for change in contents in Stillwater Lake.

01536500 Susquehanna River at Wilkes-Barre, Pa.

LOCATION.--Lat 41°15'03", long 75°52'52", Luzerne County, on left bank at foot of West Union Street, 800 ft (244 m) downstream from North Street Bridge, and 1.6 mi (2.6 km) upstream from Toby Creek.

DRAINAGE AREA.--9,960 mi^2 (25,800 km^2), approximately.

PERIOD OF RECORD.--April 1899 to current year. Monthly discharge only for some periods, published in WSP 1302. Gage-height records collected at same site since November 1890 contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 512.07 ft (156.079 m) above mean sea level. See WSP 1722 for history of changes prior to Mar. 23, 1949.

AVERAGE DISCHARGE.--75 years, 13,170 ft^3/s (373 m^3/s), 17.96 in/yr (456 mm/yr).

EXTREMES.--Current year: Maximum discharge, 93,400 ft^3/s (2,650 m^3/s) Dec. 28 (gage height, 18.24 ft or 5,560 m); minimum, 1,620 ft^3/s (45.9 m^3/s) Aug. 27 (gage height, -0.12 ft or -0.037 m).

Period of record: Maximum discharge, 345,000 ft^3/s (9,770 m^3/s) June 24, 1972 (gage height, 40.91 ft or 12.469 m, from floodmark), from rating curve extended above 200,000 ft^3/s (5,664 m^3/s) on basis of slope-area measurement of peak flow; minimum, 528 ft^3/s (15.0 m^3/s) Sept. 27, 1964 (gage height, -1.78 ft or -0.543 m).

Maximum stage known prior to 1899, 33.1 ft or 10.1 m Mar. 18, 1865, from floodmarks (discharge, about 232,000 ft^3/s or 6,570 m^3/s).

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

REVISIONS (WATER YEARS).--WSP 109: 1900-1905. WSP 351: Drainage area. WSP 781: 1902 (M). WSP 1302: 1916. WSP 1432: 1901-5, 1907, 1909, 1913, 1937 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,070	8,970	10,000	40,400	36,200	17,300	20,500	11,200	9,160	13,600	3,420	3,380
2	2,810	6,440	9,070	33,000	30,100	16,900	28,300	11,300	9,630	15,000	3,620	5,650
3	2,680	5,460	8,230	27,600	24,800	17,500	51,800	11,500	7,770	11,600	4,670	7,010
4	2,610	5,080	7,330	22,800	20,800	18,200	71,600	11,300	6,950	7,930	4,320	8,980
5	2,640	4,740	7,090	19,500	18,100	24,900	73,700	10,800	6,220	6,920	3,850	8,710
6	2,700	4,470	13,100	16,500	15,400	38,900	70,100	10,300	5,670	14,500	3,360	10,600
7	2,650	4,120	23,900	14,500	13,500	41,700	58,200	9,720	5,190	14,300	3,080	10,600
8	2,580	3,770	21,500	12,600	12,600	35,700	46,300	9,140	4,800	10,900	2,950	8,010
9	2,520	3,580	20,900	11,700	12,000	35,200	41,100	9,000	4,470	8,560	2,880	6,250
10	2,470	3,410	40,800	10,600	11,000	39,200	39,000	9,780	4,160	7,210	2,690	5,250
11	2,370	3,250	47,900	9,630	10,000	38,000	35,600	11,100	4,160	6,150	2,500	4,620
12	2,310	3,040	37,500	9,000	9,600	30,600	38,100	13,500	4,080	5,280	2,300	4,070
13	2,310	2,920	28,100	8,700	9,800	24,900	48,300	20,700	4,000	4,700	2,150	3,730
14	2,310	2,810	22,300	8,500	10,000	20,700	50,000	37,600	4,040	4,300	2,060	4,140
15	2,260	2,730	19,200	8,400	10,000	17,400	52,900	34,100	3,960	4,110	2,090	4,040
16	2,230	2,880	17,200	8,400	9,200	15,600	62,800	26,100	4,000	3,840	2,140	3,560
17	2,140	3,690	15,000	9,460	8,800	16,800	49,400	20,500	4,780	3,710	2,000	3,910
18	2,050	3,960	12,000	9,200	8,460	17,800	38,500	17,500	6,690	3,590	1,920	4,490
19	2,040	3,980	11,000	8,800	7,940	18,600	30,800	20,200	6,640	3,660	1,820	4,020
20	2,020	4,100	10,000	8,100	8,000	18,100	26,700	20,400	5,560	3,450	1,750	3,600
21	2,020	3,960	45,000	8,600	8,110	17,800	24,000	16,100	4,850	3,230	1,700	3,590
22	2,020	3,900	73,700	23,500	10,300	23,900	20,500	13,300	4,970	2,900	1,690	5,770
23	2,020	3,670	60,400	32,200	42,700	24,400	18,400	11,700	4,760	2,660	1,790	6,060
24	2,020	3,540	46,700	38,300	57,900	22,800	17,200	10,600	4,300	2,740	1,840	6,880
25	2,010	3,670	34,200	43,200	39,300	23,000	16,700	10,100	4,760	2,830	1,730	8,460
26	1,930	5,630	30,400	34,100	29,200	21,300	15,900	9,940	5,210	3,010	1,660	6,930
27	1,900	6,900	54,500	30,500	22,000	18,900	14,400	9,600	4,700	3,140	1,700	5,720
28	1,850	8,870	88,300	42,600	19,000	16,600	12,700	9,030	4,530	3,100	1,830	5,500
29	1,840	10,400	79,200	58,400	------	15,700	11,300	8,200	6,290	3,310	1,830	6,270
30	2,520	10,600	63,400	54,500	------	14,800	10,200	7,970	6,380	4,440	2,280	6,160
31	4,140	------	50,700	45,000	------	15,600	------	7,920	------	4,340	2,850	------
TOTAL	73,040	144,540	1,008.6M	708,290	514,810	718,800	1,095.0M	440,200	162,680	189,010	76,470	175,960
MEAN	2,356	4,818	32,540	22,850	18,390	23,190	36,500	14,200	5,423	6,097	2,467	5,865
MAX	4,140	10,600	88,300	58,400	57,900	41,700	73,700	37,600	9,630	15,000	4,670	10,600
MIN	1,840	2,730	7,090	8,100	7,940	14,800	10,200	7,920	3,960	2,660	1,660	3,380
CFSM	.24	.48	3.27	2.29	1.85	2.33	3.66	1.43	.54	.61	.25	.59
IN.	.27	.54	3.77	2.65	1.92	2.68	4.09	1.64	.61	.71	.29	.66

CAL YR 1973 TOTAL 5,453,470 MEAN 14,940 MAX 88,300 MIN 1,840 CFSM 1.50 IN 20.37
WTR YR 1974 TOTAL 5,307,420 MEAN 14,540 MAX 88,300 MIN 1,660 CFSM 1.46 IN 19.82

PEAK DISCHARGE (BASE, 82,000 CFS).--Dec. 28 (1500) 93,400 cfs (18.24 ft).

01537000 Toby Creek at Luzerne, Pa.

LOCATION.--Lat 41°16'57", long 75°53'46", Luzerne County, on right bank at Luzerne, 150 ft (46 m) upstream from bridge on U.S. Highway 309, 0.5 mi (0.8 km) upstream from inlet works of flood basin, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--32.4 mi^2 (83.9 km^2).

PERIOD OF RECORD.--August 1941 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 574.60 ft (175.138 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 44.5 ft^3/s (1.26 m^3/s), 18.65 in/yr (474 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 649 ft^3/s (18.4 m^3/s) Dec. 21 (gage height, 2.50 ft or 0.762 m); minimum, 2.8 ft^3/s (0.079 m^3/s) Aug. 15 (gage height, 0.24 ft or 0.073 m).
Period of record: Maximum discharge, 3,390 ft^3/s (96.0 m^3/s) June 22, 1972 (gage height, 6.07 ft or 1.850 m, in gage well, 7.59 ft or 2.313 m outside, from floodmarks), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.1 ft^3/s (0.003 m^3/s) Sept. 12, 1944; minimum daily, 0.5 ft^3/s (0.014 m^3/s) Sept. 20, Oct. 8, 1946.

REMARKS.--Records poor. Some regulation by Huntsville Reservoir 5.9 mi (9.5 km) upstream (usable capacity, 256,900,000 ft^3 or 7,270,000 m^3). Diversion from reservoir for municipal supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	16	15	63	94	48	135	40	27	46	7.8	58
2	8.5	13	15	51	70	46	198	26	19	16	7.8	54
3	7.7	13	14	46	60	46	279	33	16	12	9.5	110
4	8.0	13	14	44	54	48	309	29	15	9.5	9.0	77
5	11	12	50	38	48	51	297	25	13	8.8	7.4	33
6	8.8	13	48	35	42	45	229	26	13	7.8	7.1	24
7	8.7	13	30	32	38	42	156	25	13	7.7	6.7	23
8	7.9	12	24	29	35	67	123	24	12	6.6	6.7	19
9	7.8	13	132	28	32	150	242	35	13	6.7	6.8	16
10	32	12	100	31	29	181	182	37	13	7.5	7.4	16
11	13	12	57	33	26	118	146	28	19	7.8	6.3	13
12	12	11	43	31	27	95	120	79	14	7.2	5.9	12
13	11	11	37	30	26	73	103	113	12	6.9	6.1	27
14	12	11	40	28	25	58	90	70	9.7	7.0	5.7	47
15	12	12	31	36	24	51	87	56	9.6	8.7	5.3	26
16	12	17	24	35	23	73	68	46	12	8.6	5.4	20
17	13	13	23	39	21	92	56	39	15	7.8	5.6	18
18	13	13	21	31	20	62	50	34	11	7.6	6.7	16
19	13	12	20	32	25	56	62	28	9.2	8.4	6.0	11
20	12	10	41	33	31	52	53	25	9.6	8.2	5.9	15
21	12	11	440	143	25	149	45	23	14	8.0	5.7	60
22	12	12	166	183	152	140	41	22	13	7.5	5.7	38
23	12	11	100	171	141	97	41	25	14	6.1	12	27
24	12	13	71	162	83	83	37	24	13	12	8.3	20
25	11	22	56	127	71	66	32	22	21	8.2	7.6	17
26	11	20	167	108	58	57	29	22	18	7.5	6.7	14
27	12	16	291	167	49	52	26	20	14	7.8	25	12
28	12	22	191	203	46	46	27	18	15	8.5	29	66
29	17	20	120	238	------	45	26	19	16	23	11	48
30	30	17	92	160	------	61	27	18	23	38	33	39
31	14	------	70	123	------	111	------	17	------	12	18	------
TOTAL	387.0	416	2,543	2,510	1,375	2,361	3,316	1,048	436.1	345.4	297.1	976
MEAN	12.5	13.9	82.0	81.0	49.1	76.2	111	33.8	14.5	11.1	9.58	32.5
MAX	32	22	440	238	152	181	309	113	27	46	33	110
MIN	7.7	10	14	28	20	42	26	17	9.2	6.1	5.3	11
(/)	6.24	5.88	6.64	6.34	6.52	6.59	6.24	6.74	6.96	8.09	7.74	6.96
MEAN≠	18.7	19.8	88.6	87.3	55.6	82.8	117	40.5	21.5	19.2	17.3	39.5
CFSM≠	.58	.61	2.73	2.69	1.72	2.56	3.61	1.25	.66	.59	.53	1.22
IN.≠	.67	.68	3.15	3.10	1.79	2.95	4.03	1.44	.74	.68	.61	1.36

CAL YR 1973 TOTAL 15,783.6 MEAN 43.2 MAX 440 MIN 7.7 MEAN≠ 49.6 CFSM≠ 1.53 IN.≠ 20.76
WTR YR 1974 TOTAL 16,010.6 MEAN 43.9 MAX 440 MIN 5.3 MEAN≠ 50.6 CFSM≠ 1.56 IN.≠ 21.20

PEAK DISCHARGE (BASE, 630 CFS).--Dec. 21 (0915) 649 cfs (2.50 ft).

/ Diversion, equivalent in cubic feet per second, for municipal supply; furnished by Pennsylvania Gas and Water Company.
≠ Adjusted for diversion.

01537500 Solomon Creek at Wilkes-Barre, Pa.

LOCATION.--Lat 41°13'39", long 75°54'17", Luzerne County, on right bank at southwest city limits of Wilkes-Barre, 20 ft (6 m) downstream from bridge on Central Railroad of Pennsylvania, 0.4 mi (0.6 km) downstream from Spring Run and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--15.7 mi^2 (40.7 km^2).

PERIOD OF RECORD.--March 1940 to current year. Monthly discharge only for March 1940, published in WSP 1302.

GAGE.--Water-stage recorder and broad-crested weir. Altitude of gage is 545 ft (166 m), from topographic map.

AVERAGE DISCHARGE.--34 years, 20.2 ft^3/s (0.57 m^3/s), 17.47 in/yr (444 mm/yr).

EXTREMES.--Current year: Maximum discharge, 294 ft^3/s (8.33 m^3/s) Dec. 21 (gage height, 3.73 ft or 1.137 m); minimum, 0.29 ft^3/s (0.008 m^3/s) Aug. 21 (gage height, 0.84 ft or 0.256 m).

Period of record: Maximum discharge, 2,450 ft^3/s (69.4 m^3/s) Aug. 18, 1955 (gage height, 9.83 ft or 2.996 m), from rating curve extended above 380 ft^3/s (10.8 m^3/s) on basis of computation of peak flow through culvert; minimum, 0.13 ft^3/s (0.004 m^3/s) Sept. 16, Oct. 20, 1969; minimum daily, 0.50 ft^3/s (0.014 m^3/s) Sept. 23, 1969; minimum gage height, 0.14 ft (0.043 m) Aug. 16, 25, 1940.

Maximum stage known, 11.4 ft (3.47 m) Sept. 16, 1933, from floodmark.

REMARKS.--Records fair. Regulation by mine pumps above station.

REVISIONS (WATER YEARS).--WSP 1272: Drainage area. WSP 1382: 1940, 1942, 1944(P), 1945-47, 1949(M), 1951-52, 1953-54(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	6.6	12	33	23	10	36	12	14	16	1.1	38
2	2.4	5.9	13	21	18	11	43	5.5	4.5	4.6	1.3	62
3	2.6	7.2	10	17	15	10	71	9.3	4.0	4.0	4.6	95
4	2.2	8.1	9.7	14	13	8.7	109	8.1	3.7	3.7	2.5	77
5	2.8	5.7	44	11	11	11	136	7.8	3.4	3.3	2.0	51
6	2.9	5.5	40	9.6	10	8.4	102	8.4	2.9	3.0	1.3	37
7	3.2	5.3	34	9.0	9.0	8.1	69	6.4	2.8	2.5	1.2	32
8	1.8	4.6	31	8.2	8.1	25	52	6.9	2.6	2.0	1.2	21
9	1.8	4.8	89	8.0	7.0	45	66	5.9	2.3	1.8	2.9	16
10	1.7	5.3	70	8.4	5.6	59	50	9.7	2.0	1.6	1.4	12
11	1.7	5.9	51	9.3	4.3	45	42	7.2	2.5	1.6	1.0	10
12	1.8	3.4	39	8.7	5.9	39	35	33	2.0	1.4	.95	8.4
13	2.0	3.7	32	8.2	3.9	28	30	32	2.3	1.1	1.0	16
14	2.6	3.4	32	7.8	3.2	21	26	31	1.7	.95	.95	23
15	1.5	4.3	24	8.4	3.0	17	23	25	1.5	3.6	.75	11
16	1.6	5.0	21	8.4	2.8	41	21	22	2.0	1.4	.75	9.7
17	1.3	4.5	18	8.4	2.7	39	18	16	4.3	.90	3.2	9.0
18	1.4	5.3	16	8.0	2.6	30	17	15	1.5	.75	.95	8.4
19	1.5	4.6	15	7.6	5.9	31	19	13	1.2	2.0	.70	5.9
20	1.4	2.4	43	8.1	3.9	23	16	10	1.4	.90	.65	7.5
21	2.2	3.2	214	46	2.9	54	14	10	2.4	.80	.53	29
22	1.3	5.0	105	48	22	46	11	9.7	1.7	.80	.80	18
23	1.2	2.3	70	48	18	39	12	13	2.1	.80	1.1	11
24	1.3	4.6	48	49	15	33	9.3	11	1.6	2.6	2.9	9.0
25	1.2	10	39	42	13	24	9.3	7.8	7.8	1.3	.95	8.1
26	1.2	7.2	84	37	14	19	6.4	6.2	2.6	1.4	.80	6.9
27	1.3	7.8	95	41	16	15	7.2	5.5	2.3	2.0	7.5	5.7
28	1.9	13	84	43	12	15	6.6	5.5	2.8	.95	10	32
29	10	12	61	44	------	12	4.6	5.3	4.6	12	8.7	21
30	17	12	48	35	------	21	6.6	4.8	10	17	45	16
31	5.3	------	37	31	------	35	------	4.2	------	1.7	16	------
TOTAL	84.2	178.6	1,528.7	686.1	270.8	823.2	1,068.0	367.2	100.5	98.45	124.68	706.6
MEAN	2.72	5.95	49.3	22.1	9.67	26.6	35.6	11.8	3.35	3.18	4.02	23.6
MAX	17	13	214	49	23	59	136	33	14	17	45	95
MIN	1.2	2.3	9.7	7.6	2.6	8.1	4.6	4.2	1.2	.75	.53	5.7
CFSM	.17	.38	3.14	1.41	.62	1.69	2.27	.75	.21	.20	.26	1.50
IN.	.20	.42	3.62	1.63	.64	1.95	2.53	.87	.24	.23	.30	1.67

CAL YR 1973 TOTAL 5,879.26 MEAN 16.1 MAX 214 MIN .49 CFSM 1.03 IN 13.93
WTR YR 1974 TOTAL 6,037.03 MEAN 16.5 MAX 214 MIN .53 CFSM 1.05 IN 14.30

PEAK DISCHARGE (BASE, 320 CFS).--No peak above base.

01538000 Wapwallopen Creek near Wapwallopen, Pa.

LOCATION.--Lat 41°03'33", long 76°05'38", Luzerne County, on left bank 100 ft (30 m) upstream from Harts Bridge, 2.2 mi (3.5 km) southeast of Wapwallopen and 3.7 mi (6.0 km) upstream from mouth.

DRAINAGE AREA.--43.8 mi^2 (113.4 km^2).

PERIOD OF RECORD.--October 1919 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 752.41 ft (229.33 m) above mean sea level (Penn Central Railroad benchmark). Prior to Mar. 15, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--55 years, 63.1 ft^3/s (1.79 m^3/s), 19.56 in/yr (497 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,400 ft^3/s (39.6 m^3/s) Dec. 21 (gage height, 6.30 ft or 1.920 m), from rating curve extended above 220 ft^3/s (6.23 m^3/s) as explained below: minimum, 9.0 ft^3/s (0.25 m^3/s) Aug. 21, 22, 26 (gage height, 1.32 ft or 0.402 m).

Period of record: Maximum discharge, 5,410 ft^3/s (153 m^3/s) June 22, 1972 (gage height, 11.04 ft or 3.365 m), from rating curve extended above 1,300 ft^3/s (36.8 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 1.1 ft^3/s (0.031 m^3/s) Aug. 4, 1955 (gage height, 0.44 ft or 0.134 m); minimum daily, 1.5 ft^3/s (0.042 m^3/s) Aug. 31, 1953, Aug. 5, 1955.

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

REVISIONS (WATER YEARS).--WSP 1302: 1926(M), 1929(M), 1938(M). WSP 1432: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	44	40	151	109	65	136	71	92	130	17	53
2	29	40	37	123	100	63	225	50	57	54	14	278
3	34	37	37	109	91	62	321	53	45	38	21	213
4	29	33	37	103	85	64	454	51	40	31	34	225
5	30	32	81	90	72	65	526	43	36	27	34	112
6	27	32	114	82	66	59	401	41	32	31	22	79
7	24	31	74	74	58	55	268	43	30	24	18	82
8	24	31	64	68	54	71	211	39	29	22	16	62
9	24	30	226	62	50	137	308	39	27	20	15	51
10	24	29	193	66	46	195	234	47	25	23	18	46
11	23	27	132	76	44	128	184	41	28	31	14	41
12	22	27	109	76	47	113	157	74	25	21	13	36
13	22	28	96	68	45	98	141	189	25	18	14	39
14	21	28	112	62	43	88	127	95	24	16	14	65
15	20	28	89	58	40	81	139	81	25	18	13	41
16	21	36	75	54	38	127	109	72	23	18	12	33
17	20	32	72	56	36	184	95	70	37	16	12	30
18	20	28	68	50	34	112	86	64	27	15	13	29
19	20	27	66	54	36	106	89	54	22	15	11	27
20	19	27	180	50	50	98	82	50	23	14	11	25
21	18	26	1,060	149	45	167	71	48	26	12	9.5	36
22	18	26	500	220	108	167	66	46	30	11	9.5	63
23	18	25	300	180	149	121	68	54	27	11	11	38
24	18	26	213	178	76	110	62	54	31	20	11	31
25	18	36	167	143	68	97	57	65	32	18	11	29
26	18	46	371	128	66	89	52	47	40	14	9.5	28
27	18	36	477	165	66	82	49	42	25	14	10	26
28	18	49	355	163	58	76	45	45	24	13	44	50
29	28	55	251	202	------	72	43	41	35	15	37	85
30	106	44	202	143	------	82	42	40	35	76	103	61
31	49	------	163	125	------	120	------	36	------	24	62	------
TOTAL	809	996	5,961	3,328	1,780	3,154	4,848	1,785	977	810	653.5	2,014
MEAN	26.1	33.2	192	107	63.6	102	162	57.6	32.6	26.1	21.1	67.1
MAX	106	55	1,060	220	149	195	526	189	92	130	103	278
MIN	18	25	37	50	34	55	42	36	22	11	9.5	25
CFSM	.60	.76	4.38	2.44	1.45	2.33	3.70	1.32	.74	.60	.48	1.53
IN.	.69	.85	5.06	2.83	1.51	2.68	4.12	1.52	.83	.69	.56	1.71

CAL YR 1973 TOTAL 26,694.0 MEAN 73.1 MAX 1,060 MIN 12 CFSM 1.67 IN 22.67
WTR YR 1974 TOTAL 27,115.5 MEAN 74.3 MAX 1,060 MIN 9.5 CFSM 1.70 IN 23.03

PEAK DISCHARGE (BASE, 580 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1330	6.30	1,400	4- 5	1700	4.85	798
12-27	0100	4.49	672				

01539000 Fishing Creek near Bloomsburg, Pa.

LOCATION.--Lat 41°04'41", long 76°25'53", Columbia County, on left bank 25 ft (8 m) downstream from highway bridge, 0.8 mi (1.3 km) downstream from Green Creek, 0.9 mi (1.4 km) west of Orangeville, and 5.5 mi (8.8 km) north of Bloomsburg.

DRAINAGE AREA.--274 mi^2 (710 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 540.68 ft (164.80 m) above mean sea level (Reading Company benchmark).

AVERAGE DISCHARGE.--36 years, 471 ft^3/s (13.3 m^3/s), 23.34 in/yr (593 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,250 ft^3/s (149 m^3/s) Dec. 21 (gage height, 7.28 ft or 2.219 m); minimum, 51 ft^3/s (1.44 m^3/s) Aug. 27 (gage height, 1.86 ft or 0.567 m).
Period of record: Maximum discharge, 30,900 ft^3/s (875 m^3/s) June 22, 1972 (gage height, 15.18 ft or 4.627 m, from floodmark in gage shelter), from rating curve extended above 9,500 ft^3/s (269 m^3/s) on basis of contracted-opening measurement at gage height, 12.08 ft or 3.682 m; minimum, 7.6 ft^3/s (0.22 m^3/s) July 19, 1939; minimum gage height, 1.54 ft or 0.469 m Aug. 11, 1966; minimum daily discharge, 8.4 ft^3/s (0.24 m^3/s) Sept. 12, 13, 18, 19, 1964.

REMARKS.--Records fair. Some diurnal fluctuation at low flow caused by mill above station.

REVISIONS (WATER YEARS).--WSP 1202: 1939-42, 1948(P), 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	519	526	999	1,070	505	1,490	355	531	1,850	190	553
2	200	535	454	816	875	481	1,610	294	395	1,160	156	1,400
3	208	451	413	640	620	446	2,030	301	296	813	179	1,270
4	190	392	382	560	500	493	2,600	312	270	625	275	1,520
5	271	355	642	500	420	605	2,270	272	236	591	215	980
6	275	328	1,730	460	380	640	1,720	261	209	535	172	695
7	219	303	1,310	420	340	605	1,310	264	190	392	146	568
8	197	281	1,010	370	310	685	1,070	246	178	324	131	455
9	186	265	1,700	320	280	1,380	1,450	332	174	279	119	378
10	179	248	2,450	340	260	2,290	1,290	633	163	255	111	332
11	169	230	1,670	380	250	1,740	1,080	488	258	238	105	292
12	159	217	1,250	330	262	1,370	960	880	196	202	95	260
13	153	208	1,000	290	254	1,080	876	2,250	162	179	90	237
14	162	202	963	280	254	886	780	1,490	141	163	86	1,080
15	165	189	794	352	208	722	956	1,100	129	165	77	637
16	149	258	637	371	186	659	808	856	815	155	72	453
17	140	251	540	425	180	765	670	728	1,000	135	74	364
18	134	209	460	319	170	567	585	629	685	125	74	341
19	131	194	420	389	160	520	571	482	476	122	65	287
20	125	183	513	367	180	485	551	411	409	115	60	255
21	119	172	4,140	890	219	806	467	363	421	103	58	583
22	111	169	3,180	1,900	902	1,160	433	332	458	95	55	1,170
23	105	165	1,970	1,590	1,640	941	456	336	373	92	63	772
24	103	168	1,390	1,390	966	823	408	344	340	133	77	584
25	100	305	1,060	1,180	775	673	370	343	308	137	61	486
26	95	497	1,600	1,010	619	589	339	279	328	117	55	433
27	93	413	3,440	1,290	518	533	313	250	287	115	53	377
28	88	531	2,820	1,750	499	481	293	234	257	101	619	389
29	119	695	1,980	2,320	------	445	278	224	411	120	406	665
30	825	601	1,550	1,750	------	566	265	222	434	578	720	652
31	545	------	1,200	1,360	------	1,370	------	200	------	279	802	------
TOTAL	5,934	9,534	43,194	25,358	13,297	25,311	28,299	15,711	10,530	10,293	5,461	18,468
MEAN	191	318	1,393	818	475	816	943	507	351	332	176	616
MAX	825	695	4,140	2,320	1,640	2,290	2,600	2,250	1,000	1,850	802	1,520
MIN	88	165	382	280	160	445	265	200	129	92	53	237
CFSM	.70	1.16	5.08	2.99	1.73	2.98	3.44	1.85	1.28	1.21	.64	2.25
IN.	.81	1.29	5.86	3.44	1.81	3.44	3.84	2.13	1.43	1.40	.74	2.51

CAL YR 1973 TOTAL 217,632 MEAN 596 MAX 4,140 MIN 50 CFSM 2.18 IN 29.55
WTR YR 1974 TOTAL 211,390 MEAN 579 MAX 4,140 MIN 53 CFSM 2.11 IN 28.70

PEAK DISCHARGE (BASE, 4,000 CFS).--Dec. 21 (1530) 5,250 cfs (7.28 ft).

01540200 Trexler Run near Ringtown, Pa.

LOCATION.--Lat 40°51'10", long 76°16'48", Schuylkill County, at bridge on Legislative Route 53064, 1.9 mi (3.1 km) upstream from mouth and 2.5 mi (4.0 km) west of Ringtown.

DRAINAGE AREA.--1.77 mi^2 (4.58 km^2).

PERIOD OF RECORD.--Occasional discharge measurements and annual maximum, water years 1959-63. August 1963 to current year.

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

AVERAGE DISCHARGE.--11 years, 1.96 ft^3/s (0.056 m^3/s), 15.04 in/yr (382 mm/yr).

EXTREMES.--Current year: Maximum discharge, 53 ft^3/s (1.50 m^3/s) Dec. 21 (gage height, 2.68 ft or 0.817 m); minimum daily, 0.36 ft^3/s (0.010 m^3/s) Aug. 21, 22.
Period of record: Maximum discharge, 487 ft^3/s (13.8 m^3/s) June 22, 1972 (gage height, 5.15 ft or 1.570 m), from rating curve extended above 40 ft^3/s (1.13 m^3/s) on basis of contracted-opening and flow-over-road measurement of peak flow; no flow for many days.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	1.0	.74	6.4	4.7	2.8	4.8	1.8	2.5	7.8	.74	1.1
2	1.0	.90	.74	5.1	4.1	2.5	7.2	1.6	1.8	5.3	.66	5.8
3	1.0	.84	.79	4.3	3.6	2.4	10	1.8	1.6	4.3	.84	4.6
4	.84	.84	.84	4.0	3.2	2.2	15	1.5	1.5	3.2	1.6	4.7
5	.95	.90	2.6	3.4	2.8	2.2	23	1.4	1.4	2.6	1.4	2.2
6	.79	.84	2.4	3.2	2.5	2.0	15	1.4	1.4	2.2	.90	1.5
7	.74	.84	1.9	2.8	2.2	2.0	9.0	1.4	1.3	1.8	.65	1.8
8	.74	.84	2.0	2.4	2.0	3.8	7.2	1.2	1.3	1.5	.60	1.4
9	.74	.79	9.5	2.2	1.8	6.3	10	1.4	1.2	1.4	.56	1.2
10	.84	.79	7.6	2.2	1.7	5.8	8.2	1.6	1.1	1.3	.78	.98
11	.70	.74	6.6	2.4	1.5	5.6	6.6	1.5	1.2	1.1	.64	.86
12	.66	.74	5.6	2.2	1.6	5.3	6.0	2.6	1.1	.95	.54	.80
13	.64	.74	4.9	1.9	1.5	4.7	5.3	7.0	1.0	.95	.58	.88
14	.62	.70	5.6	1.7	1.4	4.1	4.9	4.3	.90	1.0	.58	2.8
15	.62	.70	3.8	1.6	1.3	3.6	4.3	3.7	.79	.90	.50	2.5
16	.62	.79	3.4	1.6	1.3	5.2	3.8	3.2	1.1	.79	.50	2.0
17	.62	.70	3.2	1.6	1.2	4.5	3.5	2.9	1.4	.79	1.2	1.8
18	.62	.66	2.8	1.5	1.1	3.5	3.2	2.8	1.1	.90	1.2	1.7
19	.58	.70	2.4	1.5	1.2	3.4	3.2	2.6	.84	.74	.50	1.6
20	.58	.66	6.4	1.5	1.9	3.2	2.9	2.5	.90	.62	.42	1.4
21	.55	.62	41	4.8	1.5	5.3	2.6	2.4	.95	.55	.36	1.5
22	.55	.62	21	5.6	6.0	4.0	2.5	2.4	.84	.46	.36	1.3
23	.55	.58	14	5.8	3.6	3.8	2.5	2.9	1.8	.46	.42	1.1
24	.55	.66	9.8	5.6	2.9	3.8	2.2	2.4	1.1	.89	.84	1.0
25	.52	.74	7.6	5.3	3.2	3.4	2.1	2.0	1.1	.62	.96	.95
26	.52	.70	15	5.3	2.8	3.2	2.0	1.9	.95	.55	.96	.95
27	.52	.66	19	6.4	2.5	2.9	1.9	2.1	.84	.46	.90	.89
28	.52	1.1	16	7.3	2.5	2.7	1.9	2.0	1.6	.46	1.2	1.1
29	1.3	.89	11	6.6	------	2.5	1.8	1.9	1.7	2.2	1.1	1.3
30	1.7	.74	9.2	6.0	------	3.0	1.8	1.8	9.2	3.5	2.2	1.0
31	.90	------	7.6	5.3	------	4.2	------	1.7	------	1.0	1.3	------
TOTAL	23.03	23.02	245.01	117.5	67.6	113.9	174.4	71.7	45.51	51.29	25.99	52.71
MEAN	.74	.77	7.90	3.79	2.41	3.67	5.81	2.31	1.52	1.65	.84	1.76
MAX	1.7	1.1	41	7.3	6.0	6.3	23	7.0	9.2	7.8	2.2	5.8
MIN	.52	.58	.74	1.5	1.1	2.0	1.8	1.2	.79	.46	.36	.80
CFSM	.42	.44	4.46	2.14	1.36	2.07	3.28	1.31	.86	.93	.47	.99
IN.	.48	.48	5.15	2.47	1.42	2.39	3.67	1.51	.96	1.08	.55	1.11

CAL YR 1973 TOTAL 940.91 MEAN 2.58 MAX 41 MIN .20 CFSM 1.46 IN 19.78
WTR YR 1974 TOTAL 1,011.66 MEAN 2.77 MAX 41 MIN .36 CFSM 1.57 IN 21.26

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0400	2.68	53	4- 5	Unk.	Unk.	Unk.
12-26	2130	2.34	32	6-30	2100	2.49	46

01540500 Susquehanna River at Danville, Pa.

LOCATION.--Lat 40°57'29", long 76°37'10", Montour County, on right bank, 200 ft (61 m) upstream from Mill Street Bridge at Danville and 0.8 mi (1.3 km) upstream from Mahoning Creek.

DRAINAGE AREA.--11,220 mi^2 (29,060 km^2), approximately.

PERIOD OF RECORD.--March 1899 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 431.29 ft (131.457 m) above mean sea level. Prior to June 29, 1939, nonrecording gage at or near Mill Street Bridge at same datum. Since Oct. 1, 1971, water-stage recorder at gaging-station site on Susquehanna River at Sunbury used as an auxiliary gage for this station.

AVERAGE DISCHARGE.--75 years, 15,150 ft^3/s (429 m^3/s), 18.34 in/yr (466 mm/yr).

EXTREMES.--Current year: Maximum discharge, 103,000 ft^3/s (2,920 m^3/s) Dec. 29 (gage height, 16.39 ft or 4.996 m), backwater from West Branch Susquehanna River; minimum, 1,920 ft^3/s (54.4 ft^3/s) Aug. 27 (gage height, 2.36 ft or 0.719 m).

Period of record: Maximum discharge, 363,000 ft^3/s (10,300 m^3/s) June 25, 1972, from rating curve extended above 230,000 ft^3/s (6,500 m^3/s); maximum gage height, 32.32 ft (9.851 m) June 24, 1972 (backwater from West Branch Susquehanna River); minimum discharge, 508 ft^3/s (14.4 m^3/s) Sept. 27, 1964 (gage height, 1.51 ft or 0.460 m).

Maximum stage known prior to 1899, 28 ft (8.5 m) Mar. 18, 1965.

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

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1904, 1914-17, 1923. WSP 1432: 1900-03, 1905-06, 1908-10, 1912-13, 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,270	6,700	12,000	50,400	45,000	19,600	22,900	11,900	10,100	15,000	5,040	4,550
2	3,880	10,000	11,100	40,600	36,600	18,500	30,700	13,000	11,600	19,100	4,110	7,570
3	3,710	7,520	10,300	33,600	30,800	18,300	48,700	12,500	10,400	16,400	4,590	10,400
4	3,530	6,460	9,430	28,400	25,600	18,800	78,000	13,000	9,040	12,400	5,880	13,800
5	3,560	5,970	8,970	23,900	21,000	21,000	81,700	12,300	8,050	9,640	5,290	13,500
6	3,670	5,580	12,200	20,200	18,900	32,700	83,800	11,900	7,260	10,100	4,680	11,700
7	3,510	5,200	21,600	17,500	16,400	43,600	70,800	11,400	6,630	15,800	4,050	13,300
8	3,410	4,830	26,000	15,700	14,800	40,900	56,800	10,800	6,090	14,300	3,670	11,800
9	3,280	4,470	24,900	14,300	13,900	38,500	49,200	10,500	5,670	11,300	3,540	9,310
10	3,270	4,240	38,400	13,300	12,500	46,400	47,600	11,100	5,310	9,510	3,620	7,650
11	3,160	3,990	52,500	12,300	11,000	47,300	42,600	11,700	5,260	8,400	3,340	6,600
12	2,980	3,810	46,900	11,700	10,500	40,300	40,300	13,800	5,060	7,130	3,060	5,860
13	2,920	3,600	36,100	11,100	11,300	31,900	47,900	21,500	4,870	6,120	2,850	5,440
14	2,970	3,460	28,000	11,300	12,400	26,300	54,300	33,600	4,740	5,470	2,700	6,720
15	2,930	3,340	23,700	9,680	12,300	21,800	53,400	40,500	4,800	5,110	2,560	6,680
16	2,800	3,430	20,300	9,940	11,500	18,700	65,100	33,000	6,040	4,840	2,500	5,810
17	2,750	3,570	18,300	11,000	11,000	19,100	59,100	25,400	6,530	4,480	2,580	5,060
18	2,650	4,180	16,000	11,900	10,400	19,600	46,200	21,200	6,970	4,300	2,550	5,330
19	2,560	4,470	12,400	11,400	9,760	20,200	36,400	19,000	8,500	4,210	2,410	5,730
20	2,530	4,470	9,650	11,600	9,710	20,300	30,600	22,700	7,920	4,260	2,250	5,140
21	2,520	4,560	35,200	12,100	9,680	19,900	27,300	19,600	6,890	3,950	2,160	5,060
22	2,510	4,400	84,400	23,000	10,500	25,300	24,000	16,000	6,260	3,600	2,060	6,610
23	2,500	4,310	78,700	34,900	25,400	28,600	20,900	14,200	6,330	3,300	2,030	8,390
24	2,500	4,150	59,600	40,900	61,700	26,900	19,000	12,900	6,090	3,230	2,100	7,730
25	2,490	4,210	45,000	49,300	49,500	25,600	17,900	12,000	5,550	3,360	2,270	8,990
26	2,420	4,790	36,500	42,800	36,300	24,700	17,300	11,500	6,120	3,400	2,080	9,680
27	2,350	6,920	51,200	36,200	27,200	22,100	16,200	11,200	6,340	3,640	1,960	8,080
28	2,300	8,400	90,200	40,300	22,200	19,300	14,600	10,800	5,740	3,680	2,600	6,990
29	2,340	11,000	97,400	60,600	------	17,600	13,300	10,200	6,070	3,720	3,330	7,960
30	4,400	12,100	78,800	64,700	------	17,200	12,200	9,540	7,850	5,350	3,400	8,760
31	4,740	------	63,100	55,700	------	19,300	------	9,310	------	5,780	4,840	------
TOTAL	95,410	164,130	1,158.9M	830,320	587,850	810,300	1,228.8M	498,050	204,080	230,880	100,100	240,200
MEAN	3,078	5,471	37,380	26,780	20,990	26,140	40,960	16,070	6,803	7,448	3,229	8,007
MAX	4,740	12,100	97,400	64,700	61,700	47,300	83,800	40,500	11,600	19,100	5,880	13,800
MIN	2,300	3,340	8,970	9,680	9,680	17,200	12,200	9,310	4,740	3,230	1,960	4,550
CFSM	.27	.49	3.33	2.39	1.87	2.33	3.65	1.43	.61	.66	.29	.71
IN.	.32	.54	3.84	2.75	1.95	2.69	4.07	1.65	.68	.77	.33	.80

CAL YR 1973 TOTAL 6,262,580 MEAN 17,160 MAX 97,400 MIN 2,300 CFSM 1.53 IN 20.76
WTR YR 1974 TOTAL 6,148,970 MEAN 16,850 MAX 97,400 MIN 1,960 CFSM 1.50 IN 20.39

NOTE.--Backwater from West Branch Susquehanna River Dec. 28, 29, Apr. 4-6.

01541000 West Branch Susquehanna River at Bower, Pa.

LOCATION.--Lat 40°53'49", long 78°40'38", Clearfield County, on right bank at downstream side of highway bridge at Bower, 4.6 mi (7.4 km) downstream from Chest Creek and Mahaffey.

DRAINAGE AREA.--315 mi^2 (816 km^2).

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 1,207.14 ft (367.936 m) above mean sea level. Prior to Oct. 17, 1929, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--61 years, 549 ft^3/s (15.5 m^3/s), 23.67 in/yr (601 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,950 ft^3/s (140 m^3/s) Jan. 19 (gage height, 10.24 ft or 3.121 m); minimum, 55 ft^3/s (1.56 m^3/s) Aug. 27 (gage height, 4.14 ft or 1.26 m).

Period of record: Maximum discharge, 31,500 ft^3/s (892 m^3/s) Mar. 18, 1936 (gage height, 19.74 ft or 6.017 m, from floodmark in gage shelter), from rating curve extended above 7,200 ft^3/s (204 m^3/s) on basis of slope-area measurement of peak flow; minimum, 14 ft^3/s (0.40 m^3/s) Aug. 29, 1939; minimum daily, 16 ft^3/s (0.45 m^3/s) Sept. 29, Oct. 1, 6, 13, 1930, Aug. 29, Aug. 31 to Sept. 2, 1939.

Maximum stage known prior to 1913, about 18.5 ft (5.64 m) May 13, 1889 (discharge, about 27,000 ft^3/s or 760 m^3/s).

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

REVISIONS (WATER YEARS).--WSP 726: Drainage area: WSP 1302: 1914-17, 1918(M), 1922-23, 1924(M), 1925-29, 1930-31(M), 1933(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,000	1,340	1,040	1,000	737	712	1,900	604	1,110	1,280	94	378
2	738	1,190	809	781	657	789	2,260	467	702	800	86	526
3	710	855	681	676	605	1,030	1,840	584	502	521	112	1,100
4	532	648	601	641	518	984	1,820	676	411	396	112	1,250
5	834	528	571	518	400	1,010	1,580	549	347	362	120	589
6	592	451	536	490	370	945	1,220	504	294	398	104	396
7	460	387	447	420	340	806	983	465	258	289	89	315
8	392	344	385	350	320	732	823	412	229	231	81	256
9	338	312	563	340	290	1,370	829	384	210	201	82	209
10	318	282	1,030	380	270	2,950	772	364	190	191	219	183
11	277	249	781	980	270	2,110	856	331	185	604	127	162
12	242	233	645	1,300	290	1,490	845	1,440	171	281	97	149
13	218	221	601	780	280	1,100	808	2,320	160	210	88	172
14	238	210	708	700	450	854	856	1,360	145	177	83	1,020
15	202	216	656	750	370	710	876	987	209	177	74	464
16	183	969	554	1,260	320	1,020	741	766	691	163	68	306
17	168	732	420	2,100	280	1,060	644	678	534	138	130	241
18	161	558	370	1,580	260	798	571	812	317	130	122	202
19	156	518	340	3,690	250	735	520	664	239	134	83	176
20	145	466	642	3,130	300	685	467	506	302	124	75	160
21	139	412	2,300	3,650	290	908	417	434	251	110	69	314
22	129	399	1,550	3,100	866	1,170	404	438	214	100	65	735
23	125	350	1,160	2,190	1,180	912	595	704	239	119	64	389
24	123	372	908	1,710	775	798	506	595	301	174	63	297
25	118	898	745	1,280	620	641	435	454	243	127	61	250
26	113	1,430	1,610	1,030	520	577	388	387	429	110	58	229
27	111	1,260	3,620	979	450	528	357	337	401	104	74	204
28	108	2,440	2,780	891	490	479	332	299	295	101	336	186
29	297	1,980	1,870	1,240	------	491	312	279	363	121	298	227
30	1,470	1,380	1,510	971	------	892	312	311	342	139	679	288
31	824	------	1,140	855	------	2,500	------	347	------	112	438	------
TOTAL	11,461	21,630	31,573	39,762	12,768	31,786	25,269	19,458	10,284	8,124	4,251	11,373
MEAN	370	721	1,018	1,283	456	1,025	842	628	343	262	137	379
MAX	1,470	2,440	3,620	3,690	1,180	2,950	2,260	2,320	1,110	1,280	679	1,250
MIN	108	210	340	340	250	479	312	279	145	100	58	149
CFSM	1.17	2.29	3.23	4.07	1.45	3.25	2.67	1.99	1.09	.83	.43	1.20
IN.	1.35	2.55	3.73	4.70	1.51	3.75	2.98	2.30	1.21	.96	.50	1.34

CAL YR 1973 TOTAL 233,827 MEAN 641 MAX 4,860 MIN 86 CFSM 2.03 IN 27.61
WTR YR 1974 TOTAL 227,739 MEAN 624 MAX 3,690 MIN 58 CFSM 1.98 IN 26.89

PEAK DISCHARGE (BASE 4,400 CFS).--Jan. 19 (1730) 4,950 cfs (10.24 ft).

01541200 West Branch Susquehanna River at Curwensville, Pa.

LOCATION.--Lat 40°57'41", long 78°31'10", Clearfield County, on left bank 30 ft (9 m) downstream from bridge on State Highway 453, 0.85 mi (1.37 km) downstream from Curwensville Lake, 1.1 mi (1.8 km) south of Curwensville and 1.8 mi (2.9 km) upstream from Anderson Creek.

DRAINAGE AREA.--367 mi^2 (951 km^2).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,124.52 ft (342.754 m) above mean sea level. Prior to Aug. 24, 1956, nonrecording gage and crest-stage gage 30 ft (9 m) upstream at same datum.

AVERAGE DISCHARGE.--19 years, 623 ft^3/s (17.6 m^3/s), 23.05 in/yr (585 mm/yr), adjusted for storage since November 1965.

EXTREMES.--Current year: Maximum discharge, 3,960 ft^3/s (112 m^3/s) Jan. 22 (gage height, 6.84 ft or 2.085 m); minimum daily, 60 ft^3/s (1.70 m^3/s) Oct. 25, 30, 31.
Period of record: Maximum discharge, 15,700 ft^3/s (445 m^3/s) Mar. 10, 1964 (gage height, 14.19 ft or 4.325 m); no flow at times; minimum daily, 19 ft^3/s (0.54 m^3/s) Aug. 16, 17, 1966.

REMARKS.--Records poor. Flow regulated by Curwensville Lake 0.85 mi (1.36 km) upstream (see p.189).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	639	100	2,500	2,440	1,040	1,610	2,490	126	800	876	128	345
2	585	120	2,160	1,970	836	1,910	2,900	270	800	1,020	99	507
3	712	120	1,250	1,270	984	1,940	2,830	423	433	471	79	967
4	398	120	836	836	625	1,620	2,550	742	352	410	137	1,650
5	810	120	819	523	279	1,220	2,360	1,300	323	293	190	593
6	2,010	120	846	523	316	1,250	1,740	546	286	345	141	442
7	1,630	120	808	429	348	1,090	1,150	409	272	334	97	372
8	1,090	320	808	472	366	897	1,030	490	247	272	88	293
9	315	1,890	885	527	374	1,080	880	495	217	240	90	266
10	310	3,120	909	516	490	2,020	933	307	200	200	133	242
11	280	3,030	765	546	374	2,440	945	307	221	438	232	202
12	233	2,650	647	675	408	2,280	945	424	221	334	185	161
13	242	1,140	481	735	431	1,180	952	1,880	208	190	94	194
14	347	254	622	643	422	726	952	2,660	190	219	74	868
15	155	270	733	725	405	281	1,010	1,770	260	225	75	625
16	108	293	1,070	1,390	456	1,920	1,000	952	575	198	78	250
17	110	331	594	1,770	634	2,110	799	666	563	125	87	286
18	110	422	415	2,920	374	1,460	562	599	330	128	170	283
19	110	356	417	2,970	337	835	648	608	257	127	163	221
20	100	363	519	3,430	316	395	464	599	299	128	108	185
21	100	422	1,280	3,500	280	472	346	410	286	128	67	309
22	100	608	1,690	3,820	401	1,040	309	144	254	115	66	651
23	100	595	1,690	3,740	476	1,280	352	432	254	91	67	415
24	70	595	1,670	3,360	531	1,200	310	686	274	155	67	309
25	60	652	1,610	2,500	345	664	183	518	319	194	67	257
26	70	685	1,630	1,640	279	567	157	438	364	188	67	252
27	90	1,010	2,560	1,420	349	594	74	334	415	165	66	250
28	90	2,150	3,410	1,340	716	803	77	326	312	136	272	208
29	70	2,840	3,310	1,490	------	494	80	289	352	221	433	217
30	60	2,720	3,150	1,550	------	512	83	283	349	234	686	293
31	60	------	2,860	1,170	------	1,280	------	341	------	169	744	------
TOTAL	11,164	27,536	42,944	50,840	13,192	37,170	29,111	19,774	10,233	8,369	5,050	12,113
MEAN	360	918	1,385	1,640	471	1,199	970	638	341	270	163	404
MAX	2,010	3,120	3,410	3,820	1,040	2,440	2,900	2,660	800	1,020	744	1,650
MIN	60	100	415	429	279	281	74	126	190	91	66	161
MEAN≠	409	909	1,353	1,561	594	1,195	964	658	340	268	165	407
CFSM≠	1.11	2.48	3.69	4.25	1.62	3.26	2.63	1.79	.93	.73	.45	1.11
IN.≠	1.28	2.77	4.25	4.90	1.69	3.76	2.93	2.06	1.04	.84	.52	1.24

CAL YR 1973 TOTAL 279,667 MEAN 766 MAX 3,920 MIN 60 MEAN≠ 773 CFSM≠ 2.11 IN.≠ 28.63
WTR YR 1974 TOTAL 267,496 MEAN 733 MAX 3,820 MIN 60 MEAN≠ 737 CFSM≠ 2.01 IN.≠ 27.28

≠ Adjusted for change in contents in Curwensville Lake.

01541308 Bradley Run near Ashville, Pa.

LOCATION.--Lat 40°30'33", long 78°35'02", Cambria County, on right bank 200 ft (60 m) downstream from bridge on State Highway 53 at Syberton, 0.2 mi (0.3 km) upstream from mouth, and 4.5 mi (7.2 km) southwest of Ashville.

DRAINAGE AREA.--6.77 mi^2 (17.53 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 1,770 ft (539 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 13.4 ft^3/s (0.38 m^3/s), 26.88 in/yr (683 mm/yr).

EXTREMES.--Current year: Maximum discharge, 235 ft^3/s (6.66 m^3/s) Oct. 29 (gage height, 2.76 ft or 0.841 m), from rating curve extended as explained below: minimum, 1.2 ft^3/s (0.034 m^3/s) Aug. 22, 23, 24, 25, 26, 27 (gage height, 1.42 ft or 0.433 m).
Period of record: Maximum discharge, 679 ft^3/s (19.2 m^3/s) June 23, 1972 (gage height, 3.82 ft or 1.164 m), from rating curve extended above 70 ft^3/s (2.0 m^3/s) on basis of a slope-area measurement of peak flow; minimum, 1.2 ft^3/s (0.034 m^3/s) on many days in 1970, 1972 water years (gage height, 1.42 ft or 0.433 m).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD Penna. 1972: 1968(P), 1969(M), 1970-71(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	34	19	24	17	10	25	8.9	11	42	2.5	8.9
2	9.2	23	16	20	16	11	37	7.7	7.7	17	2.5	4.2
3	7.2	18	15	18	15	12	31	11	6.7	13	2.8	16
4	5.9	15	14	17	14	11	45	8.3	6.2	12	2.8	5.8
5	6.3	13	15	15	12	12	32	7.7	5.8	12	2.5	3.9
6	5.4	12	14	14	11	11	27	7.7	5.3	8.9	2.3	3.3
7	4.9	10	12	13	11	11	22	7.7	5.3	7.7	2.1	3.0
8	4.6	9.5	11	12	10	13	20	7.2	4.9	6.7	2.3	2.8
9	4.4	8.9	19	11	9.5	22	21	7.2	4.9	6.2	2.8	2.5
10	3.9	8.3	17	12	8.9	68	19	7.2	4.5	6.2	2.5	2.3
11	3.9	7.7	15	26	8.9	35	19	6.7	4.5	5.8	2.1	2.3
12	3.9	7.2	14	20	8.3	27	19	25	4.2	5.3	2.1	2.3
13	3.6	7.2	13	15	8.3	22	25	16	4.2	4.9	1.9	3.9
14	4.1	6.7	13	14	8.9	18	23	13	3.9	4.5	1.7	4.5
15	3.6	8.9	12	18	8.3	15	22	12	10	4.5	1.7	2.8
16	4.1	12	11	29	7.2	15	20	11	10	4.5	1.6	2.5
17	3.6	8.3	9.8	34	7.2	14	18	10	5.8	4.2	1.6	2.1
18	3.5	7.7	9.2	26	6.7	12	17	12	4.9	3.9	1.6	2.1
19	3.3	7.2	8.8	41	6.7	12	15	9.5	4.9	3.9	1.7	1.9
20	3.2	7.2	19	35	6.7	11	14	8.3	5.3	3.6	1.6	1.9
21	3.0	6.7	29	58	6.5	17	13	7.7	4.5	3.3	1.4	3.6
22	3.0	6.7	19	51	18	14	14	7.7	4.5	3.3	1.4	2.8
23	3.0	6.7	17	44	16	12	15	10	8.9	3.6	1.4	2.3
24	3.0	8.3	15	37	11	12	12	7.7	6.2	3.3	1.4	2.1
25	3.0	30	15	31	9.5	10	11	7.2	8.9	3.0	1.3	2.1
26	2.7	23	41	26	9.0	9.5	10	6.7	8.3	3.0	1.4	2.1
27	2.8	19	70	25	8.5	8.9	9.5	6.2	6.7	3.0	1.6	1.9
28	3.4	34	50	25	8.5	8.9	8.9	5.8	7.7	2.8	2.3	2.5
29	114	26	41	26	------	8.9	8.3	6.7	9.5	3.3	2.5	3.3
30	59	22	35	21	------	19	8.3	11	12	3.3	6.2	2.5
31	35	------	29	19	------	32	------	8.9	------	2.8	2.5	------
TOTAL	328.5	414.2	637.8	777	288.6	514.2	581.0	289.7	197.2	211.5	66.1	104.2
MEAN	10.6	13.8	20.6	25.1	10.3	16.6	19.4	9.35	6.57	6.82	2.13	3.47
MAX	114	34	70	58	18	68	45	25	12	42	6.2	16
MIN	2.7	6.7	8.8	11	6.5	8.9	8.3	5.8	3.9	2.8	1.3	1.9
CFSM	1.57	2.04	3.04	3.71	1.52	2.45	2.87	1.38	.97	1.01	.31	.51
IN.	1.81	2.28	3.50	4.27	1.59	2.83	3.19	1.59	1.08	1.16	.36	.57

CAL YR 1973 TOTAL 5,069.3 MEAN 13.9 MAX 114 MIN 2.3 CFSM 2.05 IN 27.85
WTR YR 1974 TOTAL 4,410.0 MEAN 12.1 MAX 114 MIN 1.3 CFSM 1.79 IN 24.23

PEAK DISCHARGE (BASE, 110 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	1105	2.76	235	7- 1	0105	2.37	122
3-10	Unk.	2.54	167				

01541500 Clearfield Creek at Dimeling, Pa.

LOCATION.--Lat 40°58'18", long 78°24'22", Clearfield County, on right bank at downstream side of highway bridge at Dimeling, 600 ft (180 m) downstream from Little Clearfield Creek, and 4 mi (6 km) southeast of Clearfield.

DRAINAGE AREA.--371 mi^2 (961 km^2).

PERIOD OF RECORD.--October 1913 to current year. Monthly discharges only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 1,146.08 ft (349.325 m) above mean sea level. Prior to Oct. 17, 1928, nonrecording gage and Oct. 17, 1928 to Oct. 25, 1967, water-stage recorder at site 200 ft (61 m) upstream, all at the same datum.

AVERAGE DISCHARGE.--61 years, 569 ft^3/s (16.1 m^3/s), 20.83 in/yr (529 mm/yr), adjusted for storage since December 1960.

EXTREMES.--Current year: Maximum discharge, 3,910 ft^3/s (111 m^3/s) Dec. 27 (gage height, 7.74 ft or 2.359 m); minimum, 62 ft^3/s (1.76 m^3/s) Aug. 27 (gage height, 2.87 ft or 0.875 m).
Period of record: Maximum discharge, 30,600 ft^3/s (867 m^3/s) Mar. 18, 1936 (gage height, 18.49 ft or 5.636 m, from floodmark in gage shelter), from rating curve extended above 15,000 ft^3/s (425 m^3/s); minimum, 6.0 ft^3/s (0.17 m^3/s) Oct. 1, 9, 1925; minimum daily, 7.1 ft^3/s (0.20 m^3/s) Oct. 1, 1925.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Glendale Lake about 25 mi (40 km) upstream (see p.189).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 891: 1936-39. WSP 1302: 1915-17, 1918-19(M). WSP 1502: 1939.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	638	1,090	1,090	1,260	899	572	2,310	452	735	989	137	249
2	493	1,120	924	1,030	801	638	2,780	416	574	963	121	363
3	545	819	825	886	741	807	2,630	452	425	601	129	771
4	428	667	765	819	650	843	2,580	569	359	485	129	1,250
5	493	561	759	678	524	856	2,250	485	318	466	149	606
6	423	488	789	600	483	837	1,700	447	287	471	135	420
7	337	428	695	520	420	759	1,360	434	261	376	113	347
8	292	381	610	473	390	730	1,140	402	239	314	105	299
9	261	345	736	478	360	1,200	1,090	385	225	275	105	257
10	284	316	1,460	503	320	2,650	1,060	393	211	275	204	228
11	258	288	1,180	661	330	2,090	1,090	372	197	402	177	207
12	229	265	1,000	700	340	1,570	1,070	729	187	302	129	191
13	208	254	924	520	320	1,240	1,030	2,100	174	239	115	197
14	204	243	930	480	340	1,010	1,100	1,290	162	211	105	407
15	184	239	880	701	404	856	1,020	1,030	171	207	90	381
16	168	583	600	1,010	337	905	918	855	283	197	81	272
17	153	638	520	1,850	300	937	700	729	302	174	137	232
18	144	483	480	1,530	280	765	606	759	211	159	121	207
19	139	448	440	2,280	292	800	559	765	177	155	95	187
20	130	423	460	2,720	324	700	509	590	214	152	86	174
21	127	400	1,700	3,010	328	800	461	509	228	135	79	291
22	119	386	1,400	3,380	638	1,100	438	456	187	123	75	645
23	111	354	1,110	2,540	1,090	940	533	553	197	132	72	411
24	109	363	949	2,090	783	820	533	574	261	152	70	314
25	104	650	831	1,600	695	760	447	447	299	140	68	275
26	101	1,330	1,270	1,300	583	700	402	389	612	126	64	253
27	99	1,070	3,430	1,210	493	660	368	351	639	129	66	228
28	96	1,660	3,150	1,110	480	630	347	318	452	159	214	211
29	204	1,700	2,260	1,400	------	610	330	302	548	225	246	207
30	2,190	1,300	1,880	1,180	------	1,010	326	306	553	246	368	218
31	1,080	------	1,460	1,050	------	2,960	------	351	------	171	398	------
TOTAL	10,351	19,292	35,507	39,569	13,945	31,755	31,687	18,210	9,688	9,151	4,183	10,298
MEAN	334	643	1,145	1,276	498	1,024	1,056	587	323	295	135	343
MAX	2,190	1,700	3,430	3,380	1,090	2,960	2,780	2,100	735	989	398	1,250
MIN	96	239	440	473	280	572	326	302	162	123	64	174
MEAN≠	328	648	1,152	1,268	494	1,020	1,051	591	324	284	136	352
CFSM≠	.88	1.75	3.11	3.42	1.33	2.75	2.83	1.59	.87	.77	.37	.95
IN.≠	1.02	1.95	3.58	3.94	1.38	3.17	3.16	1.83	.97	.89	.43	1.06

CAL YR 1973 TOTAL 229,454 MEAN 629 MAX 3,740 MIN 72 MEAN≠ 630 CFSM≠ 1.70 IN.≠ 23.04
WTR YR 1974 TOTAL 233,636 MEAN 640 MAX 3,430 MIN 64 MEAN≠ 639 CFSM≠ 1.72 IN.≠ 23.38

≠ Adjusted for change in contents in Glendale Lake.

01542000 Moshannon Creek at Osceola Mills, Pa.

LOCATION.--Lat 40°50'58", long 78°16'05", Clearfield County, on left bank 10 ft (3.0 m) upstream from Penn Central Railroad bridge at Osceola Mills, and 0.1 mi (0.2 km) downstream from Trout Run.

DRAINAGE AREA.--68.8 mi^2 (178.2 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,446.98 ft (441.040 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 109 ft^3/s (3.09 m^3/s), 21.51 in/yr (546 mm/yr).

EXTREMES.--Current year: Maximum discharge, 596 ft^3/s (16.9 m^3/s) Apr. 4 (gage height, 2.82 ft or 0.860 m), from rating curve extended above 250 ft^3/s (7.1 m^3/s); minimum, 12 ft^3/s (0.34 m^3/s) Oct. 25, 26, 27, 28 (gage height, 0.14 ft or 0.043 m).

Period of record: Maximum discharge, 5,120 ft^3/s (145 m^3/s) June 23, 1972 (gage height, 14.25 ft or 4.343 m), from rating curve extended above 1,800 ft^3/s (51 m^3/s) on basis of contracted-opening measurements at gage heights, 7.58 ft (2,310 m), 9.00 ft (2.743 m), and at peak flow; minimum, 6.9 ft^3/s (0.20 m^3/s) Dec. 5, 1957, minimum daily, 7.8 ft^3/s (0.22 m^3/s) Sept. 21, 1955; minimum gage height, 0.14 ft (0.043 m) Oct. 25, 26, 27, 28, 1973.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1232: 1941-46, 1948, 1950-51, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	109	130	248	198	107	312	102	114	202	31	28
2	45	88	118	202	185	114	451	81	84	136	29	36
3	37	76	111	183	166	118	466	97	74	118	36	128
4	26	69	105	166	146	114	542	88	70	107	46	104
5	43	65	120	146	128	116	443	81	65	107	38	63
6	29	62	113	138	118	114	371	83	62	97	30	54
7	24	57	95	128	116	116	305	83	59	84	28	51
8	22	54	86	113	105	116	263	79	56	78	26	47
9	21	50	150	111	98	154	260	81	54	71	33	45
10	23	45	172	107	95	225	232	83	52	89	39	42
11	21	41	140	132	86	178	234	74	49	134	26	39
12	19	38	126	122	83	174	227	263	50	76	26	37
13	19	37	124	109	88	164	211	305	47	66	28	45
14	22	34	128	105	91	150	207	263	43	60	24	71
15	19	43	114	109	79	138	198	236	78	65	22	42
16	18	102	104	164	73	150	181	204	100	56	22	36
17	17	66	92	198	69	138	162	181	68	50	25	32
18	17	54	90	152	63	118	150	164	63	46	24	31
19	17	56	89	287	65	114	140	144	65	46	23	30
20	16	51	122	265	76	104	126	128	81	41	21	31
21	14	50	241	371	71	142	116	118	66	37	20	98
22	14	51	166	379	152	130	118	116	62	34	20	95
23	13	47	154	379	142	111	136	154	79	39	21	59
24	13	56	142	353	104	107	113	122	69	45	19	49
25	12	111	134	312	102	98	102	105	162	34	19	47
26	12	124	265	275	97	97	95	98	234	32	19	46
27	12	111	478	263	91	95	89	93	198	31	19	43
28	12	185	443	258	91	93	84	88	174	33	46	42
29	181	158	399	277	------	95	81	91	181	69	42	45
30	156	140	345	236	------	187	81	88	154	68	79	43
31	81	------	285	218	------	363	------	83	------	37	38	------
TOTAL	1,000	2,230	5,381	6,506	2,978	4,240	6,496	3,976	2,713	2,188	919	1,559
MEAN	32.3	74.3	174	210	106	137	217	128	90.4	70.6	29.6	52.0
MAX	181	185	478	379	198	363	542	305	234	202	79	128
MIN	12	34	86	105	63	93	81	74	43	31	19	28
CFSM	.47	1.08	2.53	3.05	1.54	1.99	3.15	1.86	1.31	1.03	.43	.76
IN.	.54	1.21	2.91	3.52	1.61	2.29	3.51	2.15	1.47	1.18	.50	.84

CAL YR 1973 TOTAL 39,258 MEAN 108 MAX 563 MIN 11 CFSM 1.57 IN 21.23
WTR YR 1974 TOTAL 40,186 MEAN 110 MAX 542 MIN 12 CFSM 1.60 IN 21.73

PEAK DISCHARGE (BASE, 600 CFS).--No peak above base.

01542500 West Branch Susquehanna River at Karthaus, Pa.

LOCATION.--Lat 41°06'56", long 78°06'43", Clearfield County, on left bank 900 ft (270 m) upstream from bridge on State Highway 879 at Karthaus, 1,000 ft (300 m) upstream from Mosquito Creek, and 3.3 mi (5.3 km) downstream from Moshannon Creek. Records include flow of Mosquito Creek.

DRAINAGE AREA.--1,462 mi^2 (3,787 km^2), includes that of Mosquito Creek.

PERIOD OF RECORD.--February 1940 to current year. October 1918 to September 1920 (gage heights only) in reports of Water Supply Commission of Pennsylvania.

GAGE.--Water-stage recorder. Datum of gage is 830.59 ft (253.164 m) above mean sea level. Prior to Sept. 30, 1920, nonrecording gage at site 900 ft (270 m) downstream at datum 20.88 ft (6.364 m) lower. Feb. 21 to Sept. 30, 1940, nonrecording gage at site 900 ft (270 m) downstream at present datum.

AVERAGE DISCHARGE.--34 years (1940-74), 2,447 ft^3/s (69.3 m^3/s), 22.73 in/yr (577 mm/yr), adjusted for storage since December 1960.

EXTREMES.--Current year: Maximum discharge, 14,400 ft^3/s (408 m^3/s) Apr. 3 (gage height, 7.79 ft or 2.374 m); minimum, 316 ft^3/s (8.95 m^3/s) Aug. 27 (gage height, 1.10 ft or 0.335 m).

Period of record: Maximum discharge, 84,300 ft^3/s (2,390 m^3/s) June 23, 1972 (gage height, 18.57 ft or 5.660 m), from rating curve extended above 50,000 ft^3/s (1,400 m^3/s); minimum, 100 ft^3/s (2.83 m^3/s) Sept. 26, 27, 1964 (gage height, 0.43 ft or 0.131 m).

Maximum stage known, about 24.5 ft (7.47 m) Mar. 18, 1936, from floodmarks at highway bridge (discharge about 135,000 ft^3/s or 3,820 m^3/s).

REMARKS.--Records fair except those for winter periods, which are poor. Flow regulated by Curwensville Lake about 50 mi (80 km) upstream and by Glendale Lake (see p.189).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,640	2,680	6,250	6,840	5,040	3,010	8,500	1,940	2,290	3,970	783	2,120
2	1,770	3,150	5,330	5,740	4,470	4,210	11,300	2,120	3,170	4,880	658	1,890
3	1,710	2,640	4,490	4,500	3,600	4,700	13,900	2,260	2,330	3,360	621	3,240
4	1,770	2,260	3,050	3,000	3,200	4,860	12,900	2,730	1,750	2,500	632	6,560
5	2,040	1,970	2,830	2,500	2,300	4,490	11,200	2,860	1,540	2,190	670	4,510
6	2,860	1,770	2,910	2,300	2,000	4,170	9,080	3,080	1,400	2,150	737	2,770
7	3,460	1,590	2,630	2,000	1,800	4,210	6,920	2,260	1,270	1,900	671	2,350
8	2,690	1,440	2,270	1,700	1,600	3,970	5,820	2,150	1,200	1,600	564	1,910
9	1,770	1,450	2,450	1,600	1,500	7,340	5,250	2,110	1,120	1,360	519	1,610
10	1,100	3,770	4,110	1,700	1,400	12,000	4,860	2,270	1,070	1,190	575	1,360
11	1,090	4,260	4,110	1,900	1,300	11,100	4,840	2,020	1,000	1,290	619	1,260
12	1,010	3,990	3,270	2,600	1,400	8,960	4,930	2,790	971	1,630	758	1,130
13	925	3,330	2,910	2,200	1,300	7,260	4,810	7,530	940	1,260	674	1,050
14	948	1,450	2,800	1,800	1,500	5,430	4,750	8,550	887	968	603	1,350
15	1,030	1,090	2,700	2,000	1,300	3,690	5,150	7,660	940	1,190	464	2,610
16	865	1,320	2,500	2,600	1,200	4,170	4,840	5,340	1,790	1,050	408	1,590
17	662	2,020	2,100	5,480	1,200	6,150	4,340	4,260	2,390	928	425	1,120
18	656	1,830	1,700	6,200	1,100	5,110	3,650	3,670	2,010	830	570	1,080
19	643	1,710	1,600	7,500	1,100	4,070	3,240	3,440	1,430	764	592	1,040
20	617	1,630	1,980	9,800	1,300	3,330	3,100	3,080	1,300	718	574	934
21	591	1,610	4,750	10,800	1,300	2,890	2,730	2,780	1,340	691	478	1,130
22	573	1,700	6,200	13,500	1,900	4,130	2,470	2,380	1,290	651	410	2,450
23	579	1,860	5,390	12,200	4,430	4,400	2,560	2,080	1,210	644	365	2,600
24	542	1,830	4,860	11,100	3,850	4,110	2,630	2,730	1,230	697	364	1,710
25	518	2,680	4,400	9,340	2,800	3,710	2,180	2,740	1,300	728	342	1,440
26	501	4,470	4,880	7,230	2,200	2,790	1,930	2,120	2,140	744	332	1,320
27	478	4,510	8,840	6,430	2,100	2,740	1,690	1,910	2,390	704	324	1,240
28	472	6,280	12,000	6,030	2,200	2,640	1,520	1,660	2,210	683	377	1,150
29	836	8,330	10,400	6,680	------	2,890	1,460	1,600	2,010	866	1,470	1,100
30	2,960	7,270	9,230	6,660	------	3,010	1,440	1,530	2,320	1,290	1,980	1,150
31	3,570	------	7,960	5,890	------	6,920	------	1,450	------	1,020	2,900	------
TOTAL	41,876	85,890	140,900	169,820	60,390	152,460	153,990	95,100	48,238	44,446	21,459	56,774
MEAN	1,351	2,863	4,545	5,478	2,157	4,918	5,133	3,068	1,608	1,434	692	1,892
MAX	3,570	8,330	12,000	13,500	5,040	12,000	13,900	8,550	3,170	4,880	2,900	6,560
MIN	472	1,090	1,600	1,600	1,100	2,640	1,440	1,450	887	644	324	934
MEAN≠	1,394	2,859	4,520	5,391	2,276	4,909	5,122	3,092	1,608	1,421	695	1,904
CFSM≠	.95	1.96	3.09	3.69	1.56	3.36	3.50	2.11	1.10	.97	.48	1.30
IN.≠	1.10	2.19	3.56	4.25	1.62	3.87	3.90	2.43	1.23	1.12	.55	1.45

CAL YR 1973 TOTAL 1,020,621 MEAN 2,796 MAX 15,800 MIN 472 MEAN≠ 2,804 CFSM≠ 1.92 IN.≠ 26.04
WTR YR 1974 TOTAL 1,071,343 MEAN 2,935 MAX 13,900 MIN 324 MEAN≠ 2,938 CFSM≠ 2.01 IN.≠ 27.27

≠ Adjusted for change in contents in Curwensville and Glendale Lakes.

01542810 Waldy Run near Emporium, Pa.

LOCATION.--Lat 41°34'44", long 78°17'34", Cameron County, on left bank 15 ft (4.6 m) downstream from highway bridge at North Creek Chapel, 0.1 mi (0.2 km) upstream from mouth, and 5.5 mi (8.8 km) northwest of Emporium.

DRAINAGE AREA.--5.24 mi^2 (13.57 km^2).

PERIOD OF RECORD.--Occasional discharge measurements and annual maximum water years 1963-64. August 1964 to current year.

*GAGE.--Water-stage recorder. Datum of gage is 1,263.62 ft (385.151 m) above mean sea level. July 25, 1963 to Aug. 27, 1964, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--10 years (1964-74), 8.74 ft^3/s (0.25 m^3/s), 22.65 in/yr (575 mm/yr).

EXTREMES.--Current year: Maximum discharge, 222 ft^3/s (6.29 m^3/s) July 1 (gage height, 4.94 ft or 1.506 m), from rating curve extended above 50 ft^3/s (1.4 m^3/s); minimum, 0.30 ft^3/s (0.008 m^3/s) Aug. 16, 26, 27 (gage height, 3.27 ft or 0.997 m).
Period of record: Maximum discharge, 828 ft^3/s (23.4 m^3/s) Sept. 28, 1967 (gage height, 6.32 ft or 1.926 m), from rating curve extended above 80 ft^3/s (2.3 m^3/s) on basis of slope-area measurements at gage heights, 5.09 ft (1.551 m), 5.86 ft (1.786 m), and at peak flow; no flow Sept. 14-19, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	36	16	9.6	15	6.8	36	8.3	2.2	147	.75	2.8
2	1.3	35	10	7.6	12	5.9	59	11	1.4	41	.67	3.0
3	1.5	23	8.3	6.2	9.3	6.3	97	12	1.3	18	.67	36
4	1.2	14	7.2	5.4	7.3	13	116	11	1.2	11	2.4	26
5	3.3	9.8	6.6	4.8	5.6	35	62	9.3	1.2	7.8	1.3	12
6	2.6	7.6	5.8	4.4	4.6	36	34	8.8	1.0	5.1	.94	5.9
7	2.0	5.9	4.9	3.8	3.9	23	21	7.3	.94	3.8	.84	3.8
8	1.5	4.9	4.2	3.1	3.3	28	15	5.9	.94	3.0	.75	2.6
9	1.1	4.3	7.0	2.3	2.9	73	12	5.9	.94	2.8	.67	2.2
10	.88	3.5	15	2.6	2.5	77	9.9	5.5	.84	2.6	.67	1.8
11	.70	3.0	13	3.1	2.3	41	9.3	5.1	.94	2.2	.54	1.4
12	.57	2.7	11	2.7	2.2	23	12	20	.84	1.8	.54	1.4
13	.48	2.6	8.8	2.3	2.2	15	16	50	.75	1.6	.49	1.8
14	2.0	2.6	7.8	2.2	2.1	11	17	31	.67	2.0	.40	1.4
15	1.7	2.5	6.6	2.5	1.9	8.3	18	19	2.6	3.8	.36	1.0
16	1.5	3.0	5.0	2.8	1.8	13	17	13	19	1.6	.33	.94
17	1.6	2.4	4.2	3.2	1.7	15	13	11	21	1.3	.84	.84
18	1.5	2.2	3.7	3.0	1.6	12	11	9.0	14	1.2	.67	2.2
19	1.5	2.4	4.4	13	1.5	11	9.3	7.4	8.3	1.2	1.2	1.6
20	1.3	2.2	6.2	19	1.5	8.8	6.8	6.2	5.1	1.0	.94	2.6
21	1.3	2.3	64	64	1.7	9.3	5.9	5.2	3.8	.94	.54	7.8
22	1.2	2.6	35	72	35	8.8	6.3	4.7	3.0	.84	.49	15
23	1.2	2.5	18	45	59	8.3	6.3	5.6	2.6	1.3	.44	9.9
24	1.2	4.4	13	52	27	9.3	5.9	4.4	2.0	1.8	.44	6.3
25	1.1	18	10	30	17	9.3	5.5	3.6	4.7	1.0	.40	4.4
26	1.1	37	13	19	11	8.8	5.5	3.0	18	1.2	.33	3.5
27	1.1	31	90	19	8.3	7.8	5.1	2.6	37	1.6	.36	2.6
28	1.1	58	60	47	6.8	6.8	4.7	2.3	20	.94	.84	2.2
29	17	48	30	47	------	6.3	4.7	2.2	19	1.0	2.4	2.4
30	118	27	19	34	------	18	5.5	1.8	48	1.2	5.1	2.2
31	54	------	14	21	------	49	------	1.8	------	.84	2.6	------
TOTAL	227.23	400.4	521.7	553.6	251.0	603.8	646.7	293.9	243.26	272.46	29.91	167.58
MEAN	7.33	13.3	16.8	17.9	8.96	19.5	21.6	9.48	8.11	8.79	.96	5.59
MAX	118	58	90	72	59	77	116	50	48	147	5.1	36
MIN	.48	2.2	3.7	2.2	1.5	5.9	4.7	1.8	.67	.84	.33	.84
CFSM	1.40	2.54	3.21	3.42	1.71	3.72	4.12	1.81	1.55	1.68	.18	1.07
IN.	1.61	2.84	3.70	3.93	1.78	4.29	4.59	2.09	1.73	1.93	.21	1.19

CAL YR 1973 TOTAL 4,176.83 MEAN 11.4 MAX 138 MIN .42 CFSM 2.18 IN 29.65
WTR YR 1974 TOTAL 4,211.54 MEAN 11.5 MAX 147 MIN .33 CFSM 2.19 IN 29.90

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	0530	4.50	140	4- 4	0845	4.55	131
12-27	Unk.	4.74	188	7- 1	0200	4.94	222
1-21	2045	4.44	108				

01543000 Driftwood Branch Sinnemahoning Creek at Sterling Run, Pa.

LOCATION.--Lat 41°24'48", long 78°11'50", Cameron County, on downstream side of second pier from left bank of highway bridge at village of Sterling Run and 300 ft (90 m) upstream from Sterling Run.

DRAINAGE AREA.--272 mi^2 (704 km^2).

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 894.84 ft (272.747 m) above mean sea level. Oct. 1, 1913 to Sept. 30, 1931, nonrecording gage and Oct. 1, 1931 to Sept. 30, 1932, water-stage recorder at present site and datum. Oct. 1, 1932 to Sept. 30, 1942, nonrecording gage at site 800 ft (240 m) upstream at same datum.

AVERAGE DISCHARGE.--61 years, 446 ft^3/s (12.6 m^3/s), 22.27 in/yr (566 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,460 ft^3/s (240 m^3/s) July 1 (gage height, 6.15 ft or 1.875 m), from rating curve extended above 2,000 ft^3/s (57 m^3/s); minimum, 39 ft^3/s (1.10 m^3/s) Oct. 2, Aug. 26, 27, 28; minimum gage height, -0.18 ft (-0.055 m) Aug. 26, 27, 28.
Period of record: Maximum discharge, 47,800 ft^3/s (1,350 m^3/s) July 18, 1942 (gage height, 14.70 ft or 4.481 m, from floodmarks at highway bridge), from rating curve extended above 11,000 ft^3/s (310 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 0.4 ft^3/s (0.011 m^3/s) Sept. 7, 12-14, 1930.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1272: Drainage area. WSP 1502: 1933(M), 1934-38, 1939(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	1,570	978	720	970	515	1,410	872	173	5,940	90	238
2	44	1,360	754	553	791	448	2,830	863	145	2,140	81	274
3	111	1,120	618	466	659	440	4,280	872	115	1,220	83	1,860
4	112	852	528	407	480	681	4,480	746	100	729	161	1,760
5	174	678	489	290	360	1,140	3,150	617	92	533	192	952
6	191	544	436	250	310	1,370	1,960	585	83	409	136	585
7	159	443	352	200	280	1,190	1,330	515	76	312	112	428
8	142	371	300	170	240	1,350	1,030	434	70	256	97	322
9	128	325	436	160	210	3,600	863	412	68	210	92	265
10	115	282	924	190	180	3,900	710	441	66	176	87	222
11	100	243	843	230	160	2,470	710	372	66	169	76	191
12	89	218	729	200	160	1,560	764	1,310	63	133	68	173
13	81	199	644	160	150	1,080	845	3,120	59	115	63	199
14	133	191	585	160	160	809	890	1,910	54	110	59	187
15	131	183	466	170	150	650	1,130	1,270	80	1,310	51	152
16	97	228	350	210	140	834	1,040	920	968	520	46	127
17	91	203	300	250	130	1,000	872	773	729	302	50	110
18	89	179	270	310	130	809	737	642	512	214	92	140
19	89	167	310	1,200	120	728	650	499	375	176	61	136
20	84	163	450	1,280	130	634	537	419	293	145	80	123
21	78	160	2,220	2,150	150	642	469	352	231	121	63	360
22	73	157	1,590	3,240	940	668	441	321	203	104	49	660
23	68	157	1,120	2,480	1,800	617	477	346	162	102	46	477
24	66	163	825	2,560	1,270	625	419	298	142	187	42	364
25	68	754	652	1,860	960	537	366	253	150	130	40	307
26	64	1,200	834	1,290	719	515	340	218	495	100	40	274
27	61	1,160	2,720	1,170	540	477	315	196	772	209	39	231
28	57	1,600	2,570	1,510	460	426	298	182	533	139	52	199
29	365	1,720	1,660	1,860	------	419	298	171	600	115	207	197
30	3,300	1,310	1,220	1,610	------	593	312	168	1,200	159	355	243
31	1,990	------	897	1,270	------	1,610	------	145	------	110	273	------
TOTAL	8,392	17,900	27,070	28,576	12,749	32,337	33,953	20,242	8,675	16,595	2,983	11,756
MEAN	271	597	873	922	455	1,043	1,132	653	289	535	96.2	392
MAX	3,300	1,720	2,720	3,240	1,800	3,900	4,480	3,120	1,200	5,940	355	1,860
MIN	42	157	270	160	120	419	298	145	54	100	39	110
CFSM	1.00	2.19	3.21	3.39	1.67	3.83	4.16	2.40	1.06	1.97	.35	1.44
IN.	1.15	2.45	3.70	3.91	1.74	4.42	4.64	2.77	1.19	2.27	.41	1.61

CAL YR 1973 TOTAL 183,038 MEAN 501 MAX 3,680 MIN 20 CFSM 1.84 IN 25.03
WTR YR 1974 TOTAL 221,228 MEAN 606 MAX 5,940 MIN 39 CFSM 2.23 IN 30.26

PEAK DISCHARGE (BASE, 4,700 CFS).--Apr. 3 (0030) 5,140 cfs (4.26 ft); July 1 (0400) 8,460 cfs (6.15 ft).

01543500 Sinnemahoning Creek at Sinnemahoning, Pa.

LOCATION.--Lat 41°19'02", long 78°06'12", Cameron County, on left bank 0.2 mi (0.3 km) upstream from Grove Run and 0.7 mi (1.1 km) upstream from Penn Central Railroad bridge at Sinnemahoning.

DRAINAGE AREA.--685 mi^2 (1,774 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 769.36 ft (234.501 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 1,111 ft^3/s (31.5 m^3/s), 22.03 in/yr (560 mm/yr).

EXTREMES.--Current year: Maximum discharge, 15,900 ft^3/s (450 m^3/s) Mar. 10 (gage height, 9.67 ft or 2.947 m), minimum, 92 ft^3/s (2.61 m^3/s) Aug. 27 (gage height, 1.96 ft or 0.597 m).

Period of record: Maximum discharge, 60,800 ft^3/s (1,720 m^3/s) June 23, 1972 (gage height, 21.78 ft or 6.639 m), from rating curve extended above 31,000 ft^3/s (878 m^3/s) on basis of slope-area measurement at gage height, 21.58 ft (6.578 m); minimum 1.2 ft^3/s (0.034 m^3/s) Sept. 4, 1939 (gage height, 1.18 ft or 0.360 m); minimum daily, 1.4 ft^3/s (0.040 m^3/s) Sept. 3, 1939.

Maximum stage known, 21.94 ft (6.687 m) Mar. 18, 1936, from floodmark (discharge, 61,200 ft^3/s or 1,730 m^3/s, from rating curve extended as explained above).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	3,680	3,070	2,260	2,450	1,370	3,640	2,630	470	10,600	199	769
2	185	3,320	2,330	1,800	2,020	1,240	6,640	2,490	397	5,120	170	1,410
3	497	2,810	1,910	1,510	1,710	1,270	10,800	2,450	323	3,330	171	5,530
4	455	2,210	1,630	1,360	1,400	1,750	10,200	2,180	289	2,180	265	6,410
5	1,360	1,800	1,530	960	960	2,490	7,290	1,780	263	1,580	406	3,660
6	1,190	1,480	1,380	720	800	2,930	4,950	1,630	239	1,240	293	2,300
7	839	1,250	1,090	600	660	2,680	3,620	1,470	219	917	243	1,660
8	681	1,050	924	520	600	3,280	2,860	1,240	201	707	212	1,250
9	561	912	1,170	460	540	9,840	2,480	1,140	194	573	212	962
10	489	792	2,780	520	490	13,300	2,040	1,210	187	485	275	769
11	423	681	2,430	620	450	7,230	2,040	1,000	196	448	243	639
12	371	609	2,100	540	440	4,670	2,280	2,260	188	372	199	552
13	344	561	1,850	480	410	3,320	2,420	6,610	170	315	186	590
14	463	533	1,720	450	420	2,510	2,510	4,670	150	289	170	703
15	455	515	1,440	500	400	2,010	3,380	3,410	175	2,560	140	515
16	371	781	1,100	620	370	2,500	3,020	2,560	2,310	1,290	120	408
17	344	735	940	740	350	3,090	2,570	2,080	2,060	728	130	350
18	330	599	860	940	320	2,500	2,170	1,770	1,460	511	230	357
19	330	580	900	3,500	300	2,250	1,910	1,390	1,050	414	150	357
20	305	552	1,220	3,800	320	1,970	1,590	1,130	839	349	194	330
21	288	515	5,830	4,700	390	1,970	1,340	945	678	290	181	1,080
22	265	571	4,450	7,950	1,600	2,220	1,230	858	571	251	137	2,630
23	254	552	3,280	6,290	4,100	1,940	1,350	987	486	246	123	1,690
24	243	561	2,480	6,180	2,920	1,870	1,160	901	436	400	113	1,260
25	233	2,130	1,940	4,830	2,380	1,590	1,000	721	385	315	106	1,010
26	223	3,660	2,410	3,590	1,870	1,470	890	600	971	242	100	888
27	218	3,620	6,630	3,130	1,500	1,350	809	526	1,520	440	97	735
28	213	5,560	6,630	3,340	1,370	1,200	751	471	1,080	320	185	619
29	463	5,490	4,680	3,980	------	1,170	716	443	1,260	270	987	619
30	6,360	4,100	3,680	3,570	------	1,410	761	469	1,490	329	1,300	827
31	4,270	------	2,760	2,990	------	4,090	------	408	------	251	1,120	------
TOTAL	23,236	52,209	77,144	73,450	31,540	92,480	88,417	52,429	20,257	37,362	8,657	40,879
MEAN	750	1,740	2,489	2,369	1,126	2,983	2,947	1,691	675	1,205	279	1,363
MAX	6,360	5,560	6,630	7,950	4,100	13,300	10,800	6,610	2,310	10,600	1,300	6,410
MIN	185	515	860	450	300	1,170	716	408	150	242	97	330
CFSM	1.09	2.54	3.63	3.46	1.64	4.35	4.30	2.47	.99	1.76	.41	1.99
IN.	1.26	2.84	4.19	3.99	1.71	5.02	4.80	2.85	1.10	2.03	.47	2.22

CAL YR 1973 TOTAL 511,473 MEAN 1,401 MAX 10,100 MIN 92 CFSM 2.05 IN 27.78
WTR YR 1974 TOTAL 598,060 MEAN 1,639 MAX 13,300 MIN 97 CFSM 2.39 IN 32.48

PEAK DISCHARGE (BASE, 8,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-21	2200	7.26	8,770	7- 1	0500	9.00	13,800
3-10	0300	9.67	15,900	9- 3	1830	8.10	11,200
4- 3	0130	8.52	12,400				

01544000 First Fork Sinnemahoning Creek near Sinnemahoning, Pa.

LOCATION.--Lat 41°24'06", long 78°01'28", Cameron County, on right bank 350 ft (107 m) downstream from Woodrock Run, 1500 ft (460 m) upstream from Roaring Run, 0.75 mi (1.21 km) downstream from George B. Stevenson Dam, and 7.5 mi (12.1 km) northeast of Sinnemahoning.

DRAINAGE AREA.--245 mi^2 (635 km^2).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 878.71 ft (267.831 m) above mean sea level. Prior to Apr. 1, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--21 years, 372 ft^3/s (10.5 m^3/s), 20.62 in/yr (524 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,530 ft^3/s (128 m^3/s) July 1 (gage height, 3.61 ft or 1.100 m); minimum, 11 ft^3/s (0.31 m^3/s) Aug. 19 (gage height, -0.48 ft or -0.146 m).
Period of record: Maximum discharge, 10,200 ft^3/s (289 m^3/s) Mar. 1, 1956 (gage height, 6.60 ft or 2.012 m); minimum, 0.9 ft^3/s (0.025 m^3/s) Sept. 3, 1964; minimum daily, 2.9 ft^3/s (0.082 m^3/s) Sept. 3, Oct. 13-15, 1964.
Maximum discharge known, 80,000 ft^3/s (2,270 m^3/s) July 18, 1942, by slope-area measurement.

REMARKS.--Records good. Flow regulated by First Fork Sinnemahoning Creek Reservoir 0.75 mi (1.21 km) upstream since Jan. 31, 1956 (see p.189). Records of water quality for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	1,380	1,100	608	1,020	424	1,010	617	133	3,920	72	84
2	62	1,060	769	515	845	369	1,500	728	123	3,320	60	92
3	117	898	610	446	699	337	3,190	690	110	1,420	54	718
4	121	693	525	439	549	383	3,370	590	104	766	65	886
5	156	550	406	331	410	756	3,340	469	65	590	95	582
6	176	448	533	319	417	1,140	1,960	446	72	446	87	369
7	160	372	434	343	369	1,220	1,330	446	82	273	61	312
8	152	310	316	245	325	1,100	980	350	61	226	54	211
9	148	276	441	184	273	2,280	815	325	72	216	54	176
10	148	240	837	148	216	2,740	653	369	61	193	58	144
11	130	206	798	240	211	3,020	573	319	43	163	60	116
12	121	188	919	300	221	1,810	671	680	42	126	49	104
13	114	180	712	163	226	1,190	917	2,640	42	113	46	126
14	141	176	575	107	211	835	1,110	2,010	42	123	41	133
15	127	172	463	207	189	617	1,420	1,250	43	240	33	113
16	124	197	379	284	119	635	1,430	928	231	123	33	79
17	105	184	347	256	151	671	1,130	728	362	98	33	70
18	108	172	366	231	184	557	886	617	262	79	47	87
19	108	180	304	424	155	507	709	383	207	84	39	95
20	99	176	456	635	168	477	590	424	176	75	38	98
21	96	172	2,090	949	168	469	492	343	159	65	34	163
22	91	180	2,190	1,860	532	524	461	251	130	61	33	540
23	85	167	1,310	1,690	1,260	507	461	295	110	70	31	390
24	83	180	877	1,810	1,090	507	439	256	98	107	27	300
25	83	463	655	1,550	938	469	369	202	113	89	27	251
26	80	929	769	1,070	635	369	376	184	284	61	26	221
27	80	961	2,420	949	507	410	362	176	410	61	26	189
28	80	1,210	3,000	1,460	499	362	312	273	356	61	58	180
29	260	1,670	2,010	1,840	------	343	306	267	469	61	67	155
30	3,050	1,830	1,310	1,830	------	356	306	148	653	151	126	184
31	2,080	------	928	1,450	------	875	------	126	------	95	141	------
TOTAL	8,545	15,820	28,849	22,883	12,587	26,259	31,468	17,530	5,115	13,476	1,675	7,168
MEAN	276	527	931	738	450	847	1,049	565	171	435	54.0	239
MAX	3,050	1,830	3,000	1,860	1,260	3,020	3,370	2,640	653	3,920	141	886
MIN	60	167	304	107	119	337	306	126	42	61	26	70
MEAN≠	282	533	939	749	451	851	1,048	554	183	433	54.0	239
CFSM≠	1.15	2.18	3.83	3.06	1.84	3.47	4.28	2.26	.75	1.77	.22	.98
IN.≠	1.33	2.43	4.42	3.53	1.92	4.00	4.78	2.61	.84	2.04	.25	1.09

CAL YR 1973 TOTAL 175,514 MEAN 481 MAX 4,800 MIN 50 MEAN≠ 480 CFSM≠ 1.96 IN.≠ 26.59
WTR YR 1974 TOTAL 191,375 MEAN 524 MAX 3,920 MIN 26 MEAN≠ 527 CFSM≠ 2.15 IN.≠ 29.24

≠ Adjusted for change in contents in First Fork Sinnemahoning Creek Reservoir.

01544500 Kettle Creek at Cross Fork, Pa.

LOCATION.--Lat 41°28'33", long 77°49'34", Potter County, on right bank just upstream from abutment of former highway bridge, 0.2 mi (0.3 km) downstream from Potter-Clinton County Line, and 0.7 mi (1.1 km) southwest of Cross Fork.

DRAINAGE AREA.--136 mi^2 (352 km^2).

PERIOD OF RECORD.--October 1940 to current year. Monthly discharge only for October, November 1940, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 1,027.12 ft (313.066 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--34 years, 220 ft^3/s (6.23 m^3/s), 21.97 in/yr (558 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,090 ft^3/s (59.2 m^3/s) Apr. 4 (gage height, 4.53 ft or 1.381 m); minimum, 16 ft^3/s (0.45 m^3/s) Aug. 23, 24 (gage height, -0.32 ft or -0.098 m).

Period of record: Maximum discharge, 14,300 ft^3/s (405 m^3/s) June 23, 1972 (gage height, 11.76 ft or 3.584 m, from floodmark in gage well), from rating curve extended above 9,200 ft^3/s (261 m^3/s) on basis of slope-area measurement at gage height, 10.38 ft (3.164 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Sept. 2-4, 1971; minimum gage height -0.32 ft (-0.098 m) Aug. 23, 24, 1974.

Maximum stage known, about 14.0 ft (4.27 m) Mar. 18, 1936, from information by local residents (discharge about 20,000 ft^3/s or 570 m^3/s, from rating curve extended as explained above).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	747	550	474	668	275	427	347	71	1,110	32	33
2	32	568	430	378	577	237	662	347	68	807	29	36
3	54	478	357	334	482	219	1,160	350	62	536	27	174
4	46	396	308	287	393	268	1,940	313	56	369	27	178
5	68	337	317	240	300	567	1,600	288	52	281	27	104
6	65	293	311	200	260	808	1,030	281	48	218	25	77
7	58	247	308	180	240	719	730	254	45	170	23	59
8	57	212	308	150	200	689	560	225	42	137	22	50
9	62	190	396	130	180	1,070	459	216	41	113	22	47
10	59	164	494	140	160	1,500	377	206	46	99	22	44
11	54	142	474	130	150	1,280	337	181	68	82	20	36
12	52	130	415	100	140	915	340	432	52	70	20	35
13	49	121	371	80	130	661	387	1,110	44	58	20	34
14	76	115	327	90	120	500	475	892	40	53	19	31
15	62	113	275	100	98	395	718	673	46	82	18	29
16	58	130	233	120	96	364	724	507	159	54	17	27
17	56	108	212	110	94	319	608	411	81	46	19	26
18	53	101	180	99	86	276	494	327	58	41	20	28
19	52	101	170	140	80	254	421	269	50	40	21	28
20	48	99	368	186	80	226	341	223	46	38	20	26
21	45	97	1,140	278	72	262	298	195	42	35	18	71
22	41	99	974	458	350	295	285	176	41	33	17	110
23	40	93	719	515	799	299	285	167	40	32	17	77
24	38	115	532	616	633	294	260	142	36	49	28	62
25	37	247	423	572	515	268	241	125	52	37	22	57
26	36	415	474	470	404	252	231	110	105	32	18	57
27	35	528	990	498	330	235	218	97	95	32	18	54
28	34	723	1,260	733	286	215	205	88	74	30	23	49
29	221	823	974	995	------	208	196	90	132	44	41	46
30	1,600	709	742	979	------	246	224	82	188	74	65	44
31	1,000	------	581	813	------	433	------	74	------	38	46	------
TOTAL	4,217	8,641	15,613	10,595	7,923	14,549	16,233	9,198	1,980	4,840	763	1,729
MEAN	136	288	504	342	283	469	541	297	66.0	156	24.6	57.6
MAX	1,600	823	1,260	995	799	1,500	1,940	1,110	188	1,110	65	178
MIN	29	93	170	80	72	208	196	74	36	30	17	26
CFSM	1.00	2.12	3.71	2.51	2.08	3.45	3.98	2.18	.49	1.15	.18	.42
IN.	1.15	2.36	4.27	2.90	2.17	3.98	4.44	2.52	.54	1.32	.21	.47

CAL YR 1973 TOTAL 89,476 MEAN 245 MAX 2,570 MIN 17 CFSM 1.80 IN 24.47
WTR YR 1974 TOTAL 96,281 MEAN 264 MAX 1,940 MIN 17 CFSM 1.94 IN 26.34

PEAK DISCHARGE (BASE, 2,400 CFS).--No peak above base.

01545000 Kettle Creek near Westport, Pa.

LOCATION.--Lat 41°19'12", long 77°52'27", Clinton County, on left bank 0.4 mi (0.6 km) upstream from Short Bend Run, 3.5 mi (5.6 km) upstream from mouth and Westport, and 5 mi (8 km) downstream from Kettle Creek Lake.

DRAINAGE AREA.--233 mi^2 (603 km^2).

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 728.24 ft (221.968 m) above mean sea level, unadjusted. Prior to Oct. 14, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--20 years, 353 ft^3/s (10.0 m^3/s), 20.57 in/yr (522 mm/yr), adjusted for storage since October 1961.

EXTREMES.--Current year: Maximum discharge, 3,910 ft^3/s (111 m^3/s) Apr. 4 (gage height, 7.16 ft or 2.182 m); minimum, 27 ft^3/s (0.76 m^3/s) Aug. 24, 25 (gage height, 1.60 ft or 0.488 m).
Period of record: Maximum discharge, 7,970 ft^3/s (226 m^3/s) Mar. 8, 1956; maximum gage height, 13.31 ft (4.057 m) Jan. 22, 1959 (ice jam); minimum discharge, 3.0 ft^3/s (0.085 m^3/s) Dec. 6, 1964 (gage height, 1.12 ft or 0.341 m); minimum daily, 4.4 ft^3/s (0.12 m^3/s) Nov. 3, 6, 12, 1964.

REMARKS.--Records good except those for winter periods, which are fair. Regulation from Kettle Creek Lake 5 mi (8 km) upstream since February 1962 (see p.189).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	1,350	955	793	1,080	446	886	638	136	1,470	78	116
2	66	995	740	624	897	408	1,020	762	122	1,670	74	106
3	80	823	598	508	757	349	2,140	757	116	919	67	327
4	110	723	508	460	608	361	3,390	668	83	584	66	582
5	102	557	488	381	451	751	3,500	561	69	425	64	303
6	136	455	498	343	376	1,320	1,910	522	80	341	62	180
7	129	406	446	339	419	1,200	1,270	461	85	280	56	143
8	120	343	451	270	351	1,170	984	389	83	226	50	127
9	125	311	552	230	270	2,130	796	372	81	177	45	87
10	136	269	891	244	210	2,960	648	368	81	156	35	87
11	114	237	878	251	220	1,720	572	307	80	156	38	82
12	108	208	433	237	240	1,570	574	399	86	128	40	75
13	100	189	251	148	230	1,000	718	2,010	82	114	40	72
14	129	189	552	164	214	924	964	2,130	77	106	37	72
15	136	189	455	224	170	684	1,230	1,190	74	103	35	59
16	114	192	385	255	110	585	1,340	899	205	121	33	46
17	114	192	343	244	130	544	1,090	707	178	111	35	38
18	114	178	290	220	160	485	850	572	71	99	37	40
19	114	141	251	331	151	1,130	727	430	85	91	42	45
20	106	159	315	474	169	1,090	581	363	88	84	40	51
21	96	169	1,960	587	150	382	488	317	87	78	37	118
22	96	169	2,030	1,160	420	281	464	311	84	72	33	198
23	96	156	1,320	1,150	1,390	165	469	291	81	70	30	164
24	80	151	935	1,220	1,130	533	421	251	76	82	28	112
25	70	343	684	1,150	929	479	378	202	98	92	30	92
26	87	775	746	891	695	421	346	188	141	84	31	100
27	72	968	1,550	805	542	387	353	174	156	75	29	96
28	78	1,290	2,440	1,160	508	362	340	161	120	70	33	90
29	129	1,600	1,790	1,690	------	357	325	157	139	76	49	85
30	2,540	1,260	1,320	1,710	------	367	324	147	190	178	94	83
31	2,390	------	981	1,360	------	781	------	145	------	100	118	------
TOTAL	7,951	14,987	26,036	19,623	12,977	25,342	29,098	16,849	3,134	8,338	1,486	3,776
MEAN	256	500	840	633	463	817	970	544	104	269	47.9	126
MAX	2,540	1,600	2,440	1,710	1,390	2,960	3,500	2,130	205	1,670	118	582
MIN	64	141	251	148	110	165	324	145	69	70	28	38
MEAN≠	257	500	863	635	464	818	972	544	107	267	48.2	126
CFSM≠	1.10	2.15	3.70	2.73	1.99	3.51	4.17	2.33	.46	1.15	.21	.54
IN.≠	1.27	2.40	4.27	3.15	2.07	4.05	4.65	2.69	.51	1.33	.24	.60

CAL YR 1973 TOTAL 158,224 MEAN 433 MAX 4,970 MIN 41 MEAN≠ 433 CFSM≠ 1.86 IN.≠ 25.26
WTR YR 1974 TOTAL 169,597 MEAN 465 MAX 3,500 MIN 28 MEAN≠ 467 CFSM≠ 2.00 IN.≠ 27.23

≠ Adjusted for change in contents in Kettle Creek Lake.

01545500 West Branch Susquehanna River at Renovo, Pa.

LOCATION.--Lat 41°19'28", long 77°45'03", Clinton County, on left bank at foot of Eighth Street at Renovo, 1 mi (1.6 km) upstream from Paddy Run.

DRAINAGE AREA.--2,975 mi^2 (7,705 km^2).

PERIOD OF RECORD.--October 1907 to current year. Monthly discharge only for some periods, published in WSP 1302. Gage height records collected July 1895 to December 1903 and October 1905 to September 1974 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 634.19 ft (193.301 m) above mean sea level. Prior to Mar. 17, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--67 years, 4,912 ft^3/s (139 m^3/s), 22.42 in/yr (569 mm/yr).

EXTREMES.--Current year: Maximum discharge, 35,800 ft^3/s (1,014 m^3/s) Mar. 10 (gage height, 10.79 ft or 3.289 m); minimum, 430 ft^3/s (12.2 m^3/s) Aug. 26, 27, 28 (gage height, 0.05 ft or 0.015 m).

Period of record: Maximum discharge, 236,000 ft^3/s (6,684 m^3/s) Mar. 18, 1936 (gage height, 29.39 ft or 8.958 m, from floodmark in gage shelter), from rating curve extended above 87,000 ft^3/s (2,464 m^3/s) on basis of slope-area measurement of peak flow; minimum, 80 ft^3/s (2.27 m^3/s) Dec. 6, 1908 (gage height, -1.10 ft or -0.335 m).

Maximum stage known prior to 1895, 27.3 ft or 8.32 m, June 1, 1889, from floodmark (discharge, about 211,000 ft^3/s or 5,976 m^3/s).

REMARKS.--Records good. Flow regulated by Curwensville, Glendale, and Kettle Creek Lakes and First Fork Sinnemahoning Creek Reservoir about 15 mi (24 km) upstream (see p.189). Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1908-10, 1912-13, 1914-15(M). WRD Penna. 1969: 1968.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,340	10,000	12,800	11,800	10,600	5,390	14,500	5,500	2,890	18,200	1,530	4,090
2	2,340	9,250	10,200	9,790	9,050	6,400	17,400	6,680	3,830	17,200	1,240	4,190
3	1,970	8,230	8,530	8,300	7,750	6,720	31,300	6,610	3,600	11,200	1,090	7,560
4	2,460	6,870	6,920	7,210	7,070	7,280	32,600	6,730	2,760	7,470	1,080	17,100
5	3,060	5,800	6,240	5,980	5,720	8,130	29,100	6,300	2,270	5,950	1,310	11,800
6	4,170	4,980	6,240	5,140	4,630	9,720	21,000	6,260	2,110	5,570	1,340	7,530
7	4,590	4,360	5,590	5,110	4,710	9,500	15,300	5,490	1,930	4,610	1,230	5,740
8	4,000	3,830	5,020	4,410	4,450	9,190	11,900	4,790	1,790	3,760	1,050	4,710
9	3,470	3,450	4,960	3,550	3,990	20,800	10,300	4,540	1,670	3,180	927	3,840
10	2,460	4,330	8,580	3,850	3,460	34,100	9,030	4,790	1,630	2,750	898	3,350
11	2,020	5,730	9,270	3,990	3,290	26,700	8,450	4,370	1,570	2,510	994	2,850
12	1,900	5,430	7,910	4,550	3,400	19,800	8,890	5,470	1,410	2,570	1,020	2,630
13	1,670	4,920	6,880	4,300	3,280	14,500	9,540	19,400	1,370	2,610	1,080	2,430
14	1,690	3,550	6,700	3,220	3,350	10,800	10,100	19,500	1,280	1,920	945	2,430
15	1,900	2,410	6,160	3,740	3,210	8,640	11,900	15,100	1,290	3,730	827	2,920
16	1,780	2,640	5,570	4,530	2,780	7,520	11,900	11,300	3,310	3,500	655	3,240
17	1,430	3,290	5,320	6,670	2,620	10,500	10,400	8,820	5,310	2,440	641	2,260
18	1,310	3,330	4,470	7,890	2,900	9,330	8,770	7,620	4,450	1,980	724	1,660
19	1,290	3,010	3,780	10,800	2,770	8,380	7,530	6,480	3,410	1,690	927	1,760
20	1,240	2,950	3,920	16,400	2,540	7,690	6,890	5,710	2,720	1,560	850	1,910
21	1,160	2,860	12,700	17,100	2,570	6,140	5,940	5,170	2,550	1,320	829	2,210
22	1,100	2,900	17,000	25,900	3,640	7,340	5,410	4,570	2,440	1,240	720	5,810
23	1,050	3,060	12,900	23,500	11,600	7,260	5,410	4,340	2,220	1,160	617	5,970
24	1,010	3,060	10,500	22,300	10,100	7,500	5,250	4,420	2,100	1,350	578	4,370
25	939	4,780	8,730	19,300	8,520	6,930	4,860	4,420	2,060	1,530	578	3,460
26	932	9,870	8,800	14,800	7,080	5,900	4,130	3,880	3,110	1,330	547	3,120
27	883	10,600	17,500	12,100	5,810	5,400	3,920	3,300	4,500	1,240	430	2,850
28	861	14,100	26,400	12,200	5,290	5,190	3,510	2,990	4,310	1,340	453	2,570
29	1,200	18,300	21,500	14,800	------	5,250	3,320	2,970	4,070	1,260	1,280	2,410
30	13,000	16,200	17,600	15,000	------	5,330	3,310	2,810	4,550	2,320	3,280	2,520
31	14,500	------	14,300	12,900	------	10,500	------	2,580	------	2,120	4,650	------
TOTAL	83,725	184,090	302,990	321,130	146,180	313,830	331,860	202,910	82,510	120,610	34,320	129,290
MEAN	2,701	6,136	9,774	10,360	5,221	10,120	11,060	6,545	2,750	3,891	1,107	4,310
MAX	14,500	18,300	26,400	25,900	11,600	34,100	32,600	19,500	5,310	18,200	4,650	17,100
MIN	861	2,410	3,780	3,220	2,540	5,190	3,310	2,580	1,280	1,160	430	1,660
MEAN≠	2,751	6,138	9,780	10,290	5,342	10,120	11,050	6,557	2,764	3,874	1,110	4,322
CFSM≠	.92	2.06	3.29	3.46	1.80	3.40	3.71	2.20	.93	1.30	.37	1.45
IN.≠	1.06	2.30	3.79	3.99	1.87	3.92	4.14	2.54	1.04	1.50	.43	1.62

CAL YR 1973 TOTAL 2,048,895 MEAN 5,613 MAX 38,400 MIN 769 MEAN≠ 5,620 CFSM≠ 1.89 IN.≠ 25.64
WTR YR 1974 TOTAL 2,253,445 MEAN 6,174 MAX 34,100 MIN 430 MEAN≠ 6,182 CFSM≠ 2.08 IN.≠ 28.20

≠ Adjusted for change in contents in Curwensville, Glendale, and Kettle Creek Lakes and First Fork Sinnemahoning Creek Reservoir.

01545600 Young Womans Creek near Renovo, Pa.
(Hydrologic bench-mark station)

LOCATION.--Lat 41°23'22", long 77°41'28", Clinton County, on left bank, 0.3 mi (0.5 km) downstream from Laurelly Fork, 1.5 mi (2.4 km) upstream from Left Branch Young Womans Creek, 3.7 mi (6.0 km) upstream from mouth, and 5 mi (8 km) northeast of Renovo.

DRAINAGE AREA.--46.2 mi^2 (119.7 km^2).

PERIOD OF RECORD.--December 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 780 ft or 2.38 m.

AVERAGE DISCHARGE.--9 years (1965-74), 71.9 ft^3/s (2.04 m^3/s), 21.13 in/yr (537 mm/yr).

EXTREMES.--Current year: Maximum discharge, 861 ft^3/s (24.4 m^3/s) Apr. 4 (gage height, 3.63 ft or 1.106 m); minimum, 5.8 ft^3/s (0.16 m^3/s) Aug. 23, 24 (gage height, 1.64 ft (0.500 m).
Period of record: Maximum discharge, 5,370 ft^3/s (152 m^3/s) June 23, 1972 (gage height, 7.98 ft or 2.432 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s) on basis of slope-area measurement of peak flow; minimum, 1.1 ft^3/s (0.031 m^3/s) Sept. 6, 7, 1971; minimum gage height, 1.45 ft (0.442 m) Aug. 30, 31, Sept. 1, 1966.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	315	159	174	208	104	150	175	37	405	12	29
2	23	230	130	144	174	92	220	183	29	298	12	41
3	28	182	110	126	148	86	420	192	26	209	13	110
4	24	144	95	110	123	104	777	162	25	150	15	107
5	38	123	123	95	110	166	727	142	23	122	14	76
6	33	104	137	86	86	221	492	133	21	96	12	59
7	30	89	130	81	81	216	339	117	20	75	11	48
8	29	76	123	72	68	253	254	101	19	62	10	41
9	31	68	159	68	64	385	204	98	18	53	9.9	35
10	32	62	182	64	58	491	165	92	21	47	9.7	32
11	29	53	162	66	53	430	148	79	34	43	9.0	28
12	28	49	140	57	49	332	146	166	21	38	8.4	25
13	28	45	126	54	43	248	164	329	18	34	9.6	24
14	36	42	113	54	42	187	201	304	16	31	8.0	25
15	31	42	92	52	37	149	303	244	63	38	7.0	20
16	31	49	81	53	35	136	285	186	132	28	6.6	18
17	30	40	73	55	33	118	235	154	101	24	11	16
18	30	38	68	49	32	98	190	122	82	23	12	18
19	28	38	59	62	30	88	164	104	70	22	8.5	16
20	27	35	84	57	30	78	136	86	60	20	7.4	19
21	25	35	216	95	29	95	117	76	53	18	6.2	62
22	24	33	230	151	144	96	110	69	46	16	6.2	66
23	22	33	199	174	230	92	105	69	41	17	6.2	48
24	22	40	155	203	195	91	92	59	37	27	9.7	43
25	21	86	133	190	174	84	82	52	43	19	8.0	41
26	21	137	155	166	148	79	76	46	55	17	6.6	40
27	20	155	299	170	123	75	71	43	50	16	6.6	37
28	20	221	374	208	110	71	67	40	46	12	18	34
29	168	239	330	288	------	72	64	38	65	17	20	35
30	682	203	273	299	------	86	85	37	92	30	42	32
31	426	------	212	253	------	152	------	35	------	15	24	------
TOTAL	2,035	3,006	4,922	3,776	2,657	4,975	6,589	3,733	1,364	2,022	359.6	1,225
MEAN	65.6	100	159	122	94.9	160	220	120	45.5	65.2	11.6	40.8
MAX	682	315	374	299	230	491	777	329	132	405	42	110
MIN	18	33	59	49	29	71	64	35	16	12	6.2	16
CFSM	1.42	2.16	3.44	2.64	2.05	3.46	4.76	2.60	.98	1.41	.25	.88
IN.	1.64	2.42	3.96	3.04	2.14	4.01	5.31	3.01	1.10	1.63	.29	.99

CAL YR 1973 TOTAL 32,921.5 MEAN 90.2 MAX 739 MIN 7.5 CFSM 1.95 IN 26.51
WTR YR 1974 TOTAL 36,663.6 MEAN 100 MAX 777 MIN 6.2 CFSM 2.16 IN 29.52

PEAK DISCHARGE (BASE, 460 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	0130	3.57	820	4- 4	1630	3.63	861
3-10	0930	3.07	505	7- 1	0045	3.01	462

01546500 Spring Creek near Axemann, Pa.

LOCATION.--Lat 40°53'23", long 77°47'40", Centre County, on right bank at upstream side of highway bridge, 1.6 mi (2.6 km) west of Axemann, 1.8 mi (2.9 km) southwest of Bellefonte, and 2.5 mi (4.0 km) upstream from Logan Branch.

DRAINAGE AREA.--87.2 mi^2 (225.8 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 788.81 ft (240.429 m) above mean sea level. Prior to Nov. 19, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 84.9 ft^3/s (2.40 m^3/s), 13.22 in/yr (336 mm/yr).

EXTREMES.--Current year: Maximum discharge, 515 ft^3/s (14.6 m^3/s) Apr 4 (gage height, 3.68 ft or 1.122 m); minimum, 50 ft^3/s (1.42 m^3/s) Oct. 25, 28, Aug. 26, 27; minimum gage height, 2.04 ft (0.622 m) Oct. 25, 28.

Period of record: Maximum discharge, 5,410 ft^3/s (153 m^3/s) June 23, 1972 (gage height, 7.47 ft or 2.277 m in gage well, 8.75 ft or 2.667 m outside from floodmarks), from rating curve extended above 1,400 ft^3/s (39.6 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 9.6 ft^3/s (0.27 m^3/s) Nov. 24, 1941 (gage height, 1.69 ft or 0.515 m); minimum daily, 20 ft^3/s (0.57 m^3/s) Dec. 20, 30, 1963, Jan. 28, 29, 31, 1966.

Flood of March 1936 reached a stage of 8.6 ft (2.62 m), from information by local residents.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Occasional regulation at low flow by fish hatchery and Rockview Penitentiary above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	69	60	156	156	108	213	127	99	95	70	83
2	64	62	60	140	151	108	286	110	86	81	70	108
3	61	59	62	135	145	104	390	114	83	78	69	104
4	61	58	66	131	138	104	462	108	81	75	68	93
5	64	58	90	123	131	101	386	104	78	99	65	78
6	58	58	110	118	127	97	326	106	76	91	63	72
7	56	57	96	114	127	99	272	104	78	78	62	70
8	56	57	80	108	120	101	246	101	75	76	62	68
9	57	57	100	110	116	151	256	101	75	75	62	66
10	57	57	120	110	110	193	222	99	75	76	61	65
11	57	56	110	110	110	174	204	97	76	79	60	63
12	57	56	96	103	108	169	190	174	73	72	60	65
13	56	55	90	93	108	156	182	210	72	69	65	66
14	56	55	94	91	106	147	177	161	69	68	62	76
15	55	56	86	97	103	140	182	145	78	81	61	63
16	55	63	80	114	97	138	166	133	129	72	60	62
17	55	57	76	142	97	131	161	125	90	69	57	61
18	55	55	74	127	95	125	154	118	81	68	57	61
19	55	54	72	133	97	125	149	112	81	68	56	60
20	54	58	88	129	95	116	142	108	88	63	56	61
21	53	56	177	234	93	133	135	104	81	63	55	73
22	54	54	147	253	156	125	138	104	78	62	55	66
23	54	54	133	234	140	116	140	125	93	65	57	61
24	54	56	125	216	116	112	131	106	85	69	55	58
25	54	66	116	202	114	110	125	97	86	65	54	61
26	54	68	151	185	108	106	120	93	93	65	54	61
27	54	64	237	179	104	106	116	90	85	61	52	60
28	52	70	231	182	104	104	114	88	83	60	61	60
29	82	66	207	179	------	104	112	90	88	81	61	61
30	77	62	188	169	------	145	114	88	81	125	72	60
31	61	------	169	164	------	207	------	86	------	75	57	------
TOTAL	1,797	1,773	3,591	4,581	3,272	3,955	6,011	3,528	2,496	2,324	1,879	2,066
MEAN	58.0	59.1	116	148	117	128	200	114	83.2	75.0	60.6	68.9
MAX	82	70	237	253	156	207	462	210	129	125	72	108
MIN	52	54	60	91	93	97	112	86	69	60	52	58
CFSM	.67	.68	1.33	1.70	1.34	1.47	2.29	1.31	.95	.86	.70	.79
IN.	.77	.76	1.53	1.95	1.40	1.69	2.56	1.51	1.06	.99	.80	.88

CAL YR 1973 TOTAL 40,211 MEAN 110 MAX 505 MIN 52 CFSM 1.26 IN 17.15
WTR YR 1974 TOTAL 37,273 MEAN 102 MAX 462 MIN 52 CFSM 1.17 IN 15.90

PEAK DISCHARGE (BASE, 350 CFS).--Jan. 21 (1500) 361 cfs (3.34 ft); Apr. 4 (0630) 515 cfs (3.68 ft).

NOTE.--No gage-height record Nov. 20 to Dec. 19.

01547100 Spring Creek at Milesburg, Pa.

LOCATION.--Lat 40°55'54", long 77°47'13", Centre County, on left bank 60 ft (18 m) downstream from privately-owned bridge, 400 ft (122 m) west of State Route 144, 0.8 mi (1.3 km) upstream from mouth and Milesburg.

DRAINAGE AREA.--142 mi^2 (368 km^2).

PERIOD OF RECORD. -May 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 696.42 ft (212.269 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 208 ft^3/s (5.891 m^3/s), 19.89 in/yr (505 mm/yr).

EXTREMES.--Current year: Maximum discharge, 966 ft^3/s (27.4 m^3/s) Apr. 4 (gage height, 5.39 ft or 1.643 m), from rating curve extended above 540 ft^3/s (15.3 m^3/s); minimum, 118 ft^3/s (3.34 m^3/s) Oct. 23 (gage height, 2.55 ft or 0.777 m).
Period of record: Maximum discharge, 8,170 ft^3/s (231 m^3/s) June 23, 1972 (gage height, 13.20 ft or 4.023 m, from peak-stage indicator), from rating curve extended above 900 ft^3/s (25.5 m^3/s) on basis of computation of peak flow over dam; minimum, 60 ft^3/s (1.70 m^3/s) Sept. 30, 1969 (gage height, 2.22 ft or 0.677 m).

REMARKS.--Records good. Occasional regulation at low flow by fish hatchery and by Rockview Penitentiary above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	165	149	317	347	248	511	269	228	218	177	170
2	161	154	149	289	339	244	638	244	207	193	177	237
3	155	148	151	278	323	239	810	253	203	185	174	235
4	153	146	153	268	311	239	886	242	197	185	174	218
5	161	147	215	252	293	237	762	235	195	222	170	185
6	149	147	249	246	281	228	655	237	189	209	164	177
7	147	143	215	239	281	228	566	233	191	189	162	172
8	147	142	199	231	271	251	521	228	185	185	160	166
9	148	143	239	231	262	399	531	233	183	183	159	168
10	147	140	262	229	253	521	470	228	187	185	159	164
11	146	138	245	232	251	461	434	222	187	193	157	162
12	144	140	230	221	242	425	408	339	181	179	155	160
13	139	140	222	207	242	385	402	419	177	174	162	166
14	139	140	222	207	239	358	391	363	172	174	159	175
15	138	144	206	213	231	336	396	334	189	199	153	159
16	139	151	195	242	226	326	368	308	269	179	151	155
17	141	142	192	291	224	311	352	291	205	174	150	151
18	142	139	183	268	220	296	341	274	191	170	148	151
19	141	139	180	283	224	291	331	262	191	170	146	151
20	140	140	193	276	222	274	313	255	199	162	146	151
21	137	138	328	451	216	308	306	244	189	160	144	177
22	140	135	297	566	323	291	308	246	185	162	144	170
23	139	134	280	537	306	269	308	279	205	166	148	157
24	140	138	264	495	267	264	291	246	195	172	146	151
25	138	152	251	458	262	258	281	233	195	166	143	155
26	139	155	299	419	253	255	271	224	207	166	144	153
27	138	148	426	405	246	253	262	220	195	162	143	153
28	135	162	441	399	244	248	258	218	193	160	157	153
29	174	156	410	405	------	251	258	218	197	189	168	153
30	184	152	374	377	------	336	253	216	193	264	185	151
31	154	------	342	366	------	483	------	216	------	187	159	------
TOTAL	4,547	4,358	7,761	9,898	7,399	9,513	12,882	8,029	5,880	5,682	4,884	5,046
MEAN	147	145	250	319	264	307	429	259	196	183	158	168
MAX	184	165	441	566	347	521	886	419	269	264	185	237
MIN	135	134	149	207	216	228	253	216	172	160	143	151
CFSM	1.04	1.02	1.76	2.25	1.86	2.16	3.02	1.82	1.38	1.29	1.11	1.18
IN.	1.19	1.14	2.03	2.59	1.94	2.49	3.37	2.10	1.54	1.49	1.28	1.32

CAL YR 1973 TOTAL 89,601 MEAN 245 MAX 865 MIN 134 CFSM 1.73 IN 23.47
WTR YR 1974 TOTAL 85,879 MEAN 235 MAX 886 MIN 134 CFSM 1.65 IN 22.50

PEAK DISCHARGE (BASE,570 CFS).--Jan. 21 (1645) 625 cfs (4.68 ft); Apr. 4 (0730) 966 cfs (5.39 ft).

01547200 Bald Eagle Creek below Spring Creek at Milesburg, Pa.

LOCATION.--Lat 40°56'35", long 77°47'12", Centre County, on right bank 130 ft (40 m) downstream from bridge on U.S. Highway 220 at Milesburg, 250 ft (76 m) downstream from Spring Creek.

DRAINAGE AREA.--265 mi^2 (686 km^2).

PERIOD OF RECORD.--October 1955 to current year. Monthly discharge only for October, November 1955 published in WSP 1722. Prior to October 1967, published as North Bald Eagle Creek below Spring Creek at Milesburg.

GAGE.--Water-stage recorder. Datum of gage is 682.49 ft (208.023 m) above mean sea level. Prior to Aug. 31, 1956, nonrecording gage at site 130 ft (40 m) upstream at same datum.

AVERAGE DISCHARGE.--19 years, 372 ft^3/s (10.5 m^3/s), 19.06 in/yr (484 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 4,400 ft^3/s (125 m^3/s) Apr. 4, on basis of runoff comparison with nearby stations; minimum, 122 ft^3/s (3.46 m^3/s) Oct. 28 (gage height, -0.36 ft or -0.110 m).
Period of record: Maximum discharge, 21,300 ft^3/s (603 m^3/s) June 23, 1972 (gage height, 11.67 ft or 3.557 m, from floodmark in gage well), from rating curve extended above 9,000 ft^3/s (255 m^3/s); minimum, 50 ft^3/s (1.42 m^3/s) Aug. 3, 1966 (gage height, -0.80 ft or -0.244 m).

REMARKS.--Records fair. Records of water quality for the current year, collected at Curtin 3 miles downstream, are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	365	357	690	664	410	800	364	406	507	231	238
2	180	324	308	570	604	401	1,400	330	308	374	231	445
3	170	263	285	523	552	425	2,800	333	276	320	248	674
4	160	234	274	486	490	429	3,500	348	258	300	328	618
5	270	220	844	420	411	456	1,600	330	248	541	304	405
6	260	206	996	415	399	450	1,330	329	235	432	259	332
7	230	193	585	381	406	449	1,030	310	233	349	238	300
8	210	183	466	319	364	612	881	300	223	304	227	274
9	200	177	764	322	335	1,880	900	330	218	278	220	259
10	190	170	1,010	350	311	2,190	812	320	223	270	220	248
11	180	164	748	389	326	1,270	780	310	261	281	210	238
12	170	161	593	452	314	945	733	560	218	241	203	231
13	160	161	510	992	315	730	719	720	206	223	217	231
14	180	158	490	959	321	608	700	600	194	213	223	281
15	170	167	424	734	286	542	660	520	228	285	203	227
16	170	223	363	906	261	519	600	480	534	231	193	210
17	160	210	309	847	283	478	548	450	362	210	189	199
18	160	193	289	780	258	427	515	410	292	199	186	196
19	150	186	300	860	268	412	491	380	272	196	183	193
20	150	186	385	800	273	400	451	370	298	183	180	193
21	140	180	1,340	1,500	270	500	426	353	266	177	177	270
22	150	177	914	2,030	951	460	429	347	251	177	173	320
23	150	173	703	1,550	908	410	470	415	286	183	177	234
24	140	180	578	1,280	612	390	420	351	285	223	173	213
25	140	316	500	1,040	539	380	389	310	271	199	170	210
26	135	473	793	847	451	370	367	290	488	186	170	206
27	133	383	1,660	789	404	360	349	278	348	180	167	199
28	133	551	1,610	844	391	350	359	270	304	173	206	199
29	285	516	1,190	1,020	------	400	332	269	334	231	238	199
30	566	423	964	872	------	580	346	270	300	409	340	199
31	285	------	784	767	------	840	------	265	------	259	255	------
TOTAL	5,941	7,516	21,336	24,734	11,967	19,073	25,137	11,512	8,626	8,334	6,739	8,241
MEAN	192	251	688	798	427	615	838	371	288	269	217	275
MAX	566	551	1,660	2,030	951	2,190	3,500	720	534	541	340	674
MIN	133	158	274	319	258	350	332	265	194	173	167	193
CFSM	.72	.95	2.60	3.01	1.61	2.32	3.16	1.40	1.09	1.02	.82	1.04
IN.	.83	1.06	3.00	3.47	1.68	2.68	3.53	1.62	1.21	1.17	.95	1.16

CAL YR 1973 TOTAL 160,002 MEAN 438 MAX 3,490 MIN 133 CFSM 1.65 IN 22.46
WTR YR 1974 TOTAL 159,156 MEAN 436 MAX 3,500 MIN 133 CFSM 1.65 IN 22.34

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-21	1645	3.33	2,870	4- 4	Unk.	Unk.	4,400*
3-10	0145	3.20	2,700				

NOTE.--No gage height record Mar. 20 to Apr. 5.
* About.

01547500 Bald Eagle Creek at Blanchard, Pa.

LOCATION.--Lat 41°03'06", long 77°36'17", Centre County, on left bank, 0.4 mi (0.6 km) upstream from Foster Joseph Sayers Lake, 0.7 mi (1.1 km) upstream from Marsh Creek, and 0.9 mi (1.4 km) south of Blanchard.

DRAINAGE AREA.--339 mi^2 (878 km^2).

PERIOD OF RECORD.--May 1954 to current year. Prior to October 1967, published as North Bald Eagle Creek at Blanchard.

GAGE.--Water-stage recorder. Datum of gage is 579.79 ft (176.720 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 425 ft^3/s (12.0 m^3/s), 17.03 in/yr (433 mm/yr), adjusted for storage since March 1971.

EXTREMES.--Current year: Maximum discharge, 2,260 ft^3/s (64.0 m^3/s) Apr. 8 (gage height, 6.25 ft or 1.905 m); minimum, 59 ft^3/s (1.67 m^3/s) May 2 (gage height, 2.96 ft or 0.902 m).
Period of record: Maximum discharge, 10,100 ft^3/s (286 m^3/s) Mar. 10, 1964 (gage height, 11.59 ft or 3.533 m), from rating curve extended above 4,100 ft^3/s (116 m^3/s); no flow June 16, Nov. 10, 1970, result of shutoff at lake.

REMARKS.--Records good. Flow regulated by Foster Joseph Sayers Lake 0.4 mi (0.6 km) upstream (see p.190). Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1903: 1956(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	441	463	375	810	698	511	718	175	511	699	200	307
2	474	463	309	679	662	511	1,310	207	374	507	200	495
3	357	462	304	616	633	511	1,740	175	317	317	242	502
4	293	458	327	536	505	493	1,270	175	236	284	342	605
5	367	456	613	493	505	469	1,660	175	211	492	408	478
6	341	450	1,600	493	445	475	1,940	161	211	535	350	414
7	253	504	829	422	421	471	1,990	158	211	439	230	396
8	216	589	567	367	422	594	1,790	174	226	282	200	359
9	228	739	649	448	421	1,060	1,280	175	236	285	196	320
10	232	734	1,140	494	418	924	1,090	175	249	279	196	309
11	232	768	1,140	433	372	1,360	836	174	427	267	196	309
12	232	714	715	366	352	1,650	761	175	264	267	196	300
13	232	510	596	367	355	1,650	763	986	233	267	196	273
14	233	376	545	367	357	1,610	764	1,690	223	268	196	267
15	203	214	544	368	357	960	765	1,310	218	392	196	266
16	176	203	457	678	357	573	735	816	558	285	196	252
17	172	232	371	1,030	337	574	578	541	544	228	196	246
18	174	232	310	1,090	327	372	498	512	307	211	196	246
19	175	232	309	981	328	180	501	451	244	211	190	240
20	175	202	387	977	328	155	503	451	232	176	186	233
21	175	186	997	1,040	331	201	497	359	257	162	187	311
22	175	186	1,290	1,490	492	260	437	285	266	162	187	334
23	175	220	1,060	1,650	823	208	306	359	326	164	186	323
24	175	231	781	1,610	1,010	212	226	408	352	164	188	260
25	175	255	623	1,550	848	205	206	376	352	162	189	254
26	175	553	790	1,280	551	188	180	353	352	180	188	253
27	175	609	1,280	841	432	176	161	355	352	189	176	254
28	175	597	1,540	836	472	171	158	307	383	261	193	254
29	357	669	1,580	1,050	------	192	151	285	416	406	351	253
30	791	473	1,010	984	------	275	150	285	341	516	579	254
31	622	------	996	901	------	471	------	324	------	241	517	------
TOTAL	8,376	12,980	24,034	25,247	13,559	17,662	23,964	12,552	9,429	9,298	7,449	9,567
MEAN	270	433	775	814	484	570	799	405	314	300	240	319
MAX	791	768	1,600	1,650	1,010	1,650	1,990	1,690	558	699	579	605
MIN	172	186	304	366	327	155	150	158	211	162	176	233
MEAN≠	204	296	777	811	487	724	909	510	311	300	211	284
CFSM≠	.60	.87	2.29	2.39	1.44	2.14	2.68	1.50	.92	.88	.62	.84
IN.≠	.69	.97	2.64	2.76	1.50	2.47	2.99	1.73	1.03	1.02	.72	.94

CAL YR 1973 TOTAL 181,602 MEAN 498 MAX 2,160 MIN 130 MEAN≠ 498 CFSM≠ 1.47 IN.≠ 19.93
WTR YR 1974 TOTAL 174,117 MEAN 477 MAX 1,990 MIN 150 MEAN≠ 486 CFSM≠ 1.43 IN.≠ 19.46

≠ Adjusted for change in contents in Foster Joseph Sayers Lake.

01547700 Marsh Creek at Blanchard, Pa.

LOCATION.--Lat 41°03'34", long 77°36'22", Centre County, on right bank 20 ft (6 m) downstream from highway bridge, 0.5 mi (0.8 km) southwest of Blanchard, 0.6 mi (1.0 km) downstream from bridge on U.S. Highway 222, and 0.6 mi (1.0 km) upstream from mouth.

DRAINAGE AREA.--44.1 mi^2 (114.2 km^2).

PERIOD OF RECORD.--October 1955 to current year. Monthly discharge only for October 1955, published in WSP 1722.

GAGE.--Water-stage recorder. Datum of gage is 586.16 ft (178.662 m) above mean sea level. Prior to Aug. 31, 1956, nonrecording gage at site 20 ft (6 m) upstream at same datum.

AVERAGE DISCHARGE.--19 years, 55.7 ft^3/s (1.577 m^3/s), 17.15 in/yr (436 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,160 ft^3/s (32.9 m^3/s) Dec. 5 (gage height, 4.37 ft or 1.332 m); from rating curve extended above 140 ft^3/s (3.96 m^3/s) as explained below; minimum, 6.4 ft^3/s (0.18 m^3/s) Feb. 16, Aug. 25, 26, 27, 28 (gage height, 2.10 ft or 0.640 m).
Period of record: Maximum discharge, 4,870 ft^3/s (140 m^3/s) June 23, 1972 (gage height, 6.98 ft or 2.128 m, from floodmark in gage well, 7.96 ft or 2.426 m outside, from floodmarks), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s) on basis of slope-area measurement of peak flow; no flow Aug. 30, 31, 1966.

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

REVISIONS (WATER YEARS).--WRD Penna. 1972: 1971 (runoff in cubic feet per second per square mile and in inches).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	100	95	117	123	57	243	43	63	337	31	36
2	19	83	72	92	102	51	481	34	37	168	34	34
3	19	70	62	81	85	53	638	40	34	112	43	68
4	19	59	55	72	70	55	563	39	31	132	90	57
5	95	49	335	72	58	63	359	37	29	239	64	39
6	49	43	411	59	49	70	225	40	26	164	45	30
7	37	37	252	51	44	74	157	40	23	117	34	26
8	30	34	178	48	38	157	123	39	22	90	29	22
9	26	30	266	43	35	507	112	40	20	70	26	19
10	22	27	280	40	33	570	94	40	29	59	22	17
11	20	25	225	46	31	337	85	37	43	50	19	16
12	19	24	178	40	29	217	85	157	23	40	17	17
13	17	22	147	37	27	150	87	326	19	34	16	18
14	20	21	132	35	26	112	90	239	17	30	14	22
15	19	22	107	47	23	90	90	164	31	51	12	14
16	18	27	90	107	21	81	76	120	107	30	11	12
17	17	21	80	171	20	70	68	92	79	23	13	11
18	17	19	72	141	20	61	63	74	63	20	12	11
19	17	19	68	125	19	53	59	63	51	19	11	9.9
20	15	19	107	115	19	47	51	51	47	17	9.3	9.9
21	14	18	295	320	18	70	48	47	40	15	8.7	51
22	13	18	248	370	117	64	50	47	36	13	7.7	47
23	13	17	178	300	110	63	51	50	36	13	7.7	31
24	12	21	129	243	90	63	45	40	29	19	7.7	24
25	12	74	102	205	83	55	40	34	26	14	7.2	22
26	11	109	147	157	72	53	39	30	24	12	6.8	20
27	12	100	300	138	58	51	37	27	22	12	6.8	18
28	11	157	348	161	55	48	36	24	22	13	7.7	17
29	50	150	257	201	------	48	34	24	33	112	11	17
30	127	124	185	185	------	85	36	24	117	94	19	16
31	72	------	141	157	------	193	------	24	------	43	12	------
TOTAL	855	1,539	5,542	3,976	1,475	3,668	4,165	2,086	1,179	2,162	654.6	751.8
MEAN	27.6	51.3	179	128	52.7	118	139	67.3	39.3	69.7	21.1	25.1
MAX	127	157	411	370	123	570	638	326	117	337	90	68
MIN	11	17	55	35	18	47	34	24	17	12	6.8	9.9
CFSM	.63	1.16	4.06	2.90	1.20	2.68	3.15	1.53	.89	1.58	.48	.57
IN.	.72	1.30	4.67	3.35	1.24	3.09	3.51	1.76	.99	1.82	.55	.63

CAL YR 1973 TOTAL 25,151.4 MEAN 68.9 MAX 715 MIN 5.2 CFSM 1.56 IN 21.22
WTR YR 1974 TOTAL 28,053.4 MEAN 76.9 MAX 638 MIN 6.8 CFSM 1.74 IN 23.66

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1730	4.37	1,160	4- 2	1930	4.16	954
1-21	1400	3.66	542	6-30	2300	4.08	882
3- 9	2300	3.87	701	7-29	2000	3.67	549

01547800 South Fork Beech Creek near Snow Shoe, Pa.

LOCATION.--Lat 41°01'30", long 77°54'15", Centre County, on right bank at downstream side of bridge on State Highway 144, 0.6 mi (1.0 km) downstream from Horsehead Run, 2.5 mi (4.0 km) east of Snow Shoe, and 4.2 mi (6.8 km) upstream from confluence with North Fork Beech Creek.

DRAINAGE AREA.--12.2 mi^2 (31.6 km^2).

PERIOD OF RECORD.--Occasional discharge measurements and annual maximum, water years 1959-69. May 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1 560 ft (475 m) from topographic map. October 1958 to May 1970, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--5 years, 23.8 ft^3/s (0.67 m^3/s), 26.49 in/yr (673 mm/yr).

EXTREMES.--Current year: Maximum discharge, 152 ft^3/s (4.30 m^3/s) Apr. 4 (gage height, 2.48 ft or 0.756 m), from rating curve extended above 20 ft^3/s (0.57 m^3/s) on basis of contracted-opening measurement at gage height, 4.94 ft (1.506 m); minimum, 1.7 ft^3/s (0.048 m^3/s) Oct. 28 (gage height, 0.88 ft or 0.268 m).
Period of record: Maximum discharge, 1,170 ft^3/s (33.1 m^3/s) June 23, 1972 (gage height, 5.36 ft or 1.634 m), from rating curve extended above 600 ft^3/s (17.0 m^3/s) on basis of contracted-opening measurement at gage height, 4.94 ft (1.506 m); minimum, 1.7 ft^3/s (0.048 m^3/s) Oct. 9, 10, 1970; minimum gage height, 0.83 ft (0.253 m) Oct. 9, 10, 1970, Sept. 4, 5, 1971.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	26	23	41	40	21	23	22	21	34	9.5	10
2	4.4	21	21	35	38	21	52	20	16	24	8.4	15
3	4.9	19	20	32	33	20	101	21	14	22	8.7	26
4	4.2	17	19	29	29	21	134	21	13	21	13	26
5	12	16	23	27	26	23	92	20	12	30	13	19
6	8.4	15	26	25	24	23	67	21	11	30	10	16
7	6.6	14	21	23	23	24	54	21	10	27	9.1	15
8	5.7	12	20	21	22	30	44	20	9.8	24	8.4	13
9	5.2	11	25	20	20	88	39	20	9.3	21	8.0	11
10	4.7	10	27	19	19	109	36	21	10	20	7.6	10
11	4.2	9.1	25	20	18	77	35	20	14	19	6.6	9.5
12	3.6	8.7	24	19	17	61	38	56	11	16	6.3	8.7
13	3.4	8.4	23	19	16	48	36	76	9.1	15	6.3	8.7
14	4.0	8.4	22	19	16	38	36	55	8.2	14	5.7	11
15	3.2	8.4	20	20	14	32	37	45	13	20	4.9	8.0
16	3.1	13	19	24	13	30	34	35	26	14	4.7	7.0
17	2.9	9.9	16	29	12	29	31	29	19	13	6.6	6.3
18	2.6	8.7	14	26	12	25	29	26	17	12	5.2	6.0
19	2.6	8.7	14	29	12	23	28	23	16	11	4.7	5.7
20	2.3	8.4	20	31	11	21	26	20	15	9.9	4.2	5.7
21	2.9	8.0	38	44	11	24	24	18	14	9.1	3.8	15
22	5.7	8.0	31	59	27	24	24	17	13	8.4	3.6	18
23	4.2	7.6	31	69	28	21	26	18	14	8.4	3.6	13
24	2.0	8.4	27	76	23	20	24	16	13	9.1	3.4	11
25	1.9	15	25	69	23	20	23	15	12	8.0	3.2	9.9
26	1.9	20	40	57	21	19	22	14	13	7.3	3.4	9.5
27	1.9	19	77	53	21	19	21	13	12	7.0	2.7	8.7
28	1.7	26	76	52	20	19	21	12	11	6.6	3.4	8.4
29	21	26	72	56	------	19	20	12	14	13	4.7	8.4
30	32	25	61	47	------	22	20	12	15	21	7.6	8.0
31	21	------	48	44	------	26	------	12	------	12	5.4	------
TOTAL	187.8	415.7	948	1,134	589	997	1,197	751	405.4	506.8	195.7	347.5
MEAN	6.06	13.9	30.6	36.6	21.0	32.2	39.9	24.2	13.5	16.3	6.31	11.6
MAX	32	26	77	76	40	109	134	76	26	34	13	26
MIN	1.7	7.6	14	19	11	19	20	12	8.2	6.6	2.7	5.7
CFSM	.50	1.14	2.51	3.00	1.72	2.64	3.27	1.98	1.11	1.34	.52	.95
IN.	.57	1.27	2.89	3.46	1.80	3.04	3.65	2.29	1.24	1.55	.60	1.06

CAL YR 1973 TOTAL 7,571.8 MEAN 20.7 MAX 200 MIN 1.3 CFSM 1.70 IN 23.09
WTR YR 1974 TOTAL 7,674.9 MEAN 21.0 MAX 134 MIN 1.7 CFSM 1.72 IN 23.40

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 9	2400	2.43	140	5-12	1900	2.41	132
4- 4	0445	2.48	152				

01547950 Beech Creek at Monument, Pa.

LOCATION.--Lat 41°06'42", long 77°42'09", Centre County, on right bank 800 ft (244 m) downstream from bridge at Monument, 850 ft (259 m) downstream from Monument Run, 0.6 mi (1.0 km) upstream from Twin Run, and 8.7 mi (14.0 km) upstream from mouth.

DRAINAGE AREA.--152 mi^2 (394 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 750 ft (229 m) from topographic map.

AVERAGE DISCHARGE.--6 years, 288 ft^3/s (8.16 m^3/s), 25.73 in/yr (654 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,240 ft^3/s (63.4 m^3/s) Apr. 4 (gage height, 9.10 ft or 2.774 m); minimum, 52 ft^3/s (1.47 m^3/s) Oct. 1, 2 (gage height, 5.36 ft or 1.634 m).
Period of record: Maximum discharge, 9,740 ft^3/s (276 m^3/s) June 23, 1972 (gage height, 15.22 ft or 4.639 m), from rating curve extended above 2,500 ft^3/s (70.8 m^3/s) on basis of slope-area measurement of peak flow; minimum, 17 ft^3/s (0.48 m^3/s) Sept. 4, 5, 1971; minimum gage height, 5.11 ft (1.558 m) Sept. 23, 24, 1972.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	508	482	623	653	302	436	262	321	1,260	220	165
2	68	432	414	519	564	278	711	220	227	917	185	366
3	72	383	370	461	492	272	1,530	242	203	702	173	469
4	64	337	337	414	423	290	2,140	244	190	570	193	595
5	197	306	396	366	366	314	1,700	234	177	729	178	453
6	152	274	451	337	329	325	1,240	243	165	746	145	364
7	133	244	405	306	310	337	937	244	153	617	129	306
8	125	221	383	271	277	439	762	228	144	510	119	258
9	116	203	461	264	254	1,160	666	228	136	424	116	221
10	108	183	564	244	231	1,850	567	234	140	362	117	194
11	99	164	530	254	228	1,430	534	212	150	311	104	172
12	92	152	498	247	203	1,090	553	477	130	262	96	157
13	87	143	466	230	194	840	556	1,050	118	226	96	145
14	92	136	437	230	197	671	563	953	106	202	88	158
15	83	133	383	240	175	557	616	785	196	296	82	128
16	78	159	337	270	157	500	558	636	586	200	77	114
17	74	136	310	340	155	447	501	532	422	166	90	105
18	73	121	281	313	145	382	451	453	369	148	92	100
19	72	119	257	374	143	344	422	388	326	140	78	94
20	68	114	295	400	147	307	375	338	298	125	73	95
21	64	106	691	558	138	358	337	302	264	114	68	174
22	62	104	659	803	295	368	325	282	236	108	65	244
23	62	101	617	895	409	335	328	295	232	110	64	162
24	61	112	541	923	362	328	292	257	202	120	63	141
25	57	218	471	867	366	304	263	227	185	100	60	135
26	56	362	593	756	337	290	242	209	191	95	57	132
27	55	374	937	723	307	275	225	194	175	93	56	124
28	54	553	1,130	749	290	260	213	179	160	94	59	119
29	189	599	1,050	909	------	265	203	174	213	288	96	120
30	703	553	895	859	------	299	203	174	248	580	111	121
31	519	------	729	762	------	424	------	162	------	281	101	------
TOTAL	3,790	7,550	16,370	15,507	8,147	15,641	18,449	10,658	6,663	10,896	3,251	6,131
MEAN	122	252	528	500	291	505	615	344	222	351	105	204
MAX	703	599	1,130	923	653	1,850	2,140	1,050	586	1,260	220	595
MIN	54	101	257	230	138	260	203	162	106	93	56	94
CFSM	.80	1.66	3.47	3.29	1.91	3.32	4.05	2.26	1.46	2.31	.69	1.34
IN.	.93	1.85	4.01	3.80	1.99	3.83	4.52	2.61	1.63	2.67	.80	1.50

CAL YR 1973 TOTAL 94,797 MEAN 260 MAX 1,360 MIN 36 CFSM 1.71 IN 23.20
WTR YR 1974 TOTAL 123,053 MEAN 337 MAX 2,140 MIN 54 CFSM 2.22 IN 30.12

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-10	0430	8.81	1,950	7- 1	0415	8.41	1,580
4- 4	1045	9.10	2,240				

01548000 Bald Eagle Creek at Beech Creek Station, Pa.

LOCATION.--Lat 41°03'55", long 77°34'03", Clinton County, at downstream end of center pier of highway bridge just downstream from Beech Creek, at Beech Creek Station, and 3 mi (4.8 km) downstream from Foster Joseph Sayers Lake.

DRAINAGE AREA.--559 mi^2 (1,448 km^2).

PERIOD OF RECORD.--July 1910 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1967, published as North Bald Eagle Creek at Beech Creek Station.

GAGE.--Water-stage recorder. Datum of gage is 571.74 ft (174.27 m) above mean sea level (Pennsylvania Department of Transportation bench mark). Prior to Jan. 10, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--64 years, 789 ft^3/s (22.3 m^3/s), 19.17 in/yr (487 mm/yr), adjusted for storage since March 1971.

EXTREMES.--Current year: Maximum discharge, 5,230 ft^3/s (148 m^3/s) Apr. 4 (gage height, 5.99 ft or 1.826 m, from telemark reading); minimum, 250 ft^3/s (7.08 m^3/s) Oct. 26, 27, 28 (gage height, 1.80 ft or 0.549 m).
Period of record: Maximum discharge, 25,600 ft^3/s (725 m^3/s) Mar. 18, 1936 (gage height, 14.42 ft or 4.395 m), from rating curve extended above 12,000 ft^3/s (340 m^3/s); minimum, 29 ft^3/s (0.82 m^3/s) Aug. 22, 1930 (gage height, 1.21 ft or 0.369 m); minimum daily, 80 ft^3/s (2.27 m^3/s) Jan. 16, 24, 25, 1931.

REMARKS.--Records good. Flow regulated by Foster Joseph Sayers Lake 3 mi (4.8 km) upstream (see p.190).

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1111: 1936(M). WSP 1302: 1911(M), 1912-15, 1918, 1922, 1923-25(M), 1931. WSP 1502: 1919, 1920(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	494	1,160	1,020	1,810	1,710	868	1,650	465	923	2,810	505	494
2	553	1,040	848	1,440	1,470	843	2,860	448	636	1,840	471	1,020
3	448	957	762	1,280	1,350	838	4,820	443	553	1,270	505	1,120
4	399	884	744	1,120	1,050	835	5,030	448	459	1,050	691	1,510
5	720	827	1,540	940	958	849	4,740	432	421	1,730	721	1,100
6	565	776	3,090	931	846	872	4,380	432	405	1,690	597	888
7	437	789	1,740	814	781	896	3,930	432	394	1,350	448	781
8	384	853	1,230	691	738	1,290	3,380	432	394	958	384	684
9	384	1,020	1,530	713	702	3,380	2,510	426	399	838	374	603
10	374	993	2,370	789	649	4,320	2,090	437	405	743	374	559
11	358	1,010	2,270	766	621	4,050	1,660	416	657	657	353	535
12	348	919	1,570	670	576	3,790	1,570	736	437	610	343	511
13	343	697	1,320	603	565	3,360	1,560	2,730	389	584	338	477
14	348	527	1,190	584	569	3,000	1,570	3,580	363	553	329	488
15	309	392	1,090	643	543	2,070	1,650	2,750	389	565	319	448
16	282	390	915	1,160	516	1,280	1,520	1,830	1,380	559	314	416
17	272	400	764	1,760	505	1,200	1,260	1,270	1,160	477	324	394
18	272	383	630	1,810	482	875	1,070	1,110	773	416	333	389
19	277	379	620	1,670	481	597	1,020	931	643	389	309	374
20	268	348	797	1,710	484	529	958	854	597	348	295	369
21	268	324	2,490	2,310	477	647	897	713	571	319	291	559
22	264	321	2,760	3,280	911	736	805	610	559	309	286	706
23	259	344	2,260	3,550	1,480	623	691	691	603	305	286	571
24	259	365	1,700	3,450	1,650	616	559	691	597	338	282	471
25	254	555	1,350	3,260	1,440	584	505	623	571	314	277	448
26	254	1,110	1,780	2,730	980	535	459	571	578	309	277	448
27	254	1,190	3,170	1,960	806	511	421	559	559	319	264	437
28	254	1,450	3,870	1,990	811	488	405	505	571	410	282	426
29	482	1,600	3,680	2,580	------	505	384	477	684	906	465	426
30	1,850	1,280	2,580	2,420	------	660	384	477	691	1,640	751	432
31	1,360	------	2,260	2,140	------	1,280	------	494	------	657	698	------
TOTAL	13,593	23,283	53,940	51,574	24,151	42,927	54,738	27,013	17,761	25,263	12,486	18,084
MEAN	438	776	1,740	1,664	863	1,385	1,825	871	592	815	403	603
MAX	1,850	1,600	3,870	3,550	1,710	4,320	5,030	3,580	1,380	2,810	751	1,510
MIN	254	321	620	584	477	488	384	416	363	305	264	369
MEAN≠	372	639	1,742	1,661	866	1,539	1,935	976	589	815	374	568
CFSM≠	.67	1.14	3.12	2.97	1.55	2.75	3.46	1.75	1.05	1.46	.67	1.02
IN.≠	.77	1.27	3.60	3.42	1.61	3.17	3.86	2.02	1.17	1.68	.77	1.14

CAL YR 1973 TOTAL 335,140 MEAN 918 MAX 4,620 MIN 208 MEAN≠ 918 CFSM≠ 1.64 IN.≠ 22.33
WTR YR 1974 TOTAL 364,813 MEAN 999 MAX 5,030 MIN 254 MEAN≠ 1,008 CFSM≠ 1.80 IN.≠ 24.48

NOTE.--No gage-height record Jan. 4 to Feb. 7.
≠ Adjusted for change in contents in Foster Joseph Sayers Lake.

01548500 Pine Creek at Cedar Run, Pa.

LOCATION.--Lat 41°31'18", long 77°26'52", Lycoming County, on left bank at downstream side of highway bridge at village of Cedar Run, 2,000 ft (610 m) downstream from Cedar Run and 1.2 mi (1.9 km) upstream from Gamble Run.

DRAINAGE AREA.--604 mi^2 (1,564 km^2).

PERIOD OF RECORD.--July 1918 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 780.36 ft (237.854 m) above mean sea level. Prior to Feb. 13, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--56 years, 816 ft^3/s (23.1 m^3/s), 18.35 in/yr (466 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,200 ft^3/s (289 m^3/s) July 1 (gage height, 7.20 ft or 2.195 m); minimum, 62 ft^3/s (1.76 m^3/s) Aug. 27 (gage height, 1.95 ft or 0.594 m).
Period of record: Maximum discharge, 66,000 ft^3/s (1,870 m^3/s) June 23, 1972 (gage height, 16.0 ft or 4.88 m, from floodmark), from rating curve extended above 16,000 ft^3/s (450 m^3/s) on basis of slope-area measurement at gage height, 14.39 ft (4.386 m); minimum, 8.0 ft^3/s (0.23 m^3/s) Sept. 1, 2, 3, 1939: minimum gage height, 0.80 ft (0.244 m) Nov. 28, 1930.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	2,810	1,660	1,960	2,540	1,150	1,300	992	324	7,560	152	190
2	280	2,070	1,340	1,560	2,100	1,000	2,480	837	287	4,340	131	239
3	320	1,670	1,150	1,320	1,780	944	4,340	848	253	2,660	126	537
4	340	1,350	1,000	1,200	1,470	1,340	6,210	859	232	1,730	162	1,030
5	384	1,140	1,410	980	1,210	2,450	5,460	771	214	1,260	190	510
6	428	1,000	1,990	936	1,050	2,930	3,940	760	202	969	157	378
7	354	870	1,520	848	900	2,640	2,860	771	184	750	131	301
8	340	775	1,300	760	800	2,570	2,230	686	178	606	117	253
9	327	696	1,800	700	740	5,000	1,930	686	172	500	113	220
10	320	630	2,590	640	680	6,000	1,620	750	184	429	108	190
11	307	558	2,050	680	620	4,800	1,560	666	412	370	104	172
12	293	524	1,660	600	580	3,520	1,840	1,110	226	316	96	162
13	287	499	1,470	540	520	2,550	1,940	3,420	184	280	96	152
14	307	475	1,280	500	540	1,960	2,130	3,010	167	253	92	190
15	287	460	1,060	600	560	1,590	3,900	2,350	220	340	83	167
16	268	533	880	640	500	1,440	3,230	1,820	1,050	287	76	136
17	256	524	820	580	450	1,400	2,590	1,470	666	214	87	121
18	256	452	760	540	410	1,100	2,090	1,230	446	190	92	121
19	256	444	720	490	380	1,020	1,850	992	347	178	96	121
20	244	428	1,750	460	400	914	1,550	848	301	167	83	117
21	232	413	5,290	1,400	430	1,020	1,280	728	273	152	79	226
22	220	420	4,080	2,040	2,660	1,230	1,180	655	253	136	72	586
23	209	405	3,020	1,900	3,680	1,040	1,250	635	220	136	72	324
24	204	428	2,280	2,470	2,420	1,030	1,120	576	202	184	76	246
25	199	870	1,730	2,070	1,970	892	1,020	510	196	202	72	220
26	194	1,350	2,150	1,800	1,540	859	925	446	395	162	72	208
27	188	1,350	4,630	2,450	1,280	826	859	412	782	147	66	196
28	183	2,020	5,050	3,220	1,150	782	804	378	500	136	87	178
29	558	2,120	3,900	4,100	------	760	750	363	859	126	141	178
30	5,360	1,940	3,120	3,640	------	837	750	355	1,490	246	214	202
31	3,500	------	2,370	3,060	------	1,220	------	324	------	208	294	------
TOTAL	17,194	29,224	65,830	44,684	33,360	56,814	64,988	30,258	11,419	25,234	3,537	7,871
MEAN	555	974	2,124	1,441	1,191	1,833	2,166	976	381	814	114	262
MAX	5,360	2,810	5,290	4,100	3,680	6,000	6,210	3,420	1,490	7,560	294	1,030
MIN	183	405	720	460	380	760	750	324	167	126	66	117
CFSM	.92	1.61	3.52	2.39	1.97	3.03	3.59	1.62	.63	1.35	.19	.43
IN.	1.06	1.80	4.05	2.75	2.05	3.50	4.00	1.86	.70	1.55	.22	.48

CAL YR 1973 TOTAL 379,285 MEAN 1,039 MAX 9,600 MIN 108 CFSM 1.72 IN 23.36
WTR YR 1974 TOTAL 390,413 MEAN 1,070 MAX 7,560 MIN 66 CFSM 1.77 IN 24.05

PEAK DISCHARGE (BASE, 5,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	0600	6.09	6,790	4- 4	1000	6.06	6,710
12-21	0300	6.44	7,800	7- 1	0300	7.20	10,200

01549500 Blockhouse Creek near English Center, Pa.

LOCATION.--Lat 41°28'25", long 77°13'52", Lycoming County, on right bank just downstream from bridge on State Highway 284, 0.7 mi (1.1 km) upstream from Blacks Creek, 1.7 mi (2.7 km) upstream from confluence with Texas Creek, and 5 mi (8 km) northeast of English Center.

DRAINAGE AREA.--37.7 mi^2 (97.6 km^2).

PERIOD OF RECORD.--October 1940 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 1,041.85 ft (317.556 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 56.4 ft^3/s (1.60 m^3/s), 20.32 in/yr (516 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,490 ft^3/s (42.2 m^3/s) Feb. 2 (gage height, 4.51 ft or 1.375 m), from rating curve extended above 500 ft^3/s (14.2 m^3/s); minimum, 3.2 ft^3/s (0.091 m^3/s) Aug. 22, 23, 26, 27 (gage height, 1.07 ft or 0.326 m).

Period of record: Maximum discharge, 6,260 ft^3/s (177 m^3/s) June 23, 1972 (gage height, 9.34 ft or 2.847 m), from rating curve extended above 1,200 ft^3/s (34 m^3/s) on basis of contracted-opening measurement at gage height, 8.81 ft (2.685 m); no flow Aug. 6, 7, 31, Sept. 2, 1962.

Flood of Mar. 18, 1936 reached a stage of 9.0 ft (2.74 m), from floodmark (discharge, 5,780 ft^3/s or 164 m^3/s, from rating curve extended as explained above).

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

REVISIONS (WATER YEARS).--WSP 951: 1941. WSP 1031: 1942-44(M). WSP 1502: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	198	106	104	135	71	123	116	33	153	6.0	71
2	22	137	89	83	112	54	316	87	21	46	5.4	60
3	27	110	78	73	92	65	352	94	17	34	6.5	108
4	22	92	70	66	80	92	371	85	15	26	7.1	66
5	34	80	438	59	64	155	272	74	14	30	7.7	31
6	26	70	356	52	54	147	192	70	13	22	6.3	20
7	21	60	228	45	46	140	142	56	12	16	5.4	16
8	19	53	163	41	42	205	114	47	11	14	5.0	14
9	18	47	291	39	38	308	104	52	11	12	5.0	12
10	18	41	238	44	36	329	92	68	12	12	4.8	11
11	16	36	178	41	34	242	100	53	20	11	4.4	9.8
12	15	34	140	37	31	186	126	283	12	9.0	4.2	10
13	15	32	116	33	29	135	130	347	10	8.3	4.4	26
14	25	30	106	38	28	104	178	228	9.0	7.7	4.2	22
15	17	29	85	36	30	85	242	160	9.8	19	3.6	14
16	15	45	68	34	26	80	180	116	32	11	3.4	11
17	15	33	58	32	23	70	142	96	18	8.0	4.2	9.8
18	15	28	52	31	21	60	114	78	13	7.1	5.0	9.8
19	15	27	50	30	19	52	106	63	11	6.8	4.2	9.0
20	14	24	180	33	21	45	83	53	9.8	7.4	3.8	13
21	13	22	619	130	23	90	71	45	9.8	6.3	3.4	137
22	12	21	299	142	395	74	70	41	11	5.7	3.3	102
23	12	20	205	160	178	60	73	42	8.6	6.0	3.4	59
24	11	27	147	135	114	57	63	36	8.0	16	4.4	44
25	11	132	116	110	92	47	54	32	8.6	13	3.6	36
26	11	130	166	94	78	45	49	29	11	9.0	3.3	32
27	11	121	321	160	66	42	44	25	9.4	8.0	3.0	27
28	25	169	256	205	57	40	39	23	8.3	7.1	4.4	24
29	300	147	205	246	------	36	36	23	19	6.8	7.4	29
30	494	128	163	202	------	63	53	22	65	8.6	33	28
31	228	------	126	169	------	128	------	21	------	7.1	14	------
TOTAL	1,518	2,123	5,713	2,704	1,964	3,307	4,031	2,565	462.3	553.9	183.8	1,061.4
MEAN	49.0	70.8	184	87.2	70.1	107	134	82.7	15.4	17.9	5.93	35.4
MAX	494	198	619	246	395	329	371	347	65	153	33	137
MIN	11	20	50	30	19	36	36	21	8.0	5.7	3.0	9.0
CFSM	1.30	1.88	4.88	2.31	1.86	2.84	3.55	2.19	.41	.47	.16	.94
IN.	1.50	2.09	5.64	2.67	1.94	3.26	3.98	2.53	.46	.55	.18	1.05

CAL YR 1973 TOTAL 30,287.7 MEAN 83.0 MAX 1,310 MIN 6.3 CFSM 2.20 IN 29.89
WTR YR 1974 TOTAL 26,186.4 MEAN 71.7 MAX 619 MIN 3.0 CFSM 1.90 IN 25.84

PEAK DISCHARGE (BASE, 1,100 CFS).--Oct. 29 (2100) 1,490 cfs (4.51 ft).

01549700 Pine Creek below Little Pine Creek near Waterville, Pa.

LOCATION.--Lat 41°16'25", long 77°19'28", Lycoming County, on downstream side of suspension bridge, 0.9 mi (1.4 km) downstream from Ramsey Run, 4 mi (6 km) downstream from Little Pine Creek, 4 mi (6 km) south of Waterville, and 9.2 mi (14.8 km) upstream from mouth.

DRAINAGE AREA.--944 mi^2 (2,445 km^2).

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

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 570.62 ft (173.925 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 1,329 ft^3/s (37.6 m^3/s), 19.12 in/yr (486 mm/yr).

EXTREMES.--Current year: Maximum discharge, about 17,000 ft^3/s (481 m^3/s) July 1, on basis of runoff comparison with upstream station; minimum daily, 95 ft^3/s (2.69 m^3/s) Aug. 28.
Period of record: Maximum discharge, 104,000 ft^3/s (2,950 m^3/s) June 23, 1972 (gage height, 22.76 ft or 6.937 m, from floodmarks), from rating curve extended above 22,000 ft^3/s (623 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 25 ft^3/s (0.71 m^3/s) Sept. 25, 26, 27, 1964; minimum gage height observed, 0.97 ft (0.296 m) Sept. 13, 1964.

REMARKS.--Records fair prior to Apr. 13 and poor thereafter. Flood flows subject to regulation by Little Pine Creek Reservoir 8.5 mi (13.7 km) upstream (capacity, 24,900 acre-ft or 30.7 hm^3).

REVISIONS (WATER YEARS).--WRD Penna 1972: 1964(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	509	8,820	2,850	3,250	4,290	2,330	1,360	1,900	620	13,000	210	417
2	476	5,110	2,410	2,480	3,230	2,260	2,080	1,700	580	7,600	180	880
3	568	3,500	1,920	2,080	2,260	2,290	7,860	1,700	520	3,900	170	853
4	604	2,500	1,760	1,850	1,950	2,280	10,000	1,700	480	2,600	240	2,110
5	534	1,790	1,880	1,610	1,790	3,410	11,500	1,600	460	1,900	260	1,090
6	501	1,560	5,640	1,380	1,560	5,480	11,200	1,500	410	1,400	210	805
7	476	1,350	3,660	1,200	1,430	4,390	8,930	1,500	380	1,000	180	640
8	493	1,130	3,060	1,100	1,300	4,530	6,900	1,400	330	880	170	476
9	484	1,010	4,920	980	1,100	8,260	6,150	1,400	350	720	160	381
10	604	919	5,280	920	1,000	9,860	5,670	1,500	400	600	150	361
11	517	856	4,500	973	940	6,780	5,030	1,400	860	520	140	381
12	468	795	3,690	856	860	5,420	4,340	2,000	500	450	140	354
13	453	815	2,740	688	780	4,700	3,780	6,000	354	390	130	322
14	453	735	2,050	678	800	3,880	4,000	6,600	310	370	130	354
15	438	697	1,560	765	840	3,640	7,600	5,400	390	480	120	354
16	468	678	1,230	973	780	3,360	6,600	4,000	1,900	390	110	281
17	453	668	1,200	866	730	3,140	5,600	3,300	1,100	300	120	287
18	461	659	1,100	815	680	2,640	4,500	2,800	735	250	130	368
19	453	622	1,000	740	640	2,080	3,800	2,200	678	220	140	476
20	431	604	1,670	700	700	1,700	3,200	1,800	560	187	120	613
21	409	586	8,970	1,030	775	1,600	2,800	1,500	490	187	110	668
22	416	560	8,160	2,890	934	2,370	2,400	1,400	450	182	100	775
23	394	542	5,420	4,470	5,310	2,010	2,600	1,300	400	248	100	1,020
24	381	577	4,030	4,130	4,890	1,590	2,300	1,100	370	316	110	745
25	394	1,030	3,000	3,780	3,210	1,270	2,100	1,000	350	310	100	735
26	381	1,600	6,030	3,360	2,540	973	1,900	900	800	269	100	688
27	374	2,280	7,810	2,680	2,330	835	1,800	830	1,300	242	98	542
28	381	3,540	7,110	4,810	2,120	697	1,700	770	940	200	95	368
29	917	3,690	6,090	6,840	------	622	1,600	720	1,300	180	192	368
30	11,900	3,360	4,890	6,690	------	659	1,700	680	3,000	340	401	401
31	11,600	------	4,030	5,220	------	1,020	------	630	------	290	438	------
TOTAL	37,391	52,583	119,660	70,804	49,769	96,076	141,000	62,230	21,317	39,921	5,054	18,113
MEAN	1,206	1,753	3,860	2,284	1,777	3,099	4,700	2,007	711	1,288	163	604
MAX	11,900	8,820	8,970	6,840	5,310	9,860	11,500	6,600	3,000	13,000	438	2,110
MIN	374	542	1,000	678	640	622	1,360	630	310	180	95	281
CFSM	1.28	1.86	4.09	2.42	1.88	3.28	4.98	2.13	.75	1.36	.17	.64
IN.	1.47	2.07	4.72	2.79	1.96	3.79	5.56	2.45	.84	1.57	.20	.71

CAL YR 1973 TOTAL 673,047 MEAN 1,844 MAX 17,300 MIN 180 CFSM 1.95 IN 26.52
WTR YR 1974 TOTAL 713,918 MEAN 1,956 MAX 13,000 MIN 95 CFSM 2.07 IN 28.13

PEAK DISCHARGE (BASE, 9,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	1200	7.5	13,400	4- 4	2400	7.1	11,700
12-21	1000	6.7	10,100	7- 1	Unk.	Unk.	17,000*
3-10	0730	7.07	11,600				

NOTE.--No gage-height record Apr. 14 to June 12, June 24 to July 19, July 28 to Aug. 26.
* About.

01549755 Antes Creek near Jersey Shore, Pa.

LOCATION.--Lat 41°09'40", long 77°13'03", Lycoming County, on right bank 150 ft (46 m) upstream from bridge on State Highway 44, 1.4 mi (2.3 km) upstream from Morgan Valley Run, and 3.5 mi (5.6 km) southeast of Jersey Shore.

DRAINAGE AREA.--53.3 mi^2 (138.0 km^2).

PERIOD OF RECORD.--August 1973 to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 630 ft (192 m) from topographic map.

EXTREMES.--August to September 1973: Maximum discharge, 113 ft^3/s (3.20 m^3/s) Sept. 14 (gage height, 3.93 ft or 1.198 m); minimum, 11 ft^3/s (0.31 m^3/s) Aug. 24 (gage height, 3.38 ft or 1.030 m).
Water year 1974: Maximum discharge, 620 ft^3/s (17.6 m^3/s) Oct. 30 (gage height, 5.18 ft or 1.579 m), from rating curve extended above 210 ft^3/s (5.9 m^3/s); minimum, 10 ft^3/s (0.28 m^3/s) Aug. 27; minimum gage height, 3.40 ft (1.036 m) Aug. 12.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, 1973

Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.
1	-	26	7	-	19	13	-	14	19	23	22	25	14	22
2	-	20	8	-	16	14	-	42	20	18	18	26	14	18
3	-	18	9	-	15	15	-	79	21	17	16	27	14	16
4	-	17	10	-	14	16	17	34	22	16	16	28	14	17
5	-	16	11	-	14	17	17	26	23	15	32	29	14	20
6	-	23	12	-	14	18	17	28	24	14	23	30	14	22
												31	18	-

TOTAL	-	677
MEAN	-	22.6
MAX	-	79
MIN	-	14
CFSM	-	.42
IN.	-	.47

PEAK DISCHARGE (BASE, 600 CFS).--No peak above base.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	273	90	197	160	66	200	68	43	136	19	19
2	22	197	81	166	145	62	262	60	40	95	17	29
3	23	160	72	147	135	64	403	60	38	79	18	33
4	22	135	68	135	120	68	507	58	34	66	19	47
5	136	115	96	120	106	77	453	55	33	60	18	34
6	86	104	188	113	97	86	342	55	31	58	15	28
7	68	92	185	104	97	92	273	53	31	49	14	24
8	55	81	160	92	90	109	219	51	29	43	14	20
9	47	75	229	86	79	204	197	51	29	42	14	18
10	43	66	338	83	72	362	183	51	28	38	16	16
11	34	62	293	88	70	310	174	47	31	38	13	15
12	31	55	240	88	66	246	163	69	28	34	12	14
13	28	51	194	72	66	197	169	120	26	33	13	15
14	31	47	171	66	66	163	166	130	24	31	14	15
15	28	47	145	75	58	140	163	130	24	40	14	15
16	29	51	125	113	53	127	145	104	49	31	14	14
17	29	43	113	132	53	118	130	92	38	29	14	14
18	28	38	106	113	49	104	123	88	31	28	14	13
19	28	36	97	111	49	97	118	79	29	26	14	13
20	26	34	115	108	51	90	108	70	29	26	13	13
21	24	33	368	147	47	106	99	66	28	24	12	21
22	24	31	387	206	90	113	92	64	26	23	13	28
23	24	29	302	213	92	97	95	66	28	22	13	17
24	23	29	240	210	66	97	88	60	26	26	12	15
25	22	49	197	197	64	92	81	55	24	23	11	15
26	22	60	209	177	62	90	75	51	26	20	11	14
27	22	51	362	160	58	83	70	49	23	19	11	14
28	20	84	398	158	60	79	66	45	22	18	19	14
29	132	88	328	191	------	75	64	45	33	20	18	14
30	566	95	273	188	------	88	62	42	30	29	26	15
31	367	------	229	177	------	177	------	40	------	22	18	------
TOTAL	2,059	2,311	6,399	4,233	2,221	3,879	5,290	2,074	911	1,228	463	576
MEAN	66.4	77.0	206	137	79.3	125	176	66.9	30.4	39.6	14.9	19.2
MAX	566	273	398	213	160	362	507	130	49	136	26	47
MIN	19	29	68	66	47	62	62	40	22	18	11	13
CFSM	1.25	1.44	3.86	2.57	1.49	2.35	3.30	1.26	.57	.74	.28	.36
IN.	1.44	1.61	4.47	2.95	1.55	2.71	3.69	1.45	.64	.86	.32	.40

CAL YR 1973 TOTAL - MEAN - MAX - MIN - CFSM - IN -
WTR YR 1974 TOTAL 31,644 MEAN 86.7 MAX 566 MIN 11 CFSM 1.63 IN 22.09

PEAK DISCHARGE (BASE, 600 CFS).--Oct. 30 (0700) 620 cfs (5.18 ft).

01549780 Larrys Creek at Cogan House, Pa.

LOCATION.--Lat 41°25'04", long 77°09'46", Lycoming County, on right bank, attached to upstream wingwall of bridge on State Highway 184 at Cogan House, 0.7 mi (1.1 km) upstream from Wolf Run, 2.3 mi (3.7 km) upstream from Wendell Run, and 15 mi (24 km) northwest of Williamsport.

DRAINAGE AREA.--6.80 mi^2 (17.61 km^2).

PERIOD OF RECORD.--April 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,370 ft (418 m), from topographic map.

AVERAGE DISCHARGE.--14 years, 10.1 ft^3/s (0.29 m^3/s), 20.17 in/yr (512 mm/yr).

EXTREMES.--Current year: Maximum discharge, 227 ft^3/s (6.43 m^3/s) Feb. 22 (gage height, 2.84 ft or 0.866 m), from rating curve extended above 110 ft^3/s (3.12 m^3/s) as explained below; minimum, 0.39 ft^3/s (0.011 m^3/s) Aug. 26 (gage height, 1.02 ft or 0.311 m).
Period of record: Maximum discharge, 1,130 ft^3/s (32.0 m^3/s) June 22, 1972 (gage height, 5.29 ft or 1.612 m), from rating curve extended above 130 ft^3/s (3.68 m^3/s) on basis of contracted-opening measurement of peak flow; no flow on many days.

REMARKS.--Records fair. Regulation at low flow from several ponds.

REVISIONS (WATER YEARS).--WRD Penna. 1972: 1964(M), 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	34	18	20	32	13	23	18	10	15	1.5	11
2	5.1	24	14	17	26	10	43	11	8.0	8.3	1.9	6.8
3	5.0	20	12	14	20	12	76	12	6.2	6.8	2.5	12
4	4.7	16	10	13	16	14	87	12	4.8	5.9	2.8	9.4
5	5.5	13	43	11	14	22	59	11	4.2	7.3	2.1	6.3
6	4.7	11	74	9.6	12	26	37	11	3.9	5.5	1.5	5.1
7	4.5	9.0	43	8.8	10	25	26	9.4	3.6	4.4	1.3	4.4
8	4.5	7.8	35	8.2	9.0	26	20	8.8	3.5	3.8	1.3	3.5
9	4.5	7.1	56	7.8	8.2	52	15	11	3.3	3.5	1.3	3.3
10	4.4	6.3	46	7.2	7.8	72	14	11	4.1	5.1	1.1	3.0
11	4.2	5.5	38	6.6	7.2	55	18	11	4.4	4.1	.96	2.8
12	4.1	5.4	30	6.4	6.6	38	23	92	3.3	3.3	1.1	2.5
13	4.2	5.4	25	6.2	6.0	27	28	77	3.0	2.8	1.3	3.3
14	4.4	4.8	22	6.2	5.4	21	25	60	2.8	2.8	.96	3.0
15	4.3	5.1	19	9.0	5.8	17	56	40	3.5	3.5	.82	2.1
16	4.5	5.4	15	8.0	5.0	15	35	30	7.8	2.5	.82	1.9
17	4.7	4.7	13	7.0	4.6	14	28	20	3.8	2.1	1.5	1.9
18	4.8	4.2	11	6.6	4.3	12	24	17	3.3	2.1	1.3	1.9
19	4.6	4.2	10	6.2	4.0	10	20	13	3.0	1.9	.96	1.7
20	4.6	4.1	22	6.0	4.4	8.8	17	11	2.8	1.7	.82	3.0
21	4.4	3.6	110	20	5.9	12	16	10	2.8	1.5	.70	14
22	4.2	3.6	64	31	76	14	15	9.0	2.5	1.5	.82	11
23	4.2	3.6	40	31	32	13	16	8.6	2.8	1.9	.82	8.3
24	4.2	4.7	28	30	22	14	14	7.6	2.3	4.4	.96	6.8
25	4.1	13	22	25	19	12	12	7.0	2.8	2.5	.60	5.9
26	4.2	14	24	22	15	11	11	6.4	3.0	2.1	.52	5.1
27	4.0	16	41	29	12	9.4	10	5.7	2.5	1.9	.70	4.4
28	3.8	24	47	40	11	8.8	9.0	5.3	2.5	2.3	1.5	4.1
29	38	26	39	58	------	8.3	8.6	5.2	3.8	2.8	1.7	4.1
30	80	23	31	49	------	30	9.4	4.9	11	2.8	7.8	4.1
31	43	------	24	38	------	32	------	4.7	------	1.7	2.1	------
TOTAL	286.2	328.5	1,026	557.8	401.2	654.3	795.0	560.6	125.3	117.8	46.06	156.7
MEAN	9.23	11.0	33.1	18.0	14.3	21.1	26.5	18.1	4.18	3.80	1.49	5.22
MAX	80	34	110	58	76	72	87	92	11	15	7.8	14
MIN	3.8	3.6	10	6.0	4.0	8.3	8.6	4.7	2.3	1.5	.52	1.7
CFSM	1.36	1.62	4.87	2.65	2.10	3.10	3.90	2.66	.61	.56	.22	.77
IN.	1.57	1.80	5.61	3.05	2.19	3.58	4.35	3.07	.69	.64	.25	.86

CAL YR 1973 TOTAL 5,267.30 MEAN 14.4 MAX 140 MIN 1.8 CFSM 2.12 IN 28.82
WTR YR 1974 TOTAL 5,055.46 MEAN 13.9 MAX 110 MIN .52 CFSM 2.04 IN 27.66

PEAK DISCHARGE (BASE, 150 CFS).--Dec. 20 (Unk.) 161 cfs (2.53 ft); Feb. 22 (1345) 227 cfs (2.84 ft).

01550000 Lycoming Creek near Trout Run, Pa.

LOCATION.--Lat 41°25'06", long 77°01'59", Lycoming County, on right bank 150 ft (46 m) upstream from highway bridge, 300 ft (91 m) upstream from Penn Central Railroad bridge, 0.5 mi (0.8 km) downstream from Grays Run, and 2.6 mi (4.2 km) northeast of village of Trout Run.

DRAINAGE AREA.--173 mi^2 (448 km^2).

PERIOD OF RECORD.--December 1913 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 693.95 ft (211.516 m) above mean sea level. Prior to June 1, 1939, nonrecording gage at site 150 ft (46 m) downstream at same datum.

AVERAGE DISCHARGE.--60 years (1914-74), 279 ft^3/s (7.90 m^3/s), 21.90 in/yr (556 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,920 ft^3/s (111 m^3/s) Feb. 22 (gage height, 8.04 ft or 2.451 m); minimum, 12 ft^3/s (0.34 m^3/s) Aug. 23; minimum gage height, 2.15 ft (0.655 m) June 28.
Period of record: Maximum discharge, 25,900 ft^3/s (733 m^3/s) June 22, 1972 (gage height, 20.19 ft or 6.154 m, from floodmark in gage shelter), from rating curve extended above 5,300 ft^3/s (150 m^3/s) on basis of slope-area measurement of peak flow; minimum, 3.2 ft^3/s (0.091 m^3/s) Sept. 27, 1936; minimum daily, 4.0 ft^3/s (0.11 m^3/s) Sept. 19-24, 27, 28, 1936, Sept. 1, 1968.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 921: 1933, 1934(m), 1935-39. WSP 1302: 1914-16, 1922(M), 1923-25, 1926(M), 1927-28, 1930, 1931(M). WSP 1502: 1920-21(M), 1932(M), 1933.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	724	486	535	722	379	580	630	215	942	36	141
2	138	585	403	438	590	340	1,060	415	141	315	30	292
3	149	480	356	379	481	323	1,540	415	113	218	38	262
4	135	398	324	344	374	515	1,900	388	100	171	53	284
5	160	347	875	273	307	837	1,330	340	85	188	78	144
6	146	307	1,810	230	290	793	960	323	78	165	62	102
7	125	270	1,090	210	260	705	733	315	71	126	46	82
8	116	239	799	190	240	815	610	273	68	104	39	69
9	109	217	1,220	180	220	1,370	570	327	66	91	36	62
10	104	196	1,300	190	200	1,500	495	550	63	83	34	54
11	100	178	948	200	190	1,080	510	457	89	76	28	49
12	96	169	738	190	180	854	685	1,010	69	68	24	47
13	91	160	615	150	160	650	782	1,480	62	62	24	95
14	133	152	560	180	150	530	738	984	54	56	21	91
15	118	149	467	170	140	448	1,240	738	53	108	18	74
16	104	221	379	160	130	415	859	570	206	83	16	60
17	98	200	290	150	130	392	690	471	141	63	19	50
18	100	166	260	140	120	319	575	388	95	50	22	48
19	100	154	240	140	110	304	530	319	74	46	18	44
20	96	146	530	130	110	273	457	270	66	42	17	46
21	89	138	2,700	471	130	457	388	238	60	35	14	165
22	85	133	1,530	733	1,610	500	365	212	63	28	13	270
23	83	128	1,020	665	1,170	379	397	209	57	29	13	147
24	81	138	749	665	670	357	340	188	54	89	14	115
25	78	511	605	515	555	304	300	168	52	91	16	100
26	76	624	690	457	429	288	266	149	59	71	16	93
27	74	527	1,560	733	365	273	245	134	54	59	14	83
28	72	742	1,250	978	344	255	225	124	50	49	18	76
29	258	717	972	1,290	------	238	209	124	93	46	25	78
30	1,330	580	799	1,000	------	319	222	120	154	59	126	93
31	659	------	630	843	------	590	------	115	------	49	120	------
TOTAL	5,241	9,696	26,195	12,929	10,377	16,802	19,801	12,444	2,605	3,662	1,048	3,316
MEAN	169	323	845	417	371	542	660	401	86.8	118	33.8	111
MAX	1,330	742	2,700	1,290	1,610	1,500	1,900	1,480	215	942	126	292
MIN	72	128	240	130	110	238	209	115	50	28	13	44
CFSM	.98	1.87	4.88	2.41	2.14	3.13	3.82	2.32	.50	.68	.20	.64
IN.	1.13	2.08	5.63	2.78	2.23	3.61	4.26	2.68	.56	.79	.23	.71

CAL YR 1973 TOTAL 153,515 MEAN 421 MAX 3,550 MIN 64 CFSM 2.43 IN 33.01
WTR YR 1974 TOTAL 124,116 MEAN 340 MAX 2,700 MIN 13 CFSM 1.97 IN 26.69

PEAK DISCHARGE (BASE, 2,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 6	0100	7.13	2,970	2-22	1500	8.04	3,920
12-21	1300	7.43	3,270				

01551500 West Branch Susquehanna River at Williamsport, Pa.

LOCATION.--Lat 41°14'17", long 76°59'56", Lycoming County, on left bank at upstream edge of Market Street Bridge at Williamsport, 350 ft (110 m) upstream from Hagermans Run.

DRAINAGE AREA.--5,682 mi^2 (14,716 km^2).

PERIOD OF RECORD.--March 1895 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 494.98 ft (150.870 m) above mean sea level. Mar. 1, 1895 to Sept. 30, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--79 years, 8,814 ft^3/s (250 m^3/s), 21.07 in/yr (535 mm/yr), adjusted for storage since October 1961.

EXTREMES.--Current year: Maximum discharge, 67,700 ft^3/s (1,920 m^3/s) Apr. 4 (gage height, 14.56 ft or 4.438 m); minimum, 1,300 ft^3/s (36.8 m^3/s) Aug. 28 (gage height, 0.05 ft or 0.015 m).

Period of record: Maximum discharge observed, 279,000 ft^3/s (7,900 m^3/s) June 23, 1972 (gage height, 34.75 ft or 10.592 m) from rating curve extended above 210,000 ft^3/s (5,950 m^3/s) on basis of slope-area measurement at gage height, 33.57 ft (10.232 m); minimum, 162 ft^3/s (4.59 m^3/s) Sept. 17, 1943; minimum daily, 251 ft^3/s (7.11 m^3/s) Sept. 13, 1932; minimum gage height, -0.67 ft (-0.204 m) Sept. 3, 1966.

Maximum stage known prior to 1895, 32.4 ft (9.88 m) June 1, 1889 (discharge, about 252,000 ft^3/s or 7,140 m^3/s).

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Glendale, Curwensville, Kettle Creek, Foster Joseph Sayers Lakes, First Fork Sinnemahoning Creek Reservoir (see p.189) and by Little Pine Creek Reservoir (capacity, 24, 900 acre-ft or 30.7 hm^3) about 40 mi (60 km) upstream. Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 1302: 1925-28. WSP 1502: 1895-1904, 1912-13, 1919.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,540	24,500	22,800	23,800	24,200	10,100	23,500	7,760	5,000	17,800	3,870	6,460
2	3,780	19,600	18,400	19,600	20,000	10,300	26,100	10,300	5,600	33,200	3,140	7,790
3	4,300	16,900	15,200	16,400	17,300	10,700	49,800	10,900	5,600	23,200	2,900	7,500
4	3,780	14,400	13,100	14,200	14,600	11,400	63,800	10,900	5,400	15,800	2,850	17,900
5	5,580	12,200	12,200	12,400	12,500	13,500	62,700	10,500	4,200	12,200	3,100	19,400
6	6,160	10,500	23,900	10,500	9,400	17,300	47,800	9,920	3,890	11,100	3,040	13,000
7	6,620	9,280	19,300	9,000	8,800	18,300	34,700	9,840	3,620	9,710	2,920	9,340
8	6,700	8,450	14,800	8,000	8,200	17,900	26,600	8,820	3,440	8,040	2,640	7,660
9	6,000	7,740	14,600	7,400	7,600	28,900	22,300	8,230	3,290	6,800	2,400	6,410
10	5,480	7,280	22,100	7,000	7,000	55,700	19,200	8,600	3,160	5,980	2,250	5,380
11	4,420	8,090	23,100	7,400	6,600	57,400	16,900	8,620	3,360	5,410	2,150	4,710
12	3,850	8,820	19,900	7,600	6,400	42,500	16,700	8,850	3,640	4,760	2,090	4,250
13	3,610	8,310	16,400	7,000	6,600	31,900	17,900	22,400	3,040	4,550	2,180	4,030
14	3,440	7,390	14,500	6,200	6,200	24,400	18,900	36,100	2,810	4,440	2,180	3,850
15	3,340	6,030	13,100	6,000	5,800	19,600	22,800	29,700	2,710	4,090	2,010	3,850
16	3,420	5,020	11,600	8,000	5,500	15,000	24,500	23,300	4,440	5,780	1,890	4,420
17	3,170	5,210	10,000	9,870	5,200	14,900	21,800	17,500	8,590	5,240	1,740	4,230
18	2,930	5,630	8,500	12,400	5,000	16,000	18,400	14,500	8,540	4,030	1,660	3,340
19	2,690	5,480	7,900	12,800	4,900	13,600	15,900	12,200	6,980	3,520	1,700	3,020
20	2,630	5,120	7,700	18,600	4,800	12,600	14,100	10,600	5,760	3,170	1,860	2,970
21	2,540	4,930	25,400	22,400	4,600	11,600	12,300	9,480	4,950	2,920	1,830	3,440
22	2,400	4,780	39,800	34,000	7,200	12,300	11,000	8,570	4,650	2,690	1,700	6,980
23	2,250	4,740	31,900	38,800	18,800	12,700	10,600	8,040	4,480	2,560	1,620	9,360
24	2,180	4,970	24,300	36,800	21,300	12,300	10,200	7,790	4,210	2,660	1,480	7,960
25	2,120	5,830	19,300	34,200	17,800	11,900	9,500	7,500	3,920	2,900	1,400	6,390
26	2,100	11,700	17,400	28,700	14,700	10,900	8,710	7,090	3,870	2,950	1,350	5,480
27	2,020	17,200	27,000	23,200	12,100	9,520	7,900	6,360	5,070	2,760	1,350	4,980
28	1,940	19,100	46,700	24,300	10,400	9,190	7,490	5,710	6,720	2,560	1,400	4,580
29	2,610	26,100	45,700	29,800	------	8,930	6,910	5,290	6,620	2,990	1,530	4,210
30	17,800	26,900	36,400	32,100	------	9,580	6,620	5,190	6,960	4,390	2,490	3,940
31	33,300	------	28,700	28,900	------	14,500	------	4,700	------	4,860	5,460	------
TOTAL	155,700	322,200	651,700	557,370	293,500	565,420	655,630	355,260	144,520	223,060	70,180	196,830
MEAN	5,023	10,740	21,020	17,980	10,480	18,240	21,850	11,460	4,817	7,195	2,264	6,561
MAX	33,300	26,900	46,700	38,800	24,200	57,400	63,800	36,100	8,590	33,200	5,460	19,400
MIN	1,940	4,740	7,700	6,000	4,600	8,930	6,620	4,700	2,710	2,560	1,350	2,970
MEAN≠	5,007	10,600	21,030	17,900	10,960	18,390	21,950	11,580	4,829	7,178	2,239	6,538
CFSM≠	.88	1.87	3.70	3.15	1.93	3.24	3.86	2.04	.85	1.26	.39	1.15
IN.≠	1.02	2.09	4.27	3.63	2.01	3.74	4.31	2.35	.95	1.45	.45	1.28

CAL YR 1973 TOTAL 4,023,750 MEAN 11,020 MAX 69,400 MIN 1,820 MEAN≠ 11,030 CFSM≠ 1.94 IN.≠ 26.38
WTR YR 1974 TOTAL 4,191,370 MEAN 11,480 MAX 63,800 MIN 1,350 MEAN≠ 11,500 CFSM≠ 2.02 IN.≠ 27.55

≠ Adjusted for change in contents in Glendale, Curwensville, Kettle Creek, Foster Joseph Sayers Lakes and First Fork Sinnemahoning Creek Reservoir.

01552000 Loyalsock Creek at Loyalsockville, Pa.

LOCATION.--Lat 41°19'26", long 76°54'42", Lycoming County, on left bank 500 ft (150 m) downstream from highway bridge at Loyalsockville, 2.5 mi (4.0 km) downstream from Wallis Run and 7.3 mi (11.7 km) upstream from mouth.

DRAINAGE AREA.--443 mi^2 (1,147 km^2).

PERIOD OF RECORD.--August 1925 to September 1974 (discontinued). Monthly discharge only for some periods, published in WSP 1302. Prior to October 1969, published as "at Loyalsock".

GAGE.--Water-stage recorder. Datum of gage is 585.63 ft (178.500 m) above mean sea level (Pennsylvania Department of Transportation benchmark). Prior to Sept. 16, 1926 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--49 years, 748 ft^3/s (21.2 m^3/s), 22.93 in/yr (582 mm/yr).

EXTREMES.--Current year: Maximum discharge, 19,200 ft^3/s (544 m^3/s) Dec. 21 (gage height, 9.56 ft or 2.914 m), from rating curve extended above 2,000 ft^3/s (60 m^3/s); minimum, 59 ft^3/s (1.67 m^3/s) Aug. 23, 24, 25, 26, 27 (gage height, 3.37 ft or 1.027 m).

Period of record: Maximum discharge, 88,700 ft^3/s (2,510 m^3/s) June 23, 1972 (gage height, 14.74 ft or 4.493 m, from floodmark in gage well), from rating curve extended above 16,000 ft^3/s (450 m^3/s) on basis of slope-area measurement at gage height, 12.20 ft (3.719 m); minimum, 11 ft^3/s (0.31 m^3/s) Sept. 25, 26, Nov. 24, 1964; minimum gage height, 2.11 ft (0.643 m) Aug. 12, 1966.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 871: 1938(M). WSP 1051: 1926(M), 1933(M), 1936(M). WSP 1302: 1926-30. WSP 1502: 1932-33, 1935(M), 1937(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	324	1,130	1,090	1,540	1,720	897	1,420	1,310	580	3,860	234	380
2	305	1,210	902	1,260	1,390	897	1,840	997	400	1,760	174	1,780
3	299	902	801	1,080	1,170	803	3,760	854	290	1,100	153	1,040
4	287	738	727	985	1,080	1,030	6,250	844	250	834	182	2,030
5	392	644	2,560	803	844	1,380	3,830	734	220	734	305	985
6	461	585	8,080	760	734	1,460	2,530	676	190	658	224	640
7	356	521	3,240	680	700	1,270	1,890	676	170	513	170	505
8	318	470	2,200	620	620	1,350	1,510	605	160	430	142	416
9	293	437	4,590	580	560	2,720	1,450	724	150	368	128	349
10	276	399	6,060	600	520	3,510	1,340	1,380	150	318	118	305
11	265	370	3,140	600	490	2,620	1,310	1,120	270	282	112	266
12	249	349	2,260	520	450	1,980	1,760	1,540	220	255	101	250
13	239	343	1,810	440	410	1,520	1,970	3,580	190	224	95	480
14	255	324	1,630	460	380	1,230	1,690	2,200	174	205	79	460
15	260	311	1,430	450	350	1,080	2,600	1,610	161	215	92	400
16	239	453	1,170	430	340	985	1,980	1,270	803	250	98	300
17	225	548	800	400	330	1,020	1,520	1,080	1,810	200	87	270
18	221	437	700	380	300	844	1,270	919	1,050	174	84	250
19	225	399	640	360	280	782	1,170	762	658	157	79	220
20	221	370	1,700	350	290	724	1,090	649	505	157	77	240
21	212	349	13,800	793	330	997	930	571	438	146	72	560
22	203	337	5,360	2,300	2,000	1,630	854	521	445	128	63	1,300
23	190	324	3,030	1,790	3,960	1,160	875	505	480	122	61	800
24	186	330	2,140	1,820	1,720	1,030	782	470	380	196	61	600
25	178	706	1,640	1,460	1,350	886	705	420	320	318	63	520
26	174	1,780	2,510	1,250	1,050	803	632	380	361	229	61	470
27	171	1,240	7,880	1,660	875	753	571	340	324	182	59	420
28	167	1,480	4,830	2,550	875	686	530	320	277	157	79	390
29	230	1,750	3,030	3,740	------	658	490	310	402	139	219	390
30	1,340	1,340	2,420	2,640	------	743	475	300	530	355	314	460
31	974	------	1,840	2,060	------	1,430	------	290	------	382	483	------
TOTAL	9,735	20,576	94,010	35,361	25,118	38,878	49,024	27,957	12,358	15,048	4,269	17,476
MEAN	314	686	3,033	1,141	897	1,254	1,634	902	412	485	138	583
MAX	1,340	1,780	13,800	3,740	3,960	3,510	6,250	3,580	1,810	3,860	483	2,030
MIN	167	311	640	350	280	658	475	290	150	122	59	220
CFSM	.71	1.55	6.85	2.58	2.02	2.83	3.69	2.04	.93	1.09	.31	1.32
IN.	.82	1.73	7.89	2.97	2.11	3.26	4.12	2.35	1.04	1.26	.36	1.47

CAL YR 1973 TOTAL 379,611 MEAN 1,040 MAX 13,800 MIN 132 CFSM 2.35 IN 31.88
WTR YR 1974 TOTAL 349,810 MEAN 958 MAX 13,800 MIN 59 CFSM 2.16 IN 29.37

PEAK DISCHARGE (BASE, 6,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12--6	0330	8.51	12,200	12-27	1000	8.06	9,900
12- 9	2230	8.06	9,900	4- 4	0200	7.36	6,800
12-21	1000	9.56	19,200				

01552500 Muncy Creek near Sonestown, Pa.

LOCATION.--Lat 41°21'25", long 76°32'06", Sullivan County, on right bank 150 ft (46 m) downstream from Slip Run, 185 ft (56 m) downstream from bridge on Legislative Route 611, and 1.2 mi (1.9 km) east of Sonestown.

DRAINAGE AREA.--23.8 mi^2 (61.6 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,025.01 ft (312.423 m) above mean sea level. Prior to Mar. 31, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 46.5 ft^3/s (1.32 m^3/s), 26.53 in/yr (674 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) Dec. 21 (gage height, 4.54 ft or 1.384 m); maximum gage height, 4.88 ft (1.487 m) Sept. 21; minimum daily discharge, 8.0 ft^3/s (0.23 m^3/s) Aug. 16, 20, 21.
Period of record: Maximum discharge, 8,260 ft^3/s (234 m^3/s) June 22, 1972 (gage height, 8.94 ft or 2.725 m) from rating curve extended above 3,400 ft^3/s (96.3 m^3/s); minimum, 0.1 ft^3/s (0.003 m^3/s) Sept. 11, 12, 13, 1964.
Flood in March 1936 reached a stage of about 9.3 ft (2.8 m).

REMARKS.--Records fair perior to Aug. 8 and poor thereafter.

REVISIONS (WATER YEARS).--WSP 1502: 1941-42.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	120	67	78	83	61	70	69	33	131	13	47
2	17	130	58	65	72	50	129	47	19	66	12	110
3	17	90	51	61	63	54	205	49	17	49	17	100
4	16	62	45	50	54	66	297	45	16	35	19	110
5	46	52	247	42	48	80	194	40	14	33	18	58
6	23	43	253	36	45	75	127	40	13	28	14	40
7	20	37	131	32	40	70	95	36	12	21	13	30
8	18	32	95	30	38	104	80	32	12	18	12	27
9	18	29	325	28	35	176	117	81	11	16	11	24
10	17	27	208	32	32	199	90	96	11	15	11	20
11	17	24	127	30	31	127	90	78	13	14	10	18
12	16	22	93	27	29	96	93	208	11	12	9.2	17
13	16	21	78	24	27	76	88	270	10	12	9.4	37
14	21	20	76	27	24	68	142	150	9.0	12	9.6	33
15	17	24	64	26	22	57	241	96	9.6	20	8.4	29
16	16	32	53	25	23	59	138	68	79	12	8.0	25
17	16	23	47	24	20	57	102	56	38	11	9.4	22
18	16	21	41	23	18	47	83	48	24	11	10	20
19	15	20	38	22	17	43	81	40	19	11	8.6	18
20	15	19	304	21	18	38	69	33	18	11	8.0	23
21	14	18	646	74	20	84	61	30	22	9.8	8.0	181
22	14	18	238	99	200	74	60	27	19	9.8	10	123
23	14	17	138	92	151	63	61	27	17	9.8	11	66
24	14	21	99	87	90	60	52	25	15	18	9.2	48
25	14	81	83	74	73	50	44	23	15	12	9.0	36
26	14	72	322	68	62	47	40	21	16	10	12	30
27	14	64	469	135	57	42	35	19	14	9.8	35	26
28	14	104	235	191	52	38	32	18	16	9.8	63	24
29	43	99	151	205	------	33	29	17	38	39	43	25
30	108	80	115	135	------	61	34	17	50	54	40	28
31	64	------	89	104	------	74	------	16	------	18	38	------
TOTAL	701	1,422	4,986	1,967	1,444	2,229	2,979	1,822	610.6	738.0	508.8	1,395
MEAN	22.6	47.4	161	63.5	51.6	71.9	99.3	58.8	20.4	23.8	16.4	46.5
MAX	108	130	646	205	200	199	297	270	79	131	63	181
MIN	14	17	38	21	17	33	29	16	9.0	9.8	8.0	17
CFSM	.95	1.99	6.76	2.67	2.17	3.02	4.17	2.47	.86	1.00	.69	1.95
IN.	1.10	2.22	7.79	3.07	2.26	3.48	4.66	2.85	.95	1.15	.80	2.18

CAL YR 1973 TOTAL 22,014.0 MEAN 60.3 MAX 646 MIN 13 CFSM 2.53 IN 34.41
WTR YR 1974 TOTAL 20,802.4 MEAN 57.0 MAX 646 MIN 8.0 CFSM 2.40 IN 32.51

PEAK DISCHARGE (BASE, 1,100 CFS).--No peak above base.

01553130 Sand Spring Run near White Deer, Pa.

LOCATION.--Lat 41°03'31", long 77°04'37", Union County, on right bank 12 ft (3.7 m) downstream from bridge on White Deer Creek Road, 500 ft (150 m) upstream from mouth, and 11.3 mi (18.2 km) west of White Deer.

DRAINAGE AREA.--4.93 mi^2 (12.77 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,037.16 ft (316.126 m) above mean sea level. Prior to May 15, 1968 nonrecording gage at bridge 20 ft (6 m) upstream at same datum.

AVERAGE DISCHARGE.--6 years, 8.65 ft^3/s (0.24 m^3/s), 23.83 in/yr (605 mm/yr).

EXTREMES.--Current year: Maximum discharge, 48 ft^3/s (1.36 m^3/s) Oct. 29 (gage height, 4.18 ft or 1.274 m); minimum, 1.7 ft^3/s (0.048 m^3/s) Aug. 20, 21, 22, 23, 24, 25, 26, 27; minimum gage height, 2.81 ft (0.856 m) Aug. 25, 26.

Period of record: Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) June 22, 1972 (gage height, 5.68 ft or 1.731 m), from rating curve extended above 200 ft^3/s (5.7 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.84 ft^3/s (0.024 m^3/s) Sept. 25, 1970; minimum gage height, 2.57 ft (0.783 m) Sept. 9, 10, 1971.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WRD Penna. 1972: 1970(M), 1971(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	11	6.2	18	17	9.5	12	9.0	5.4	8.6	2.4	2.6
2	3.0	9.8	6.2	17	16	9.0	16	8.6	4.8	5.9	2.4	2.5
3	3.0	9.2	6.0	16	15	8.8	19	8.6	4.4	5.3	2.5	2.7
4	3.1	8.8	6.0	16	14	9.0	24	8.4	4.2	4.8	2.5	2.4
5	5.1	8.6	13	14	14	9.2	21	7.8	4.0	5.3	2.4	2.2
6	3.6	8.2	14	14	13	9.0	18	8.0	3.9	5.0	2.2	2.1
7	3.5	7.8	12	14	13	9.0	16	7.8	3.8	4.2	2.1	2.0
8	3.4	7.6	11	13	12	12	15	7.6	3.9	3.9	2.0	2.0
9	3.4	7.4	17	13	12	16	16	7.6	3.7	3.7	2.0	2.0
10	3.4	7.0	16	12	11	18	14	7.4	3.9	4.5	2.1	1.9
11	3.4	6.5	14	13	10	16	14	7.4	4.6	4.0	2.0	1.9
12	3.1	6.5	13	12	10	15	14	13	3.7	3.5	2.0	1.9
13	3.1	6.5	12	12	10	14	14	16	3.5	3.3	1.9	2.0
14	3.4	6.4	12	11	9.8	13	14	12	3.3	3.2	1.9	2.0
15	3.4	6.4	11	11	9.2	12	13	11	3.6	4.0	1.9	1.9
16	3.4	6.5	10	13	9.2	12	12	9.4	7.1	3.2	1.8	1.9
17	3.4	6.0	10	12	8.8	11	12	8.4	4.8	3.0	1.8	1.9
18	3.4	5.9	9.2	11	8.6	10	11	7.8	4.0	2.9	1.8	1.9
19	3.3	5.7	8.8	11	8.8	10	12	7.2	3.8	2.9	1.8	1.9
20	3.3	5.6	17	10	9.0	9.8	11	6.8	4.0	2.8	1.8	1.9
21	3.3	5.4	26	15	8.6	11	10	6.5	3.7	3.0	1.8	2.7
22	3.3	5.4	22	15	13	10	10	6.5	3.6	2.7	1.8	2.2
23	3.3	5.1	20	15	10	9.5	10	6.7	4.0	2.8	1.8	2.0
24	3.3	5.3	18	15	9.5	9.2	9.8	5.9	3.7	3.0	1.7	2.0
25	3.2	6.5	18	15	9.5	8.8	9.2	5.6	3.7	2.9	1.7	2.0
26	3.2	6.0	20	14	9.5	8.6	9.0	5.4	3.8	2.8	1.7	2.0
27	3.2	5.6	24	16	9.2	8.6	8.8	5.3	3.6	2.8	2.1	1.9
28	3.2	7.0	24	17	9.0	8.4	8.6	5.0	3.8	2.8	3.0	2.1
29	16	6.4	22	19	------	8.4	8.2	5.0	4.6	5.9	2.6	2.2
30	17	6.2	20	19	------	11	8.4	4.9	5.5	4.4	2.8	2.0
31	13	------	19	18	------	14	------	4.9	------	2.7	2.2	------
TOTAL	139.2	206.3	457.4	441	308.7	339.8	390.0	241.5	124.4	119.8	64.5	62.7
MEAN	4.49	6.88	14.8	14.2	11.0	11.0	13.0	7.79	4.15	3.86	2.08	2.09
MAX	17	11	26	19	17	18	24	16	7.1	8.6	3.0	2.7
MIN	2.5	5.1	6.0	10	8.6	8.4	8.2	4.9	3.3	2.7	1.7	1.9
CFSM	.91	1.40	3.00	2.88	2.23	2.23	2.64	1.58	.84	.78	.42	.42
IN.	1.05	1.56	3.45	3.33	2.33	2.56	2.94	1.82	.94	.90	.49	.47

CAL YR 1973 TOTAL 2,996.2 MEAN 8.21 MAX 26 MIN 2.0 CFSM 1.67 IN 22.61
WTR YR 1974 TOTAL 2,895.3 MEAN 7.93 MAX 26 MIN 1.7 CFSM 1.61 IN 21.85

PEAK DISCHARGE (BASE, 55 CFS).--No peak above base.

01553500 West Branch Susquehanna River at Lewisburg, Pa.

LOCATION.--Lat 40°58'05", long 76°52'25", Union County, at downstream side of left abutment of Market Street bridge at Lewisburg, 0.2 mi (0.3 km) downstream from Buffalo Creek, and 7.4 mi (11.9 km), upstream from mouth.

DRAINAGE AREA.--6,847 mi^2 (17,734 km^2).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1302. September 1913 to August 1923 (gage heights only) are contained in reports of Water Supply Commission of Pennsylvania or Pennsylvania Department of Forests and Waters.

GAGE.--Water-stage recorder. Datum of gage is 428.20 ft (130.515 m) above mean sea level. Sept. 21, 1913 to Aug. 31, 1923, Dec. 7, 1939 to July 2, 1940, nonrecording gage at same site and datum. Since Oct. 1, 1942, water-stage recorder for station on Susquehanna River at Sunbury used as an auxiliary gage for this station.

AVERAGE DISCHARGE.--35 years (1939-74), 10,510 ft^3/s (298 m^3/s), 20.85 in/yr (530 mm/yr), adjusted for storage since October 1961.

EXTREMES.--Current year: Maximum discharge, 75,300 ft^3/s (2,130 m^3/s) Apr. 5 (gage height, 14.50 ft or 4.120 m), backwater from Susquehanna River; minimum, 1,480 ft^3/s (41.9 m^3/s) Aug. 27 (gage height, 1.32 ft or 0.402 m).
Period of record: Maximum discharge, about 300,000 ft^3/s (8,500 m^3/s) June 24, 1972; maximum gage height, 34.23 ft (10.433 m) June 24, 1972, from floodmarks (backwater from Susquehanna River); minimum discharge, not determined.
Maximum stage known prior to 1939, 32.1 ft (9.78 m) Mar. 19, 1936, from floodmarks (discharge, 287,000 ft^3/s or 8,130 m^3/s, from slope-area measurement at Watsontown), backwater from Susquehanna River.

REMARKS.--Records good except those for winter periods, which are fiar. Flow regulated by Glendale, Curwensville, Kettle Creek, Foster Joseph Sayers Lakes, First Fork Sinnemahoning Creek Reservoir (see p.189) and Little Pine Creek Reservoir (capacity 24,900 acre-ft or 30.7 hm^3) about 75 mi (120 km) upstream. Records of water quality for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,500	29,600	25,400	27,000	28,700	12,100	26,300	8,650	6,360	18,200	4,970	6,800
2	3,680	23,000	20,900	23,900	24,100	12,100	29,100	11,000	6,900	35,900	4,000	9,790
3	5,380	19,600	17,500	20,200	20,900	12,500	47,100	12,300	6,770	28,300	3,890	9,630
4	4,770	17,100	15,200	17,700	17,900	13,000	69,300	12,300	6,690	19,600	3,560	14,600
5	6,120	14,600	14,500	15,200	15,300	14,800	72,200	12,200	5,560	14,500	3,710	22,400
6	7,340	12,600	32,600	13,400	12,800	18,400	56,200	11,500	4,820	12,900	3,690	16,200
7	7,770	11,200	27,100	11,500	11,000	21,000	40,200	11,300	4,360	11,600	3,500	11,600
8	7,670	10,200	20,000	10,000	10,500	20,500	29,800	10,600	4,170	9,970	3,180	9,240
9	7,300	9,400	20,400	9,200	9,400	28,600	25,800	9,740	3,960	8,300	2,870	7,880
10	6,780	8,790	30,400	8,600	8,800	59,500	24,100	10,300	3,780	7,180	2,630	6,610
11	5,730	8,480	28,000	8,800	8,200	66,900	21,100	10,500	3,800	6,520	2,490	5,740
12	4,790	9,820	24,700	9,000	7,800	50,900	20,500	10,400	4,250	5,740	2,360	5,120
13	4,490	9,370	21,100	8,600	8,200	38,000	21,200	20,100	3,840	5,190	2,290	4,860
14	4,320	8,750	18,400	8,000	8,200	28,900	22,300	37,900	3,330	5,080	2,420	4,980
15	4,110	7,500	16,700	7,200	7,400	22,700	25,900	34,700	3,140	4,770	2,250	4,700
16	4,090	6,320	14,700	9,100	6,900	18,500	29,400	27,600	4,680	5,080	2,120	4,680
17	3,990	6,200	13,100	11,300	6,400	16,700	26,400	21,200	10,100	6,550	2,020	5,270
18	3,730	6,500	11,600	12,900	6,000	18,500	22,100	17,200	11,300	4,840	1,890	4,270
19	3,440	6,570	10,300	14,100	5,800	16,400	19,400	14,600	9,090	4,080	1,870	3,650
20	3,250	6,090	9,650	16,600	5,800	14,700	17,400	12,500	7,460	3,620	1,900	3,430
21	3,220	5,810	32,300	23,800	5,700	14,500	15,300	11,200	6,220	3,300	2,060	3,860
22	3,080	5,620	51,100	34,500	7,820	15,800	13,600	10,400	5,720	2,980	1,920	9,160
23	2,890	5,510	39,500	45,000	21,400	16,200	13,000	9,760	5,430	2,800	1,860	11,200
24	2,760	5,640	29,000	41,600	26,700	15,300	12,400	9,340	5,170	2,890	1,770	10,000
25	2,730	6,400	22,700	38,400	22,100	14,800	11,700	8,840	4,800	3,160	1,630	8,200
26	2,600	11,400	21,500	32,600	18,100	13,700	10,700	8,510	4,580	3,350	1,550	6,800
27	2,630	17,800	33,000	28,100	14,900	12,300	9,510	7,770	4,940	3,240	1,520	6,130
28	2,500	19,900	49,600	28,500	12,800	11,400	9,010	6,880	6,950	2,940	1,810	5,710
29	2,520	26,400	52,700	33,400	------	10,900	8,470	6,350	7,770	3,170	1,980	5,490
30	11,400	29,400	42,700	36,600	------	11,300	7,870	6,090	7,920	5,370	2,600	5,250
31	33,200	------	32,800	33,200	------	19,000	------	5,870	------	5,990	5,080	------
TOTAL	171,780	365,570	799,150	638,000	359,620	659,900	757,360	407,600	173,860	257,110	81,390	233,250
MEAN	5,541	12,190	25,780	20,580	12,840	21,290	25,250	13,150	5,795	8,294	2,625	7,775
MAX	33,200	29,600	52,700	45,000	28,700	66,900	72,200	37,900	11,300	35,900	5,080	22,400
MIN	2,500	5,510	9,650	7,200	5,700	10,900	7,870	5,870	3,140	2,800	1,520	3,430
MEAN≠	5,525	12,060	25,790	20,500	12,960	21,440	25,350	13,270	5,807	8,277	2,600	7,752
CFSM≠	.81	1.76	3.77	2.99	1.89	3.13	3.70	1.94	.85	1.21	.38	1.13
IN.≠	.93	1.96	4.35	3.45	1.97	3.61	4.13	2.24	.95	1.40	.44	1.26

CAL YR 1973 TOTAL 4,823,670 MEAN 13,220 MAX 79,500 MIN 2,460 MEAN≠ 13,230 CFSM≠ 1.93 IN.≠ 26.23
WTR YR 1974 TOTAL 4,904,590 MEAN 13,440 MAX 72,200 MIN 1,520 MEAN≠ 13,460 CFSM≠ 1.97 IN.≠ 26.69

≠ Adjusted for change in contents in Glendale, Curwensville, Kettle Creek, Foster Joseph Sayers Lakes and First Fork Sinnemahoning Creek Reservoir.

01553600 East Branch Chillisquaque Creek near Washingtonville, Pa.

LOCATION.--Lat 41°04'57", long 76°39'17", Montour County, on right bank 30 ft (9 m) upstream from highway bridge on Legislative Route 47017, 0.2 mi (0.3 km) downstream from White Hall Creek, 0.7 mi (1.1 km) upstream from Middle Branch Chillisquaque Creek, 2.3 mi (3.7 km) upstream from mouth, and 2.5 mi (4.0 km) northeast of Washingtonville.

DRINAGE AREA.--9.48 mi^2 (24.55 km^2).

PERIOD OF RECORD.--April 1960 to current year. Prior to October 1969, published as White Hall Creek near Washingtonville.

GAGE.--Water-stage recorder. Altitude of gage is 530 ft (160 m), from topographic map.

AVERAGE DISCHARGE.--14 years, 11.8 ft^3/s (0.33 m^3/s), 16.90 in/yr (429 mm/yr).

EXTREMES.--Current year: Maximum discharge, 874 ft^3/s (24.8 m^3/s) June 30 (gage height, 7.54 ft or 2.298 m), from rating curve extended as explained below; minimum, 0.06 ft^3/s (0.002 m^3/s) June 15; minimum gage height, 1.33 ft (0.405 m) July 22.

Period of record: Maximum discharge, 4,390 ft^3/s (124 m^3/s) June 22, 1972 (gage height, 11.11 ft or 3.386 m, from floodmark in gage shelter), from rating curve extended above 350 ft^3/s (9.9 m^3/s) on basis of contracted-opening measurement of peak flow at site 0.7 mi (1.1 km) upstream, adjusted for intervening area; no flow for many days.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	28	46	58	30	24	136	16	16	205	3.6	1.6
2	3.0	23	42	27	25	21	105	5.9	4.1	37	3.7	3.0
3	2.4	18	40	18	21	23	88	7.6	2.5	17	91	12
4	1.9	13	39	14	16	24	79	6.4	1.7	9.6	38	8.2
5	20	11	120	12	12	25	56	5.0	1.2	15	15	3.1
6	11	9.2	127	10	7.6	20	38	5.2	.87	9.1	7.6	2.1
7	6.0	7.8	96	8.2	6.8	19	28	5.0	.61	5.6	4.8	1.5
8	4.4	6.6	82	7.0	6.2	44	25	4.3	.54	3.9	3.4	1.2
9	3.5	5.6	209	6.2	5.6	122	71	7.1	.47	2.9	2.8	.90
10	2.8	4.8	142	6.4	5.2	109	44	7.4	.61	2.5	2.2	.70
11	2.3	4.0	100	6.8	4.9	49	34	5.0	3.0	2.4	1.6	.58
12	1.9	3.4	82	5.8	5.8	31	28	55	.54	1.5	1.2	.50
13	1.6	3.0	74	5.2	6.2	21	23	72	.31	1.1	1.2	10
14	9.0	2.7	81	4.9	5.0	15	19	36	.15	.95	.95	4.0
15	7.0	2.4	67	8.0	4.4	11	20	22	2.7	1.9	.75	2.2
16	5.8	4.3	57	25	4.0	14	14	14	179	1.0	.59	1.4
17	4.8	3.0	50	51	3.8	14	11	12	39	.63	.59	1.0
18	3.8	2.4	43	28	3.7	10	9.8	10	19	.51	.63	.80
19	3.2	2.4	40	32	3.6	7.4	13	6.4	14	.55	.51	.71
20	2.6	2.1	110	27	6.0	5.9	10	4.5	11	.44	.41	.63
21	2.2	1.8	406	165	13	41	8.7	3.7	9.5	.44	.29	12
22	1.9	1.7	139	139	92	31	8.7	5.4	8.4	.38	.32	7.4
23	1.7	1.4	96	102	60	25	9.0	9.2	6.4	.38	.44	3.8
24	1.6	1.5	77	79	41	19	7.1	5.9	5.4	1.0	.41	2.6
25	1.5	46	68	63	31	13	5.7	4.1	6.6	.75	.32	2.3
26	1.3	44	129	51	25	11	5.0	3.0	4.7	.55	.26	2.2
27	1.2	41	196	91	21	9.2	4.3	2.4	2.7	.59	.29	1.9
28	1.3	60	153	97	20	7.4	3.7	1.8	2.2	.55	1.3	4.2
29	12	55	105	88	------	6.9	3.5	1.8	10	25	.80	11
30	62	50	87	59	------	41	3.7	1.7	82	35	11	7.4
31	32	------	72	42	------	226	------	1.2	------	7.0	2.7	------
TOTAL	219.6	459.1	3,175	1,336.5	485.8	1,039.8	911.2	347.0	435.20	390.22	198.66	110.92
MEAN	7.08	15.3	102	43.1	17.4	33.5	30.4	11.2	14.5	12.6	6.41	3.70
MAX	62	60	406	165	92	226	136	72	179	205	91	12
MIN	1.2	1.4	39	4.9	3.6	5.9	3.5	1.2	.15	.38	.26	.50
CFSM	.75	1.61	10.8	4.55	1.84	3.53	3.21	1.18	1.53	1.33	.68	.39
IN.	.86	1.80	12.46	5.24	1.91	4.08	3.58	1.36	1.71	1.53	.78	.44

CAL YR 1973 TOTAL 7,936.18 MEAN 21.7 MAX 406 MIN 0 CFSM 2.29 IN 31.14
WTR YR 1974 TOTAL 9,109.00 MEAN 25.0 MAX 406 MIN .15 CFSM 2.64 IN 35.74

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1245	5.85	415	6-16	0730	7.14	742
12-21	0045	7.15	745	6-30	2345	7.54	874
1-21	1515	5.97	439	7-29	2145	5.47	339
3- 9	2115	5.77	375	8- 3	1630	6.68	605
3-31	0345	5.29	308				

01554000 Susquehanna River at Sunbury, Pa.

LOCATION.--Lat 40°50'04", long 76°49'37", Snyder County, on right bank at borough of Shamokin Dam, on grounds of Pennsylvania Power and Light Company generating plant, 1 mi (1.6 km) downstream from Shamokin Creek, and 1.8 mi (2.9 km) south of Sunbury.

DRAINAGE AREA.--18,300 mi^2 (47,400 km^2), approximately (excluding that of Shamokin Creek).

PERIOD OF RECORD.--October 1937 to current year. June 1918 to September 1918 (gage heights only) in reports of Pennsylvania Department of Forests and Waters.

GAGE.--Water-stage recorder. Datum of gage is 408.61 ft (124.544 m) above mean sea level. See WSP 1903 for history of changes prior to Dec. 13, 1937. Dec. 13, 1937 to Mar. 23, 1967, water-stage recorder at site 1.7 mi (2.7 km) upstream at datum 11.05 ft (3.368 m) higher.

AVERAGE DISCHARGE.--37 years, 25,830 ft^3/s (732 m^3/s), 19.17 in/yr (487 mm/yr).

EXTREMES.--Current year: Maximum discharge, 157,000 ft^3/s (4,450 m^3/s) Dec. 29 (19.07 ft or 5.813 m); minimum, 3,360 ft^3/s (95.2 m^3/s) Aug. 26 (gage height, 5.84 ft or 1.780 m).
Period of record: Maximum discharge, 620,000 ft^3/s (17,600 m^3/s) June 24, 1972 (gage height, 35.80 ft or 10.912 m), from rating curve extended above 290,000 ft^3/s (8,200 m^3/s) on basis of runoff comparisons with upstream stations; minimum, 964 ft^3/s (27.3 m^3/s) Oct. 16, 1971 (gage height, 4.83 ft or 1.472 m), result of shutoff at Sunbury Fabridam.

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

REVISIONS (WATER YEARS).--WSP 891: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,420	35,900	39,300	81,300	76,400	33,200	51,400	20,900	16,300	33,400	10,700	11,800
2	7,720	33,200	34,100	66,500	62,800	31,900	62,300	24,500	18,600	56,200	8,610	16,900
3	8,800	27,500	29,300	55,800	53,600	31,900	90,000	26,200	18,200	48,400	8,940	20,500
4	8,700	23,800	26,000	48,100	45,200	32,800	142,000	26,500	16,300	35,800	10,400	27,400
5	8,940	20,200	23,400	41,100	37,400	36,000	152,000	26,000	14,200	26,400	9,480	38,600
6	10,900	18,400	43,400	35,700	32,800	49,600	141,000	24,600	12,500	23,500	8,890	30,300
7	11,100	16,400	49,100	31,200	29,300	64,400	115,000	23,800	11,300	27,900	7,910	26,100
8	11,000	14,800	48,100	28,800	26,400	62,500	92,300	22,500	10,500	25,700	6,950	22,200
9	10,700	14,100	45,800	25,600	23,000	66,400	79,000	20,900	9,840	20,800	6,640	18,000
10	10,000	12,700	68,900	23,600	21,000	101,000	73,800	22,100	9,230	17,300	6,330	14,300
11	9,280	12,800	82,100	22,700	20,000	113,000	64,900	23,100	9,080	15,200	6,080	12,700
12	8,140	13,600	74,300	22,900	18,000	93,000	61,100	24,500	9,230	13,100	5,580	11,400
13	7,540	13,000	59,400	21,200	20,000	72,200	67,300	40,600	8,940	11,300	5,230	11,100
14	7,360	13,100	48,700	20,300	20,700	57,800	75,700	68,800	8,230	10,400	5,150	11,700
15	7,180	10,700	42,200	18,500	20,100	47,300	77,800	77,900	8,000	10,400	4,930	11,700
16	6,950	10,000	36,600	19,100	19,500	40,100	90,500	63,400	11,500	9,580	4,680	11,200
17	6,820	10,300	33,000	22,700	18,000	36,900	87,800	49,700	16,700	11,000	4,610	10,600
18	6,550	10,800	28,300	26,000	17,600	38,500	70,600	41,000	19,400	9,480	4,510	9,630
19	6,120	11,000	24,200	27,100	16,600	38,400	58,000	35,300	18,000	8,470	4,400	9,480
20	5,830	10,600	20,100	29,600	14,600	35,600	49,900	36,200	16,300	7,910	4,240	8,890
21	5,950	9,780	58,500	36,300	15,000	34,900	44,400	33,000	13,700	7,400	4,210	8,840
22	5,660	10,600	134,000	56,400	16,500	40,800	38,700	28,100	12,400	6,820	4,110	14,300
23	4,860	9,530	122,000	78,600	41,800	45,500	36,100	24,700	12,000	6,030	4,020	19,600
24	5,660	9,330	93,300	82,200	85,300	43,200	32,700	21,800	11,700	6,080	3,890	18,700
25	5,120	10,600	72,200	87,400	74,800	41,100	30,300	21,700	10,700	6,330	4,050	16,900
26	4,860	14,500	59,400	78,500	56,600	39,500	29,400	21,200	10,500	6,640	3,680	16,900
27	4,930	25,000	80,200	66,400	44,700	35,800	27,400	19,900	11,700	6,860	3,650	14,700
28	4,790	28,800	134,000	68,300	36,400	32,400	25,300	18,600	12,400	6,550	3,950	12,700
29	5,120	36,900	151,000	92,800	------	30,400	23,300	17,400	14,000	7,000	5,190	13,000
30	19,900	42,600	124,000	103,000	------	29,700	21,100	15,900	15,400	10,800	5,620	13,700
31	39,500	------	100,000	91,600	------	40,100	------	15,500	------	12,100	8,750	------
TOTAL	274,400	530,540	1,984.9M	1,509.3M	964,100	1,495.9M	2,011.1M	936,300	386,850	504,850	185,380	483,840
MEAN	8,852	17,680	64,030	48,690	34,430	48,250	67,040	30,200	12,900	16,290	5,980	16,130
MAX	39,500	42,600	151,000	103,000	85,300	113,000	152,000	77,900	19,400	56,200	10,700	38,600
MIN	4,790	9,330	20,100	18,500	14,600	29,700	21,100	15,500	8,000	6,030	3,650	8,840
CFSM	.48	.97	3.50	2.66	1.88	2.64	3.66	1.65	.70	.89	.33	.88
IN.	.56	1.08	4.03	3.07	1.96	3.04	4.09	1.90	.79	1.03	.38	.98

CAL YR 1973 TOTAL 11,216,760 MEAN 30,730 MAX 155,000 MIN 4,790 CFSM 1.68 IN 22.80
WTR YR 1974 TOTAL 11,267,460 MEAN 30,870 MAX 152,000 MIN 3,650 CFSM 1.69 IN 22.90

01554500 Shamokin Creek near Shamokin, Pa.

LOCATION.--Lat 40°48'37", long 76°35'04", Northumberland County, on right bank at Weigh Scales, 1 mi (1.6 km) downstream from Trout Run, 1.1 mi (1.8 km) upstream from Bennys Run, and 2 mi (3.2 km) northwest of Shamokin.

DRAINAGE AREA.--54.2 mi^2 (140.4 km^2).

PERIOD OF RECORD.--November 1939 to current year. Published as "at Weigh Scales" 1939-63.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 606.28 ft (184.794 m) above mean sea level. Nov. 14, 1939 to Jan. 9, 1967, water-stage recorder at site 0.4 mi (0.6 km) upstream at datum 2.00 ft (0.610 m) higher and Jan. 10 to Dec. 10, 1967, nonrecording gage at site 0.4 mi (0.6 km) downstream at datum 11.50 ft (3.505 m) lower.

AVERAGE DISCHARGE.--34 years (1940-74), 84.1 ft^3/s (2.38 m^3/s), 21.07 in/yr (535 mm/yr).

EXTREMES.--Current year: Maximum discharge, 820 ft^3/s (23.2 m^3/s) July 28 (gage height, 4.20 ft or 1.280 m), from rating curve extended as explained below; minimum, 32 ft^3/s (0.91 m^3/s) Nov. 23, 26, Dec. 3 (gage height, 2.25 ft or 0.686 m).

Period of record: Maximum discharge, 4,070 ft^3/s (115 m^3/s) June 22, 1972 (gage height, 8.72 ft or 2.658 m), from rating curve extended above 320 ft^3/s (9.06 m^3/s) on basis of slope-area measurement of peak flow; minimum, 3.2 ft^3/s (0.091 m^3/s) Feb. 15, 1940 (gage height, 0.42 ft or 0.128 m, at site and datum then in use); minimum daily, 9.8 ft^3/s (0.28 m^3/s) Jan. 5, 1947.

REMARKS.--Records good. Regulation by mine pumps above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	52	37	226	149	84	149	100	98	183	66	98
2	66	45	37	190	147	82	158	94	82	104	96	84
3	57	45	37	174	141	80	171	100	79	98	102	114
4	54	44	38	161	136	79	197	92	77	94	82	77
5	52	43	79	149	128	79	211	90	75	96	72	66
6	52	43	57	141	123	77	201	90	74	96	69	64
7	51	42	48	133	123	77	194	88	72	84	66	70
8	49	42	48	128	118	107	194	84	74	82	66	59
9	49	42	152	125	116	133	238	104	72	79	67	57
10	48	42	111	125	111	130	197	92	72	84	62	57
11	47	41	109	133	109	123	187	84	75	79	61	54
12	47	41	102	123	107	128	180	164	67	72	59	57
13	47	42	102	114	102	125	177	139	67	70	57	72
14	47	39	102	111	100	123	171	123	64	70	57	84
15	44	44	88	111	98	116	161	120	66	74	54	61
16	44	44	84	116	96	133	149	116	107	67	54	57
17	43	39	82	118	94	118	144	114	100	64	57	57
18	43	39	79	107	90	109	139	109	69	64	52	56
19	42	39	75	109	100	107	139	104	66	69	51	56
20	43	38	128	102	92	100	130	100	70	64	51	54
21	42	37	417	183	88	133	125	98	64	61	49	86
22	41	38	296	164	139	111	123	111	64	58	92	62
23	41	37	257	168	107	104	120	111	94	57	67	56
24	39	45	222	171	86	104	116	96	70	62	52	52
25	39	45	197	168	84	100	111	92	77	57	49	52
26	39	38	253	168	82	100	109	90	66	59	49	51
27	39	39	334	171	79	100	107	90	64	56	49	49
28	38	52	324	174	80	98	104	86	80	96	67	74
29	114	42	291	171	------	98	102	92	82	116	54	66
30	77	38	266	161	------	120	100	84	102	120	62	52
31	51	------	241	158	------	155	------	86	------	70	49	------
TOTAL	1,546	1,257	4,693	4,553	3,025	3,333	4,604	3,143	2,289	2,505	1,940	1,954
MEAN	49.9	41.9	151	147	108	108	153	101	76.3	80.8	62.6	65.1
MAX	114	52	417	226	149	155	238	164	107	183	102	114
MIN	38	37	37	102	79	77	100	84	64	56	49	49
CFSM	.92	.77	2.79	2.71	1.99	1.99	2.82	1.86	1.41	1.49	1.16	1.20
IN.	1.06	.86	3.22	3.12	2.08	2.29	3.16	2.16	1.57	1.72	1.33	1.34

CAL YR 1973 TOTAL 33,695 MEAN 92.3 MAX 417 MIN 33 CFSM 1.70 IN 23.13
WTR YR 1974 TOTAL 34,842 MEAN 95.5 MAX 417 MIN 37 CFSM 1.76 IN 23.91

PEAK DISCHARGE (BASE, 700 CFS).--June 30 (2315) 710 cfs (4.03 ft); July 28 (2115) 820 cfs (4.20 ft).

01555000 Penns Creek at Penns Creek, Pa.

LOCATION.--Lat 40°52'00", long 77°02'55", Union County, on left bank 200 ft (61 m) downstream from bridge on State Highway 104, 0.8 mi (1.3 km) northeast of Penns Creek, and 2.9 mi (4.7 km) upstream from Sweitzers Run.

DRAINAGE AREA.--301 mi^2 (780 km^2).

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1965, published as Penn Creek at Penns Creek.

GAGE.--Water-stage recorder. Datum of gage is 506.72 ft (154.448 m) above mean sea level. Prior to Feb. 1, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 418 ft^3/s (11.8 m^3/s), 18.86 in/yr (479 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,360 ft^3/s (95.2 m^3/s) Dec. 21 (gage height, 5.99 ft or 1.826 m); minimum, 80 ft^3/s (2.27 m^3/s) Oct. 28, 29 (gage height, 1.45 ft or 0.442 m).
Period of record: Maximum discharge, 34,600 ft^3/s (980 m^3/s) June 23, 1972 (gage height, 14.85 ft or 4.526 m, from floodmark in gage well), from rating curve extended above 6,000 ft^3/s (170 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 7.0 ft^3/s (0.20 m^3/s) Sept. 27, 1932; minimum daily, 21 ft^3/s (0.59 m^3/s) Aug. 30, Sept. 3, 1966.

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

REVISIONS (WATER YEARS).--WSP 891: 1934(M). WSP 1502: 1933(M), 1934, 1936(M). WRD Penna. 1972: 1933-34(M), 1936(M), 1940(M), 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	695	321	1,230	1,040	406	1,440	399	395	779	318	178
2	144	545	308	1,050	948	399	1,520	362	345	495	362	461
3	177	445	299	922	870	395	2,490	352	299	406	395	308
4	159	391	295	850	767	406	2,920	355	274	362	311	429
5	141	355	545	737	620	429	2,570	324	255	338	270	292
6	137	328	1,640	600	520	441	2,040	315	243	352	234	240
7	125	308	1,100	540	540	421	1,640	308	231	321	208	220
8	119	289	876	470	470	503	1,400	299	228	289	195	203
9	115	277	1,390	490	440	1,590	1,570	315	222	267	189	187
10	111	261	1,830	536	410	2,350	1,300	348	217	267	217	176
11	107	249	1,380	526	410	1,800	1,100	308	286	600	197	168
12	105	237	1,150	517	420	1,480	994	531	240	399	173	160
13	101	231	994	400	400	1,210	941	1,150	211	321	165	180
14	101	225	935	360	370	1,040	909	876	197	289	160	300
15	99	222	818	453	360	915	974	743	195	305	150	220
16	95	249	695	600	348	837	818	643	517	305	140	180
17	92	243	632	850	345	785	725	574	453	258	137	160
18	92	217	517	683	331	671	671	521	359	240	135	140
19	90	211	450	600	331	616	643	473	299	231	130	135
20	90	203	671	610	341	569	605	437	295	222	125	133
21	88	195	2,830	1,080	331	683	554	410	289	211	121	155
22	86	192	2,090	1,710	554	773	531	406	270	211	119	206
23	85	187	1,570	1,460	818	585	545	491	289	197	119	184
24	85	189	1,260	1,350	491	545	503	449	318	211	114	147
25	83	237	1,070	1,210	449	499	461	387	280	206	110	165
26	83	324	1,170	1,110	410	478	425	359	277	192	110	135
27	82	289	2,190	1,090	380	465	402	341	270	217	110	125
28	82	341	2,460	1,150	387	449	384	331	255	189	130	116
29	498	380	2,030	1,350	------	441	366	321	348	237	135	116
30	1,780	338	1,720	1,210	------	654	359	328	324	683	187	114
31	798	------	1,400	1,130	------	1,500	------	305	------	421	192	------
TOTAL	6,089	8,853	36,636	26,874	14,101	24,335	31,800	13,761	8,681	10,021	5,658	5,933
MEAN	196	295	1,182	867	504	785	1,060	444	289	323	183	198
MAX	1,780	695	2,830	1,710	1,040	2,350	2,920	1,150	517	779	395	461
MIN	82	187	295	360	331	395	359	299	195	189	110	114
CFSM	.65	.98	3.93	2.88	1.67	2.61	3.52	1.48	.96	1.07	.61	.66
IN.	.75	1.09	4.53	3.32	1.74	3.01	3.93	1.70	1.07	1.24	.70	.73

CAL YR 1973 TOTAL 198,316 MEAN 543 MAX 4,580 MIN 82 CFSM 1.80 IN 24.51
WTR YR 1974 TOTAL 192,742 MEAN 528 MAX 2,920 MIN 82 CFSM 1.75 IN 23.82

PEAK DISCHARGE (BASE, 3,100 CFS).--Dec. 21 (1130) 3,360 cfs (5.99 ft); Apr. 4 (1230) 3,150 cfs (5.83 ft).

01555500 East Mahantango Creek near Dalmatia, Pa.

LOCATION.--Lat 40°36'40", long 76°54'44", Northumberland County, on right bank at highway bridge, 2 mi (3.2 km) upstream from mouth, and 3.2 mi (5.1 km) south of Dalmatia.

DRAINAGE AREA.--162 mi^2 (420 km^2).

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1945 published as Mahantango Creek East near Dalmatia.

GAGE.--Water-stage recorder. Datum of gage is 400.50 ft (122.072 m) above mean sea level (Pennsylvania Department of Transportation benchmark). Oct. 1, 1929 to Feb. 11, 1930, nonrecording gage, and Feb. 12, 1930 to Nov. 18, 1973, recording gage at present site and datum. Nov. 19, 1973 to June 18, 1974, nonrecording gage at site 2 mi (3.2 km) upstream at different datum.

AVERAGE DISCHARGE.--45 years, 217 ft^3/s (6.15 m^3/s), 18.19 in/yr (462 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,880 ft^3/s (167 m^3/s) Dec. 21 (gage height, 10.1 ft or 3.08 m, from graph based on gage readings), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s); minimum daily, 39 ft^3/s (1.10 m^3/s) Oct. 28.

Period of record: Maximum discharge, 69,900 ft^3/s (1,980 m^3/s) June 22, 1972 (gage height, 26.62 ft or 8.114 m, from floodmark in gage shelter), from rating curve extended above 4,000 ft^3/s (113 m^3/s) on basis of slope-area measurement of peak flow; minimum, 1.3 ft^3/s (0.037 m^3/s) Oct. 7, 1957, Nov. 3, 1964; minimum gage height, 0.84 ft (0.256 m) Sept. 21, 1932.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 891: 1933(M). WSP 1302: 1930(M), 1938(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	238	97	536	371	228	944	114	119	680	192	94
2	104	190	88	419	333	228	870	101	103	474	179	450
3	123	156	80	363	310	207	800	108	88	295	558	360
4	108	134	82	356	280	201	900	114	77	218	462	540
5	100	121	143	297	260	195	910	95	72	170	390	254
6	90	112	544	280	250	184	944	93	63	153	280	189
7	84	100	319	260	210	176	765	90	62	119	212	205
8	79	96	266	228	190	170	608	84	59	100	168	170
9	76	90	776	201	173	692	711	97	58	88	145	138
10	79	85	1,290	210	152	855	644	137	56	80	257	124
11	72	80	780	230	160	680	527	103	92	74	187	111
12	67	77	536	240	150	549	449	162	56	76	135	104
13	63	75	428	200	140	424	399	725	46	70	111	138
14	64	73	453	210	130	348	367	391	46	66	99	387
15	61	71	367	220	130	304	391	322	44	64	78	265
16	59	85	311	201	123	297	304	266	88	61	82	205
17	56	79	304	241	128	399	253	241	100	56	90	162
18	53	66	216	273	116	294	244	216	82	52	96	137
19	52	60	200	260	101	280	228	187	72	52	76	119
20	50	62	190	247	163	253	201	155	88	52	64	103
21	48	53	4,290	594	112	294	198	145	77	48	57	114
22	46	53	2,240	1,170	186	427	181	135	73	46	54	142
23	43	56	1,100	880	590	375	190	160	95	45	64	110
24	42	51	730	725	383	352	163	142	135	52	59	90
25	42	80	576	616	333	287	150	142	119	76	54	83
26	41	103	715	536	270	263	142	105	128	62	51	80
27	40	72	1,770	514	241	241	125	92	104	58	50	77
28	39	84	1,360	470	222	219	128	103	97	56	49	79
29	53	121	992	540	------	201	123	93	220	70	53	135
30	547	105	725	453	------	248	119	108	194	1,030	94	107
31	315	------	598	411	------	1,010	------	88	------	331	110	------
TOTAL	2,804	2,828	22,566	12,381	6,207	10,881	12,978	5,114	2,713	4,874	4,556	5,272
MEAN	90.5	94.3	728	399	222	351	433	165	90.4	157	147	176
MAX	547	238	4,290	1,170	590	1,010	944	725	220	1,030	558	540
MIN	39	51	80	200	101	170	119	84	44	45	49	77
CFSM	.56	.58	4.49	2.46	1.37	2.17	2.67	1.02	.56	.97	.91	1.09
IN.	.64	.65	5.18	2.84	1.43	2.50	2.98	1.17	.62	1.12	1.05	1.21

CAL YR 1973 TOTAL 92,054 MEAN 252 MAX 4,290 MIN 16 CFSM 1.56 IN 21.14
WTR YR 1974 TOTAL 93,174 MEAN 255 MAX 4,290 MIN 39 CFSM 1.57 IN 21.40

PEAK DISCHARGE (BASE, 1,900 CFS).--Dec. 21 (1700) 5,880 cfs (10.1 ft); Dec. 27 (0600) 1,930 cfs (6.1 ft).

01556000 Frankstown Branch Juniata River at Williamsburg, Pa.

LOCATION.--Lat 40°27'47", long 78°12'00", Blair County, on left bank 10 ft (3 m) downstream from highway bridge at Williamsburg, 2.5 mi (4.0 km) upstream from Clover Creek.

DRAINAGE AREA.--291 mi^2 (754 km^2).

PERIOD OF RECORD.--October 1916 to current year. Monthly figures only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 831.78 ft (253.53 m) above mean sea level (Penn Central Railroad bench mark). Prior to Aug. 14, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--58 years, 389 ft^3/s (11.0 m^3/s), 18.15 in/yr (461 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,670 ft^3/s (104 m^3/s) Jan. 21 (gage height, 9.03 ft or 2.752 m); minimum, 47 ft^3/s (1.33 m^3/s) Sept. 25 (gage height, 2.11 ft or 0.643 m).

Period of record: Maximum discharge, 47,600 ft^3/s (1.350 m^3/s) Mar. 18, 1936 (gage height, 18.58 ft or 5.663 m, from floodmark in gage shelter), from rating curve extended above 7,300 ft^3/s (207 m^3/s) on basis of slope-area measurement of peak flow; minimum, 13 ft^3/s (0.368 m^3/s) July 24, 1934 (gage height, 0.97 ft or 0.296 m); minimum daily, 31 ft^3/s (0.878 m^3/s) Dec. 24, 25, 1930.

Maximum stage known, 19.1 ft (5.82 m) June 1, 1889, from floodmark, discharge about 35,500 ft^3/s (1,010 m^3/s).

REMARKS.--Records good. Regulation at low flow by mill above station.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WRD Penna. 1971: 1954(M), 1960(M), 1961(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	800	567	780	657	334	1,220	302	391	864	107	114
2	331	559	467	641	591	361	1,320	269	287	505	100	254
3	309	448	391	588	553	420	1,140	329	254	384	100	329
4	230	371	360	641	488	414	1,460	309	233	311	105	272
5	205	324	655	536	388	429	1,130	270	216	386	105	142
6	176	288	970	497	359	407	932	263	202	532	95	112
7	158	258	605	475	354	385	774	268	190	275	93	114
8	150	235	502	404	328	418	674	249	179	227	90	102
9	142	220	1,060	389	300	1,090	916	247	175	203	130	91
10	138	205	1,280	633	274	2,210	729	279	171	187	116	88
11	129	191	859	1,250	284	1,320	630	238	183	182	105	84
12	123	185	672	1,140	296	955	598	981	155	162	92	82
13	120	179	610	795	314	781	775	1,580	147	149	92	102
14	120	173	612	672	287	598	750	930	140	139	87	139
15	115	171	527	819	260	523	689	696	145	136	80	105
16	110	258	460	1,270	237	488	616	553	313	129	77	86
17	115	207	390	1,470	237	462	545	467	204	120	76	80
18	110	180	342	1,160	217	400	494	462	165	115	77	76
19	110	177	356	1,200	235	378	456	385	148	126	79	72
20	110	174	466	1,100	255	355	413	335	157	116	74	73
21	105	179	1,490	2,330	244	507	375	297	143	111	77	81
22	105	199	929	2,320	390	516	365	279	139	111	76	117
23	105	198	787	1,680	436	408	505	353	224	111	81	84
24	105	247	665	1,240	381	391	397	304	277	110	77	75
25	105	832	554	1,000	361	351	357	256	259	120	74	71
26	100	917	885	834	274	344	339	236	359	104	97	71
27	100	669	2,050	835	268	334	324	222	254	105	82	70
28	105	1,030	1,850	791	277	318	312	210	208	103	90	74
29	600	839	1,320	933	------	308	299	208	266	119	93	81
30	2,800	671	1,080	784	------	570	290	289	223	330	160	112
31	1,300	------	873	698	------	1,500	------	238	------	138	144	------
TOTAL	8,747	11,384	24,634	29,905	9,545	18,275	19,824	12,304	6,407	6,710	2,931	3,353
MEAN	282	379	795	965	341	590	661	397	214	216	94.5	112
MAX	2,800	1,030	2,050	2,330	657	2,210	1,460	1,580	391	864	160	329
MIN	100	171	342	389	217	308	290	208	139	103	74	70
CFSM	.97	1.30	2.73	3.32	1.17	2.03	2.27	1.36	.74	.74	.32	.38
IN.	1.12	1.46	3.15	3.82	1.22	2.34	2.53	1.57	.82	.86	.37	.43

CAL YR 1973 TOTAL 176,829 MEAN 484 MAX 2,940 MIN 70 CFSM 1.66 IN 22.60
WTR YR 1974 TOTAL 154,019 MEAN 422 MAX 2,800 MIN 70 CFSM 1.45 IN 19.69

PEAK DISCHARGE (BASE, 4,200 CFS).--No peak above base.

01557500 Bald Eagle Creek at Tyrone, Pa.

LOCATION.--Lat 40°41'01", long 78°14'02", Blair County, on left bank, 0.2 mi (0.3 km) upstream from plant of West Virginia Pulp and Paper Co. at Tyrone, 0.2 mi (0.3 km) upstream from Laurel Run, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--44.1 mi^2 (114.2 km^2).

PERIOD OF RECORD.--October 1944 to current year. Prior to October 1967. published as South Bald Eagle Creek at Tyrone.

GAGE.--Water-stage recorder. Datum of gage is 921.80 ft (280.965 m) above mean sea level. Oct. 1, 1944 to Nov. 15, 1950, water-stage recorder, and Nov. 16, 1950 to Nov. 30, 1952, nonrecording gage at site 0.5 mi (0.8 km) downstream at datum 17.99 ft (5.483 m) lower.

AVERAGE DISCHARGE.--30 years, 74.7 ft^3/s (2.12 m^3/s), 23.00 in/yr (584 mm/yr), adjusted for diversion from October 1950 to November 1952.

EXTREMES.--Current year: Maximum discharge, 648 ft^3/s (18.4 m^3/s) May 12; maximum gage height, 3.07 ft (0.936 m) Apr. 2, May 12; minimum daily discharge, 4.5 ft^3/s (0.13 m^3/s) Oct. 1.

Period of record: Maximum discharge, 5,140 ft^3/s (146 m^3/s) Nov. 25, 1950 (gage height, 7.5 ft or 2.286 m, from floodmarks, at site and datum then in use), from rating curve extended above 2,100 ft^3/s (59.5 m^3/s), on basis of contracted-opening measurement of peak flow; minimum, 1.4 ft^3/s (0.040 m^3/s) Sept. 12, 13, 1973; minimum gage height, 0.15 ft (0.046 m) Aug. 31, Sept. 1, 1962, Sept. 11, 1965, Sept. 1, 2, 3, 4, 1966.

Maximum stage known, about 15 ft (4.572 m) Mar. 17 or 18, 1936, site and datum in use prior to Dec. 1, 1952.

REMARKS.--Records fair. Prior to Oct. 1, 1950, daily discharges were affected by diversion from the basin of a small quantity of water for boiler feed makeup for West Virginia Pulp and Paper Co. From Oct. 1, 1950 to Nov. 30, 1952, in addition to the effects of above diversion, daily discharges were affected by diversion into the basin, by West Virginia Pulp and Paper Co., of water from ground water sources. Daily discharges subsequent to Nov. 30, 1952 are not affected by diversion.

REVISIONS (WATER YEARS).--WSP 1903: 1954(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	62	62	116	140	57	267	54	75	133	12	116
2	25	43	56	90	123	65	443	43	42	88	11	82
3	20	33	51	81	105	68	479	62	36	73	13	160
4	11	28	50	71	86	68	506	53	32	73	33	86
5	15	25	102	60	70	81	370	51	31	94	22	50
6	9.8	23	101	57	64	79	274	57	29	62	15	38
7	7.0	21	73	51	59	79	209	56	28	50	13	31
8	7.0	20	65	48	53	75	176	53	27	43	13	26
9	6.0	19	153	46	50	116	181	56	26	38	13	22
10	6.0	18	168	47	50	192	165	60	31	39	15	19
11	5.7	16	126	54	46	155	160	50	35	38	13	17
12	5.7	15	103	50	38	135	153	341	24	29	12	15
13	5.7	15	90	46	38	109	153	468	21	26	13	30
14	7.8	13	86	39	39	90	145	291	19	24	10	28
15	7.0	22	71	54	32	77	143	218	100	26	9.1	15
16	6.7	33	62	114	32	75	121	170	150	20	8.6	12
17	6.4	23	55	181	28	67	107	140	77	15	9.1	11
18	6.2	19	52	121	26	57	96	123	57	13	9.1	9.1
19	6.0	19	50	173	25	53	88	98	51	13	9.1	8.6
20	6.0	19	97	171	30	47	77	84	65	11	8.6	8.2
21	5.8	19	171	385	27	103	70	75	46	10	7.8	43
22	5.6	20	110	340	145	82	72	68	42	9.1	7.4	19
23	5.5	19	90	270	123	73	77	79	67	10	8.2	13
24	5.4	23	73	229	94	68	63	62	51	26	7.8	12
25	5.3	78	63	192	81	59	56	53	181	13	7.0	12
26	5.2	81	149	160	68	54	51	47	333	11	6.6	11
27	5.2	65	247	160	64	50	47	43	242	11	6.6	11
28	10	96	235	186	53	47	44	39	173	9.5	26	12
29	140	82	192	211	------	48	43	41	153	38	28	15
30	81	71	163	192	------	121	43	38	118	29	57	11
31	35	------	136	168	------	245	------	44	------	14	24	------
TOTAL	478.5	1,040	3,302	4,163	1,789	2,695	4,879	3,117	2,362	1,088.6	448.0	942.9
MEAN	15.4	34.7	107	134	63.9	86.9	163	101	78.7	35.1	14.5	31.4
MAX	140	96	247	385	145	245	506	468	333	133	57	160
MIN	4.5	13	50	39	25	47	43	38	19	9.1	6.6	8.2
CFSM	.35	.79	2.43	3.04	1.45	1.97	3.70	2.29	1.78	.80	.33	.71
IN.	.40	.88	2.79	3.51	1.51	2.27	4.12	2.63	1.99	.92	.38	.80

CAL YR 1973 TOTAL 26,500.5 MEAN 72.6 MAX 545 MIN 1.4 CFSM 1.65 IN 22.35
WTR YR 1974 TOTAL 26,305.0 MEAN 72.1 MAX 506 MIN 4.5 CFSM 1.63 IN 22.19

PEAK DISCHARGE (BASE, 940 cfs).--No peak above base.

01558000 Little Juniata River at Spruce Creek, Pa.

LOCATION.--Lat 40°36'45", long 78°08'27", Huntingdon County, on right bank 150 ft (46 m) downstream from Penn Central Railroad bridge, 0.5 mi (0.8 km) northwest of village at Spruce Creek, and 0.5 mi (0.8 km) upstream from Spruce Creek.

DRAINAGE AREA.--220 mi^2 (570 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 751.15 ft (228.951 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 365 ft^3/s (10.3 m^3/s), 22.53 in/yr (572 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,790 ft^3/s (79.0 m^3/s), Apr. 4 (gage height, 5.54 ft or 1.689 m); minimum daily, 76 ft^3/s (2.15 m^3/s) Aug. 22.

Period of record: Maximum discharge, 28,600 ft^3/s (810 m^3/s) June 23, 1972 (gage height, 16.98 ft or 5.176 m), from rating curve extended above 5,600 ft^3/s (159 m^3/s) on basis of slope-area measurement at gage height, 15.77 ft (4.807 m); minimum, 45 ft^3/s (1.27 m^3/s) Sept. 26, 1943, Oct. 4, 1949; minimum gage height, 1.41 ft (0.430 m) Sept. 26, 1943.

Maximum stage known, about 19.1 ft (5.82 m) Mar. 18, 1936, from floodmarks 175 ft (53 m) downstream, discharge, 39,800 ft^3/s (1,130 m^3/s), from rating curve extended as explained above.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	618	512	726	642	339	1,230	278	382	714	122	312
2	236	556	464	613	590	361	1,810	245	254	480	113	410
3	233	485	434	556	539	393	1,850	307	226	405	115	541
4	190	424	405	523	480	385	2,190	289	216	351	131	402
5	187	382	534	454	415	415	1,610	262	209	545	127	233
6	169	351	660	424	382	411	1,190	268	197	368	111	191
7	155	316	507	387	373	404	915	272	190	312	104	177
8	150	292	464	342	347	406	758	257	187	277	104	159
9	142	262	782	338	320	688	795	259	184	254	108	147
10	136	230	999	355	294	1,250	701	279	178	240	111	140
11	131	203	782	439	297	898	672	249	187	247	104	134
12	127	190	654	434	279	767	624	856	169	209	100	130
13	122	184	590	333	276	660	652	1,470	161	193	102	137
14	117	178	573	316	285	560	623	925	155	184	94	184
15	115	175	501	396	259	480	608	726	190	184	89	138
16	111	251	444	744	236	440	548	601	545	172	87	124
17	111	213	405	1,020	378	400	499	523	316	163	89	118
18	108	190	387	744	216	380	461	507	258	155	87	114
19	111	187	368	876	223	363	433	424	236	152	87	112
20	106	184	429	883	240	336	399	378	321	147	84	111
21	104	178	1,070	1,640	235	503	367	342	240	136	82	148
22	100	187	757	1,700	483	469	357	321	226	134	76	194
23	102	175	642	1,400	545	406	409	378	316	134	90	134
24	102	184	562	1,180	420	394	345	321	308	161	86	121
25	100	405	501	991	398	356	313	280	523	139	82	119
26	100	618	726	828	345	341	291	262	876	134	140	119
27	100	485	1,400	776	318	325	276	251	714	134	140	116
28	98	678	1,400	795	310	309	269	236	573	127	130	117
29	475	636	1,150	904	------	309	261	236	562	142	108	122
30	984	567	984	795	------	516	257	243	439	216	166	132
31	578	------	814	726	------	1,100	------	233	------	134	129	------
TOTAL	5,819	9,984	20,900	22,638	10,125	15,364	21,713	12,478	9,538	7,343	3,298	5,336
MEAN	188	333	674	730	362	496	724	403	318	237	106	178
MAX	984	678	1,400	1,700	642	1,250	2,190	1,470	876	714	166	541
MIN	98	175	368	316	216	309	257	233	155	127	76	111
CFSM	.85	1.51	3.06	3.32	1.65	2.25	3.29	1.83	1.45	1.08	.48	.81
IN.	.98	1.69	3.53	3.83	1.71	2.60	3.67	2.11	1.61	1.24	.56	.90

CAL YR 1973 TOTAL 152,761 MEAN 419 MAX 3,660 MIN 83 CFSM 1.90 IN 25.83
WTR YR 1974 TOTAL 144,536 MEAN 396 MAX 2,190 MIN 76 CFSM 1.80 IN 24.44

PEAK DISCHARGE (BASE 3,000 CFS).--No peak above base.

01559000 Juniata River at Huntingdon, Pa.

LOCATION.--Lat 40°29'05", long 78°01'09", Huntingdon County, on right bank 170 ft (52 m) downstream from Smithfield Bridge at Huntingdon, and 0.8 mi (1.3 km) upstream from Standing Stone Creek.

DRAINAGE AREA.--816 m^2 (2,113 km^2).

PERIOD OF RECORD.--September 1941 to current year. Gage-height records collected in this vicinity for the period May 1895 to December 1938 are contained in reports of U.S. Weather Bureau. Prior to October 1950 published as Frankstown Branch Juniata River at Huntingdon.

GAGE.--Water-stage recorder. Datum of gage is 599.69 ft (182.786 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 1,061 ft^3/s (30.05 m^3/s), 17.66 in/yr (449 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,820 ft^3/s (221 m^3/s) Jan. 21 (gage height, 7.05 ft or 2.149 m); minimum, 276 ft^3/s (7.82 m^3/s) Aug. 26 (gage height, 1.28 ft or 0.390 m).
Period of record: Maximum discharge, 57,000 ft^3/s (1,610 m^3/s) June 23, 1972 (gage height, 20.03 ft or 6.105 m), from rating curve extended above 20,000 ft^3/s (566 m^3/s); minimum observed, 14 ft^3/s (0.40 m^3/s) Feb. 8, 1948, Aug. 2, 1954; minimum gage height observed, 0.27 ft (0.082 m) Feb. 8, 1948.
Flood of Mar. 18, 1936, reached a stage of 21.87 ft (6.666 m), from floodmark, discharge, 68,000 ft^3/s (1,930 m^3/s) by computation of flow over dam and runoff comparison with downstream stations.

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

REVISIONS (WATER YEARS).--WRD Penna 1973: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	735	1,510	1,360	2,250	1,940	981	3,830	953	1,030	2,600	411	413
2	712	1,390	1,200	1,890	1,770	1,060	4,530	904	910	1,600	380	1,180
3	890	1,130	1,060	1,690	1,670	1,230	4,570	972	762	1,300	375	922
4	690	978	1,000	1,690	1,500	1,180	5,270	1,030	705	1,100	389	1,300
5	608	874	1,200	1,500	1,290	1,210	4,300	896	667	1,600	401	691
6	564	802	2,480	1,300	1,150	1,210	3,380	874	632	1,370	367	532
7	496	742	1,570	1,200	1,100	1,170	2,750	891	606	972	347	488
8	476	690	1,320	1,100	1,050	1,170	2,330	849	580	823	343	457
9	456	652	1,900	1,100	980	2,100	2,550	836	569	746	354	420
10	444	630	3,370	1,200	860	4,060	2,360	895	560	693	379	400
11	426	592	2,270	1,960	880	3,130	2,060	829	587	694	365	387
12	408	564	1,810	2,100	860	2,500	1,890	1,640	535	623	340	377
13	402	550	1,620	1,500	948	2,050	1,930	4,450	498	576	339	387
14	384	536	1,600	1,300	943	1,780	2,190	2,720	480	545	332	470
15	379	529	1,470	1,400	874	1,530	1,970	2,080	516	539	313	445
16	362	660	1,260	2,420	811	1,440	1,790	1,700	1,630	521	299	377
17	368	675	1,100	3,470	795	1,390	1,630	1,450	997	485	298	352
18	362	578	960	2,720	751	1,220	1,500	1,370	743	464	298	341
19	357	557	1,050	2,640	764	1,160	1,410	1,220	651	466	296	332
20	357	550	1,060	2,820	802	1,110	1,310	1,080	742	459	292	329
21	346	536	3,370	4,920	830	1,290	1,210	983	665	440	285	351
22	340	564	2,510	6,180	1,130	1,700	1,170	929	612	420	285	507
23	340	564	2,030	4,590	1,670	1,280	1,360	1,020	685	414	292	402
24	340	578	1,790	3,680	1,220	1,220	1,230	1,030	1,010	454	310	353
25	335	997	1,550	3,050	1,170	1,130	1,110	872	850	446	286	337
26	330	2,220	2,070	2,580	1,020	1,080	1,040	802	2,000	410	283	336
27	325	1,510	4,540	2,460	946	1,060	996	760	1,600	403	304	332
28	330	1,860	4,640	2,310	941	1,020	966	723	1,300	397	306	335
29	1,360	1,920	3,650	2,750	------	999	939	705	1,400	415	357	347
30	4,050	1,560	3,070	2,350	------	1,430	925	756	1,100	843	411	361
31	1,830	------	2,500	2,140	------	4,130	------	790	------	528	537	------
TOTAL	19,802	27,498	62,380	74,260	30,665	49,020	64,496	37,009	25,622	23,346	10,574	14,261
MEAN	639	917	2,012	2,395	1,095	1,581	2,150	1,194	854	753	341	475
MAX	4,050	2,220	4,640	6,180	1,940	4,130	5,270	4,450	2,000	2,600	537	1,300
MIN	325	529	960	1,100	751	981	925	705	480	397	283	329
CFSM	.78	1.12	2.47	2.94	1.34	1.94	2.63	1.46	1.05	.92	.42	.58
IN.	.90	1.25	2.84	3.39	1.40	2.23	2.94	1.69	1.17	1.06	.48	.65

CAL YR 1973 TOTAL 468,541 MEAN 1,284 MAX 8,030 MIN 295 CFSM 1.57 IN 21.36
WTR YR 1974 TOTAL 438,933 MEAN 1,203 MAX 6,180 MIN 283 CFSM 1.47 IN 20.01

PEAK DISCHARGE (BASE, 5,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-21	2230	7.05	7,820	5-13	0430	5.89	5,610
4- 4	0915	6.01	5,830				

01559700 Buffalo Run tributary near Manns Choice, Pa.

LOCATION.--Lat 39°58'40", long 78°37'08", Bedford County, at left downstream end of bridge on State Highway 96, 2,000 ft (610 m) upstream from mouth, 2.3 mi (3.7 km) south of Manns Choice, and 11 mi (18 km) southwest of Bedford.

DRAINAGE AREA.--5.28 mi^2 (13.68 km^2).

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 1,230 ft (375 m), from topographic map.

AVERAGE DISCHARGE.--13 years, 5.18 ft^3/s (0.147 m^3/s), 13.32 in/yr (338 mm/yr).

EXTREMES.--Current year: Maximum discharge, 282 ft^3/s (7.99 m^3/s) Oct. 29 (gage height, 2.82 ft or 0.860 m) from rating curve extended as explained below; minimum, 0.23 ft^3/s (0.007 m^3/s) Sept. 16, 17, 18, 19, 20, 21, 27; minimum gage height, 0.63 ft (0.192 m) Oct. 15.
Period of record: Maximum discharge, 1,010 ft^3/s (28.6 m^3/s) Sept. 28, 1967 (gage height, 4.26 ft or 1.298 m), from rating curve extended above 150 ft^3/s (4.25 m^3/s); no flow Aug. 4-11, 1966.

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

REVISIONS (WATER YEARS).--WRD Penna. 1970: 1968-69(P). WRD Penna. 1972: 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	6.1	5.3	10	5.5	4.4	6.1	2.8	5.1	17	.78	.44
2	.98	5.3	4.9	8.0	5.7	4.2	6.3	2.8	7.0	5.7	.78	.44
3	.67	4.9	4.9	7.2	5.5	4.7	6.1	3.0	5.3	4.6	.78	.78
4	.52	4.6	4.7	7.6	5.3	5.1	6.9	2.7	4.9	3.7	.78	.44
5	.44	4.7	6.5	6.8	6.1	5.6	5.9	2.6	4.9	3.2	.72	.33
6	.40	4.6	5.9	6.4	4.4	5.3	5.5	2.6	4.6	2.6	.72	.36
7	.36	4.2	5.1	6.0	4.2	4.9	5.1	2.4	4.2	2.1	.72	.61
8	.36	4.0	4.9	5.7	4.2	5.4	6.5	2.4	4.0	1.9	.84	.33
9	.36	3.9	16	5.5	4.1	6.4	8.6	2.4	3.7	1.7	.72	.28
10	.36	3.7	11	14	4.0	12	6.9	2.4	3.5	1.6	.72	.28
11	.36	3.7	8.4	23	3.8	8.6	6.5	2.3	3.4	1.5	.67	.28
12	.36	3.5	7.0	14	3.7	7.4	6.3	11	3.4	1.4	.61	.28
13	.36	3.5	6.5	12	3.6	6.0	8.2	6.5	3.0	1.4	.61	.28
14	.33	3.5	7.0	11	3.6	5.4	7.2	6.3	2.9	1.3	.52	.33
15	.33	3.5	6.1	13	3.5	4.8	6.7	6.3	5.7	1.3	.48	.28
16	.33	4.0	5.5	14	3.4	4.5	6.3	6.1	5.1	1.2	.48	.25
17	.33	3.7	5.2	12	3.3	4.1	5.9	5.5	3.7	1.2	.48	.25
18	.33	3.5	5.5	11	3.2	3.8	5.3	5.9	3.2	1.2	.48	.23
19	.33	3.5	6.0	15	3.2	3.4	4.9	5.5	3.0	1.2	.44	.23
20	.33	3.4	7.5	13	3.8	3.2	4.6	4.9	3.0	1.1	.44	.23
21	.33	3.4	10	39	4.2	5.4	4.2	4.4	3.0	1.1	.44	.25
22	.33	3.5	9.2	25	6.1	4.6	4.0	4.2	3.0	1.1	.48	.28
23	.33	3.4	8.2	18	5.3	3.9	4.4	4.9	29	1.3	.48	.28
24	.33	4.0	7.6	12	4.9	3.3	3.9	4.2	22	1.3	.48	.25
25	.33	4.4	7.6	9.4	4.9	3.1	3.7	3.9	15	1.1	.44	.25
26	.33	4.6	36	7.9	4.3	3.1	3.4	3.7	10	1.4	.44	.25
27	.33	5.1	37	6.9	4.0	3.0	3.4	3.7	7.7	1.3	.40	.25
28	.40	12	27	7.6	3.8	3.0	3.2	3.5	6.7	.98	.44	.30
29	47	6.7	19	6.5	------	3.2	2.9	4.0	5.9	.91	.44	.30
30	7.9	5.7	14	5.9	------	7.4	2.9	3.9	4.6	.98	.57	.28
31	5.7	------	12	5.7	------	6.1	------	4.7	------	.84	.48	------
TOTAL	71.51	134.6	321.5	359.1	121.6	155.3	161.8	131.5	190.5	69.21	17.86	9.62
MEAN	2.31	4.49	10.4	11.6	4.34	5.01	5.39	4.24	6.35	2.23	.58	.32
MAX	47	12	37	39	6.1	12	8.6	11	29	17	.84	.78
MIN	.33	3.4	4.7	5.5	3.2	3.0	2.9	2.3	2.9	.84	.40	.23
CFSM	.44	.85	1.97	2.20	.82	.95	1.02	.80	1.20	.42	.11	.06
IN.	.50	.95	2.27	2.53	.86	1.09	1.14	.93	1.34	.49	.13	.07

CAL YR 1973 TOTAL 2,199.18 MEAN 6.03 MAX 47 MIN .23 CFSM 1.14 IN 15.49
WTR YR 1974 TOTAL 1,744.10 MEAN 4.78 MAX 47 MIN .23 CFSM .91 IN 12.29

PEAK DISCHARGE (BASE, 75 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	0900	2.82	282	6-24	1500	2.06	81
12-26	Unk.	2.03	84	7- 1	0230	2.22	90
1-21	Unk.	1.98	76				

NOTE.--No gage-height record Feb. 27 to Mar. 26.

01560000 Dunning Creek at Belden, Pa.

LOCATION.--Lat 40°04'18", long 78°29'34", Bedford County, on left bank 10 ft (3 m) upstream from highway bridge, 0.8 mi (1.3 km) southeast of Belden, 3.8 mi (6.1 km) north of Bedford, and 4.3 mi (6.9 km) above mouth.

DRAINAGE AREA.--172 mi^2 (445 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,051.16 ft (320.394 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 220 ft^3/s (6.23 m^3/s), 17.37 in/yr (441 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,360 ft^3/s (95.2 m^3/s) Oct. 29 (gage height, 8.63 ft or 2.630 m); minimum, 15 ft^3/s (0.42 m^3/s) Aug. 27 (gage height, 1.19 ft or 0.363 m).

Period of record: Maximum discharge, 12,000 ft^3/s (340 m^3/s) June 23, 1972 (gage height, 12.67 ft or 3.862 m), from rating curve extended above 4,000 ft^3/s (113 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 2.6 ft^3/s (0.074 m^3/s) Sept. 6, 1964; minimum gage height, 0.92 ft (0.280 m) Jan. 8, 1954 (result of freezeup).

Maximum stage known, 17.8 ft (5.43 m) Mar. 18, 1936, from floodmarks (backwater from Raystown Branch Juniata River), discharge, about 16,900 ft^3/s (479 m^3/s).

REMARKS.--Records good except those for period of no gage-height record, which are fair.

REVISIONS (WATER YEARS).--WSP 971: 1940(M). WSP 1502: 1940-41. WRD Penna 1972: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	637	418	470	325	206	511	132	779	500	26	35
2	305	466	313	354	297	199	568	115	435	1,300	23	64
3	250	379	254	330	269	227	550	132	309	450	24	82
4	172	285	217	418	224	239	624	124	231	250	30	79
5	141	235	426	293	192	265	511	107	182	180	29	42
6	110	188	734	261	156	258	435	104	140	150	24	36
7	92	150	520	239	140	246	363	107	120	120	22	84
8	82	129	401	182	130	269	313	99	100	100	27	51
9	77	112	972	179	121	502	488	99	90	90	36	36
10	72	102	1,080	475	115	1,190	358	110	90	78	72	32
11	64	89	730	1,220	110	880	321	92	100	72	48	30
12	59	82	511	1,130	99	633	301	431	80	64	35	29
13	53	75	422	717	94	444	667	1,010	58	55	32	36
14	51	70	401	506	92	334	675	620	50	48	29	53
15	48	68	313	568	86	269	650	392	52	44	23	44
16	53	121	220	791	79	242	488	269	130	42	20	33
17	53	97	170	904	74	217	384	199	160	36	22	29
18	46	84	180	783	70	175	313	182	110	33	23	27
19	42	89	192	787	68	172	265	144	80	32	22	26
20	40	89	246	717	94	153	224	112	62	29	20	24
21	38	87	787	1,590	102	246	192	92	50	26	19	27
22	36	89	568	1,500	231	254	175	79	45	22	19	35
23	35	82	475	1,040	285	213	293	112	45	23	22	29
24	35	102	396	750	246	217	206	94	1,000	36	20	23
25	33	334	334	568	258	188	182	75	530	32	19	22
26	32	550	667	444	206	179	172	68	350	27	17	22
27	32	488	1,430	435	188	162	162	61	220	36	17	20
28	33	1,050	1,280	401	175	147	156	55	170	30	24	22
29	1,610	828	920	502	------	141	144	61	170	59	27	27
30	1,680	581	704	396	------	384	135	92	220	64	33	27
31	746	------	533	371	------	700	------	92	------	38	44	------
TOTAL	6,249	7,738	16,814	19,321	4,526	9,951	10,826	5,461	6,158	4,066	848	1,126
MEAN	202	258	542	623	162	321	361	176	205	131	27.4	37.5
MAX	1,680	1,050	1,430	1,590	325	1,190	675	1,010	1,000	1,300	72	84
MIN	32	68	170	179	68	141	135	55	45	22	17	20
CFSM	1.17	1.50	3.15	3.62	.94	1.87	2.10	1.02	1.19	.76	.16	.22
IN.	1.35	1.67	3.64	4.18	.98	2.15	2.34	1.18	1.33	.88	.18	.24

CAL YR 1973 TOTAL 97,284 MEAN 267 MAX 1,940 MIN 12 CFSM 1.55 IN 21.04
WTR YR 1974 TOTAL 93,084 MEAN 255 MAX 1,680 MIN 17 CFSM 1.48 IN 20.13

PEAK DISCHARGE (BASE, 2,300 CFS).--Oct. 29 (2130) 3,360 cfs (8.63 ft); Jan. 21 (1700) 2,490 cfs (7.41 ft).

NOTE.--No gage-height record June 6 to July 10.

01562000 Raystown Branch Juniata River at Saxton, Pa.

LOCATION.--Lat 40°12'57", long 78°15'56", Bedford County, on left bank, 500 ft (152 m) downstream from bridge on State Highway 913, 0.5 mi (0.8 km) west of Saxton, and 1.5 mi (2.4 km) upstream from Shoup Run.

DRAINAGE AREA.--756 mi^2 (1,958 km^2).

PERIOD OF RECORD.--September 1911 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 795.77 ft (242.551 m) above mean sea level. Prior to Oct. 1, 1931, nonrecording gage at site 0.8 mi (1.3 km) downstream at datum 4.82 ft (1.469 m) lower.

AVERAGE DISCHARGE.--63 years, 895 ft^3/s (25.3 m^3/s), 16.08 in/yr (408 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,800 ft^3/s (334 m^3/s) Oct. 30 (gage height, 10.08 ft or 3.072 m); minimum, 118 ft^3/s (3.34 m^3/s) Sept. 27 (gage height, 1.21 ft or 0.369 m).

Period of record: Maximum discharge, 80,500 ft^3/s (2,280 m^3/s) Mar. 18, 1936 (gage height, 24.54 ft or 7.480 m, from floodmark in gage shelter), from rating curve extended above 17,000 ft^3/s (481 m^3/s) on basis of slope-area measurement of peak flow; minimum, 39 ft^3/s (1.10 m^3/s) Sept. 6, 7, 12, 1966 (gage height, 0.84 ft or 0.256 m).

Maximum stage known prior to 1911, 23.0 ft (7.01 m) at present site, June 1, 1889, from floodmarks, discharge about 71,300 ft^3/s (2,020 m^3/s).

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

REVISIONS (WATER YEARS).--WSP 1302: 1912-13(M), 1914-15. WSP 1502: 1934, 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	718	2,110	1,260	2,170	1,350	782	2,670	565	748	1,470	240	168
2	599	1,720	998	1,760	1,240	832	2,260	541	1,540	2,530	209	196
3	975	1,300	824	1,490	1,210	847	1,940	543	1,260	1,440	194	225
4	826	1,070	737	1,720	1,110	877	2,200	563	922	1,020	191	279
5	638	900	799	1,680	962	871	1,810	538	749	806	189	268
6	526	820	1,800	1,200	815	889	1,590	488	634	761	188	228
7	462	716	1,640	1,000	780	874	1,460	479	548	662	182	226
8	417	623	1,340	900	700	907	1,580	463	489	560	178	222
9	389	569	1,550	800	660	1,300	1,950	443	445	468	183	253
10	367	526	4,010	1,090	620	2,090	1,640	452	421	415	193	206
11	349	484	2,900	2,670	600	2,530	1,380	447	512	378	200	183
12	327	450	2,110	4,490	620	2,110	1,600	573	398	346	246	175
13	309	429	1,700	3,220	631	1,770	2,480	2,010	353	319	197	172
14	262	412	1,560	2,360	634	1,440	2,210	2,160	321	290	176	172
15	213	407	1,430	2,030	627	1,210	1,880	1,550	332	272	166	161
16	204	426	1,000	2,330	557	1,100	1,660	1,200	573	257	162	168
17	194	417	860	2,780	518	1,020	1,450	990	679	244	195	161
18	191	403	840	2,830	496	906	1,200	869	523	234	204	150
19	192	363	1,100	2,540	484	814	1,060	817	400	228	158	140
20	186	355	1,900	2,600	529	810	936	742	342	216	149	137
21	182	347	3,690	3,970	538	801	858	644	318	205	145	143
22	179	335	5,370	6,930	600	1,020	991	562	309	195	145	147
23	175	330	2,780	4,550	936	941	1,130	551	614	189	150	137
24	172	332	1,890	3,330	985	845	864	598	2,240	195	149	140
25	170	359	1,580	2,570	910	820	733	548	1,700	192	146	137
26	169	567	1,850	2,030	884	758	687	470	1,210	208	153	131
27	167	827	6,330	1,820	764	742	652	432	972	211	148	127
28	165	1,110	6,320	1,830	759	707	625	402	742	252	151	127
29	2,870	2,330	4,470	1,850	------	676	618	383	713	369	142	134
30	8,160	1,660	3,310	1,700	------	786	596	399	828	261	147	137
31	3,250	------	2,600	1,440	------	2,400	------	465	------	246	164	------
TOTAL	24,003	22,697	70,548	73,680	21,519	34,475	42,810	21,887	21,835	15,439	5,440	5,250
MEAN	774	757	2,276	2,377	769	1,112	1,427	706	728	498	175	175
MAX	8,160	2,330	6,330	6,930	1,350	2,530	2,670	2,160	2,240	2,530	246	279
MIN	165	330	737	800	484	676	596	383	309	189	142	127
CFSM	1.02	1.00	3.01	3.14	1.02	1.47	1.89	.93	.96	.66	.23	.23
IN.	1.18	1.12	3.47	3.63	1.06	1.70	2.11	1.08	1.07	.76	.27	.26

CAL YR 1973 TOTAL 414,781 MEAN 1,136 MAX 8,160 MIN 131 CFSM 1.50 IN 20.41
WTR YR 1974 TOTAL 359,583 MEAN 985 MAX 8,160 MIN 127 CFSM 1.30 IN 17.69

PEAK DISCHARGE (BASE, 7,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	0215	10.08	11,800	1-22	0245	8.21	8,340
12-27	1230	7.91	7,830				

01563200 Raystown Branch Juniata River below Raystown Dam near Huntingdon, Pa.

LOCATION.--Lat 40°25'44", long 77°59'29", Huntingdon County, on left bank 1 mi (1.6 km) downstream from Raystown Dam, 4 mi (6.4 km) south of Huntingdon, and 4.7 mi (7.6 km) upstream from mouth.

DRAINAGE AREA.--960 mi^2 (2,490 km^2). Area at site used prior to Oct. 1, 1969, 957 mi^2 (2,480 km^2).

PERIOD OF RECORD.--January 1946 to current year. Published as "near Huntingdon" prior to Oct. 1, 1969.

GAGE.--Water-stage recorder. Datum of gage is 597.36 ft (182.075 m) above mean sea level (Corps of Engineers benchmark). Prior to Oct. 1, 1969, water-stage recorder at site 4.3 mi (6.9 km) upstream at datum 22.72 ft (6.925 m) higher.

AVERAGE DISCHARGE.--28 years, 1,101 ft^3/s (31.2 m^3/s), 15.57 in/yr (395 mm/yr), adjusted for storage since October 1972.

EXTREMES.--Current year: Maximum discharge, 7,200 ft^3/s (204 m^3/s) Dec. 28 (gage height, 10.20 ft or 3.109 m); minimum, 30 ft^3/s (0.85 m^3/s) Oct. 22 (gage height, 2.47 ft or 0.753 m); minimum daily, 70 ft^3/s (1.98 m^3/s) Mar. 16-18.

Period of record: Maximum discharge, 24,500 ft^3/s (694 m^3/s) Nov. 25, 1950 (gage height, 16.74 ft or 5.102 m, site and datum then in use), from rating curve extended above 16,000 ft^3/s (453 m^3/s) on basis of computation of flow over dam at gage height, 31.0 ft (9.45 m); minimum, 1.2 ft^3/s (0.034 m^3/s) June 30, July 20, 1973 (gage height, 2.14 ft or 0.652 m) result of upstream shutoff; minimum daily, 5.0 ft^3/s (0.142 m^3/s) October 30, 1957, May 18, 1973.

Flood of Mar. 18, 1936, reached a stage of 31.0 ft or 9.45 m (discharge, 87,000 ft^3/s (2,460 m^3/s, at site and datum then in use) by computation of flow over dam.

REMARKS.--Records good. Flow regulated by Raystown Lake 1 mi (1.6 km) upstream (see p. 190).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	6,270	987	2,920	1,670	815	84	113	116	135	141	141
2	193	6,200	1,000	2,510	1,670	120	84	95	118	134	141	141
3	190	6,100	1,100	1,730	1,620	121	81	93	118	136	141	142
4	184	6,000	920	1,730	1,430	124	81	93	119	136	144	142
5	178	5,800	1,050	1,730	1,250	129	81	93	120	139	144	142
6	196	5,900	2,380	1,730	935	129	81	93	126	139	123	142
7	199	5,800	2,120	1,730	838	131	81	93	125	139	113	142
8	172	5,800	1,670	1,550	838	132	81	96	124	139	113	143
9	190	5,700	2,270	1,250	838	136	81	99	124	139	113	142
10	184	5,800	4,100	1,250	838	140	87	100	124	139	128	141
11	196	5,800	4,220	2,300	838	681	129	102	124	141	141	143
12	199	6,000	2,790	3,890	838	2,540	101	108	124	141	141	145
13	199	6,000	1,960	4,880	838	2,090	519	109	123	141	141	147
14	202	5,900	1,960	3,550	838	1,860	2,400	110	123	141	141	148
15	252	5,800	1,960	2,780	838	848	3,440	113	125	141	141	147
16	307	4,400	1,650	2,490	838	70	2,000	114	124	141	141	145
17	307	3,100	1,300	2,330	702	70	123	114	124	141	141	144
18	303	2,600	1,190	3,570	607	70	109	115	124	141	141	143
19	303	2,400	869	3,880	607	71	111	116	124	141	141	181
20	315	576	940	3,100	607	72	112	114	124	141	141	194
21	350	358	2,470	3,610	607	74	112	112	124	141	141	179
22	228	311	3,000	6,660	608	72	119	114	124	141	141	178
23	443	421	3,370	7,150	608	72	114	114	125	141	141	187
24	1,210	527	3,880	7,100	864	72	117	114	125	141	141	177
25	2,580	1,140	2,580	4,580	1,080	72	122	114	131	141	141	176
26	5,150	1,500	2,100	2,470	1,080	72	126	115	129	141	141	165
27	6,230	2,860	4,600	1,970	1,080	73	128	116	129	141	141	155
28	6,200	1,700	7,150	2,280	1,080	74	131	116	125	141	141	155
29	5,980	1,450	7,170	2,440	------	74	133	116	131	144	141	156
30	5,910	1,140	6,970	2,250	------	82	135	116	132	141	141	155
31	6,170	------	4,190	1,840	------	87	------	117	------	141	141	------
TOTAL	44,892	113,353	83,916	93,250	26,485	11,173	11,103	3,347	3,728	4,339	4,262	4,638
MEAN	1,448	3,778	2,707	3,008	946	360	370	108	124	140	137	155
MAX	6,230	6,270	7,170	7,150	1,670	2,540	3,440	117	132	144	144	194
MIN	172	311	869	1,250	607	70	81	93	116	134	113	141
MEAN≠	1,026	1,275	2,727	3,008	950	1,337	1,893	831	868	563	161	188
CFSM≠	1.07	1.33	2.84	3.13	.99	1.39	1.97	.87	.90	.59	.17	.20
IN.≠	1.23	1.48	3.27	3.61	1.03	1.60	2.20	1.00	1.00	.68	.20	.22

CAL YR 1973 TOTAL 480,364.4 MEAN 1,316 MAX 8,480 MIN 5.0 MEAN≠ 1,428 CFSM≠ 1.49 IN.≠ 20.18
WTR YR 1974 TOTAL 404,486.0 MEAN 1,108 MAX 7,170 MIN 70 MEAN≠ 1,240 CFSM≠ 1.29 IN.≠ 17.52

≠ Adjusted for change in contents in Raystown Lake.

01563500 Juniata River at Mapleton Depot, Pa.

LOCATION.--Lat 40°23'32", long 77°56'07", Huntingdon County, on right bank 0.25 mi (0.40 km) downstream from Scrub Run, and 0.3 mi (0.5 km) downstream from bridge on State Highway 655 at Mapleton Depot.

DRAINAGE AREA.--2,030 m^2 (5,258 km^2).

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 557.31 ft (169.868 m) above mean sea level.

AVERAGE DISCHARGE.--37 years, 2,416 ft^3/s (68.4 m^3/s), 16.16 in/yr (410 mm/yr), adjusted for storage since October 1972.

EXTREMES.--Current year: Maximum discharge, 15,800 ft^3/s (447 m^3/s) Jan. 22 (gage height, 11.57 ft or 3.527 m); minimum, 419 ft^3/s (11.9 m^3/s) Oct. 22, 23 (gage height, 2.17 ft or 0.661 m).
Period of record: Maximum discharge, 125,000 ft^3/s (3,540 m^3/s) June 23, 1972 (gage height, 33.07 ft or 10.080 m), from rating curve extended above 39,000 ft^3/s (1,100 m^3/s); minimum, 68 ft^3/s (1.93 m^3/s) Sept. 13, 1964; minimum daily, 101 ft^3/s (2.86 m^3/s) Aug. 21, 1966.
Maximum stage known, 38.2 ft (11.64 m) Mar. 18, 1936, from floodmark, discharge, 165,000 ft^3/s (4,670 m^3/s), from rating curve extended above 39,000 ft^3/s (1,100 m^3/s) on basis of runoff comparison with upstream and downstream stations.

REMARKS.--Records good. Flow regulated since October 1972 by Raystown Lake 12 mi (19 km) upstream (see p.190). Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Penna. 1973: 1936(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,030	8,180	3,000	5,430	3,910	2,080	5,470	1,170	1,230	2,260	632	626
2	986	7,930	2,660	4,790	3,720	1,360	6,040	1,100	1,200	2,070	587	1,360
3	1,220	7,450	2,290	3,680	3,590	1,590	5,820	1,140	969	1,540	578	1,000
4	979	7,110	2,010	3,690	3,190	1,520	6,420	1,260	902	1,310	587	1,660
5	846	6,960	2,400	3,460	2,850	1,540	5,550	1,090	858	1,420	603	939
6	816	6,880	5,510	3,310	2,380	1,550	4,280	1,050	854	1,640	564	743
7	748	6,750	4,210	3,220	2,230	1,480	3,500	1,070	795	1,240	517	692
8	703	6,640	3,270	2,940	2,150	1,460	2,990	1,030	765	1,050	508	658
9	689	6,620	4,310	2,540	2,010	2,410	3,170	1,020	755	962	509	618
10	676	6,650	8,120	2,660	1,880	4,820	3,060	1,080	740	906	575	592
11	664	6,540	7,130	4,100	1,930	4,060	2,670	1,030	790	898	570	579
12	649	6,540	5,070	5,880	1,880	5,280	2,450	1,780	748	836	538	572
13	638	6,730	3,820	6,310	1,920	4,450	2,570	5,710	685	779	530	581
14	625	6,640	3,840	5,050	1,920	3,840	4,760	3,490	664	744	524	641
15	626	5,880	3,660	4,250	1,840	2,960	5,490	2,680	709	733	499	654
16	699	4,320	3,260	4,990	1,730	1,770	4,530	2,200	2,230	723	481	572
17	701	3,440	2,700	6,220	1,630	1,720	2,140	1,870	1,480	682	477	537
18	694	3,300	2,420	6,370	1,440	1,500	1,930	1,730	1,070	656	480	523
19	692	2,620	2,220	6,720	1,460	1,410	1,820	1,580	913	654	475	525
20	685	1,410	2,060	6,140	1,510	1,350	1,710	1,370	966	651	470	573
21	732	1,290	6,800	8,920	1,550	1,580	1,570	1,240	916	616	460	574
22	642	1,240	6,350	14,500	1,860	2,320	1,510	1,180	847	599	460	719
23	638	1,200	5,620	12,600	2,870	1,710	1,710	1,260	922	598	465	673
24	1,430	1,150	5,860	11,200	2,320	1,580	1,610	1,320	1,310	640	499	583
25	2,520	1,710	4,650	8,330	2,480	1,430	1,420	1,100	1,370	657	469	557
26	5,260	3,450	4,480	5,500	2,280	1,350	1,330	1,010	2,860	612	456	552
27	7,020	2,940	10,000	4,730	2,160	1,310	1,260	967	2,110	604	480	527
28	6,860	3,630	13,200	4,790	2,180	1,250	1,220	925	1,610	600	483	536
29	8,030	4,560	11,500	5,490	------	1,220	1,190	900	1,540	626	534	555
30	11,300	4,340	10,600	4,960	------	2,030	1,160	943	1,410	1,110	593	562
31	8,530	------	7,240	4,310	------	6,470	------	1,000	------	821	759	------
TOTAL	68,328	144,100	160,260	177,080	62,870	70,400	90,350	46,295	34,218	29,237	16,362	20,483
MEAN	2,204	4,803	5,170	5,712	2,245	2,271	3,012	1,493	1,141	943	528	683
MAX	11,300	8,180	13,200	14,500	3,910	6,470	6,420	5,710	2,860	2,260	759	1,660
MIN	625	1,150	2,010	2,540	1,440	1,220	1,160	900	664	598	456	523
MEAN≠	1,782	2,300	5,190	5,712	2,250	3,248	4,535	2,216	1,885	1,366	552	716
CFSM≠	.88	1.13	2.56	2.81	1.11	1.60	2.23	1.09	.93	.67	.27	.35
IN.≠	1.02	1.26	2.95	3.24	1.16	1.84	2.49	1.26	1.04	.77	.31	.39

CAL YR 1973	TOTAL 1,051,488	MEAN 2,881	MAX 18,700	MIN 441	MEAN≠ 2,993	CFSM≠ 1.47	IN.≠ 20.01
WTR YR 1974	TOTAL 919,983	MEAN 2,521	MAX 14,500	MIN 456	MEAN≠ 2,653	CFSM≠ 1.31	IN.≠ 17.73

≠ Adjusted for change in contents in Raystown Lake.

01564500 Aughwick Creek near Three Springs, Pa.

LOCATION.--Lat 40°12'45", long 77°55'32", Huntingdon County, on right bank 10 ft (3 m) downstream from bridge on State Highway 994, 300 ft (91 m) upstream from East Broad Top Railroad Bridge, 350 ft (107 m) upstream from Three Springs Creek, and 3.5 mi (5.1 km) northeast of village of Three Springs. Records include flow of Three Springs Creek.

DRAINAGE AREA.--205 mi^2 (531 km^2), includes that at Three Springs Creek.

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

GAGE.--Water-stage recorder. Datum of gage is 618.65 ft (188.565 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--36 years, 244 ft^3/s (6.91 m^3/s), 16.16 in/yr (410 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,940 ft^3/s (253 m^3/s) Oct. 29 (gage height, 12.88 ft or 3.926 m); minimum, 12 ft^3/s (0.34 m^3/s) Sept. 27, 28; minimum gage height, 2.50 ft (0.762 m) Sept. 27.

Period of record: Maximum discharge, 23,700 ft^3/s (671 m^3/s) June 22, 1972 (gage height, 19.20 ft or 5.852 m), from rating curve extended above 2,900 ft^3/s (82.1 m^3/s) on basis of contracted-opening measurement at gage height, 18.04 ft (5.499 m); minimum, 0.8 ft^3/s (0.023 m^3/s) Sept. 2, 3, 4, 11, 12, 13, 1966 (gage height, 1.74 ft or 0.530 m).

Maximum stage known, about 19.3 ft (5.88 m) June 1, 1889, discharge not determined; previously published figure is believed to be in error and should not be used.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	331	786	173	586	278	189	1,860	149	310	554	46	30
2	500	519	147	454	261	187	1,100	136	224	402	35	31
3	664	390	134	402	256	191	766	140	203	267	38	39
4	400	309	133	488	228	187	794	147	155	198	54	51
5	272	269	184	402	198	187	744	125	128	236	49	50
6	180	255	414	330	190	178	599	120	110	1,270	39	33
7	134	207	303	290	180	176	484	122	97	304	32	33
8	112	180	250	240	180	187	417	111	90	198	31	55
9	96	161	801	220	170	289	574	111	86	147	30	39
10	86	142	1,420	338	160	578	519	125	81	120	31	31
11	77	124	719	499	160	526	428	110	89	102	32	29
12	68	115	481	695	150	431	385	275	79	86	30	28
13	63	110	386	519	150	348	683	1,070	64	72	29	29
14	59	107	417	472	145	286	794	476	59	64	27	29
15	54	104	347	406	130	246	674	351	73	59	24	29
16	51	114	283	546	118	233	511	281	454	53	20	23
17	49	104	200	867	118	241	410	236	298	48	32	17
18	45	89	220	713	111	200	348	214	191	44	52	15
19	43	85	266	603	122	184	304	209	125	43	40	14
20	41	82	321	530	127	176	264	205	103	44	31	13
21	41	77	2,260	1,460	125	228	231	161	91	37	28	14
22	40	75	1,340	1,870	155	374	219	153	82	33	24	20
23	39	74	818	1,070	275	278	325	214	368	32	23	19
24	38	73	611	730	200	259	264	196	785	33	21	17
25	37	89	476	582	196	226	214	159	469	36	20	15
26	37	95	757	454	163	205	196	134	522	34	17	13
27	35	91	2,640	431	157	196	182	120	402	34	16	12
28	35	165	2,300	378	180	182	171	108	289	35	22	12
29	3,460	266	1,390	417	------	173	165	102	286	123	20	17
30	4,740	200	929	335	------	578	157	110	224	110	27	17
31	1,240	------	674	304	------	3,270	------	110	------	69	28	------
TOTAL	13,067	5,457	21,794	17,631	4,883	11,189	14,782	6,280	6,537	4,887	948	774
MEAN	422	182	703	569	174	361	493	203	218	158	30.6	25.8
MAX	4,740	786	2,640	1,870	278	3,270	1,860	1,070	785	1,270	54	55
MIN	35	73	133	220	111	173	157	102	59	32	16	12
CFSM	2.06	.89	3.43	2.78	.85	1.76	2.40	.99	1.06	.77	.15	.13
IN.	2.37	.99	3.95	3.20	.89	2.03	2.68	1.14	1.19	.89	.17	.14

CAL YR 1973 TOTAL 121,215.1 MEAN 332 MAX 4,740 MIN 9.4 CFSM 1.62 IN 22.00
WTR YR 1974 TOTAL 108,229.0 MEAN 297 MAX 4,740 MIN 12 CFSM 1.45 IN 19.64

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	2300	12.88	8,940	1-21	2000	8.67	3,040
12-21	0430	8.94	3,270	3-31	0530	9.56	4,030
12-27	0500	8.67	3,040	7- 6	0100	9.41	3,850

01565700 Little Lost Creek at Oakland Mills, Pa.

LOCATION.--Lat 40°36'19", long 77°18'42", Juniata County, on right bank at bridge on Legislative Route 34007, 0.8 mi (1.3 km) south of Oakland Mills, and 1 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--6.52 mi^2 (16.89 km^2).

PERIOD OF RECORD.--Occasional discharge measurements and annual maximum, water years 1960-63. August 1963 to current year. Prior to August 1964, published as "near Oakland Mills".

GAGE.--Water-stage recorder. Datum at gage is 551.17 ft (167.997 m) above mean sea level. June 8, 1960 to Aug. 7, 1963, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--11 years (1963-74), 6.34 ft^3/s (0.180 m^3/s), 13.21 in/yr (336 mm/yr).

EXTREMES.--Current year: Maximum discharge, 154 ft^3/s (4.36 m^3/s) July 10 (gage height, 6.42 ft or 1.957 m); maximum gage height, 6.47 ft (1.972 m) Dec. 20; minimum discharge, 1.0 ft^3/s (0.028 m^3/s) Nov. 23, 24; minimum gage height, 4.39 ft (1.338 m) Aug. 20, 21, 22, 23, 24, 25, 26; Sept. 23, 24, 25, 26, 27, 28.
Period of record: Maximum discharge, 468 ft^3/s (13.3 m^3/s) June 22, 1972 (gage height, 8.41 ft or 2.563 m) from rating curve extended above 250 ft^3/s (7.08 m^3/s); minimum (1963-74), 0.2 ft^3/s (0.006 m^3/s) Nov. 2, 3, 4, 5, 6, 1963, Oct. 4, 1964, Aug. 24, Sept. 2, 1965; minimum gage height, 4.14 ft (1.262 m) July 5, 6, 7, 9, 10, 11, 12, 1969.

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--WSP 1903: 1960(M). WRD Penna. 1970: 1967-69(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	9.9	1.7	14	9.0	4.9	42	4.3	4.9	8.1	2.2	7.7
2	8.1	7.3	1.4	11	9.0	4.9	30	3.8	3.4	3.6	2.7	6.9
3	6.9	6.2	1.3	9.9	8.1	5.2	21	4.3	3.1	2.9	5.2	9.9
4	5.9	5.2	1.2	11	7.3	4.9	31	3.8	2.9	2.5	3.4	6.6
5	5.5	4.6	11	9.0	6.6	4.9	27	3.8	2.9	2.5	2.5	3.8
6	4.6	4.1	8.1	8.6	6.2	4.6	16	3.8	2.9	2.2	2.3	3.4
7	4.3	3.4	3.8	8.1	6.6	4.6	13	3.6	2.7	2.0	2.2	3.4
8	4.1	3.4	2.9	6.9	5.9	4.3	11	3.6	2.9	2.0	2.0	2.7
9	3.8	2.9	34	6.9	5.5	12	15	4.9	2.7	1.8	8.6	2.7
10	3.8	2.7	15	6.9	5.2	16	11	4.3	2.5	20	7.3	2.5
11	3.6	2.3	9.0	7.7	5.2	9.9	9.5	3.4	2.7	13	4.3	2.5
12	3.6	2.3	6.6	7.3	4.9	8.1	9.0	20	2.5	4.3	3.6	2.5
13	3.4	2.2	5.9	6.2	4.9	6.6	9.5	16	2.3	3.6	3.6	5.2
14	3.4	2.2	6.6	5.9	4.9	5.9	9.0	8.6	2.3	3.1	3.1	7.3
15	3.1	2.0	4.9	6.2	4.6	5.5	9.0	6.6	4.1	2.9	2.7	3.1
16	3.1	2.5	4.1	13	4.3	5.5	8.1	5.5	11	2.7	2.7	2.5
17	2.7	1.7	4.1	19	4.3	5.2	7.3	4.9	6.2	2.5	2.9	2.3
18	2.7	1.6	3.8	11	4.1	4.6	6.9	4.6	3.6	2.3	2.7	2.3
19	2.5	1.4	3.4	10	4.3	4.3	6.9	4.3	3.1	2.3	2.5	2.0
20	2.5	1.3	22	9.9	4.3	4.1	6.2	3.8	3.4	2.3	2.5	2.0
21	2.3	1.2	96	43	4.1	9.5	6.6	3.8	2.9	2.2	2.3	2.7
22	2.3	1.2	31	29	12	6.6	6.6	3.8	2.7	2.2	2.5	2.3
23	2.3	1.1	19	21	7.7	5.5	6.6	4.3	4.6	2.2	2.5	2.0
24	2.3	1.6	15	17	5.2	5.2	5.9	3.8	3.6	2.3	2.5	1.8
25	2.3	2.5	12	13	5.2	4.6	5.5	3.4	3.4	2.2	2.5	1.8
26	2.3	2.2	25	12	4.3	4.3	5.5	3.1	3.1	2.0	2.5	1.8
27	2.3	1.7	45	14	4.1	4.1	5.2	3.1	2.7	2.2	2.5	1.8
28	2.3	6.9	36	14	4.3	4.1	4.9	2.9	3.1	2.0	2.7	3.1
29	24	3.8	22	14	------	4.1	4.9	2.9	4.9	3.1	2.7	2.7
30	26	2.3	17	11	------	42	4.6	2.9	3.4	6.2	3.1	2.2
31	9.0	------	15	10	------	86	------	2.9	------	2.3	2.7	------
TOTAL	159.6	93.7	483.8	386.5	162.1	302.0	354.7	154.8	106.5	115.5	97.5	103.5
MEAN	5.15	3.12	15.6	12.5	5.79	9.74	11.8	4.99	3.55	3.73	3.15	3.45
MAX	26	9.9	96	43	12	86	42	20	11	20	8.6	9.9
MIN	2.3	1.1	1.2	5.9	4.1	4.1	4.6	2.9	2.3	1.8	2.0	1.8
CFSM	.79	.48	2.39	1.92	.89	1.49	1.81	.77	.54	.57	.48	.53
IN.	.91	.53	2.76	2.21	.92	1.72	2.02	.88	.61	.66	.56	.59

CAL YR 1973 TOTAL 3,107.0 MEAN 8.51 MAX 96 MIN 1.1 CFSM 1.31 IN 17.73
WTR YR 1974 TOTAL 2,520.2 MEAN 6.90 MAX 96 MIN 1.1 CFSM 1.06 IN 14.38

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	2300	5.97	107	3-30	2215	6.35	143
12-20	2400	6.47	149	7-10	2145	6.42	154
1-21	1400	6.14	118				

01567000 Juniata River at Newport, Pa.

LOCATION.--Lat 40°28'42", long 77°07'46", Perry County, on right bank at downstream side of highway bridge at Newport, 1,000 ft (305 m) upstream from Little Buffalo Creek.

DRAINAGE AREA.--3,354 mi^2 (8,687 km^2).

PERIOD OF RECORD.--March 1899 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder. Datum of gage is 363.93 ft (110.926 m) above mean sea level. Prior to July 16, 1929 nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--75 years, 4,253 ft^3/s (120 m^3/s), 17.22 in/yr (437 mm/yr), adjusted for storage since October 1972.

EXTREMES.--Current year: Maximum discharge, 25,300 ft^3/s (716 m^3/s) Dec. 28 (gage height, 11.33 ft or 3.453 m); minimum, 705 ft^3/s (20.0 m^3/s) Aug. 28 (gage height, 3.25 ft or 0.991 m).

Period of record: Maximum discharge, 190,000 ft^3/s (5,380 m^3/s) Mar. 19, 1936 (gage height, 34.24 ft or 10.436 m, from floodmark in gage shelter), from rating curve extended above 100,000 ft^3/s (2,830 m^3/s); minimum, 195 ft^3/s (5.52 m^3/s) July 27, 1966 (gage height, 2.81 ft or 0.856 m); minimum daily, 207 ft^3/s (5.86 m^3/s) July 27, 1966.

Maximum stage known, 35.9 ft (10.94 m) June 1, 1889, from floodmarks, discharge, 209,000 ft^3/s (5,920 m^3/s), from rating curve extended above 100,000 ft^3/s (2,830 m^3/s).

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by Raystown Lake about 75 mi (120 km) upstream since October 1972 (see p.190). Records of water quality for the current year are published in Part 2 of this report.

REVISONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1902(M). WSP 1302: 1915-17. WSP 1502: 1899-1908, 1914, 1924, 1936. WSP 1722: 1916.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,690	11,700	5,860	12,100	7,430	3,800	20,600	2,760	2,410	3,730	1,980	1,010
2	3,050	10,600	4,480	9,760	6,770	3,850	16,400	2,680	2,650	4,430	1,540	1,760
3	2,870	9,650	4,020	8,400	6,410	3,370	14,700	2,700	2,800	4,360	1,880	1,790
4	3,260	8,850	3,590	7,180	6,070	3,300	13,800	2,680	2,250	3,290	1,900	2,190
5	2,850	8,340	3,610	6,990	5,380	3,300	14,100	2,760	2,000	2,800	1,490	2,040
6	2,280	8,050	7,130	6,370	4,840	3,260	11,600	2,620	1,820	2,570	1,300	1,830
7	1,960	7,890	9,430	6,020	4,330	3,240	9,350	2,480	1,690	3,420	1,250	1,350
8	1,790	7,680	7,190	5,670	4,110	3,120	7,830	2,460	1,650	2,860	1,110	1,130
9	1,620	7,460	7,150	5,000	3,840	3,440	7,480	2,520	1,560	2,250	1,010	1,020
10	1,510	7,390	12,600	4,710	3,600	5,240	7,680	2,640	1,510	2,070	1,110	974
11	1,440	7,370	14,500	4,930	3,400	8,340	6,880	2,590	1,560	2,810	1,110	924
12	1,370	7,200	11,500	6,850	3,430	7,370	6,000	3,090	1,560	2,250	1,020	860
13	1,310	7,190	8,700	8,770	3,390	8,150	5,620	7,780	1,490	1,860	1,040	860
14	1,260	7,340	7,160	8,650	3,410	6,980	6,730	10,900	1,370	1,650	1,010	1,420
15	1,190	7,220	6,990	7,300	3,370	6,130	9,370	7,170	1,290	1,530	924	1,160
16	1,150	6,590	6,340	6,920	3,190	5,300	9,540	5,610	2,010	1,450	860	1,080
17	1,120	5,120	5,200	9,680	3,050	3,950	7,720	4,680	4,120	1,370	828	1,060
18	1,160	4,010	4,600	11,000	2,950	3,690	5,070	4,070	3,830	1,310	812	974
19	1,170	3,810	4,300	10,600	2,740	3,390	4,520	3,690	2,720	1,250	796	892
20	1,160	3,500	4,400	10,500	2,760	3,100	4,240	3,440	2,270	1,190	780	860
21	1,150	2,190	12,500	11,200	2,810	3,240	3,940	3,130	1,960	1,140	796	876
22	1,130	1,890	18,200	21,100	3,140	4,160	3,680	2,870	1,950	1,110	780	1,020
23	1,160	1,730	13,300	21,900	4,590	4,800	3,680	2,800	1,920	1,060	750	1,040
24	1,060	1,740	11,000	18,600	5,050	4,030	3,810	2,970	2,350	1,080	735	1,080
25	1,200	1,830	10,200	16,300	4,210	3,620	3,730	2,970	3,330	1,120	735	1,020
26	2,500	2,340	8,620	12,200	4,190	3,390	3,300	2,560	3,510	1,120	750	924
27	5,490	4,060	12,900	9,550	3,900	3,140	3,080	2,310	5,270	1,130	735	876
28	7,240	3,940	23,400	8,690	3,710	3,020	2,940	2,180	4,260	1,080	720	876
29	7,600	5,100	22,600	9,070	------	2,910	2,850	2,050	3,880	1,140	796	924
30	19,100	6,020	18,900	9,390	------	3,520	2,780	2,000	3,490	2,210	860	940
31	17,300	------	16,100	8,420	------	13,700	------	1,990	------	1,880	957	------
TOTAL	102,140	177,800	306,470	303,820	116,070	141,850	223,020	107,150	74,480	62,520	32,364	34,760
MEAN	3,295	5,927	9,886	9,801	4,145	4,576	7,434	3,456	2,483	2,017	1,044	1,159
MAX	19,100	11,700	23,400	21,900	7,430	13,700	20,600	10,900	5,270	4,430	1,980	2,190
MIN	1,060	1,730	3,590	4,710	2,740	2,910	2,780	1,990	1,290	1,060	720	860
MEAN≠	2,873	3,424	9,906	9,801	4,150	5,553	8,957	4,179	3,227	2,440	1,068	1,192
CFSM≠	.86	1.02	2.95	2.92	1.24	1.66	2.67	1.25	.96	.73	.32	.36
IN.≠	.99	1.14	3.40	3.37	1.29	1.91	2.98	1.44	1.07	.84	.37	.40

CAL YR 1973	TOTAL 1,915,635	MEAN 5,248	MAX 29,400	MIN 645	MEAN≠ 5,360	CFSM≠ 1.60	IN.≠ 21.69
WTR YR 1974	TOTAL 1,682,444	MEAN 4,609	MAX 23,400	MIN 720	MEAN≠ 4,741	CFSM≠ 1.41	IN.≠ 19.20

≠ Adjusted for change in contents in Raystown Lake.

01567500 Bixler Run near Loysville, Pa.

LOCATION.--Lat 40°22'15", long 77°24'09", Perry County, on right bank 400 ft (122 m) upstream from bridge on State Highway 850 at Bixler, 2.3 mi (3.7 km) upstream from mouth, and 3.6 mi (5.8 km) west of Loysville.

DRAINAGE AREA.--15.0 mi^2 (38.8 km^2).

PERIOD OF RECORD.--January 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 601.22 ft (183.252 m) above mean sea level. Prior to May 14, 1954, nonrecording gage and crest-stage gage 400 ft (122 m) downstream at same datum.

AVERAGE DISCHARGE.--20 years, 17.5 ft^3/s (0.496 m^3/s), 15.84 in/yr (402 mm/yr).

EXTREMES.--Current year: Maximum discharge, 265 ft^3/s (7.50 m^3/s) May 12 (gage height, 4.86 ft or 1.481 m); minimum, 3.1 ft^3/s (0.088 m^3/s) Sept. 23, 24; minimum gage height, 2.34 ft or 0.713 m, Aug. 20, 21, 22, 24, 25, 26, 27, Sept. 18, 19, 23, 24.

Period of record: Maximum discharge, 8,780 ft^3/s (249 m^3/s) Nov. 1, 1956 (gage height, 10.39 ft or 3.167 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s) on basis of slope-area measurement at peak flow; minimum, 1.5 ft^3/s (0.042 m^3/s) Feb. 2, 1959.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	16	11	42	25	21	121	15	19	21	5.2	7.4
2	21	13	11	32	25	20	97	14	12	14	7.2	6.7
3	19	12	10	31	24	21	71	16	11	12	9.6	6.9
4	17	11	10	32	22	20	87	14	9.9	11	6.9	5.2
5	15	11	26	27	20	20	71	14	9.4	10	5.7	4.2
6	14	11	28	26	19	19	57	14	8.8	9.6	5.2	4.2
7	13	11	21	25	20	19	47	13	8.5	8.8	5.2	5.5
8	13	11	19	22	19	18	45	13	8.8	8.2	5.2	4.4
9	13	11	63	22	18	26	59	15	8.5	7.7	5.5	4.2
10	12	11	42	22	17	34	42	14	9.4	9.9	5.2	4.2
11	12	10	31	24	17	27	37	12	9.6	9.4	4.8	4.1
12	12	10	25	22	17	26	34	11	8.0	7.7	5.0	4.1
13	11	10	23	19	17	23	37	53	7.7	7.2	5.0	4.2
14	11	10	25	18	16	22	36	32	7.7	6.9	4.6	5.7
15	11	10	20	21	15	21	36	26	12	6.7	4.4	4.1
16	11	11	18	37	14	22	30	22	28	6.4	4.4	3.9
17	11	9.6	17	42	15	21	28	20	20	6.0	4.6	3.7
18	11	9.6	18	31	14	19	26	19	12	5.5	4.4	3.7
19	11	9.6	17	31	16	18	26	17	10	5.7	4.2	3.5
20	10	9.4	53	28	17	17	23	16	9.9	5.2	4.2	3.5
21	9.9	9.4	162	89	14	31	22	15	9.6	5.2	4.1	4.1
22	9.9	9.6	80	79	34	23	22	15	8.8	5.2	4.2	3.9
23	9.9	9.1	56	65	24	22	23	17	20	5.5	4.2	3.3
24	9.6	11	40	51	21	21	21	14	14	6.0	4.1	3.3
25	9.6	13	34	42	21	19	19	13	15	5.7	4.1	3.5
26	9.6	12	57	36	19	19	18	12	17	5.5	4.1	3.5
27	9.6	11	99	35	18	18	17	11	14	5.5	4.1	3.3
28	9.4	18	117	35	18	18	17	11	17	5.5	4.2	3.9
29	41	13	80	32	------	17	17	11	20	6.7	4.2	3.7
30	23	12	60	29	------	81	16	11	16	8.5	6.2	3.5
31	16	------	49	27	------	167	------	13	------	5.5	4.6	------
TOTAL	419.5	335.3	1,322	1,074	536	870	1,202	513	381.6	243.7	154.6	129.4
MEAN	13.5	11.2	42.6	34.6	19.1	28.1	40.1	16.5	12.7	7.86	4.99	4.31
MAX	41	18	162	89	34	167	121	53	28	21	9.6	7.4
MIN	9.4	9.1	10	18	14	17	16	11	7.7	5.2	4.1	3.3
CFSM	.90	.75	2.84	2.31	1.27	1.87	2.67	1.10	.85	.52	.33	.29
IN.	1.04	.83	3.28	2.66	1.33	2.16	2.98	1.27	.95	.60	.38	.32

CAL YR 1973 TOTAL 9,199.1 MEAN 25.2 MAX 283 MIN 4.6 CFSM 1.68 IN 22.81
WTR YR 1974 TOTAL 7,181.1 MEAN 19.7 MAX 167 MIN 3.3 CFSM 1.31 IN 17.81

PEAK DISCHARGE (BASE, 250 CFS).--May 12 (1715) 265 cfs (4.86 ft).

01568000 Sherman Creek at Shermans Dale, Pa.

LOCATION.--Lat 40°19'24", long 77°10'09", Perry County, on left bank on downstream side of bridge on State Highway 34 at Shermans Dale, and 1.2 mi (1.9 km) upstream from Fishing Run.

DRAINAGE AREA.--200 mi^2 (518 km^2).

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some months, published in WSP 1302. Prior to October 1962, published as "at Shermandale".

GAGE.--Water-stage recorder. Datum of gage is 422.63 ft (128.818 m) above mean sea level. Prior to Jan. 29, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 282 ft^3/s (7.99 m^3/s), 19.15 in/yr (486 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,490 ft^3/s (98.8 m^3/s) Dec. 21 (gage height, 7.01 ft or 2.137 m); minimum, 35 ft^3/s (0.99 m^3/s) Aug. 27, 28, Sept. 22, 23, 24, 25, 26, 27 (gage height, 0.91 ft or 0.277 m).

Period of record: Maximum discharge, 27,500 ft^3/s (779 m^3/s) June 23, 1972 (gage height, 18.09 ft or 5.514 m), from rating curve extended above 18,000 ft^3/s (510 m^3/s); minimum, 3.9 ft^3/s (0.11 m^3/s) Dec. 1, 1930; minimum gage height, 0.62 ft or 0.189 m Sept. 11, 1966; minimum daily discharge, 10 ft^3/s (0.28 m^3/s) Dec. 24, 25, 1930, Sept. 30, 1941.

Flood of July 22, 1927 reached a stage of 20.34 ft or 6.200 m, from floodmark (discharge, about 44,000 ft^3/s or 1,250 m^3/s).

REMARKS.--Records fair. Some regulation at low flow by mills above station.

REVISIONS (WATER YEARS).--WSP 1302: 1930(M), WSP 1502: 1933, 1934(M), 1935-36.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	268	95	795	422	319	1,900	198	426	190	61	60
2	200	227	89	660	396	315	1,610	181	250	200	98	96
3	360	182	87	593	381	335	1,250	192	198	170	192	121
4	290	164	87	669	346	302	1,310	187	168	140	215	112
5	200	156	177	552	305	290	1,170	168	148	130	108	68
6	160	148	492	493	287	268	965	166	134	120	78	55
7	130	136	293	461	296	259	795	161	125	110	68	68
8	115	131	235	396	268	247	710	151	123	100	63	66
9	110	124	819	363	244	322	1,100	198	120	98	63	61
10	98	117	875	370	244	497	895	218	115	96	58	53
11	92	112	551	396	262	396	723	168	110	148	60	52
12	88	108	415	457	247	377	638	636	120	98	60	52
13	86	106	361	319	227	346	665	1,680	110	85	54	54
14	84	103	415	299	224	312	704	760	100	81	55	63
15	78	101	357	374	201	287	682	561	110	79	52	63
16	76	106	290	453	168	302	552	445	200	72	48	64
17	72	101	277	825	195	328	489	370	310	69	48	55
18	70	91	218	606	171	268	449	318	200	68	48	53
19	70	91	309	539	184	250	418	283	150	68	50	45
20	68	87	403	513	221	235	388	259	140	64	46	43
21	66	85	2,600	1,200	209	370	349	229	130	61	43	40
22	64	84	1,400	1,480	477	493	332	244	120	61	42	37
23	64	84	945	1,090	750	367	352	363	140	55	46	36
24	64	85	736	885	465	346	315	280	360	61	46	35
25	62	106	606	732	411	302	280	215	310	64	44	35
26	62	117	767	633	342	280	259	190	320	63	45	35
27	60	101	1,750	629	302	268	241	176	250	60	43	35
28	60	110	1,990	575	299	250	229	166	220	61	42	36
29	76	143	1,350	615	------	241	221	156	240	66	43	41
30	680	112	1,040	505	------	651	209	158	210	94	46	43
31	309	------	850	465	------	2,180	------	156	------	79	50	------
TOTAL	4,254	3,686	20,879	18,942	8,544	12,003	20,200	9,633	5,657	2,911	2,015	1,677
MEAN	137	123	674	611	305	387	673	311	189	93.9	65.0	55.9
MAX	680	268	2,600	1,480	750	2,180	1,900	1,680	426	200	215	121
MIN	60	84	87	299	168	235	209	151	100	55	42	35
CFSM	.69	.62	3.37	3.06	1.53	1.94	3.37	1.56	.95	.47	.33	.28
IN.	.79	.69	3.88	3.52	1.59	2.23	3.76	1.79	1.05	.54	.37	.31

CAL YR 1973 TOTAL 142,342 MEAN 390 MAX 3,000 MIN 43 CFSM 1.95 IN 26.48
WTR YR 1974 TOTAL 110,401 MEAN 302 MAX 2,600 MIN 35 CFSM 1.51 IN 20.53

PEAK DISCHARGE (BASE, 3,000 CFS).--Dec. 21 (1115) 3,490 cfs (7.01 ft).

01568500 Clark Creek near Carsonville, Pa.

LOCATION.--Lat 40°27'37", long 76°45'06", Dauphin County, on right bank 0.3 mi (0.5 km) downstream from DeHart Dam, 1.8 mi (2.9 km) southeast of Carsonville, and 15 mi (24 km) upstream from mouth.

DRAINAGE AREA.--22.5 mi^2 (58.3 km^2).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 552.32 ft (168.347 m) above mean sea level. Prior to Jan. 6, 1939, water-stage recorder at site 1,700 ft (518 m) upstream at datum 9.49 ft (2.893 m) higher. Jan. 6, 1939 to July 27, 1940, nonrecording gage at site 100 ft (30 m) downstream at different datum.

AVERAGE DISCHARGE.--36 years (1937-39, 1940-74), 38.8 ft^3/s (1.10 m^3/s), 23.42 in/yr (595 mm/yr), adjusted for storage and diversion since 1941.

EXTREMES.--Current year: Maximum discharge, 206 ft^3/s (5.83 m^3/s) May 13 (gage height, 2.91 ft or 0.887 m); minimum, 3.9 ft^3/s (0.11 m^3/s) Oct. 27, 28 (gage height, 1.06 ft or 0.323 m).
Period of record: Maximum discharge, 4,800 ft^3/s (136 m^3/s) June 22, 1972 (gage height, 10.98 ft or 3.347 m), from rating curve extended above 240 ft^3/s (6.80 m^3/s) on basis of computation of peak flow over dam; minimum daily, 0.2 ft^3/s (0.006 m^3/s) Jan. 29 to Feb. 3, 1940.

REMARKS.--Records good. Flow regulated by DeHart Reservoir (see p.190). Diversion from reservoir to city of Harrisburg.

REVISIONS (WATER YEARS).--WSP 1302: 1940(M). WSP 1702: 1942 (monthly mean).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	4.8	4.2	88	56	26	119	11	10	6.6	4.6	5.1
2	4.8	4.5	4.2	72	50	28	107	9.5	11	5.5	5.0	5.1
3	4.6	4.3	4.2	62	44	29	99	9.5	8.1	5.5	4.8	6.6
4	4.6	4.3	4.2	64	39	26	153	9.5	6.4	5.3	4.8	5.1
5	4.5	4.3	9.5	43	31	21	180	8.1	5.8	5.3	4.6	4.5
6	4.3	4.3	6.0	39	28	19	161	7.3	5.8	5.1	7.6	4.5
7	4.3	4.3	5.3	35	25	18	129	6.6	7.6	5.1	4.3	4.9
8	4.3	4.3	5.1	29	23	18	111	6.9	6.0	5.1	4.3	4.6
9	4.3	4.3	10	31	22	27	124	10	5.5	5.1	4.3	4.5
10	4.3	4.2	7.3	29	19	36	109	16	5.5	5.3	4.3	4.5
11	4.3	4.2	6.6	31	18	32	84	15	5.5	5.1	4.3	4.5
12	4.3	4.2	6.4	30	15	30	71	58	5.5	5.0	4.3	4.5
13	4.3	4.2	6.4	24	14	27	68	182	5.5	5.0	4.3	4.9
14	4.3	4.2	7.3	21	13	24	67	126	5.5	5.0	4.3	5.1
15	4.3	4.0	6.4	18	12	23	71	96	5.5	4.8	4.3	5.0
16	4.3	4.2	6.2	17	11	31	56	71	6.0	4.8	4.3	5.0
17	4.3	4.0	6.2	18	11	42	47	56	6.0	4.8	4.3	5.0
18	4.3	4.0	6.0	20	9.8	35	37	47	5.5	4.8	4.3	5.0
19	4.3	4.0	5.8	15	11	29	36	38	5.5	4.8	4.3	5.0
20	4.3	4.2	8.9	15	15	25	32	31	6.0	4.8	4.3	7.9
21	4.2	4.2	18	39	13	36	29	24	6.0	4.8	4.3	5.0
22	4.2	4.2	9.8	81	29	48	27	24	6.0	4.6	5.3	5.0
23	4.3	4.2	8.4	79	66	40	27	20	6.6	4.6	5.0	5.0
24	4.2	4.2	7.6	75	48	36	23	18	6.2	4.8	4.6	5.0
25	4.3	4.2	7.1	74	39	31	20	14	6.0	4.6	4.6	5.0
26	6.6	4.2	13	71	32	28	17	12	6.0	4.5	4.6	5.0
27	4.0	4.2	31	78	27	25	15	12	6.0	4.5	4.6	5.0
28	4.0	4.3	115	85	25	24	15	11	6.2	4.6	4.6	5.1
29	6.9	4.3	129	93	------	29	14	10	6.4	5.3	4.8	5.0
30	5.3	4.2	117	78	------	43	13	9.5	6.2	5.1	4.8	5.0
31	4.3	------	99	66	------	106	------	13	------	4.6	4.6	------
TOTAL	139.8	127.0	681.1	1,520	745.8	992	2,061	981.9	189.8	154.8	143.4	151.4
MEAN	4.51	4.23	22.0	49.0	26.6	32.0	68.7	31.7	6.33	4.99	4.63	5.05
MAX	6.9	4.8	129	93	66	106	180	182	11	6.6	7.6	7.9
MIN	4.0	4.0	4.2	15	9.8	18	13	6.6	5.5	4.5	4.3	4.5
(/)	20.5	19.4	19.1	20.1	19.9	19.4	20.1	20.6	21.0	22.5	23.0	21.3
MEAN≠	12.2	16.4	116	68.3	45.6	51.4	87.3	51.6	21.6	12.4	11.8	26.4
CFSM≠	.54	.73	5.16	3.04	2.03	2.28	3.88	2.29	.96	.55	.52	1.17
IN.≠	.62	.81	5.95	3.50	2.11	2.63	4.33	2.64	1.07	.63	.60	1.30

CAL YR 1973 TOTAL 10,292.3 MEAN 28.2 MAX 224 MIN 4.0 MEAN≠ 49.5 CFSM≠ 2.20 IN.≠ 29.84
WTR YR 1974 TOTAL 7,888.0 MEAN 21.6 MAX 182 MIN 4.0 MEAN≠ 43.4 CFSM≠ 1.93 IN.≠ 26.19

/ Diversion, equivalent in cubic feet per second, from DeHart Reservoir for municipal supply; furnished by city of Harrisburg.
≠ Adjusted for diversion and change in reservoir contents.

01568700 Stony Creek above pump-storage reservoir site near Dauphin, Pa.

LOCATION.--Lat 40°27'30", long 76°39'53", Lebanon County, on right bank 3.1 mi (5.0 km) upstream from Rattling Run, and 16 mi (26 km) northeast of Dauphin.

DRAINAGE AREA.--11.5 mi^2 (29.8 km^2).

PERIOD OF RECORD.--March to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 730 ft (223 m), from topographic map.

EXTREMES.--Maximum discharge during period March to September, 198 ft^3/s (5.61 m^3/s) May 13 (gage height, 5.31 ft or 1.618 m); minimum, 3.2 ft^3/s (0.091 m^3/s) Aug. 21, 22; minimum gage height, 2.12 ft (0.646 m) July 21, 22, 23, Aug. 21, 22.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							79	16	28	30	7.4	11
2							62	15	23	24	16	43
3							68	18	16	12	85	52
4							111	17	13	8.9	44	78
5							108	15	12	7.7	22	38
6							86	15	10	7.4	14	18
7							65	14	9.8	6.7	9.3	36
8							55	13	10	6.2	7.5	37
9							76	24	9.8	6.0	6.9	21
10							73	39	9.0	7.2	6.3	15
11							54	25	8.7	8.1	5.5	13
12							46	49	8.1	6.2	4.9	13
13							44	146	7.8	5.8	4.8	22
14							45	68	7.5	5.7	4.4	42
15							66	48	7.3	5.4	4.1	37
16							49	38	11	5.3	4.1	18
17							40	31	11	5.1	4.4	13
18							35	26	8.6	5.1	4.1	11
19							33	23	7.7	5.3	3.6	10
20							31	20	8.9	5.0	3.4	9.3
21							28	18	8.0	4.8	3.3	9.1
22							26	17	7.6	4.7	3.3	9.5
23							26	18	16	5.0	3.9	8.4
24							24	17	19	8.1	3.5	7.4
25							22	16	15	6.2	3.9	7.1
26							21	15	12	5.5	4.3	6.9
27							19	14	9.5	5.5	8.6	6.4
28							18	16	10	5.2	4.4	9.6
29					------	19	18	15	21	8.2	4.4	18
30					------	32	17	15	17	42	15	13
31		------			------	92	------	14	------	15	16	------
TOTAL							1,445	835	362.3	283.3	332.3	632.7
MEAN							48.2	26.9	12.1	9.14	10.7	21.1
MAX							111	146	28	42	85	78
MIN							17	13	7.3	4.7	3.3	6.4
CFSM							4.19	2.34	1.05	.79	.93	1.83
IN.							4.67	2.70	1.17	.92	1.07	2.05

PEAK DISCHARGE (BASE, 100 CFS).--Apr. 4 (1900) 141 cfs (4.83 ft); May 13 (0400) 198 cfs (5.31 ft).

01568750 Stony Creek below pump-storage reservoir near Dauphin, Pa.

LOCATION.--Lat 40°24'51", long 76°46'50", on right bank at Water Tank Trail, 3.8 mi (6.1 km) downstream from Rattling Run and 9 mi (14.5 km) northeast of Dauphin.

DRAINAGE AREA.--21.9 mi^2 (56.7 km^2).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Altitude of gage is 560 ft (171 m).

EXTREMES.--Maximum discharge during period April to September, 324 ft^3/s (9.18 m^3/s) May 13 (gage height, 3.55 ft or 1.082 m); minimum, 7.0 ft^3/s (0.198 m^3/s) Aug. 21 (gage height, 1.33 ft or 0.405 m).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							160	36	49	40	12	18
2							120	34	43	39	32	28
3							134	38	33	23	80	54
4							210	37	27	17	47	81
5							200	33	24	14	27	67
6							170	32	22	14	18	32
7							130	32	20	12	14	32
8							115	30	20	11	12	44
9							150	47	20	10	12	36
10							140	64	19	11	10	25
11							110	48	19	16	8.9	20
12							88	116	17	11	8.6	18
13							86	265	16	9.6	8.2	21
14							88	134	15	8.9	7.9	31
15							134	90	15	8.9	7.3	44
16							97	71	23	8.6	10	36
17							79	59	28	7.9	9.2	25
18							71	52	20	7.9	8.2	21
19							67	47	16	8.2	7.3	19
20							63	43	18	7.9	7.3	17
21							57	40	17	7.6	7.3	17
22							55	38	16	7.6	8.2	18
23							55	39	25	7.6	9.2	16
24							51	37	36	13	8.9	14
25							47	34	27	10	7.3	13
26							44	32	23	8.6	7.3	13
27							42	30	19	8.6	11	12
28							40	32	19	10	10	17
29					------		39	30	37	28	7.9	34
30					------		37	30	31	47	9.6	24
31		------			------		------	28	------	22	20	------
TOTAL							2,879	1,678	714	455.9	453.6	847
MEAN							96.0	54.1	23.8	14.7	14.6	28.2
MAX							210	265	49	47	80	81
MIN							37	28	15	7.6	7.3	12
CFSM							4.38	2.47	1.09	.67	.67	1.29
IN.							4.89	2.85	1.21	.77	.77	1.44

PEAK DISCHARGE (BASE, 180 CFS).--Apr. 4 (Unk.) 276 cfs (3.36*ft); May 13 (0930) 324 cfs (3.55 ft).

*From peak-stage indicator.

01569000 Stony Creek near Dauphin, Pa.

LOCATION.--Lat 40°22'46", long 76°54'31", Dauphin County, on left bank at site of former railroad bridge, 1.5 mi (2.4 km) northeast of Dauphin, and 2.2 mi (3.5 km) upstream from mouth.

DRAINAGE AREA.--33.2 mi^2 (86.0 km^2).

PERIOD OF RECORD.--September 1937 to September 1945, January 1967 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 353.75 ft (107.82 m) above mean sea level, datum of 1907.

AVERAGE DISCHARGE.--15 years (1937-45, 1967-74), 60.6 ft^3/s (1.716 m^3/s), 24.79 in/yr (630 mm/yr).

EXTREMES.--Current year: Maximum discharge, 526 ft^3/s (14.9 m^3/s) Dec. 21 (gage height, 4.35 ft or 1.326 m); minimum, 9.2 ft^3/s (0.26 m^3/s) Aug. 11; minimum gage height, 1.16 ft (0.354 m) July 22, 23.
Period of record: Maximum discharge, 9,990 ft^3/s (283 m^3/s) June 22, 1972 (gage height, 14.44 ft or 4.401 m, from floodmark in gage shelter), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.6 ft^3/s (0.017 m^3/s) Oct. 11, 1941; minimum gage height, 0.97 ft (0.296 m) Sept. 18, 19, 1941.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1502: 1941.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	73	28	131	106	64	204	52	56	59	31	38
2	35	64	24	116	99	66	175	50	51	66	33	61
3	29	51	23	106	93	65	171	54	40	43	104	111
4	27	43	22	102	86	61	300	53	34	33	105	113
5	26	37	53	91	81	60	299	48	31	33	63	84
6	25	32	105	85	74	57	233	46	28	29	42	46
7	25	28	81	79	72	54	188	45	25	26	30	62
8	24	25	56	72	69	52	164	42	25	21	23	65
9	24	24	136	69	65	64	198	60	24	19	20	48
10	23	23	178	66	62	81	188	80	23	21	20	36
11	22	22	108	71	59	73	151	64	24	33	16	31
12	22	22	77	75	57	64	133	130	23	24	14	30
13	21	21	65	62	56	59	131	278	25	18	13	42
14	21	21	79	59	55	57	128	157	23	15	12	48
15	21	21	75	57	53	55	178	107	23	13	11	62
16	21	21	62	55	51	64	139	86	40	13	12	39
17	21	21	54	70	49	91	117	75	51	12	23	25
18	21	20	50	67	47	80	106	66	34	12	17	20
19	21	19	45	62	48	68	100	60	28	12	13	17
20	21	19	71	59	63	63	93	54	28	13	11	16
21	20	18	442	138	57	95	87	51	28	12	10	16
22	20	18	310	185	87	113	83	48	25	11	10	17
23	20	18	180	162	128	95	83	50	39	11	29	16
24	20	19	138	144	99	83	77	47	51	18	16	14
25	20	21	113	132	75	74	71	44	41	20	13	12
26	20	22	138	120	67	71	67	40	36	15	12	12
27	20	21	253	132	61	68	64	39	30	13	13	12
28	20	25	239	146	59	65	61	43	33	13	21	14
29	77	36	194	153	------	64	58	40	57	33	14	28
30	133	33	161	135	------	115	56	38	46	92	22	28
31	92	------	139	117	------	264	------	35	------	63	38	------
TOTAL	944	838	3,699	3,118	1,978	2,405	4,103	2,082	1,022	816	811	1,163
MEAN	30.5	27.9	119	101	70.6	77.6	137	67.2	34.1	26.3	26.2	38.8
MAX	133	73	442	185	128	264	300	278	57	92	105	113
MIN	20	18	22	55	47	52	56	35	23	11	10	12
CFSM	.92	.84	3.58	3.04	2.13	2.34	4.13	2.02	1.03	.79	.79	1.17
IN.	1.06	.94	4.14	3.49	2.22	2.69	4.60	2.33	1.15	.91	.91	1.30

CAL YR 1973 TOTAL 25,976.5 MEAN 71.2 MAX 442 MIN 4.2 CFSM 2.14 IN 29.11
WTR YR 1974 TOTAL 22,979.0 MEAN 63.0 MAX 442 MIN 10 CFSM 1.90 IN 25.75

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1845	4.35	526	4- 4	1430	3.49	338
12-27	2215	3.26	266	5-12	2230	3.52	345
3-31	0130	3.31	297				

01570000 Conodoguinet Creek near Hogestown, Pa.

LOCATION.--Lat 40°15'08", long 77°01'17", Cumberland County, on left bank 1,000 ft (305 m) upstream from highway bridge, 0.4 mi (0.6 km) downstream from Hogestown Run, and 1 mi (1.6 km) northeast of Hogestown.

DRAINAGE AREA.--470 mi^2 (1,217 km^2).

PERIOD OF RECORD.--October 1911 to September 1917, October 1929 to September 1958, June 1967 to current year. Monthly discharges only for some periods, published in WSP 1302. October 1917 to December 1919 (gage heights and discharge measurements only) contained in reports of Water Supply Commission of Pennsylvania. Published as "at Brysons Bridge" 1912-17.

GAGE.--Water-stage recorder. Datum of gage is 351.00 ft (106.985 m) above mean sea level. Prior to December 1919, nonrecording gage at site 2 mi (3.2 km) downstream at different datum. Oct. 1, 1929 to Aug. 3, 1931, nonrecording gage at site 1,000 ft (305 m) downstream at present datum.

AVERAGE DISCHARGE.--42 years (1911-17, 1929-58, 1967-74), 587 ft^3/s (16.6 m^3/s), 16.96 in/yr (431 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,580 ft^3/s (158 m^3/s) Mar. 31 (gage height, 7.43 ft or 2.265 m); minimum, 104 ft^3/s (2.95 m^3/s) Sept. 27, 28 (gage height, 1.10 ft or 0.335 m).
Period of record: Maximum discharge, 33,700 ft^3/s (954 m^3/s) June 23, 1972 (gage height, 17.01 ft or 5.185 m, from floodmark in gage shelter); minimum, 24 ft^3/s (0.68 m^3/s) Dec. 16, 1930; minimum daily, 26 ft^3/s (0.74 m^3/s) Dec. 23, 1930.

REMARKS.--Records good. Since June 1969 the Riverton Consolidated Water Co. diverts water, equivalent to a mean dischrge of about 6.0 ft^3/s (0.17 m^3/s), at a point just upstream from gage for municipal water supply.

REVISIONS (WATER YEARS).--WSP 1722: 1913, 1917.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	866	791	250	1,460	820	581	4,130	449	581	528	198	149
2	678	756	229	1,270	752	571	2,520	425	810	576	190	161
3	1,250	554	218	1,090	720	550	1,900	431	584	442	204	198
4	1,000	460	221	1,360	682	521	2,170	437	494	371	214	250
5	734	412	248	1,350	624	498	2,710	413	418	333	214	209
6	558	396	446	1,140	548	474	2,240	391	374	316	204	174
7	455	367	639	1,020	529	461	1,710	385	344	301	184	197
8	405	336	451	880	534	457	1,420	373	329	281	176	199
9	375	319	910	756	505	510	1,780	391	321	262	171	195
10	348	305	1,910	746	463	709	1,760	462	309	250	169	172
11	328	290	1,350	818	450	785	1,390	426	298	265	168	160
12	307	278	952	1,030	455	706	1,200	468	315	244	167	162
13	297	272	761	967	432	631	1,200	2,060	286	226	158	179
14	284	266	750	770	440	560	1,900	1,600	265	216	156	355
15	269	261	777	766	442	510	2,110	986	294	211	153	288
16	259	261	640	776	411	510	1,860	779	392	201	146	201
17	254	258	583	1,400	386	603	1,420	644	808	196	151	165
18	246	247	437	1,670	385	534	1,180	565	579	188	158	149
19	240	238	415	1,330	370	466	1,030	537	414	192	151	140
20	237	234	458	1,210	403	446	925	496	349	187	146	130
21	231	229	2,480	1,480	417	582	821	453	336	184	142	126
22	225	225	3,280	3,430	816	1,100	751	432	312	178	140	133
23	221	226	1,950	2,490	1,580	950	738	780	370	174	142	128
24	220	229	1,430	1,880	1,070	788	759	812	1,100	183	146	121
25	222	239	1,110	1,510	889	672	647	569	896	188	144	113
26	215	248	1,140	1,280	733	588	584	467	905	186	140	108
27	210	244	3,170	1,190	624	543	540	419	778	179	135	106
28	207	247	3,750	1,120	588	504	512	392	619	191	140	113
29	295	272	2,660	1,070	------	475	489	371	686	200	144	119
30	2,350	279	1,950	1,000	------	841	472	362	613	227	149	130
31	1,350	------	1,530	887	------	4,530	------	364	------	233	144	------
TOTAL	15,136	9,739	37,095	39,146	17,068	22,656	42,868	18,139	15,179	7,909	5,044	5,030
MEAN	488	325	1,197	1,263	610	731	1,429	585	506	255	163	168
MAX	2,350	791	3,750	3,430	1,580	4,530	4,130	2,060	1,100	576	214	355
MIN	207	225	218	746	370	446	472	362	265	174	135	106
CFSM	1.04	.69	2.55	2.69	1.30	1.56	3.04	1.24	1.08	.54	.35	.36
IN.	1.20	.77	2.94	3.10	1.35	1.79	3.39	1.44	1.20	.63	.40	.40

CAL YR 1973 TOTAL 302,247 MEAN 828 MAX 4,750 MIN 167 CFSM 1.76 IN 23.92
WTR YR 1974 TOTAL 235,009 MEAN 644 MAX 4,530 MIN 106 CFSM 1.37 IN 18.60

PEAK DISCHARGE (BASE, 4,000 CFS).--Dec. 27 (2200) 4,030 cfs (6.29 ft); Mar. 31 (2200) 5,580 cfs (7.43 ft).

01570100 Conodoguinet Creek tributary No. 1 near Enola, Pa.

LOCATION.--Lat 40°17'27", long 76°59'38", Cumberland County, on right bank 720 ft (220 m) upstream from bridge on State Highway 944, 3.2 mi (5.1 km) upstream from mouth, and 3.3 mi (5.3 km) west of Enola.

DRAINAGE AREA.--0.77 mi^2 (1.99 km^2).

PERIOD OF RECORD.--March 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 418.56 ft (127.577 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 1.12 ft^3/s (0.032 m^3/s), 19.75 in/yr (502 mm/yr).

EXTREMES.--Current year: Maximum discharge, 45 ft^3/s (1.27 m^3/s) Mar. 30 (gage height, 2.97 ft or 0.905 m); minimum, 0.04 ft^3/s (0.001 m^3/s) Aug. 21, 24, 25, 27, 28 (gage height, 1.73 ft or 0.527 m).
Period of record: Maximum discharge, 604 ft^3/s (17.1 m^3/s) June 22, 1972 (gage height, 5.71 ft or 1.740 m), from rating curve extended above 50 ft^3/s (1.4 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.01 ft^3/s (0.0003 m^3/s) Sept. 9, 11, 12, 1973; minimum gage height, 1.56 ft (0.475 m) Oct. 1, 2, 1969.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.40	.17	2.3	1.0	.77	3.3	.50	.91	.44	.08	.14
2	.38	.31	.16	1.6	.98	.85	3.1	.45	.40	.27	.24	.10
3	.35	.24	.16	2.0	.88	.75	2.2	.70	.31	.25	.16	.56
4	.33	.24	.16	2.6	.75	.64	12	.50	.27	.22	.13	.13
5	.30	.25	1.3	1.8	.60	.60	5.3	.50	.24	.25	.10	.11
6	.25	.23	.98	1.4	.60	.54	3.3	.48	.22	.19	.10	.10
7	.25	.21	.50	1.3	.65	.50	2.6	.48	.19	.16	.09	.35
8	.25	.21	.40	1.2	.60	.52	2.7	.42	.19	.14	.09	.13
9	.25	.18	7.5	1.0	.53	1.2	6.3	1.0	.18	.13	.11	.12
10	.22	.16	2.6	.90	.48	1.7	2.9	.70	.17	.14	.10	.11
11	.19	.16	1.4	1.8	.50	1.0	2.2	.50	.18	.14	.08	.11
12	.19	.16	1.1	1.6	.52	.84	2.1	4.2	.15	.12	.08	.18
13	.19	.16	1.1	1.0	.54	.72	2.9	2.1	.14	.11	.08	.43
14	.16	.16	1.6	.90	.48	.64	2.7	1.1	.14	.11	.07	.50
15	.16	.16	1.0	.84	.44	.60	3.7	.79	.15	.10	.07	.24
16	.15	.16	.85	1.4	.40	1.7	2.1	.60	.78	.10	.08	.16
17	.15	.16	.70	2.1	.44	1.4	1.7	.48	.58	.10	.13	.13
18	.14	.16	.63	1.2	.40	.88	1.5	.48	.21	.10	.08	.13
19	.14	.16	.60	1.3	.61	.81	1.4	.42	.18	.10	.07	.12
20	.14	.15	4.9	1.3	.70	.67	1.3	.38	.18	.10	.07	.12
21	.14	.15	16	8.9	.48	4.4	1.2	.34	.16	.09	.06	.13
22	.14	.14	4.0	4.4	2.9	2.1	1.1	.50	.15	.09	.07	.12
23	.13	.14	2.7	3.0	1.7	1.4	1.2	.82	1.2	.10	.07	.11
24	.13	.21	2.1	2.5	1.0	1.2	.98	.45	.45	.12	.06	.11
25	.12	.20	1.9	2.0	.95	1.0	.85	.38	.35	.10	.06	.11
26	.11	.19	8.6	1.8	.75	.94	.70	.34	.31	.11	.06	.11
27	.11	.20	8.7	2.3	.65	.84	.70	.32	.23	.10	.06	.10
28	.11	.36	4.6	1.9	.70	.77	.63	.33	1.2	.10	.06	.18
29	1.9	.27	2.9	1.8	------	.78	.63	.31	1.0	.21	.08	.13
30	.85	.23	2.2	1.4	------	12	.56	.31	.45	.16	.10	.12
31	.48	------	2.3	1.2	------	9.4	------	.43	------	.10	.09	------
TOTAL	8.56	6.11	83.81	60.74	21.23	52.16	73.85	21.31	11.27	4.55	2.78	5.19
MEAN	.28	.20	2.70	1.96	.76	1.68	2.46	.69	.38	.15	.090	.17
MAX	1.9	.40	16	8.9	2.9	12	12	4.2	1.2	.44	.24	.56
MIN	.11	.14	.16	.84	.40	.50	.56	.31	.14	.09	.06	.10
CFSM	.36	.26	3.51	2.55	.99	2.18	3.19	.90	.49	.19	.12	.22
IN.	.41	.30	4.05	2.93	1.03	2.52	3.57	1.03	.54	.22	.13	.25

CAL YR 1973 TOTAL 445.74 MEAN 1.22 MAX 16 MIN .03 CFSM 1.58 IN 21.53
WTR YR 1974 TOTAL 351.56 MEAN .96 MAX 16 MIN .06 CFSM 1.25 IN 16.98

PEAK DISCHARGE (BASE, 35 CFS).--Mar. 30 (1730) 45 cfs (2.97 ft).

01570300 Conodoguinet Creek tributary No. 3 near Enola, Pa.

LOCATION.--Lat 40°18'05", long 76°56'57", Cumberland County, on right bank at upstream side of culvert on Valley Road, 1 mi (1.6 km) northwest of Enola and 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--0.38 mi^2 (0.98 km^2).

PERIOD OF RECORD.--February 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 416.56 ft (126.967 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 0.63 ft^3/s (0.018 m^3/s), 22.51 in/yr (572 mm/yr).

EXTREMES.--Current year: Maximum discharge, 29 ft^3/s (0.82 m^3/s) May 12 (gage height, 3.21 ft or 0.978 m); no flow on many days.
Period of record: Maximum discharge, 263 ft^3/s (7.45 m^3/s) June 22, 1972 (gage height, 7.73 ft or 2.356 m) from rating curve extended above 15 ft^3/s (0.42 m^3/s) on basis of computation of peak flow through culvert; no flow on many days.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.09	.05	1.1	.36	.28	2.0	.17	.47	.11	.02	.75
2	.53	.07	.05	.51	.35	.33	1.8	.17	.13	.06	.97	.16
3	.18	.06	.05	1.0	.28	.34	1.2	.26	.12	.05	.56	2.2
4	.11	.06	.04	1.4	.26	.28	5.1	.17	.09	.05	.18	.21
5	.08	.06	1.4	.70	.22	.22	2.1	.15	.07	.04	.06	.07
6	.06	.06	.40	.50	.19	.19	1.2	.15	.06	.04	.05	.10
7	.06	.06	.16	.50	.21	.19	.90	.13	.06	.04	.04	.99
8	.06	.09	.14	.34	.19	.16	.94	.13	.07	.04	.04	.10
9	.06	.05	4.9	.34	.15	.77	3.3	.45	.06	.04	.04	.07
10	.06	.04	.72	.30	.16	.80	1.1	.20	.06	.06	.03	.05
11	.05	.04	.35	.94	.18	.32	.83	.13	.06	.06	.02	.05
12	.05	.04	.22	.71	.16	.30	.64	3.4	.06	.05	.02	.54
13	.05	.04	.40	.38	.20	.24	1.1	.95	.05	.05	.02	.80
14	.05	.04	.92	.34	.17	.20	1.9	.45	.05	.03	.01	.48
15	.05	.04	.28	.39	.14	.17	1.6	.36	.06	.03	.01	.10
16	.04	.04	.19	.89	.10	1.3	.75	.27	.69	.01	.43	.07
17	.04	.04	.18	1.4	.10	.61	.55	.23	.40	.01	.10	.06
18	.04	.04	.16	.40	.09	.32	.46	.20	.06	.01	.05	.05
19	.04	.04	.16	.54	.22	.30	.47	.18	.05	.01	.02	.05
20	.04	.04	3.4	.57	.23	.24	.38	.14	.05	.01	.02	.05
21	.03	.04	7.8	5.4	.14	2.7	.35	.13	.05	.01	.01	.10
22	.03	.04	1.5	2.0	2.9	.75	.34	.16	.05	.01	.03	.05
23	.03	.04	1.0	1.3	.80	.45	.34	.23	1.1	.01	.02	.04
24	.04	.06	.75	.78	.36	.38	.27	.13	.12	.06	.02	.04
25	.06	.05	.53	.60	.36	.30	.23	.11	.10	.03	.01	.04
26	.04	.04	5.1	.74	.26	.30	.20	.11	.07	.03	.01	.04
27	.03	.05	3.4	1.0	.24	.24	.20	.11	.06	.02	.01	.03
28	.04	.27	1.7	.81	.22	.21	.19	.19	.79	.03	.01	.19
29	1.7	.11	1.1	.60	------	.24	.15	.14	.26	.53	.05	.06
30	.22	.06	.85	.42	------	8.6	.13	.12	.08	.10	.15	.04
31	.10	------	.96	.39	------	4.6	------	.23	------	.04	.08	------
TOTAL	4.03	1.80	38.86	27.29	9.24	26.33	30.72	9.95	5.40	1.67	3.09	7.58
MEAN	.13	.060	1.25	.88	.33	.85	1.02	.32	.18	.054	.10	.25
MAX	1.7	.27	7.8	5.4	2.9	8.6	5.1	3.4	1.1	.53	.97	2.2
MIN	.03	.04	.04	.30	.09	.16	.13	.11	.05	.01	.01	.03
CFSM	.34	.16	3.29	2.32	.87	2.24	2.68	.84	.47	.14	.26	.66
IN.	.39	.18	3.80	2.67	.90	2.58	3.01	.97	.53	.16	.30	.74

CAL YR 1973 TOTAL 227.66 MEAN .62 MAX 13 MIN .02 CFSM 1.63 IN 22.29
WTR YR 1974 TOTAL 165.96 MEAN .45 MAX 8.6 MIN .01 CFSM 1.18 IN 16.25

PEAK DISCHARGE (BASE,45 CFS).--No peak above base.

01570500 Susquehanna River at Harrisburg, Pa.

LOCATION.--Lat 40°15'10", long 76°52'27", Dauphin County, on left bank at Nagle Street, 500 ft (152 m) upstream from sanitary dam, 3,700 ft (1,130 m) downstream from Walnut Street Bridge in Harrisburg, and 1.1 mi (1.8 km) upstream from Paxton Creek.

DRAINAGE AREA.--24,100 mi^2 (62,400 km^2), approximately.

PERIOD OF RECORD.--October 1890 to current year.

GAGE.--Water-stage recorder and concrete-slab control. Datum of gage is 290.01 ft (88.395 m) above mean sea level. Supplementary nonrecording gage at Walnut Street Bridge at same datum. Prior to Oct. 1, 1928, nonrecording gage at Walnut Street Bridge at same datum. Sanitary dam built during period Sept. 30, 1913 to Aug. 29, 1916. Major repairs to dam Sept. 15 to Dec. 23, 1964.

AVERAGE DISCHARGE.--84 years, 34,110 ft^3/s (966 m^3/s), 19.22 in/yr (488 mm/yr).

EXTREMES.--Current year: Maximum discharge, 205,000 ft^3/s (5,810 m^3/s) Dec. 29 (gage height, 12.07 ft or 3.679 m); minimum, 5,210 ft^3/s (148 m^3/s) Aug. 28, 29 (gage height, 3.16 ft or 0.963 m).

Period of record: Maximum discharge, 1,020,000 ft^3/s (28,900 m^3/s) June 24, 1972 (gage height, 32.57 ft or 9.927 m, from floodmark); minimum, 1,600 ft^3/s (45.3 m^3/s) Nov. 29, 1930, result of freezeup. Minimum daily discharge since construction of sanitary dam and not affected by freezeup, 1,700 ft^3/s (48.1 m^3/s) Sept. 18, 1964; minimum gage height, 1.83 ft (0.558 m) Sept. 13, 1964.

Maximum stage known during period 1786 to 1890, 26.8 ft (8.17 m) at Walnut Street Bridge June 2, 1889 (discharge, 654,000 ft^3/s or 18,500 m^3/s).

REMARKS.--Records excellent except those for winter periods, which are good. Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 711: 1929. WSP 1502: 1891-1923, 1926(M), 1928. WSP 1702: 1953 (total runoff in inches), 1958 (1957 calendar year mean discharge).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14,500	54,900	49,200	111,000	98,100	41,500	86,900	25,400	20,100	24,600	16,400	10,100
2	14,700	49,200	43,400	92,200	81,800	39,600	89,200	25,400	21,800	51,600	14,900	15,800
3	13,500	45,000	37,500	77,600	69,700	38,300	98,400	29,000	23,300	64,300	15,300	23,600
4	14,400	38,500	33,100	66,600	60,500	38,000	151,000	30,000	22,400	48,900	16,600	26,600
5	14,400	34,900	30,300	57,600	51,000	38,800	188,000	30,300	20,300	37,000	16,600	36,200
6	13,100	30,600	35,000	50,300	43,500	44,500	180,000	29,800	18,000	30,000	14,400	39,900
7	14,500	28,800	63,000	44,200	39,000	62,600	150,000	28,300	16,000	28,300	12,900	32,000
8	14,400	26,600	61,300	39,900	34,500	70,900	121,000	27,600	14,900	32,600	11,600	28,300
9	14,200	24,500	58,900	37,200	32,500	70,200	103,000	26,400	14,000	28,300	10,400	24,200
10	14,000	23,300	79,800	33,600	30,000	95,000	96,600	25,400	13,100	23,600	9,800	20,500
11	13,100	22,400	102,000	32,000	28,500	131,000	86,400	26,800	12,600	21,800	9,650	16,800
12	12,100	21,300	101,000	32,000	25,500	121,000	76,900	27,800	12,200	20,100	9,050	15,500
13	10,900	22,000	83,300	34,000	25,500	96,600	75,800	40,800	12,100	16,800	8,450	14,500
14	10,300	22,000	67,300	32,800	26,600	77,800	86,200	70,100	11,900	14,700	8,020	14,900
15	9,800	21,800	57,900	31,000	26,400	63,300	94,000	92,000	10,800	13,600	7,600	15,500
16	9,650	19,600	51,400	28,000	25,200	53,900	100,000	82,900	12,100	13,300	7,600	14,700
17	9,350	17,800	46,000	32,300	24,000	46,900	108,000	66,300	18,400	12,600	7,180	14,000
18	9,200	16,200	40,000	39,000	23,000	44,500	89,800	53,000	23,800	13,500	6,900	13,300
19	9,200	16,200	36,000	42,000	22,700	44,500	73,900	45,300	23,800	12,200	6,780	12,200
20	8,750	16,400	31,000	41,500	21,800	43,700	62,000	41,000	21,800	11,100	6,280	11,900
21	8,300	15,300	53,700	47,200	19,400	41,800	54,400	40,700	19,800	10,400	6,280	11,400
22	8,160	13,800	161,000	74,500	23,100	44,800	49,200	36,400	17,400	9,960	6,150	11,400
23	8,160	14,000	164,000	105,000	30,300	51,700	43,900	32,800	16,600	9,200	6,280	16,400
24	7,880	13,300	128,000	112,000	74,100	53,000	41,500	30,000	16,800	9,050	6,150	21,300
25	7,180	13,300	101,000	110,000	96,000	49,500	38,000	27,100	17,000	8,750	6,020	20,500
26	8,300	14,400	82,200	108,000	74,900	47,200	35,700	26,600	16,800	8,600	5,780	19,200
27	9,350	19,800	91,200	90,200	58,700	44,500	34,100	24,900	17,600	8,900	5,650	18,800
28	12,400	32,300	155,000	80,900	47,800	40,700	31,600	24,000	18,800	9,050	5,320	17,000
29	13,600	36,700	199,000	96,000	------	38,300	29,800	22,700	19,600	9,350	5,210	15,300
30	23,600	46,900	171,000	120,000	------	37,700	27,300	21,300	20,900	13,300	6,400	15,500
31	46,100	------	139,000	113,000	------	58,000	------	19,800	------	16,200	7,320	------
TOTAL	397,080	771,800	2,552.5M	2,011.6M	1,214.1M	1,769.8M	2,502.6M	1,129.9M	524,700	631,660	282,970	567,300
MEAN	12,810	25,730	82,340	64,890	43,360	57,090	83,420	36,450	17,490	20,380	9,128	18,910
MAX	46,100	54,900	199,000	120,000	98,100	131,000	188,000	92,000	23,800	64,300	16,600	39,900
MIN	7,180	13,300	30,300	28,000	19,400	37,700	27,300	19,800	10,800	8,600	5,210	10,100
CFSM	.53	1.07	3.42	2.69	1.80	2.37	3.46	1.51	.73	.85	.38	.78
IN.	.61	1.19	3.94	3.11	1.87	2.73	3.86	1.74	.81	.98	.44	.88

CAL YR 1973 TOTAL 14,673,500 MEAN 40,200 MAX 199,000 MIN 7,040 CFSM 1.67 IN 22.65
WTR YR 1974 TOTAL 14,356,010 MEAN 39,330 MAX 199,000 MIN 5,210 CFSM 1.63 IN 22.16

PEAK DISCHARGE (BASE, 180,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	1700	11.06	180,000	4- 5	1230	11.50	190,000
12-29	1030	12.07	205,000				

01571500 Yellow Breeches Creek near Camp Hill, Pa.

LOCATION.--Lat 40°13'29", long 76°53'54", Cumberland County, on left bank 50 ft (15 m) downstream from single-span highway bridge, 150 ft (46 m) downstream from Olmsted's Mill dam, 1 mi (1.6 km) southeast of Camp Hill and 3.1 miles (5.0 km) upstream from mouth.

DRAINAGE AREA.--216 mi^2 (559 km^2).

PERIOD OF RECORD.--April 1909 to December 1919, June 1954 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to June 1954, published as "at Olmsteds Mill".

GAGE.--Water-stage recorder. Datum at gage is 307.49 ft (93.723 m) above mean sea level. March 1909 to December 1919, nonrecording gage at site 50 ft (15 m) upstream at same datum.

AVERAGE DISCHARGE.--30 years (1909-1919, 1954-1974), 282 ft^3/s (7.99 m^3/s), 17.73 in/yr (450 mm/year).

EXTREMES.--Current year: Maximum discharge, 1,970 ft^3/s (55.8 m^3/s) Apr. 4 (gage height, 6.12 ft or 1.865 m); minimum, 144 ft^3/s (4.08 m^3/s) Sept. 28; minimum gage height, 1.19 ft or 0.363 m Aug. 22, 26, 27, 28, 29.
Period of record: Maximum discharge, 15,900 ft^3/s (450 m^3/s) June 22, 1972 (gage height, 18.33 ft or 5.587 m, from floodmarks); minimum, 23 ft^3/s (0.651 m^3/s) Sept. 12, 1966 (gage height, 0.17 ft or 0.052 m); minimum daily, 67 ft^3/s (1.90 m^3/s) Sept. 13, 1966.
Flood of July 22, 1953 reached a stage of 9.4 ft (2.87 m), from floodmarks (discharge, 3,940 ft^3/s or 112 m^3/s, from rating curve extended above 2,500 ft^3/s or 70.8 m^3/s).

REMARKS.--Records good. The Mechanicsburg Water Co. diverts water at a point about 4 miles (6.44 km) upstream from station for municipal water supply, equivalent to a mean discharge at station of 1.1 ft^3/s (0.031 m^3/s).

REVISIONS (WATER YEARS).--WSP 1302: 1910, 1912-13, 1914(M), 1916.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	247	245	190	604	415	298	899	370	285	250	181	190
2	269	232	186	533	400	293	746	360	282	260	376	205
3	349	219	186	490	394	293	655	370	276	240	256	236
4	269	209	186	584	376	290	1,520	394	251	230	338	260
5	238	207	215	500	354	281	1,660	328	238	220	228	190
6	224	211	293	452	343	274	1,240	320	228	210	195	173
7	215	205	238	436	346	278	973	315	221	210	184	293
8	215	201	213	415	343	276	856	297	219	200	179	228
9	211	201	487	400	312	290	1,180	312	217	197	179	190
10	211	195	526	397	310	315	1,010	341	215	197	180	177
11	203	194	359	421	322	298	802	302	217	214	175	177
12	203	195	320	481	312	271	728	409	209	196	168	192
13	199	199	307	400	315	271	902	750	199	191	166	228
14	197	199	343	357	305	265	1,120	452	197	188	164	247
15	197	197	317	365	302	258	906	394	211	183	159	190
16	197	197	288	376	288	288	788	362	283	183	157	175
17	194	192	286	452	290	354	704	338	325	181	180	169
18	192	190	271	424	283	298	652	322	245	179	171	164
19	190	192	274	397	288	286	611	312	224	183	159	161
20	190	190	288	415	315	280	577	302	220	178	156	157
21	190	190	1,340	848	300	370	530	287	220	174	152	157
22	190	188	906	1,070	354	455	510	300	210	173	152	161
23	188	190	621	795	448	354	520	449	280	173	156	154
24	190	190	530	700	333	333	500	349	480	180	154	149
25	188	197	461	607	312	320	461	297	410	180	162	149
26	186	195	607	556	298	312	449	276	420	178	152	147
27	186	192	1,290	573	288	307	420	264	340	177	150	145
28	182	203	1,060	530	288	300	400	262	280	179	154	152
29	281	213	863	513	------	295	390	251	300	219	152	154
30	516	199	742	468	------	631	380	251	280	272	173	147
31	288	------	641	439	------	1,310	------	249	------	201	182	------
TOTAL	6,995	6,027	14,834	15,998	9,234	10,744	23,089	10,585	7,982	6,196	5,690	5,517
MEAN	226	201	479	516	330	347	770	341	266	200	184	184
MAX	516	245	1,340	1,070	448	1,310	1,660	750	480	272	376	293
MIN	182	188	186	357	283	258	380	249	197	173	150	145
CFSM	1.05	.93	2.22	2.39	1.53	1.61	3.56	1.58	1.23	.93	.85	.85
IN.	1.20	1.04	2.55	2.76	1.59	1.85	3.98	1.82	1.37	1.07	.98	.95

CAL YR 1973 TOTAL 143,369 MEAN 393 MAX 2,060 MIN 162 CFSM 1.82 IN 24.69
WTR YR 1974 TOTAL 122,891 MEAN 337 MAX 1,660 MIN 145 CFSM 1.56 IN 21.16

PEAK DISCHARGE (BASE, 1,250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1430	5.64	1,730	3-31	0115	5.38	1,600
12-27	0130	4.83	1,360	4- 4	1645	6.12	1,970
1-21	1745	5.13	1,480				

01573000 Swatara Creek near Harper Tavern, Pa.

LOCATION.--Lat 40°24'09", long 76°34'39", Lebanon County, on left bank 10 ft (3 m) downstream from bridge on State Highway 934 at Harper Tavern, 6 mi (9.7 km) northwest of Annville and 8.5 mi (13.7 km) downstream from Little Swatara Creek.

DRAINAGE AREA.--337 mi^2 (873 km^2).

PERIOD OF RECORD.--January 1919 to current year. Monthly discharge only for some periods, published in WSP 1302. Prior to October 1927, published as "at Harpers".

GAGE.--Water-stage recorder. Datum of gage is 356.68 ft (108.716 m) above mean sea level. Prior to July 16, 1931, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--55 years, 561 ft^3/s (15.9 m^3/s), 22.61 in/yr (574 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,000 ft^3/s (283 m^3/s) Dec. 21 (gage height, 10.98 ft or 3.347 m); minimum, 98 ft^3/s (2.78 m^3/s) July 22 (gage height, 0.25 ft or 0.076 m).

Period of record: Maximum discharge, 66,700 ft^3/s (1,890 m^3/s) June 23, 1972 (gage height, 23.72 ft or 7.230 m, from floodmark in gage shelter), from rating curve extended above 25,000 ft^3/s (708 m^3/s) on basis of slope-area measurement of peak flow; minimum, 6.0 ft^3/s (0.17 m^3/s) Aug. 21, 1965; minimum gage height, -0.30 ft (-0.091 m) Sept. 4, 13, 14, 1966.

Flood of June 1, 1889, reached a stage of 25.6 ft or 7.80 m, from floodmark (discharge, 88,000 ft^3/s or 2,490 m^3/s, from rating curve extended as explained above).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1202: 1948. WSP 1302: 1920(M), 1921, 1924-25(M), 1927-28(M), 1930(M). WSP 1903: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	577	270	1,430	1,030	635	2,280	362	369	618	158	188
2	282	496	230	1,190	913	606	1,860	327	347	538	1,230	951
3	509	402	217	1,020	818	573	1,620	350	252	367	2,390	816
4	366	338	215	1,280	717	527	2,620	366	216	292	864	1,240
5	300	303	601	1,020	577	509	2,890	311	195	249	529	637
6	250	281	1,580	896	577	478	2,720	296	178	231	391	453
7	221	250	915	845	568	457	1,950	304	167	203	305	951
8	212	237	690	754	513	444	1,560	278	165	180	258	721
9	204	224	2,260	655	483	907	2,080	311	164	162	232	526
10	206	211	2,850	686	465	1,160	1,790	540	159	154	260	442
11	192	195	1,700	786	478	936	1,390	386	170	153	223	379
12	176	189	1,230	947	419	845	1,210	700	151	142	181	377
13	169	185	1,000	655	414	733	1,180	3,100	138	130	166	899
14	164	180	1,420	559	435	650	1,130	1,420	133	125	158	1,580
15	154	177	1,120	606	390	592	2,040	1,010	131	123	145	851
16	147	180	917	568	334	722	1,380	778	199	119	133	609
17	139	173	815	754	350	1,250	1,140	638	233	112	152	490
18	136	158	733	690	322	807	984	552	184	109	167	421
19	136	156	751	621	350	727	886	481	144	110	139	364
20	134	154	715	660	696	681	826	428	145	109	126	322
21	131	149	7,250	1,880	500	1,110	705	389	153	103	117	307
22	129	147	6,760	3,230	759	1,620	650	369	143	99	116	319
23	126	144	2,920	2,340	1,670	1,120	620	387	272	100	131	266
24	127	148	2,060	1,950	1,000	970	563	388	467	123	138	227
25	122	188	1,550	1,580	845	807	514	337	404	156	130	210
26	122	198	1,980	1,360	722	712	474	298	367	126	115	204
27	121	179	4,400	1,520	621	655	444	270	256	115	111	192
28	117	220	3,130	1,400	587	601	419	272	224	112	110	311
29	397	533	2,260	1,650	------	554	398	252	378	174	117	922
30	2,370	341	1,810	1,330	------	813	378	258	308	670	179	478
31	715	------	1,480	1,180	------	2,830	------	240	------	284	205	------
TOTAL	8,828	7,313	55,829	36,042	17,553	26,031	38,701	16,398	6,812	6,288	9,676	16,653
MEAN	285	244	1,801	1,163	627	840	1,290	529	227	203	312	555
MAX	2,370	577	7,250	3,230	1,670	2,830	2,890	3,100	467	670	2,390	1,580
MIN	117	144	215	559	322	444	378	240	131	99	110	188
CFSM	.85	.72	5.34	3.45	1.86	2.49	3.83	1.57	.67	.60	.93	1.65
IN.	.97	.81	6.16	3.98	1.94	2.87	4.27	1.81	.75	.69	1.07	1.84

CAL YR 1973 TOTAL 261,500 MEAN 716 MAX 7,250 MIN 82 CFSM 2.12 IN 28.87
WTR YR 1974 TOTAL 246,124 MEAN 674 MAX 7,250 MIN 99 CFSM 2.00 IN 27.17

PEAK DISCHARGE (BASE, 4,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2130	10.98	10,000	8-2	2300	7.79	5,700
12-27	0800	7.11	5,000				

01573086 Beck Creek near Cleona, Pa.

LOCATION.--Lat 40°19'24", long 76°29'00", Lebanon County, on right bank at bridge on Township Road T421, 0.4 mi (0.6 km) upstream from mouth and 1 mi (1.6 km) south of Cleona.

DRAINAGE AREA.--7.87 mi^2 (20.38 km^2).

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 414.77 ft (126.422 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 7.40 ft^3/s (0.210 m^3/s), 12.77 in/yr (324 mm/yr).

EXTREMES.--Current year: Maximum discharge, 64 ft^3/s (1.81 m^3/s) Dec. 21 (gage height, 5.26 ft or 1.603 m); minimum daily, 3.4 ft^3/s (0.096 m^3/s) Dec. 2-4, Sept. 26, 27.
Period of record: Maximum discharge, 5,150 ft^3/s (146 m^3/s) June 22, 1972 (gage height, 11.53 ft or 3.514 m), from rating curve extended above 100 ft^3/s (2.83 m^3/s) on basis of computation of peak flow through culvert and over road; no flow Jan. 30, 31, 1966.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	4.9	3.6	15	16	9.5	18	13	8.9	5.1	5.2	6.2
2	5.4	4.7	3.4	14	16	9.2	17	12	7.9	5.1	6.4	8.9
3	6.0	4.7	3.4	14	16	9.2	15	13	7.9	4.9	6.0	5.8
4	5.4	4.5	3.4	16	15	8.9	31	13	7.6	4.7	6.2	6.2
5	5.4	4.5	4.3	14	14	8.9	25	12	7.6	4.9	5.8	4.3
6	4.9	4.5	4.9	13	13	8.6	22	12	7.4	5.1	5.4	3.8
7	4.9	4.3	3.8	13	13	8.6	19	12	7.4	5.1	5.0	5.1
8	5.1	4.2	3.7	12	12	8.4	18	11	7.4	5.1	4.8	3.8
9	4.9	4.2	8.6	12	12	9.2	20	12	7.4	5.4	4.9	3.7
10	5.1	4.2	6.7	12	12	10	18	14	7.6	5.6	5.2	3.6
11	5.1	4.0	5.2	13	11	8.9	16	12	7.4	5.8	4.9	3.6
12	5.1	4.0	4.7	13	11	8.6	16	17	7.6	5.8	4.7	3.6
13	4.9	4.0	4.7	11	11	8.4	18	20	7.4	5.8	4.6	3.7
14	4.7	4.0	5.4	11	11	8.1	17	14	7.4	5.6	4.6	5.2
15	4.7	4.0	4.9	11	10	7.9	17	14	7.2	5.6	4.5	4.0
16	4.5	4.2	4.5	11	9.8	8.9	15	14	7.6	5.2	4.4	3.7
17	4.3	4.0	4.0	11	10	10	15	14	7.4	5.2	5.4	3.6
18	4.3	3.8	3.8	10	9.8	8.6	15	14	6.9	5.1	5.0	3.6
19	4.3	4.0	4.3	10	10	8.6	15	13	6.7	5.1	4.8	3.7
20	4.2	3.8	4.7	9.5	11	8.4	14	13	6.2	5.1	4.7	4.0
21	4.2	3.7	30	18	9.5	13	14	13	5.8	5.1	4.7	4.0
22	4.2	3.7	19	21	10	12	14	13	5.8	4.9	4.8	4.0
23	4.0	3.6	17	20	11	10	15	12	8.1	4.7	5.4	4.0
24	4.2	3.7	15	20	9.5	10	14	11	5.6	4.9	5.2	3.7
25	4.0	3.7	14	19	9.2	9.5	13	11	6.2	4.9	5.2	3.6
26	4.0	3.6	19	18	8.6	9.2	13	9.8	5.4	4.7	5.1	3.4
27	4.0	3.6	28	20	8.6	9.2	13	9.5	5.1	4.9	5.2	3.4
28	4.0	3.8	20	19	8.9	9.2	13	9.8	5.4	5.1	5.2	4.3
29	6.0	3.8	18	19	------	8.9	13	8.9	5.8	6.2	5.2	4.9
30	6.9	3.6	17	17	------	13	13	8.6	5.2	7.4	5.6	4.2
31	4.9	------	15	17	------	24	------	8.1	------	5.4	5.6	------
TOTAL	148.7	121.3	304.0	453.5	318.9	304.9	496	383.7	207.3	163.5	159.7	129.6
MEAN	4.80	4.04	9.81	14.6	11.4	9.84	16.5	12.4	6.91	5.27	5.15	4.32
MAX	6.9	4.9	30	21	16	24	31	20	8.9	7.4	6.4	8.9
MIN	4.0	3.6	3.4	9.5	8.6	7.9	13	8.1	5.1	4.7	4.4	3.4
CFSM	.61	.51	1.25	1.86	1.45	1.25	2.10	1.58	.88	.67	.65	.55
IN.	.70	.57	1.44	2.14	1.51	1.44	2.34	1.81	.98	.77	.75	.61

CAL YR 1973 TOTAL 3,936.2 MEAN 10.8 MAX 44 MIN 2.7 CFSM 1.37 IN 18.61
WTR YR 1974 TOTAL 3,191.1 MEAN 8.74 MAX 31 MIN 3.4 CFSM 1.11 IN 15.08

PEAK DISCHARGE (BASE, 80 CFS).--No peak above base.

01574000 West Conewago Creek near Manchester, Pa.

LOCATION.--Lat 40°04'56", long 76°43'13", York County, on left bank 500 ft (150 m) upstream from bridge on State Highway 181, 0.7 mi (1.1 km) downstream from Little Conewago Creek and 1.5 mi (2.4 km) north of Manchester.

DRAINAGE AREA.--510 mi^2 (1,321 km^2).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for October 1928, published in WSP 1302. Prior to October 1931, published as Conewago Creek near Manchester.

GAGE.--Water-stage recorder. Datum of gage is 263.86 ft (80.425 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 585 ft^3/s (16.6 m^3/s), 15.58 in/yr (396 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,500 ft^3/s (382 m^3/s) Mar. 31 (gage height, 12.91 ft or 3.935 m); minimum, 39 ft^3/s (1.10 m^3/s) Aug. 21, 22 (gage height 1.81 ft or 0.552 m).
Period of record: Maximum discharge, 81,700 ft^3/s (2,310 m^3/s) June 22, 1972 (gage height, 30.26 ft or 9.223 m, from floodmark in gage shelter), from rating curve extended above 45,000 ft^3/s (1,270 m^3/s) on basis of slope-area measurement of peak flow; minimum, 1.9 ft^3/s (0.054 m^3/s) Oct. 13, 1941; minimum gage height, 1.03 ft (0.314 m) Aug. 9, 1966.

REMARKS.--Records good. Occasional regulation by Conewago Lake (capacity, 3,570 acre-ft or 4.40 hm^3) since October 1959.

REVISIONS (WATER YEARS).--WSP 741: Drainage area. WSP 1502: 1930, 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	805	355	133	1,210	717	336	2,760	329	203	274	85	72
2	524	370	103	1,150	628	344	1,810	298	268	218	75	183
3	1,060	322	92	945	609	336	1,350	315	283	200	63	210
4	793	268	84	1,950	568	344	5,820	340	271	152	68	470
5	520	246	103	1,540	490	322	5,120	304	198	111	174	360
6	287	236	524	1,090	409	294	2,350	268	167	82	149	169
7	221	242	470	963	421	281	1,510	261	147	85	103	280
8	190	216	258	921	421	301	1,240	246	137	102	78	474
9	174	198	1,140	733	329	326	2,780	249	128	90	63	280
10	159	190	2,310	717	336	445	2,130	382	128	79	56	181
11	144	182	1,030	1,060	397	494	1,280	389	124	79	53	210
12	135	174	686	2,100	389	362	1,080	478	111	67	49	242
13	126	172	546	1,240	355	315	3,750	2,330	111	60	48	290
14	116	138	618	856	393	281	4,320	987	107	58	46	322
15	101	107	717	868	378	258	2,740	628	103	54	44	251
16	94	107	503	844	312	281	1,450	490	141	50	43	176
17	88	101	413	1,510	278	885	1,120	403	210	48	47	135
18	84	101	255	1,280	284	661	957	349	277	46	69	107
19	81	92	397	927	281	461	844	315	203	46	49	90
20	79	92	453	1,060	397	409	766	290	139	45	42	82
21	78	92	7,650	4,010	441	600	681	262	115	42	40	78
22	76	88	4,870	6,870	401	1,630	623	239	107	43	41	78
23	72	84	1,880	2,400	981	868	666	322	203	43	52	76
24	72	88	1,420	1,760	613	676	739	328	356	46	52	72
25	72	96	1,110	1,400	466	572	550	286	377	47	63	72
26	68	101	2,340	1,170	425	482	486	239	309	46	45	64
27	65	107	9,240	1,250	351	441	441	215	223	46	44	58
28	63	107	3,170	1,200	322	405	405	198	190	52	45	63
29	94	131	1,800	1,030	------	378	386	190	290	72	42	91
30	1,430	169	1,440	915	------	1,730	362	178	328	118	44	81
31	652	------	1,200	816	------	9,460	------	183	------	98	65	------
TOTAL	8,523	4,972	46,955	45,785	12,392	24,978	50,516	12,291	5,954	2,599	1,937	5,317
MEAN	275	166	1,515	1,477	443	806	1,684	396	198	83.8	62.5	177
MAX	1,430	370	9,240	6,870	981	9,460	5,820	2,330	377	274	174	474
MIN	63	84	84	717	278	258	362	178	103	42	40	58
CFSM	.54	.33	2.97	2.90	.87	1.58	3.30	.78	.39	.16	.12	.35
IN.	.62	.36	3.42	3.34	.90	1.82	3.68	.90	.43	.19	.14	.39

CAL YR 1973 TOTAL 281,830 MEAN 772 MAX 9,240 MIN 28 CFSM 1.51 IN 20.56
WTR YR 1974 TOTAL 222,219 MEAN 609 MAX 9,460 MIN 40 CFSM 1.19 IN 16.21

PEAK DISCHARGE (BASE, 10,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1845	12.75	13,100	3-31	0815	12.91	13,500
12-27	0745	12.63	12,800	4- 4	2215	12.32	12,100
1-22	0130	12.62	12,800				

01574500 Codorus Creek at Spring Grove, Pa.

LOCATION.--Lat 39°52'43", long 76°51'13", York County, on right bank at downstream side of county highway bridge No. 132, 0.1 mi (0.2 km) downstream from unnamed tributary, 0.3 mi (0.5 km) downstream from east boundary of Spring Grove and 7 mi (11 km) southwest of York.

DRAINAGE AREA.--75.5 mi^2 (195.5 km^2). Area of site used prior to Nov. 1, 1965, 74.3 mi^2 (192.4 km^2).

PERIOD OF RECORD.--May 1929 to September 1964, November 1965 to current year. Monthly discharge only for some periods, published in WSP 1302. October 1962 to September 1968, published as West Branch Codorus Creek at Spring Grove.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 430.86 ft (131.326 m) above mean sea level. Prior to Jan. 18, 1930, nonrecording gage, Jan. 18, 1930 to Sept. 9, 1941, water-stage recorder at site 0.9 mi (1.4 km) upstream and Sept. 10, 1941 to Sept. 30, 1964, water-stage recorder at site 0.8 mi (1.3 km) upstream, all at datum 5.64 ft (1.719 m) higher. Nov. 1 to Dec. 20, 1965, nonrecording gage about 40 ft (12 m) downstream from gage at unknown datum, Dec. 21, 1965 to Mar. 31, 1966, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--43 years (1929-64, 1966-74), 77.0 ft^3/s (2.18 m^3/s), 13.85 in/yr (352 mm/yr), adjusted for diversion since March 1961 and, for storage, since 1966.

EXTREMES.--Current year: Maximum discharge, 1,290 ft^3/s (36.5 m^3/s) Dec. 26 (gage height, 6.00 ft or 1.829 m); minimum daily, 30 ft^3/s (0.85 m^3/s) July 9.
Period of record: Maximum discharge, 19,400 ft^3/s (549 m^3/s) June 22, 1972 (gage height, 15.57 ft or 4.746 m, from floodmark in gage shelter), from rating curve extended above 1,300 ft^3/s (36.8 m^3/s) on basis of computations of flow over dam at gage height, 6.80 ft (2.073 m) and at peak flow; no flow part of day Oct. 26, 1947; minimum daily, 0.6 ft^3/s (0.017 m^3/s) Sept. 4, 1966.

REMARKS.--Records good. Daily discharges include water diverted around station by waste treatment plant of P. H. Glatfelter Company. Flow regulated by Lake Marburg about 20 miles (32 km) upstream (see p. 190).

COOPERATION.--Records of change in lake contents and daily diversion furnished by P. H. Glatfelter Company.

REVISONS (WATER YEARS).--WSP 1302: 1929-30, WSP 1502: 1932(M), 1933, 1935(M), 1940, 1942(M), 1943, 1944-46(M), 1951(M), 1955(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	48	36	102	108	63	207	69	55	57	39	42
2	58	41	34	79	137	57	156	62	62	49	39	56
3	58	38	36	87	137	54	126	73	57	43	39	47
4	45	40	36	150	129	52	268	70	49	41	38	66
5	42	44	58	98	120	51	243	62	46	54	51	37
6	39	38	53	89	85	51	228	62	43	56	40	41
7	38	36	38	83	87	55	192	62	41	41	41	81
8	39	39	37	73	87	54	193	57	42	38	46	37
9	41	38	201	75	83	54	330	72	42	30	44	37
10	37	36	75	80	80	57	240	96	40	36	41	40
11	35	36	51	182	80	51	190	66	45	40	37	40
12	42	36	42	158	76	49	180	180	40	47	38	40
13	45	41	40	102	78	51	585	217	38	50	37	67
14	43	39	45	85	80	48	403	90	37	48	39	47
15	42	40	36	83	60	46	331	77	39	47	45	38
16	44	37	35	121	56	51	252	68	99	57	43	39
17	44	34	38	141	57	64	230	64	85	53	46	40
18	41	35	41	104	53	49	198	61	49	47	43	40
19	41	38	34	97	63	46	190	58	45	48	47	39
20	41	40	54	94	77	48	184	56	44	46	45	40
21	41	48	668	480	58	86	175	54	75	47	42	44
22	41	52	184	270	69	74	169	56	59	47	43	50
23	67	37	114	178	71	61	203	66	82	47	56	38
24	44	37	81	143	54	60	173	56	74	50	39	40
25	45	36	64	124	56	55	160	54	55	42	43	37
26	48	36	562	110	55	54	152	49	52	41	46	35
27	39	39	528	117	51	53	151	48	48	49	45	37
28	38	44	192	100	52	50	149	49	53	51	40	47
29	118	42	137	98	------	53	125	48	77	55	40	43
30	74	37	111	86	------	405	72	49	54	53	40	32
31	48	------	97	83	------	531	------	48	------	42	43	------
TOTAL	1,465	1,182	3,758	3,872	2,199	2,533	6,455	2,199	1,627	1,452	1,315	1,317
MEAN	47.3	39.4	121	125	78.5	81.7	215	70.9	54.2	46.8	42.4	43.9
MAX	118	52	668	480	137	531	585	217	99	57	56	81
MIN	35	34	34	73	51	46	72	48	37	30	37	32
MEAN≠	31.7	21.6	157	179	73.8	83.8	220	79.5	56.4	23.1	12.3	26.8
CFSM≠	.42	.29	2.08	2.37	.98	1.11	2.91	1.05	.75	.31	.16	.35
IN.≠	.48	.32	2.40	2.73	1.02	1.28	3.25	1.21	.84	.36	.18	.39

CAL YR 1973 TOTAL 38,958 MEAN 107 MAX 668 MIN 34 MEAN≠ 103 CFSM≠ 1.36 IN.≠ 18.50
WTR YR 1974 TOTAL 29,374 MEAN 80.5 MAX 668 MIN 30 MEAN≠ 80.5 CFSM≠ 1.07 IN.≠ 14.46

≠ Adjusted for change in contents in Lake Marburg.

01574800 East Branch Codorus Creek tributary near Winterstown, Pa.

LOCATION.--Lat 39°48'57", long 76°37'59", York County, on right bank 20 ft (6 m) downstream from highway bridge, 1.5 mi (2.4 km) upstream from mouth, and 1.7 mi (2.7 km) southwest of Winterstown.

DRAINAGE AREA.--5.17 mi^2 (13.39 km^2).

PERIOD OF RECORD.--Occasional discharge measurements and annual maximum, water years 1960-68. October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 680 ft (207 m) from topographic map. November 1959 to September 1968, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--6 years, 7.98 ft^3/s (0.226 m^3/s), 20.96 in/yr (532 mm/yr).

EXTREMES.--Current year: Maximum discharge, 89 ft^3/s (2.52 m^3/s) Aug. 22 (gage height, 4.41 ft or 1.344 m); minimum, 1.8 ft^3/s (0.051 m^3/s) Sept. 21; minimum gage height, 2.82 ft (0.860 m) July 21, 22.
Period of record: Maximum discharge, 2,190 ft^3/s (62.0 m^3/s) June 22, 1972 (gage height, 10.44 ft or 3.182 m, from floodmark in gage well), from rating curve extended above 80 ft^3/s (2.27 m^3/s) on basis of slope-area measurement of peak flow; minimum, 1.2 ft^3/s (0.034 m^3/s) July 1, 1969 (gage height, 2.62 ft or 0.799 m).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD Penna 1972: 1969(M), 1970-71(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	3.7	2.9	12	10	5.7	17	8.0	5.0	3.9	3.0	3.1
2	4.3	3.3	2.9	10	9.8	5.7	15	7.7	5.7	3.1	3.7	3.9
3	3.4	3.3	2.8	9.8	9.5	5.4	13	9.2	5.0	3.1	3.3	5.4
4	2.8	3.3	3.0	11	8.9	5.4	30	8.0	4.4	2.8	3.3	5.4
5	2.5	3.5	5.4	9.8	8.3	5.4	34	7.5	4.1	3.0	3.3	3.5
6	2.5	3.3	3.9	9.2	8.0	5.4	23	7.5	3.9	3.0	2.8	3.7
7	2.4	3.3	3.3	9.2	8.3	5.4	19	7.2	3.7	2.8	2.8	7.2
8	2.4	3.3	3.3	8.6	8.3	5.4	17	7.0	3.9	2.7	2.7	4.4
9	2.4	3.3	11	8.6	7.7	5.7	22	7.7	3.7	2.5	2.8	3.7
10	2.4	3.1	5.7	8.3	7.5	5.7	19	8.0	3.5	2.5	2.7	3.3
11	2.3	3.1	4.6	12	7.5	5.2	16	7.0	3.7	2.5	2.5	12
12	2.3	3.1	3.9	12	7.2	5.2	15	14	3.3	2.4	2.4	7.5
13	2.3	3.1	4.1	9.8	7.5	5.0	18	11	3.1	2.2	3.5	7.7
14	2.2	3.1	4.8	9.2	7.5	5.0	21	8.0	3.1	2.2	3.0	6.4
15	2.2	3.1	3.9	9.2	6.7	5.0	18	7.2	3.0	3.0	2.8	4.6
16	2.2	3.0	3.7	9.8	6.4	5.7	16	6.2	3.7	2.7	2.4	4.1
17	2.3	3.0	4.4	11	6.7	5.4	15	5.9	4.1	2.4	2.5	3.9
18	2.2	3.0	4.8	10	6.4	5.2	14	5.7	3.1	2.2	2.4	3.3
19	2.2	3.1	3.7	9.8	6.4	5.2	13	5.4	3.0	2.2	2.4	2.7
20	2.2	3.0	5.7	10	7.2	5.0	12	5.2	3.0	2.1	2.4	2.1
21	2.2	3.0	34	19	6.2	8.9	12	5.0	4.1	2.1	2.2	3.0
22	2.2	3.0	15	21	6.4	6.7	11	5.4	3.7	2.0	10	3.9
23	2.3	3.0	10	18	6.2	5.9	13	6.7	5.7	2.2	8.0	3.1
24	2.2	3.0	8.6	16	5.9	5.9	10	5.2	4.8	2.7	3.3	3.0
25	2.2	3.2	7.7	15	6.2	5.7	9.8	4.8	4.1	2.5	3.0	3.0
26	2.0	3.0	26	14	5.7	5.4	9.2	4.8	4.1	2.4	2.8	2.4
27	2.0	2.8	31	14	5.7	5.4	8.9	5.2	3.9	2.4	2.7	2.6
28	2.2	3.1	19	13	5.7	5.4	8.6	5.7	4.8	2.8	2.5	5.2
29	8.3	3.3	16	12	------	6.7	8.6	4.8	5.0	11	2.5	4.4
30	4.6	3.1	14	11	------	23	8.3	4.8	3.7	6.4	4.6	3.5
31	3.5	------	12	11	------	16	------	4.8	------	3.3	3.3	------
TOTAL	84.0	94.5	281.1	363.3	203.8	202.1	466.4	210.6	119.9	93.1	101.6	132.0
MEAN	2.71	3.15	9.07	11.7	7.28	6.52	15.5	6.79	4.00	3.00	3.28	4.40
MAX	8.3	3.7	34	21	10	23	34	14	5.7	11	10	12
MIN	2.0	2.8	2.8	8.3	5.7	5.0	8.3	4.8	3.0	2.0	2.2	2.1
CFSM	.52	.61	1.75	2.26	1.41	1.26	3.00	1.31	.77	.58	.63	.85
IN.	.60	.68	2.02	2.61	1.47	1.45	3.36	1.52	.86	.67	.73	.95

CAL YR 1973 TOTAL 3,109.6 MEAN 8.52 MAX 34 MIN 1.8 CFSM 1.65 IN 22.37
WTR YR 1974 TOTAL 2,352.4 MEAN 6.44 MAX 34 MIN 2.0 CFSM 1.25 IN 16.93

PEAK DISCHARGE (BASE, 75 CFS).--Aug. 22 (2230) 89 cfs (4.41 ft).

01575000 South Branch Codorus Creek near York, Pa.

LOCATION.--Lat 39°55'14", long 76°44'57", York County, on right bank 100 ft (30 m) downstream from dam at pumping station of York Water Co., 200 ft (60 m) upstream from Penn Central Railroad Bridge, 0.5 mi (0.8 km) upstream from mouth, and 3 mi (4.8 km) southwest of York.

DRAINAGE AREA.--117 mi^2 (303 km^2).

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only prior to October 1931, published in WSP 1302. May 1925 to September 1927 (gage heights and discharge measurements only) in reports of Pennsylvania Department of Forests and Waters.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 373.03 ft (113.700 m) above mean sea level, adjustment of 1907. Prior to Aug. 21, 1928, nonrecording gage at site 180 ft (55 m) upstream at datum 5.00 ft (1.524 m) higher. Nonrecording gage June 22, 1972 to Jan. 12, 1973 at present site.

AVERAGE DISCHARGE.--47 years, 130 ft^3/s (3.68 m^3/s), 15.00 in/yr (383 mm/yr), adjusted for diversion and, since October 1966, for storage.

EXTREMES.--Current year: Maximum discharge, 2,490 ft^3/s (70.5 m^3/s) Dec. 21 (gage height, 5.21 ft or 1.588 m); minimum, 2.9 ft^3/s (0.082 m^3/s) July 14, Aug. 16 (gage height, 0.54 ft or 0.165 m).
Period of record: Maximum discharge, 26,700 ft^3/s (756 m^3/s) June 22, 1972 (gage height, 22.62 ft or 6.895 m, from floodmarks), from rating curve extended above 600 ft^3/s (17.0 m^3/s) on basis of slope-area, contracted opening, and contracted-opening and flow-over-road measurements at gage heights, 9.04 ft (2.755 m), 17.97 ft (5.477 m), and of peak flow; no flow at times.

REMARKS.--Records good. Regulation at low flow by pumping plant above station. Some regulation during entire period of record from reservoirs of York Water Company (combined capacity, 2,500,000,000 gal or 9.462 hm^3). Diversion above station for municipal supply of city of York.

REVISIONS (WATER YEARS).--WSP 1302: 1931. WSP 1502: 1932-33, 1941, 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	38	17	194	141	84	383	100	78	64	19	32
2	43	28	16	151	153	73	308	92	100	52	15	90
3	73	26	11	156	143	82	250	143	85	49	22	51
4	38	25	12	220	113	73	589	102	64	41	22	107
5	27	21	51	177	120	62	466	98	55	53	73	39
6	25	21	72	156	102	65	392	98	52	59	19	30
7	23	18	31	136	111	70	327	85	51	45	16	146
8	16	19	27	124	107	72	304	85	56	28	14	77
9	17	20	274	133	100	73	415	111	58	23	14	48
10	16	24	111	136	100	82	308	136	46	22	35	34
11	15	17	64	271	100	64	246	94	55	19	17	163
12	13	17	45	250	94	65	246	211	40	18	8.0	98
13	21	17	43	180	98	62	932	285	40	21	9.2	217
14	20	16	59	158	103	52	661	126	37	17	9.0	85
15	11	17	45	143	85	59	440	109	45	21	18	65
16	18	19	40	172	85	67	348	100	73	40	7.0	40
17	17	15	49	191	89	85	281	85	94	19	22	37
18	12	19	40	161	82	59	267	92	48	11	22	33
19	10	12	32	172	90	61	220	87	40	14	18	25
20	11	17	53	166	120	56	224	77	31	12	23	29
21	10	19	1,770	750	85	115	185	77	148	17	12	41
22	11	17	360	510	96	122	172	67	78	5.5	29	84
23	10	23	230	344	102	82	177	120	103	4.4	140	33
24	8.6	26	158	285	84	77	146	89	126	27	37	18
25	13	26	141	267	80	73	129	80	52	29	21	21
26	12	21	984	214	77	65	131	84	61	20	28	21
27	12	19	1,260	243	69	62	122	69	73	17	21	19
28	8.1	30	369	205	72	64	126	78	64	32	20	39
29	98	28	274	194	------	70	111	64	146	92	18	56
30	143	21	227	166	------	516	107	70	78	100	28	30
31	40	------	191	158	------	1,180	------	67	------	27	48	------
TOTAL	823.7	636	7,056	6,783	2,801	3,792	9,013	3,181	2,077	998.9	804.2	1,808
MEAN	26.6	21.2	228	219	100	122	300	103	69.2	32.2	25.9	60.3
MAX	143	38	1,770	750	153	1,180	932	285	148	100	140	217
MIN	8.1	12	11	124	69	52	107	64	31	4.4	7.0	18
(/)	32.1	30.1	29.7	30.8	31.1	30.8	31.3	31.0	31.4	33.8	32.6	31.6
MEAN≠	58.7	51.3	258	250	131	153	331	134	101	66.0	58.5	91.9
CFSM≠	.50	.44	2.21	2.14	1.12	1.31	2.83	1.15	.86	.56	.50	.79
IN.≠	.58	.49	2.55	2.47	1.17	1.51	3.16	1.33	.96	.65	.58	.88

CAL YR 1973 TOTAL 54,476.7 MEAN 149 MAX 1,770 MIN 7.5 MEAN≠ 180 CFSM≠ 1.54 IN.≠ 20.97
WTR YR 1974 TOTAL 39,773.8 MEAN 109 MAX 1,770 MIN 4.4 MEAN≠ 140 CFSM≠ 1.20 IN.≠ 16.33

/ Diversion for municipal supply of city of York and change in contents in reservoirs of York Water Co., equivalent in cubic feet per second; furnished by York Water Co.
≠ Adjusted for diversion and change in reservoir contents.

01575500 Codorus Creek near York, Pa.

LOCATION.--Lat 39°56'46", long 76°45'20", York County, on left bank 0.5 mi (0.8 km) upstream from Richland Avenue Bridge, 2 mi (3 km) downstream from South Branch Codorus Creek and 2 mi (3 km) southwest of York.

DRAINAGE AREA.--222 mi^2 (575 km^2).

PERIOD OF RECORD.--August 1940 to current year. October 1915 to August 1923, August 1926 to September 1932 (gage heights, and discharge measurements only) in reports of Pennsylvania Department of Forests and Waters. Published as "at York" 1915-32.

GAGE.--Water-stage recorder. Datum of gage is 356.39 ft (108.628 m) above mean sea level (Corps of Engineers benchmark). Prior to Sept. 30, 1932, nonrecording gage at site 1.6 mi (2.6 km) downstream at different datum.

AVERAGE DISCHARGE.--34 years, 238 ft^3/s (6.74 m^3/s), 14.56 in/yr (370 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,940 ft^3/s (83.3 m^3/s) Dec 27 (gage height, 8.13 ft or 2.478 m); minimum, 47 ft^3/s (1.33 m^3/s) Oct. 11, Aug. 12; minimum gage height, 1.99 ft (0.067 m) Oct. 11.
Period of record: Maximum discharge, 30,000 ft^3/s (850 m^3/s) June 22, 1972 (gage height, 26.36 ft or 8.035 m, from floodmark in gage shelter), from rating curve extended above 6,000 ft^3/s (170 m^3/s); minimum, 3.0 ft^3/s (0.085) m^3/s) Oct. 25, 1966 (gage height, 1.40 ft or 0.427 m), result of upstream shutoff.

REMARKS.--Records fair. Regulation at low flow by mills and pumping plant above station. Diversion above station for municipal supply of city of York. Flood flows regulated by Indian Rock Reservoir 2.1 mi (3.4 km) upstream (see p. 190) and by three reservoirs (combined capacity, 21,385 mil gal or 80.94 hm^3).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	114	74	341	279	161	763	220	145	139	67	93
2	126	96	72	271	323	159	585	210	170	118	64	189
3	203	84	70	266	323	157	469	220	163	103	70	126
4	116	83	70	438	282	147	926	260	124	88	71	235
5	88	81	90	332	279	139	843	192	112	109	143	103
6	79	84	120	287	228	135	779	191	105	131	71	88
7	75	75	88	261	228	145	637	178	98	100	62	282
8	67	75	71	233	223	143	574	171	105	76	70	157
9	71	75	651	248	216	149	879	204	105	67	68	107
10	71	79	333	243	214	161	688	285	91	65	88	90
11	70	70	172	515	205	139	539	196	102	57	64	233
12	68	71	122	501	191	137	517	365	84	67	54	172
13	81	73	109	332	200	133	1,380	668	84	75	57	335
14	81	75	131	282	212	124	1,340	261	78	67	52	163
15	68	73	112	261	172	126	895	214	84	70	70	133
16	76	65	98	309	163	135	731	189	191	95	55	98
17	78	65	112	396	168	176	596	163	210	78	79	93
18	70	65	95	306	157	135	556	168	116	62	81	90
19	68	68	90	304	168	129	486	155	98	64	76	76
20	62	75	128	298	231	127	488	141	88	61	84	81
21	62	88	2,300	1,120	174	183	425	137	228	64	61	91
22	62	83	719	1,050	183	274	412	129	189	55	84	159
23	84	68	424	653	207	174	497	200	185	54	282	88
24	71	76	295	533	161	161	392	166	253	81	98	64
25	64	68	250	483	159	153	350	145	122	79	78	68
26	65	65	1,170	401	155	145	320	141	122	64	95	65
27	67	66	1,890	435	141	139	290	129	133	65	83	59
28	54	72	698	372	145	139	270	137	122	88	71	100
29	208	80	522	356	------	139	250	120	263	163	67	129
30	436	78	372	309	------	633	240	129	163	183	86	79
31	112	------	335	284	------	2,010	------	124	------	81	105	------
TOTAL	3,006	2,290	11,783	12,420	5,787	7,007	18,117	6,208	4,133	2,669	2,556	3,846
MEAN	97.0	76.3	380	401	207	226	604	200	138	86.1	82.5	128
MAX	436	114	2,300	1,120	323	2,010	1,380	668	263	183	282	335
MIN	54	65	70	233	141	124	240	120	78	54	52	59
(/)	16.4	12.2	66.4	85.4	25.8	34.6	33.7	39.6	33.5	10.2	2.6	14.5
MEAN	113	88.5	446	486	233	261	638	240	172	96.3	85.1	142
CFSM≠	.51	.40	2.01	2.19	1.05	1.18	2.87	1.08	.77	.43	.38	.64
IN.≠	.59	.45	2.32	2.52	1.09	1.36	3.20	1.24	.86	.50	.44	.71

CAL YR 1973	TOTAL 109,213	MEAN 299	MAX 2,300	MIN 54	MEAN≠ 326	CFSM≠ 1.47	IN.≠ 19.97
WTR YR 1974	TOTAL 79,822	MEAN 219	MAX 2,300	MIN 52	MEAN≠ 250	CFSM≠ 1.13	IN.≠ 15.28

/ Diversion for municipal supply of city of York and change in contents in reservoirs, equivalent in cubic feet per second. Records of diversion and change in contents in four reservoirs furnished by P. H. Glatfelter Co., York Water Co., and Corps of Engineers.
≠ Adjusted for diversion and change in reservoir contents.

01576000 Susquehanna River at Marietta, Pa.

LOCATION.--Lat 40°03'16", long 76°31'52", Lancaster County, on left bank, 420 ft (128 m) upstream from Chickies Creek and 1 mi (2 km) downstream from Marietta. Records include flow of Chickies Creek.

DRAINAGE AREA.--25,990 mi^2 (67,310 km^2), approximately, includes that of Chickies Creek.

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

GAGE.--Water-stage recorder. Datum of gage is 200.56 ft (61.131 m) above mean sea level.

AVERAGE DISCHARGE.--43 years, 36,060 ft^3/s (1,020 m^3/s), 18.84 in/yr (479 mm/yr).

EXTREMES.--Current year: Maximum discharge, 218,000 ft^3/s (6,170 m^3/s) Dec. 29 (gage height, 46.08 ft or 14.045 m); minimum, 4,840 ft^3/s (137 m^3/s) Aug. 29 (gage height, 32.51 ft or 9.909 m).
Period of record: Maximum discharge, 1,080,000 ft^3/s (30,600 m^3/s) June 23, 1972 (gage height, 64.54 ft or 19.672 m, from floodmarks); minimum, 618 ft^3/s (17.5 m^3/s) Sept. 26, 1932 (gage height, 30.89 ft or 9.415 m), when York Haven powerplant was shut down in order to obtain current-meter measurements at low water; minimum daily, 1,380 ft^3/s (39.1 m^3/s) Sept. 26, 1932.
Maximum stage known prior to 1931, 58.3 ft (17.8 m) June 2, 1889, from floodmark (discharge, about 630,000 ft^3/s or 18,000 m^3/s).

REMARKS.--Records excellent except those for winter periods, which are good. Discharge below 8,000 ft^3/s (227 m^3/s) regulated by Metropolitan Edison Co., plant at York Haven. Accuracy of records for entire period has been verified independently by Pennsylvania Power and Light Co., and Safe Harbor Water Power Corp. by comparison with records obtained at Safe Harbor, Holtwood, and Conowingo powerplants below station. Records of water quality for the current year are published in Part 2 of this report.

COOPERATION.--Gage-height record furnished by Safe Harbor Water Power Corp.

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 1502: 1937.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16,600	58,900	52,800	130,000	109,000	46,400	95,900	28,100	21,600	22,600	17,700	11,000
2	16,600	53,900	48,800	106,000	92,400	43,100	99,600	26,600	22,300	38,100	16,700	16,000
3	16,600	50,400	42,000	87,900	78,900	41,500	104,000	29,500	24,100	67,800	20,400	25,000
4	16,100	42,800	36,500	78,400	68,600	40,500	153,000	32,100	25,000	58,100	19,400	29,000
5	16,600	37,700	33,100	68,500	58,500	41,300	207,000	32,000	22,900	44,700	19,200	39,000
6	15,100	33,000	33,400	59,100	49,400	44,300	201,000	31,500	20,800	33,500	17,600	43,000
7	15,000	30,200	62,100	52,200	44,500	61,200	175,000	30,300	18,700	29,300	14,800	36,000
8	15,800	28,200	66,700	46,200	39,800	75,800	142,000	29,100	16,900	31,800	13,300	31,000
9	15,800	26,300	67,300	41,900	35,200	74,400	121,000	28,500	15,700	31,200	11,900	27,000
10	15,300	24,600	84,600	38,500	32,800	92,400	111,000	28,000	14,800	26,500	10,400	23,000
11	14,600	23,900	109,000	36,500	30,000	137,000	99,700	27,800	14,600	23,200	10,500	20,000
12	13,900	22,700	112,000	35,000	28,000	134,000	87,400	29,700	13,300	21,600	10,400	18,000
13	12,300	22,600	94,300	37,000	29,000	107,000	85,600	42,000	13,200	19,600	9,400	16,500
14	11,500	23,200	77,500	35,000	30,000	86,700	97,900	68,400	13,100	17,100	8,860	17,500
15	10,900	22,900	65,700	34,000	29,700	71,200	105,000	95,200	12,300	14,900	8,390	18,000
16	10,400	22,000	57,700	33,000	28,400	60,700	107,000	93,200	12,500	14,500	8,080	17,000
17	10,200	19,300	51,300	35,400	26,700	54,500	119,000	76,400	16,000	13,800	7,800	16,300
18	9,780	17,800	44,500	42,900	25,400	48,900	103,000	61,400	22,900	13,400	8,100	15,400
19	9,820	17,100	39,000	45,100	24,700	48,600	84,200	52,100	25,800	14,300	7,650	14,300
20	9,260	17,200	35,200	46,700	24,800	48,200	71,400	44,900	23,600	12,200	7,460	13,100
21	9,070	17,200	59,300	54,900	23,900	46,100	62,500	44,000	22,300	11,300	6,840	12,700
22	8,830	15,800	167,000	88,100	23,200	50,300	56,300	41,200	20,100	11,000	7,010	12,500
23	9,020	14,100	187,000	116,000	28,100	55,900	50,500	36,900	18,700	10,000	7,670	14,000
24	8,690	14,900	150,000	126,000	59,300	59,300	46,800	33,500	19,300	9,890	7,070	20,200
25	8,120	14,300	117,000	122,000	104,000	55,300	43,000	29,900	19,800	9,650	6,850	22,800
26	8,120	14,300	96,800	122,000	85,000	52,100	39,500	28,200	19,400	9,170	6,930	21,500
27	8,660	16,500	110,000	103,000	67,700	49,600	37,800	27,500	18,700	9,210	6,750	20,000
28	11,300	27,800	155,000	90,000	55,400	45,400	35,100	26,100	19,500	9,770	6,410	18,000
29	15,200	35,700	212,000	98,900	------	41,400	32,600	24,900	21,000	10,700	5,850	17,500
30	21,600	45,200	195,000	128,000	------	41,000	30,400	23,500	22,100	12,200	6,820	17,000
31	41,600	------	160,000	127,000	------	71,400	------	22,300	------	16,000	7,940	------
TOTAL	422,370	810,500	2,822.6M	2,265.2M	1,332.4M	1,925.5M	2,804.2M	1,224.8M	571,000	667,090	324,180	622,300
MEAN	13,620	27,020	91,050	73,070	47,590	62,110	93,470	39,510	19,030	21,520	10,460	20,740
MAX	41,600	58,900	212,000	130,000	109,000	137,000	207,000	95,200	25,800	67,800	20,400	43,000
MIN	8,120	14,100	33,100	33,000	23,200	40,500	30,400	22,300	12,300	9,170	5,850	11,000
CFSM	.52	1.04	3.50	2.81	1.83	2.39	3.60	1.52	.73	.83	.40	.80
IN.	.60	1.16	4.04	3.24	1.91	2.76	4.01	1.75	.82	.95	.46	.89

CAL YR 1973 TOTAL 16,331,870 MEAN 44,740 MAX 213,000 MIN 7,450 CFSM 1.72 IN 23.38
WTR YR 1974 TOTAL 15,792,140 MEAN 43,270 MAX 212,000 MIN 5,850 CFSM 1.66 IN 22.60

01576500 Conestoga River at Lancaster, Pa.
(Formerly published as Conestoga Creek at Lancaster)

LOCATION.--Lat 40°03'00", long 76°16'39", Lancaster County, on left bank at Penn Central Railroad bridge, 50 ft (15 m) downstream from small tributary, 500 ft (150 m) downstream from diversion dam at city water works, and 0.75 mi (1.21 km) east of Lancaster.

DRAINAGE AREA.--324 mi^2 (839 km^2).

PERIOD OF RECORD.--September 1928 to March 1932; August, September 1932; April 1933 to current year. Monthly discharge only for some periods, published in WSP 1302.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 245.63 ft (74.868 m) above mean sea level. Prior to May 1, 1933, at site 600 ft (183 m) upstream at different datum, excluding small tributary.

AVERAGE DISCHARGE.--44 years, (1928-31, 1933-74), 386 ft^3/s (10.9 m^3/s), 16.18 in/yr (411 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,180 ft^3/s (175 m^3/s) Dec. 21 (gage height, 9.12 ft or 2.780 m), from rating curve extended as explained below: minimum daily, 84 ft^3/s (2.39 m^3/s) Sept. 20, 25.
Period of record: Maximum discharge, 88,300 ft^3/s (2,500 m^3/s) June 23, 1972 (gage height, 27.80 ft or 8.473 m, from floodmark), from rating curve extended above 4,000 ft^3/s (113 m^3/s) on basis of slope-area measurement at gage height, 17.52 ft (5.340 m) and contracted-opening measurement of peak flow; probably no flow at times: minimum daily discharge, 7 ft^3/s (0.20 m^3/s) Aug. 11, 1930.

REMARKS.--Records poor. Regulation at low flow by waterworks and mill above station. Diversion above station for municipal supply of city of Lancaster. Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1202: Drainage area. WSP 1502: 1943(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	225	134	800	680	355	1,010	436	294	216	136	120
2	160	204	126	700	640	361	852	414	313	194	121	260
3	184	169	116	600	580	353	802	465	298	177	118	244
4	181	160	111	800	530	323	1,620	484	266	169	211	659
5	160	158	211	640	484	308	1,560	413	249	164	1,230	210
6	147	149	757	560	480	288	1,370	391	235	172	249	141
7	136	144	279	510	492	285	1,020	408	226	170	172	367
8	134	139	197	480	482	283	927	377	220	156	152	317
9	134	136	534	460	442	323	1,380	372	222	151	149	184
10	136	131	822	450	425	467	1,100	583	213	145	139	155
11	134	131	381	470	437	366	857	464	214	145	136	136
12	131	128	288	500	404	310	788	574	195	138	134	126
13	130	126	247	460	412	289	1,260	1,730	188	130	119	134
14	125	121	347	430	424	276	1,300	682	201	132	119	166
15	125	121	314	440	387	276	1,790	546	204	128	112	155
16	120	131	255	430	361	285	1,050	483	222	127	112	114
17	120	121	259	460	361	516	911	444	305	116	141	105
18	120	114	221	430	344	364	845	414	218	115	405	98
19	120	116	224	410	340	306	796	383	191	115	163	88
20	120	119	233	400	468	299	762	362	181	113	131	84
21	120	116	4,370	1,000	390	509	699	340	175	116	121	86
22	115	114	1,930	1,400	362	842	668	327	173	126	294	124
23	115	114	1,020	1,200	461	463	676	383	262	98	373	105
24	115	119	800	1,100	351	415	630	388	395	115	128	86
25	114	119	740	960	332	382	585	328	277	138	119	84
26	112	128	1,100	800	325	356	539	305	256	140	119	110
27	109	126	2,500	900	306	351	509	289	220	122	120	130
28	107	128	1,700	820	312	334	486	300	218	132	110	240
29	276	229	1,300	860	------	331	473	289	314	180	120	400
30	944	166	1,000	780	------	510	455	290	259	250	150	180
31	303	------	840	720	------	1,960	------	280	------	196	150	------
TOTAL	5,222	4,202	23,356	20,970	12,012	13,086	27,720	13,944	7,204	4,586	6,053	5,408
MEAN	168	140	753	676	429	422	924	450	240	148	195	180
MAX	944	229	4,370	1,400	680	1,960	1,790	1,730	395	250	1,230	659
MIN	107	114	111	400	306	276	455	280	173	98	110	84
(/)	7.7	8.0	6.1	10.9	11.1	7.9	2.8	2.4	6.7	8.2	9.5	9.7
MEAN≠	176	148	759	687	440	430	927	452	247	156	204	190
CFSM≠	.54	.46	2.34	2.12	1.36	1.33	2.86	1.40	.76	.48	.63	.59
IN.≠	.62	.51	2.70	2.44	1.42	1.53	3.19	1.61	.85	.55	.73	.66

CAL YR 1973 TOTAL 206,975 MEAN 567 MAX 4,580 MIN 107 MEAN≠ 575 CFSM≠ 1.77 IN.≠ 24.07
WTR YR 1974 TOTAL 143,763 MEAN 394 MAX 4,370 MIN 84 MEAN≠ 402 CFSM≠ 1.24 IN.≠ 16.81

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1915	9.12	6,180	4- 4	1815	6.92	3,170
12-27	Unk.	Unk.	Unk.	4-15	0815	6.67	2,870
3-31	0645	6.67	2,870	5-13	0430	6.74	2,960

/ Diversion above station for municipal supply, equivalent in cubic feet per second, furnished by city of Lancaster.
≠ Adjusted for diversion.

01578400 Bowery Run near Quarryville, Pa.

LOCATION.--Lat 39°53'41", long 76°06'50", Lancaster County, on left bank at single-span bridge, 1.1 mi (1.8 km) upstream from mouth and 2.5 mi (4.0 km) east of Quarryville.

DRAINAGE AREA.--5.98 mi^2 (15.49 km^2).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 468.08 ft (142.671 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 7.07 ft^3/s (0.200 m^3/s), 16.06 in/yr (408 mm/yr).

EXTREMES.--Current year: Maximum discharge, 629 ft^3/s (17.8 m^3/s) Dec. 20 (gage height, 5.95 ft or 1.814 m), from rating curve extended as explained below; minimum, 2.9 ft^3/s (0.082 m^3/s) Aug. 12, 14, 15, 16, 17, 24, 25, 28, 29, Sept. 27; minimum gage height, 3.08 ft (0.939 m) on many days.
Period of record: Maximum discharge, 2,220 ft^3/s (62.9 m^3/s) July 3, 1964 (gage height, 7.7 ft or 2.35 m, from floodmark) from rating curve extended above 150 ft^3/s (4.25 m^3/s) on basis of slope-area measurement at peak flow; minimum, 1.0 ft^3/s (0.028 m^3/s) Sept. 1, 2, 3, 4, 9, 10, 11, 12, 1966; minimum gage height, 2.32 ft (0.707 m) July 6, 1963.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	4.8	3.5	11	7.0	7.4	13	6.3	8.2	6.0	3.5	3.3
2	4.8	4.1	3.5	7.4	7.8	6.7	12	6.3	7.8	5.4	3.8	4.8
3	4.8	3.8	3.5	12	7.4	6.7	10	8.6	6.7	4.8	3.8	6.0
4	4.5	3.5	3.5	17	7.0	6.3	17	7.0	6.0	4.8	4.3	5.4
5	4.2	4.0	36	8.7	6.0	6.0	19	6.6	6.0	5.1	4.3	3.5
6	3.9	3.8	8.2	8.2	6.0	6.0	11	6.6	5.7	4.8	3.5	3.8
7	3.9	3.8	5.1	8.2	7.4	6.0	9.6	6.3	5.7	4.6	3.5	12
8	3.9	3.8	4.8	6.7	6.7	5.7	15	6.3	5.7	4.3	3.5	4.3
9	3.9	4.0	23	7.0	6.7	6.7	26	10	5.7	4.3	3.5	3.8
10	3.9	3.8	7.4	7.8	6.3	7.0	12	15	5.4	4.3	3.5	3.5
11	3.9	3.5	5.7	22	6.3	5.7	10	7.4	5.1	4.0	3.3	3.5
12	4.2	3.8	5.1	13	6.7	5.7	9.6	48	5.4	4.0	3.1	3.5
13	3.9	3.8	7.8	8.2	7.8	5.4	36	15	5.1	4.0	3.3	3.8
14	3.9	4.0	10	7.4	7.4	5.1	14	9.6	5.1	3.8	3.1	4.6
15	3.9	4.0	5.7	7.4	6.3	5.7	12	8.2	5.1	4.3	3.1	3.5
16	4.2	3.8	5.1	9.1	6.0	11	11	7.4	7.8	4.3	3.1	3.3
17	3.9	3.5	5.7	11	6.3	7.8	9.6	7.0	5.4	3.8	17	3.3
18	3.9	3.8	5.1	7.4	6.0	6.0	9.1	6.6	5.1	4.0	4.3	3.3
19	3.9	3.8	4.8	9.6	10	6.0	9.1	6.6	4.8	4.0	3.5	3.3
20	3.9	3.5	70	8.2	10	5.7	8.7	6.3	5.7	3.5	3.5	3.3
21	3.9	3.8	86	44	7.0	21	8.7	6.0	17	3.5	3.3	3.8
22	3.9	3.8	13	31	9.1	8.7	8.2	6.3	6.0	3.5	3.3	3.5
23	3.9	3.5	9.6	23	7.0	7.4	14	9.1	18	3.5	3.3	3.3
24	3.6	3.8	7.8	18	6.3	6.7	8.6	6.6	7.0	4.6	3.3	3.3
25	3.6	3.8	7.0	15	7.0	6.3	7.8	6.3	16	4.0	3.1	3.3
26	3.9	3.5	93	14	6.7	6.0	7.4	6.0	6.7	3.8	3.5	3.1
27	3.9	4.0	23	13	6.7	6.0	7.0	6.3	6.3	3.8	3.3	3.1
28	3.9	8.6	13	11	7.4	6.0	7.0	7.0	17	3.5	3.1	24
29	43	4.6	11	10	------	8.2	6.6	6.3	9.1	4.8	3.3	6.0
30	6.3	3.8	9.6	9.2	------	44	6.6	6.0	6.3	7.0	3.8	4.0
31	4.3	------	9.1	8.0	------	26	------	6.0	------	3.8	3.3	------
TOTAL	165.8	120.1	505.6	393.5	198.3	274.9	355.6	273.0	226.9	133.9	121.1	143.2
MEAN	5.35	4.00	16.3	12.7	7.08	8.87	11.9	8.81	7.56	4.32	3.91	4.77
MAX	43	8.6	93	44	10	44	36	48	18	7.0	17	24
MIN	3.6	3.5	3.5	6.7	6.0	5.1	6.6	6.0	4.8	3.5	3.1	3.1
CFSM	.89	.67	2.73	2.12	1.18	1.48	1.99	1.47	1.26	.72	.65	.80
IN.	1.03	.75	3.15	2.45	1.23	1.71	2.21	1.70	1.41	.83	.75	.89

CAL YR 1973 TOTAL 3,748.5 MEAN 10.3 MAX 93 MIN 1.9 CFSM 1.72 IN 23.32
WTR YR 1974 TOTAL 2,911.9 MEAN 7.98 MAX 93 MIN 3.1 CFSM 1.33 IN 18.11

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	1815	5.08	264	1-21	1230	5.04	253
12-20	2230	5.95	629	5-12	1730	5.32	340
12-26	1845	5.09	267				

Lakes and reservoirs in Susquehanna River basin

01534180 STILLWATER RESERVOIR.--Lat 41°41'46", long 75°29'10", Susquehanna County, at Stillwater Dam on Lackawanna River, 0.3 mi (0.5 km) downstream from confluence of East and West Branches, 1.4 mi (2.3 km) south of Uniondale and 3.5 mi (5.6 km) north of Forest City. Drainage area, 37.1 mi^2 (96.1 km^2). Period of record, December 1959 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 2,910 acre-ft (3.59 hm^3) Dec. 22 (elevation 1,590.08 ft or 484.656 m); minimum, 428 acre-ft (0.528 hm^3) Feb. 19 (elevation, 1,572.28 ft or 479.231 m). Extremes for period of record: Maximum contents, 5,860 acre-ft (7.23 hm^3) Apr. 5, 1960 (elevation, 1,603.2 ft or 488.66 m); minimum, 242 acre-ft (0.298 hm^3) Sept. 10, 1960 (elevation, 1,568.85 ft or 478.185 m).

Reservoir formed by an earthfill dam, rock faced, with ungaged concrete spillway at elevation 1,621.00 ft (494.081 m). Storage began in December 1959. Capacity at elevation 1,621.00 ft (494.081 m) is 12,000 acre-ft (14.8 hm^3). Reservoir is used for flood control and municipal water supply. Figures given herein represent total contents. Flood storage is regulated by power-operated slide gate; water supply storage is regulated by a weir formed by stop logs. Records furnished by Corps of Engineers.

01541180 CURWENSVILLE LAKE.--Lat 40°57'13", long 78°31'40", Clearfield County, at Curwensville Dam on West Branch Susquehanna River, 0.7 mi (1.1 km) upstream from State Highway 453, 1.2 mi (1.9 km) south of Curwensville and 2.5 mi (4.0 km) upstream from Anderson Creek. Drainage area, 365 mi^2 (945 km^2). Period of record, November 1965 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 20,730 acre-ft (25.6 hm^3) Nov. 8 (elevation, 1,173.48 ft or 357.677 m); minimum, 1,770 acre-ft (2.18 hm^3) Feb. 4 (elevation, 1,147.30 ft or 349.697 m). Extremes for period of record: Maximum contents, 87,650 acre-ft (108 hm^3) June 25, 1972 (elevation, 1,214.11 ft or 370.061 m); minimum, 252 acre-ft (0.311 hm^3) Nov. 6, 1968 (elevation, 1,136.70 ft or 346.466 m).

Reservoir formed by earthfill dam with excavated chute spillway with concrete control sill at elevation 1,228.00 ft (374.294 m). Storage began in November 1965. Capacity at elevation 1,228.00 ft (374.294 m) is 124,200 acre-ft (153 hm^3). Conservation pool elevation, 1,155.00 ft or 352.044 m (capacity, 4,870 acre-ft or 6.00 hm^3). Reservoir is used for flood control, recreation and study of water quality. Figures given herein represent total contents. Flow regulated by three gates and low-flow by-pass system. Records furnished by Corps of Engineers.

01541340 GLENDALE LAKE.--Lat 40°41'50", long 78°32'15", Cambria County, at Glendale Dam on Beaverdam Run, 1 mi (1.6 km) upstream from Dutch Run, 1.3 mi (2.1 km) southwest of Flinton, 1.9 mi (3.1 km) above mouth, and 3.4 mi (5.5 km) south of Coalport. Drainage area, 41.9 mi^2 (108.5 km^2). Period of record, January 1963 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 27,670 acre-ft (34.1 hm^3) Jan. 22 (elevation, 1,428.48 ft or 435.401 m); minimum, 24,970 acre-ft (30.8 hm^3) Apr. 16, Aug. 26, 27, 28 (elevation, 1,426.78 ft or 434.883 m). Extremes for period of record: Maximum contents, 33,390 acre-ft (41.2 hm^3) June 24, 1972 (elevation, 1,431.63 ft or 436.361 m); minimum, 10,640 acre-ft (13.1 hm^3) Nov. 16, 1965 (elevation, 1,415.53 ft or 431.454 m).

Reservoir formed by an earth and rockfill dam with ungated, concrete spillway at elevation, 1,435.00 ft (437.540 m). Storage began Dec. 1, 1960. Capacity at elevation, 1,435.50 ft (437.540 m) is 41,200 acre-ft (50.8 hm^3) of which 15,900 acre-ft (19.6 hm^3) is controlled storage above elevation 1,427.00 ft or 434.950 m (conservation pool). Dead storage is 25,300 acre-ft (31.2 hm^3). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Outflow is controlled by 72-inch (183 mm) sluice gate and an 8-inch (20 mm) by-pass valve. Records furnished by Pennsylvania Department of Environmental Resources.

01543900 FIRST FORK SINNEMAHONING CREEK RESERVOIR.--Lat 41°24'25", long 78°01'10", Cameron County, at control tower of George B. Stevenson Dam, on First Fork Sinnemahoning Creek, 8 mi (13 km) northeast of Sinnemahoning, and 8 mi (13 km) upstream from mouth. Drainage area, 243 mi^2 (629 km^2). Period of record, January 1956 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level, datum unknown. Extremes for current year: Maximum contents, 3,750 acre-ft (4.62 hm^3) July 1 (elevation, 930.19 ft or 283.522 m); minimum, 37 acre-ft (45,600 m^3) many days in October (elevation, 891.84 ft or 271.833 m). Extremes for period of record: Maximum contents, 62,030 acre-ft (76.5 hm^3) June 26, 1972 (elevation, 1,015.87 ft or 309.637 m); minimum (after first filling), 37 acre-ft (45,600 m^3) many days in October 1973 (elevation, 891.84 ft or 271.833 m).

Reservoir is formed by an earthfill dam. Storage began Jan. 31, 1956. Capacity, 75,800 acre-ft (93.5 hm^3) between elevations 890.00 ft or 271.272 m (sill of outlet gates) and 1,026.00 ft or 312.725 m (crest of spillway). No dead storage. Ordinary minimum (conservation) pool elevation, 920.00 ft or 280.416 m (capacity, 2,000 acre-ft or 2.47 hm^3). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Records furnished by Pennsylvania Department of Environmental Resources.

01544800 KETTLE CREEK LAKE (formerly published as Alvin R. Bush Reservoir).--Lat 41°21'37", long 77°55'27", Clinton County, at control tower of dam on Kettle Creek, 1.1 mi (1.8 km) downstream from Sugar Camp Run and 8.5 mi (13.7 km) upstream from mouth and Westport. Drainage area, 226 mi^2 (585 km^2). Period of record, February 1962 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 3,580 acre-ft (4.41 hm^3) Mar. 13 (elevation 849.65 ft or 258.973 m); minimum, 190 acre-ft (23,400 m^3) Nov. 5 (elevation, 825.00 ft or 251.460 m). Extremes for period of record: Maximum contents, 51,660 acre-ft (63.7 hm^3) June 25, 1972 (elevation, 919.13 ft or 280.151 m); minimum, no storage June 7, 1962.

Reservoir formed by an earthfill embankment, rock faced, with ungated concrete spillway at elevation, 937.0 ft (285.60 m). Storage began Feb. 7, 1962; water in reservoir first reached conservation pool elevation in March 1962. Total capacity at elevation, 937.0 ft (285.60 m) is 75,000 acre-ft (92.5 hm^3). No dead storage. Ordinary minimum (conservation) pool elevation, 840.0 ft or 256.03 m (capacity, 1,590 acre-ft or 1.96 hm^3). Reservoir is used for flood control and recreation. Figures given herein represent total contents. Storage is regulated by three gates and low-flow by-pass system. Records furnished by Corps of Engineers.

Lakes and reservoirs in Susquehanna River basin--Continued

01547480 FOSTER JOSEPH SAYERS LAKE.--Lat 41°02'53", long 77°36'35", Centre County, at Foster Joseph Sayers Dam, on Bald Eagle Creek, 1 mi (1.6 km) upstream from Marsh Creek, and 1.2 mi (1.9 km) south of Blanchard. Drainage area 339 mi^2 (878 km^2). Period of record, March 1971 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 31,520 acre-ft (38.9 hm^3) May 13 (elevation 631.51 ft or 192.484 m); minimum 5,890 acre-ft (7.26 hm^3) Mar. 15 (elevation 609.33 ft or 185.724 m). Extremes for period of record: Maximum contents, 103,900 acre-ft (128 hm^3) June 25, 1972 (elevation 658.41 ft or 200.683 m); minimum, 4,960 acre-ft (6.12 hm^3) Mar. 10, 1971 (elevation 607.74 ft or 185.239 m).

Reservoir formed by an earthfill dam with ungaged concrete ogee weir at elevation 657.00 ft (200.254 m) with abutting concrete gravity walls and partially paved exit channel. Storage began in March 1971. Capacity at elevation 657.00 ft (200.254 m) is 99,100 acre-ft (122 hm^3). Dead storage is 25 acre-ft (30,800 m^3). Ordinary minimum (conservation) pool elevation, 610.00 ft or 185.928 m (capacity, 6,300 acre-ft or 7.77 hm^3). Reservoir used for flood control and recreation. Figures given herein represent total contents. Regulation is accomplished by two gates. Records furnished by Corps of Engineers.

01563100 RAYSTOWN LAKE.--Lat 40°26'06", long 78°00'25", Huntingdon County, at Raystown Dam on Raystown Branch Juniata River, 3.5 mi (5.6 km) south of Huntingdon and 5.7 mi (9.2 km) upstream from mouth. Drainage area, 959 mi^2 (2,484 km^2). Period of record, October 1972 to current year. Gage, recording. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 353,980 acre-ft (436 hm^3) Sept. 14 (elevation 764.31 ft or 232.962 m); minimum, 81,280 acre-ft (100 hm^3) Nov. 21 (elevation, 699.70 ft or 213.269 m). Extremes for period of record: Maximum contents, 353,980 acre-ft (436 hm^3) Sept. 14, 1974 (elevation, 764.31 ft or 232.962 m); minimum (after first filling), 2,240 acre-ft (2.76 hm^3) Mar. 2, 1973 (elevation, 628.8 ft or 191.66 m).

Reservoir is formed by earthfill dam with a gated spillway in right abutment at elevation, 768.6 ft (234.27 m) and an ungated spillway, separate from embankment, at elevation 812.0 ft (247.50 m). Storage began November 1972. Capacity at elevation 768.6 ft (234.27 m) is 383,500 acre-ft (473 hm^3). Capacity at elevation 812.0 ft (247.50 m) is 762,000 acre-ft (940 hm^3). Conservation pool elevation is 786 ft or 240 m. Capacity at elevation 786 ft (240 m) is 514,000 acre-ft or 634 hm^3. Lake is used for flood control, low-flow augmentation, and recreation. Figures given herein represent total contents. Records furnished by Corps of Engineers.

01568400 DeHART RESERVOIR.--Lat 40°27'50", long 76°44'50", Dauphin County, at dam on Clark Creek, 1.8 mi (2.9 km) southeast of Carsonville, and 15.3 mi (24.6 km) upstream from mouth. Drainage area, 21.7 mi^2 (56.2 km^2). Period of record, October 1940 to current year. Staff gage. Datum of gage is at mean sea level (levels by city of Harrisburg). Extremes for current year: Maximum contents, 18,800 acre-ft (23.2 hm^3) Apr. 5, 6, 7, May 13 (elevation, 644.58 ft or 196.468 m); minimum, 14,070 acre-ft (17.3 hm^3) Dec. 4, 5 (elevation, 636.50 ft or 194.005 m). Extremes for period of record: Maximum contents, 19,320 acre-ft (23.8 hm^3) June 24, 1972 (elevation, 645.50 ft or 196.748 m); minimum (after first filling), 4,680 acre-ft (5.77 hm^3) Jan. 2, 1966 (elevation, 613.33 ft or 186.943 m).

Reservoir formed by earthfill dam, with ungated concrete spillway at elevation 644.0 ft or 196.291 m (crest of spillway raised 4 ft (1.22 m) in November 1954). Storage began Jan. 21, 1940. Capacity at elevation 644.00 ft (196.291 m) is 18,480 acre-ft (22.8 hm^3). Reservoir is used for municipal water supply. Figures given herein represent total contents. There are no gates on spillway and regulation is controlled by valves on pipe through dam. Records furnished by city of Harrisburg.

01574390 LAKE MARBURG.--Lat 39°48'26", long 76°52'58", York County, at dam on West Branch Codorus Creek, 0.7 mi (1.1 km) upstream from Codorus Creek and 4.5 mi (7.2 km) south of Spring Grove. Drainage area, 23.2 mi^2 (60.1 km^2). Period of record: October 1972 to current year in reports of Geological Survey; July 1972 to September 1974 in files of P. H. Glatfelter Co., Spring Grove. Records for period December 1966 to June 1972 were lost in the flood of June 1972. Nonrecording gage. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 47,680 acre-ft (58.8 hm^3) many times during April (elevation, 623.0 ft or 189.89 m); minimum, 40,850 acre-ft (50.4 hm^3) Dec. 6 (elevation, 617.33 ft or 188.162 m). Extremes for period of record: Maximum contents, 47,680 acre-ft (58.8 hm^3) many times (elevation, 623.0 ft or 189.89 m); minimum, 40,850 acre-ft (50.4 hm^3) Dec. 6, 1973 (elevation, 617.33 ft or 188.162 m).

Lake is formed by earthfill dam with two bascule spillway gates. Each is 7 ft (2 m) high and 106.5 ft (32.5 m) long. Elevation of top of gates is 623.0 ft (189.89 m). Top of dam is at elevation 627.0 ft (191.11 m). Storage began in December 1966. Capacity at elevation 627.0 ft (191.11 m) is 53,210 acre-ft (65.6 hm^3), at elevation 623.0 ft or 189.89 m (normal pool) is 47,680 acre-ft (58.8 hm^3), and at elevation 616.0 ft or 187.76 m (crest of spillway) is 39,430 acre-ft (48.6 hm^3). Lake is used for water supply and recreation. An average of about 3,376 acre-ft (4.16 hm^3) is diverted from Codorus Creek into the lake each year. Records furnished by P. H. Glatfelter Company.

01574700 INDIAN ROCK RESERVOIR.--Lat 39°55'22", long 76°45'14", York County, at dam on Codorus Creek, 0.1 mi (0.2 km) upstream from mouth of South Branch Codorus Creek, 0.3 mi (0.5 km) west of pumping station of York Water Co., and 3 mi (5 km) southwest of York. Drainage area, 93.7 mi^2 (242.7 km^2). Period of record, September 1962 to current year in reports of Geological Survey, September 1942 to August 1962 in files of Baltimore District, Corps of Engineers. Gage, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 552 acre-ft (0.681 hm^3) Jan. 22 (elevation, 387.02 ft or 117.964 m); minimum, 13 acre-ft (16,000 m^3) Oct. 12 (elevation, 372.37 ft or 113.498 m). Extremes for period of record: Maximum contents, 30,200 acre-ft (37.2 hm^3) June 23, 1972 (elevation, 436.44 ft or 133.027 m); minimum, no storage many times.

Reservoir formed by an earth and rockfill dam with ungated concrete spillway at elevation 435.0 ft (132.59 m). Reservoir completed in June 1942; storage began in June 1946. Capacity at elevation 435.0 ft (132.59 m) is 28,000 acre-ft (34.5 hm^3). No dead storage. Reservoir is used for flood control. Figures given herein represent total contents. Flood storage is regulated by three vertical-lift tractor gates. Water is stored only during high flows and released when downstream conditions warrant. Records furnished by Corps of Engineers.

Lakes and reservoirs in Susquehanna River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01534180 STILLWATER LAKE			01541180 CURWENSVILLE LAKE		
Sept. 30	1,572.84	484	-	1,157.85	6,570	-
Oct. 31	1,573.51	551	+1.1	1,162.07	9,600	+49.3
Nov. 30	1,574.17	617	+1.1	1,161.39	9,080	-8.7
Dec. 31	1,575.24	724	+1.7	1,158.66	7,110	-32.0
CAL YR 1973	-	-	-.1	-	-	+7.2
Jan. 31	1,578.21	1,030	+5.0	1,149.00	2,270	-78.7
Feb. 28	1,572.82	482	-9.9	1,161.34	9,080	+123
Mar. 31	1,573.20	520	+.6	1,161.05	8,820	-4.2
Apr. 30	1,573.73	573	+.9	1,160.59	8,470	-5.9
May 31	1,573.92	592	+.3	1,162.20	9,710	+20.2
June 30	1,573.92	592	0	1,162.13	9,650	-1.0
July 31	1,574.59	659	+1.1	1,161.95	9,500	-2.4
Aug. 31	1,573.59	559	-1.6	1,162.10	9,620	+2.0
Sept. 30	1,576.09	809	+4.2	1,162.30	9,790	+2.9
WTR YR 1974	-	-	+.4	-	-	+4.4
	01541340 GLENDALE LAKE			01543900 F F SINNEMAHONING CR RESERVOIR		
Sept. 30	1,427.84	26,640	-	891.88	38	-
Oct. 31	1,427.59	26,240	-6.5	902.00	420	+6.2
Nov. 30	1,427.76	26,520	+4.7	907.34	787	+6.2
Dec. 31	1,428.04	26,960	+7.2	913.20	1,280	+8.0
CAL YR 1973	-	-	+.7	-	-	-1.0
Jan. 31	1,427.72	26,450	-8.3	919.62	1,950	+10.9
Feb. 28	1,427.57	26,210	-4.3	920.28	2,030	+1.4
Mar. 31	1,427.40	25,940	-4.4	921.98	2,260	+3.7
Apr. 30	1,427.21	25,640	-5.0	921.33	2,170	-1.5
May 31	1,427.35	25,860	+3.6	915.36	1,500	-10.9
June 30	1,427.39	25,920	+1.0	921.50	2,190	+11.6
July 31	1,426.97	25,260	-10.7	920.49	2,060	-2.1
Aug. 31	1,427.01	25,320	+1.0	920.49	2,060	0
Sept. 30	1,427.36	25,880	+9.4	920.57	2,070	+.2
WTR YR 1974	-	-	-1.0	-	-	+2.8
	01544800 KETTLE CREEK LAKE			01547480 FOSTER JOSEPH SAYERS LAKE		
Sept. 30	825.44	210	-	623.00	18,450	-
Oct. 31	826.39	256	+0.7	619.60	14,420	-65.5
Nov. 30	826.32	253	-.1	609.97	6,280	-137
Dec. 31	840.40	1,650	+22.7	610.13	6,380	+1.6
CAL YR 1973	-	-	-.2	-	-	+.3
Jan. 31	841.11	1,760	+1.8	609.83	6,200	-2.9
Feb. 28	841.29	1,790	+.5	610.10	6,360	+2.9
Mar. 31	841.65	1,840	+.8	620.88	15,860	+154
Apr. 30	841.02	1,740	+1.7	625.92	22,390	+110
May 31	840.77	1,710	-.5	630.01	28,820	+105
June 30	841.80	1,870	+2.7	629.92	28,660	-2.7
July 31	841.07	1,750	-2.0	629.91	28,650	-.2
Aug. 31	841.20	1,770	+.3	628.87	26,890	-28.6
Sept. 30	841.04	1,750	-.3	627.55	24,820	-34.8
WTR YR 1974	-	-	+2.1	-	-	+8.8

Lakes and reservoirs in Susquehanna River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	01563100	RAYSTOWN LAKE		01568400	DeHART RESERVOIR	
Sept. 30	747.60	257,660	-	638.67	15,340	-
Oct. 31	742.30	231,710	-422	637.33	14,550	-12.8
Nov. 30	700.30	82,750	-2,503	636.58	14,120	-7.2
Dec. 31	700.80	84,000	+20.3	644.42	18,710	+74.6
CAL YR 1973	-	-	+112	-	-	+.1
Jan. 31	700.80	84,000	0	644.33	18,660	-.8
Feb. 28	700.90	84,250	+4.5	644.25	18,610	-.9
Mar. 31	720.90	144,350	+977	644.25	18,610	0
Apr. 30	743.00	235,000	+1,523	644.08	18,520	-1.5
May 31	751.71	279,430	+723	644.00	18,480	-.7
June 30	759.45	323,700	+744	643.42	18,140	-5.7
July 31	763.64	349,700	+423	641.83	17,210	-15.1
Aug. 31	763.87	351,170	+23.9	640.17	16,240	-15.8
Sept. 30	764.18	353,150	+33.3	640.17	16,240	0
WTR YR 1974	-	-	+132	-	-	+1.2
	01574390	LAKE MARBURG		01574900	INDIAN ROCK RESERVOIR	
Sept. 30	619.3	42,950	-	373.82	27.7	-
Oct. 31	618.4	41,990	-15.6	373.13	19.8	-0.1
Nov. 30	617.4	40,930	-17.8	372.56	14.4	-.1
Dec. 31	619.5	43,160	+36.3	374.58	37.9	+.4
CAL YR 1973	-	-	-3.7	-	-	-.1
Jan. 31	622.1	46,480	+54.0	376.60	72.0	+.6
Feb. 28	621.9	46,220	-4.7	374.78	40.8	-.6
Mar. 31	622.0	46,350	+2.1	379.80	144	+1.7
Apr. 30	622.2	46,620	+4.5	373.19	20.4	-2.1
May 31	622.6	47,150	+8.6	372.92	17.7	0
June 30	622.7	47,280	+2.2	372.15	11.1	-.1
July 31	621.6	45,820	-23.7	372.57	14.5	+.1
Aug. 31	620.2	43,970	-30.1	372.92	17.7	+.1
Sept. 30	619.3	42,950	-17.1	372.82	16.8	0
WTR YR 1974	-	-	0	-	-	0

01603500 Evitts Creek near Centerville, Pa.

LOCATION.--Lat 39°47'23", long 78°38'48", Bedford County, on left bank 2.0 mi (3.2 km) upstream from Thomas W. Koon Dam, 3.0 mi (4.8 km) south of Centerville, 7.0 mi (11.3 km) upstream from Rock Gully Creek, and at mile 16.3 (26.2 km).

DRAINAGE AREA.--30.2 mi^2 (78.2 km^2).

PERIOD OF RECORD.--September 1932 to current year. Prior to October 1952, published as "near Bedford Valley".

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,027.59 ft (313.209 m) above mean sea level, city of Cumberland bench mark.

AVERAGE DISCHARGE.--42 years, 31.3 ft^3/s (0.886 m^3/s), 14.07 in/yr (357 mm/yr).

EXTREMES.--Current year: Maximum discharge, 754 ft^3/s (21.4 m^3/s) Oct. 29 (gage height, 3.26 ft or 0.994 m); minimum, 3.4 ft^3/s (0.10 m^3/s) Sept. 23, 28, 30 (gage height, 1.12 ft or 0.341 m).

Period of record: Maximum discharge, 5,240 ft^3/s (148 m^3/s) Mar. 17, 1936 (gage height, 7.13 ft or 2.173 m), from rating curve extended above 400 ft^3/s (11.3 m^3/s) on basis of slope-area measurements at gage heights 4.64 ft (1.414 m) and 7.13 ft (2.173 m); minimum, 0.70 ft^3/s (0.020 m^3/s) Dec. 17, 1958 (gage height, 0.79 ft or 0.241 m), result of freezeup.

Maximum stage known, about 8 ft (2.4 m), from floodmark, date unknown.

REMARKS.--Records good except those for winter months, which are fair.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	44	26	90	44	30	55	20	59	85	5.8	5.5
2	16	31	23	70	43	30	59	19	83	28	5.8	5.8
3	12	27	22	73	42	30	50	25	57	21	6.0	9.0
4	8.7	22	22	81	37	27	98	20	47	18	6.2	6.2
5	7.5	23	35	59	34	26	76	18	40	40	6.0	4.5
6	6.7	21	40	53	31	25	66	18	34	29	5.3	5.1
7	6.4	18	26	50	32	27	59	17	30	20	5.1	10
8	6.4	17	24	41	30	47	61	16	28	17	5.5	5.8
9	6.4	16	127	43	30	38	100	16	26	15	6.0	4.7
10	6.4	16	106	117	32	55	66	15	23	14	6.2	4.5
11	6.2	14	61	214	26	40	55	15	22	13	5.5	4.4
12	6.2	13	46	143	26	41	54	63	19	11	5.1	4.2
13	6.0	13	41	92	30	38	76	71	17	10	5.3	4.4
14	5.8	13	48	79	29	34	70	43	16	9.8	4.9	4.9
15	5.5	13	38	83	25	32	76	39	17	9.4	4.4	4.4
16	5.5	17	32	96	23	33	59	34	26	9.0	4.2	3.8
17	5.5	13	24	86	23	32	54	33	18	8.4	4.5	3.7
18	5.5	12	20	75	21	28	48	71	15	8.1	4.5	3.7
19	5.3	12	24	85	23	29	46	52	13	7.8	4.2	3.5
20	5.3	11	46	79	30	26	41	44	13	7.2	4.0	3.5
21	5.3	11	119	264	26	41	36	38	13	6.7	3.8	3.7
22	5.3	11	74	171	46	34	35	35	13	6.4	4.2	4.0
23	5.3	11	62	132	38	28	36	40	61	7.2	4.5	3.5
24	5.3	13	54	105	29	26	32	33	42	9.0	4.0	3.4
25	5.1	15	50	89	30	23	29	29	22	7.5	3.8	3.4
26	5.1	14	261	78	29	23	27	26	18	8.7	3.7	3.5
27	5.1	18	442	75	28	22	25	24	16	11	3.7	3.5
28	6.0	77	247	70	28	22	24	22	17	7.8	4.0	3.7
29	362	40	157	70	------	24	23	27	25	7.2	4.4	3.8
30	87	29	120	56	------	66	21	30	16	7.5	5.1	3.5
31	50	------	102	50	------	91	------	29	------	6.4	5.5	------
TOTAL	681.5	605	2,519	2,869	865	1,068	1,557	982	846	466.1	151.2	137.6
MEAN	22.0	20.2	81.3	92.5	30.9	34.5	51.9	31.7	28.2	15.0	4.88	4.59
MAX	362	77	442	264	46	91	100	71	83	85	6.2	10
MIN	5.1	11	20	41	21	22	21	15	13	6.4	3.7	3.4
CFSM	.73	.67	2.69	3.06	1.02	1.14	1.72	1.05	.93	.50	.16	.15
IN.	.84	.75	3.10	3.53	1.07	1.32	1.92	1.21	1.04	.57	.19	.17

CAL YR 1973 TOTAL 15,174.0 MEAN 41.6 MAX 442 MIN 4.4 CFSM 1.38 IN 18.69
WTR YR 1974 TOTAL 12,747.4 MEAN 34.9 MAX 442 MIN 3.4 CFSM 1.16 IN 15.70

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	1115	3.26	754	1-21	1000	2.82	414
12-26	2300	3.12	636				

01613050 Tonoloway Creek near Needmore, Pa.

LOCATION.--Lat 39°53'54", long 78°07'57", Fulton County, on left bank 10 ft (3 m) downstream from bridge on Legislative Route 29015, 0.2 mi (0.3 km) upstream from Foster Creek and 3.5 mi (5.6 km) north of Needmore.

DRAINAGE AREA.--10.7 mi^2 (27.7 km^2).

PERIOD OF RECORD.--Occasional discharge measurements and annual maximum, water years 1963-65. October 1965 to current year.

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 688.94 ft (209.989 m) above mean sea level. Prior to Sept. 2, 1965, crest-stage gage at same site at datum 2.0 ft (0.61 m) higher.

AVERAGE DISCHARGE.--9 years, 12.8 ft^3/s (0.36 m^3/s), 16.25 in/yr (413 mm/yr).

EXTREMES.--Current year: Maximum discharge, 277 ft^3/s (7.84 m^3/s) Oct. 29 (gage height, 5.30 ft or 1.615 m, from crest-stage gage); minimum, 0.05 ft^3/s (0.001 m^3/s) Sept. 24, 25, 27, 28; minimum gage height, 2.61 ft (0.796 m) Sept. 24, 25, 28.

Period of record: Maximum discharge, 1,300 ft^3/s (36.8 m^3/s) June 22, 1972 (gage height, 9.17 ft or 2.795 m), from rating curve extended above 550 ft^3/s (15.6 m^3/s) on basis of contracted-opening measurement of peak flow; no flow on many days.

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--WRD Penna. 1969: 1966-68(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	32	7.2	27	14	9.3	41	6.7	30	14	1.3	.14
2	4.1	21	6.7	21	14	8.7	34	6.2	36	18	1.2	.19
3	9.3	17	6.3	18	13	9.3	29	6.3	36	18	1.3	.30
4	11	14	6.3	18	12	8.2	32	6.3	29	14	1.4	.50
5	9.8	12	7.2	17	10	8.2	35	5.8	21	11	1.4	.50
6	8.2	10	11	17	10	7.2	32	5.4	16	9.8	1.3	.44
7	6.3	8.7	11	15	9.3	7.7	26	5.1	13	8.2	1.2	.55
8	5.1	7.7	11	14	8.2	10	23	5.1	11	6.3	1.1	.67
9	4.4	6.7	21	12	8.2	12	23	4.7	9.3	5.4	1.0	.67
10	3.5	6.3	32	13	7.4	14	22	5.1	7.7	4.7	1.0	.67
11	3.0	5.4	27	18	7.0	14	20	4.7	6.7	4.4	1.0	.61
12	2.5	5.1	22	29	6.8	14	18	25	5.8	3.8	.95	.61
13	2.3	4.7	18	26	6.4	14	24	57	5.1	3.2	.87	.55
14	2.0	4.4	18	21	6.0	12	27	32	4.4	2.7	.80	.55
15	1.8	4.4	16	20	5.8	11	32	24	4.4	2.3	.73	.44
16	1.7	4.4	13	23	5.4	11	29	18	11	2.1	.55	.30
17	1.5	4.1	12	31	5.1	11	26	15	13	2.0	.50	.19
18	1.4	3.8	10	32	4.9	9.3	22	13	13	1.8	.44	.14
19	1.3	3.5	11	29	4.7	8.7	19	11	9.8	1.7	.39	.10
20	1.3	3.2	14	26	5.1	8.2	17	11	8.2	1.5	.34	.08
21	1.3	3.2	58	44	4.7	11	14	8.7	7.2	1.4	.22	.08
22	1.3	3.0	50	68	7.2	14	13	7.7	6.7	1.3	.14	.08
23	1.2	3.0	36	50	11	13	14	8.2	7.7	1.1	.19	.08
24	1.2	3.0	27	36	9.8	13	12	7.7	14	1.3	.22	.07
25	1.1	3.2	22	28	9.6	11	10	7.2	16	1.3	.22	.05
26	1.1	3.2	42	23	9.0	11	9.3	6.3	16	1.3	.16	.07
27	1.0	3.5	132	22	8.4	10	8.2	5.8	15	1.4	.12	.06
28	1.0	4.7	93	19	8.0	9.8	7.7	5.1	13	1.4	.09	.06
29	140	8.2	59	18	------	9.3	7.2	4.7	13	1.3	.08	.19
30	93	7.7	41	17	------	18	7.2	4.7	11	1.7	.08	.08
31	44	------	32	16	------	50	------	5.6	------	1.5	.10	------
TOTAL	369.2	221.1	872.7	768	231.0	377.9	633.6	339.1	410.0	149.9	20.39	9.02
MEAN	11.9	7.37	28.2	24.8	8.25	12.2	21.1	10.9	13.7	4.84	.66	.30
MAX	140	32	132	68	14	50	41	57	36	18	1.4	.67
MIN	1.0	3.0	6.3	12	4.7	7.2	7.2	4.7	4.4	1.1	.08	.05
CFSM	1.11	.69	2.64	2.32	.77	1.14	1.97	1.02	1.28	.45	.06	.03
IN.	1.28	.77	3.03	2.67	.80	1.31	2.20	1.18	1.43	.52	.07	.03

CAL YR 1973 TOTAL 6,074.52 MEAN 16.6 MAX 200 MIN .16 CFSM 1.55 IN 21.12
WTR YR 1974 TOTAL 4,401.91 MEAN 12.1 MAX 140 MIN .05 CFSM 1.13 IN 15.30

PEAK DISCHARGE (BASE, 150 CFS).--Oct. 29 (1300) 277 cfs (5.30 ft); Dec. 27 (0745) 158 cfs (4.63 ft).

01614090 Conococheague Creek near Fayetteville, Pa.

LOCATION.--Lat 39°55'48", long 77°26'23", Adams County, on right bank 20 ft (6 m) downstream from bridge on State Highway 233, 0.3 mi (0.5 km) upstream from Birch Run, 1.3 mi (2.1 km) upstream from Chambersburg Reservoir Dam, 4 mi (6 km) northeast of Fayetteville, and 12 mi (19 km) east of Chambersburg.

DRAINAGE AREA.--5.05 mi^2 (13.08 km^2).

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 1,132.76 ft (345.265 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 6.64 ft^3/s (0.19 m^3/s), 17.86 in/yr (454 mm/yr).

EXTREMES.--Current year: Maximum discharge, 129 ft^3/s (3.65 m^3/s) Apr. 4 (gage height, 2.85 ft or 0.869 m); minimum daily, 0.74 ft^3/s (0.021 m^3/s) Aug. 27.
Period of record: Maximum discharge, 392 ft^3/s (11.1 m^3/s) June 22, 1972 (gage height, 3.45 ft or 1.052 m) from rating curve extended above 75 ft^3/s (2.1 m^3/s) on basis of contracted-opening and flow-over-road measurement of peak flow; minimum, 0.1 ft^3/s (0.003 m^3/s) on many days; minimum gage height, 0.67 ft (0.204 m) Sept. 3, 1966.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	9.7	3.5	22	11	5.6	22	7.8	12	3.2	1.5	3.0
2	8.4	7.6	3.5	18	10	5.3	21	7.3	9.2	2.9	1.5	3.3
3	5.0	7.0	3.5	17	9.7	5.4	18	8.5	7.2	2.7	4.4	8.4
4	3.7	7.9	4.4	17	8.9	5.3	75	7.2	5.9	2.7	3.1	3.2
5	3.2	6.8	9.3	14	8.1	5.1	57	6.6	5.4	2.7	2.0	1.7
6	2.9	6.2	5.6	14	7.7	5.0	41	6.6	5.0	2.5	1.8	1.8
7	2.9	6.1	4.5	13	7.7	5.0	30	6.1	4.8	2.3	1.5	6.2
8	2.8	5.8	4.3	11	7.3	4.5	27	5.8	5.0	2.2	1.4	2.3
9	2.9	5.2	16	11	6.9	5.1	34	7.8	4.6	2.2	1.3	1.8
10	2.9	5.1	12	11	6.2	5.5	23	6.8	4.3	2.3	1.4	1.7
11	2.7	5.0	11	15	6.2	4.3	20	5.7	3.9	2.1	1.5	3.7
12	2.7	4.8	10	13	6.2	4.2	18	19	3.6	2.0	1.3	2.3
13	2.7	5.0	10	10	6.2	4.0	33	16	3.5	1.9	1.2	2.7
14	2.5	4.7	12	9.9	6.2	4.0	25	11	3.5	1.9	1.1	1.8
15	2.4	4.3	9.9	11	5.3	4.0	24	11	8.4	1.8	1.0	1.7
16	2.4	4.3	9.0	14	5.1	6.2	22	10	5.4	1.7	.88	1.6
17	2.3	4.2	9.0	15	5.1	5.9	19	9.8	3.9	1.7	1.5	1.4
18	2.3	4.1	8.0	13	4.8	4.7	18	10	3.4	1.7	2.5	1.2
19	2.3	4.1	7.4	13	5.3	4.7	17	9.4	3.3	1.9	2.1	1.2
20	2.3	4.0	12	13	5.6	4.5	15	8.5	3.6	1.7	1.6	1.2
21	2.2	3.9	28	28	4.8	10	14	8.0	3.8	1.5	1.2	1.4
22	2.1	4.5	19	22	9.7	7.4	13	8.0	11	1.5	1.0	1.5
23	2.1	4.1	18	21	7.3	6.6	17	8.7	7.1	1.6	.94	1.1
24	2.1	4.0	16	19	5.6	6.9	12	9.3	4.7	1.9	.86	1.1
25	2.0	4.0	15	17	5.3	6.6	11	8.1	4.3	1.8	.82	1.1
26	2.0	4.0	33	16	4.9	6.7	10	6.8	3.6	1.7	.78	1.1
27	2.0	4.7	50	17	4.8	6.6	9.5	6.4	4.0	1.8	.74	1.1
28	2.1	5.6	43	15	4.9	6.4	9.1	6.0	4.8	1.6	1.1	1.4
29	33	4.5	34	14	------	6.3	8.6	6.4	3.5	2.4	1.1	1.4
30	16	3.8	28	12	------	19	8.3	6.5	4.6	4.2	3.0	1.1
31	11	------	24	11	------	29	------	7.1	------	1.7	1.6	------
TOTAL	138.5	155.0	472.9	466.9	186.8	209.8	671.5	262.2	157.3	65.8	47.72	64.5
MEAN	4.47	5.17	15.3	15.1	6.67	6.77	22.4	8.46	5.24	2.12	1.54	2.15
MAX	33	9.7	50	28	11	29	75	19	12	4.2	4.4	8.4
MIN	2.0	3.8	3.5	9.9	4.8	4.0	8.3	5.7	3.3	1.5	.74	1.1
CFSM	.89	1.02	3.03	2.99	1.32	1.34	4.44	1.68	1.04	.42	.31	.43
IN.	1.02	1.14	3.48	3.44	1.38	1.55	4.95	1.93	1.16	.48	.35	.48

CAL YR 1973 TOTAL 3,466.90 MEAN 9.50 MAX 50 MIN 1.0 CFSM 1.88 IN 25.54
WTR YR 1974 TOTAL 2,898.92 MEAN 7.94 MAX 75 MIN .74 CFSM 1.57 IN 21.35

PEAK DISCHARGE (BASE, 70 CFS).--Oct. 29 (1600) 77 cfs (2.47 ft); Apr. 4 (1045) 129 cfs (2.85 ft).

03008000 Newell Creek near Port Allegany, Pa.

LOCATION.--Lat 41°53'40", long 78°20'58", McKean County, on right bank at downstream side of concrete bridge, 0.5 mi (0.8 km) upstream from bridge on State Highway 155, and 6.5 mi (10.5 km) northwest of Port Allegany.

DRAINAGE AREA.--7.79 mi^2 (20.18 km^2).

PERIOD OF RECORD.--Annual maximum and occasional discharge measurements, water years 1960-65. October 1965 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 1,450 ft (442 m) from topographic map. Nov. 4, 1959 to Sept. 30, 1965, crest-stage gage at site 60 ft (18 m) upstream and Oct. 1, 1965 to Sept. 30, 1968, water-stage recorder at present site, both at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--9 years, 11.7 ft^3/s (0.331 m^3/s), 20.40 in/yr (518 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,030 ft^3/s (29.2 m^3/s) June 30 (gage height, 5.46 ft or 1.664 m); minimum, 0.17 ft^3/s (0.005 m^3/s) Oct. 14, 16, 25, 26, 27, 28.
Period of record: Maximum discharge, 3,000 ft^3/s (85.0 m^3/s) June 21, 1972 (gage height, 6.40 ft or 1.951 m), from rating curve extended above 590 ft^3/s (16.7 m^3/s); no flow on many days.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.24	12	13	13	11	19	58	7.6	3.7	162	.78	7.2
2	.38	7.9	9.6	9.8	9.7	15	74	6.0	2.3	50	1.1	6.4
3	.67	6.4	8.3	8.0	8.5	19	58	7.6	1.9	28	1.8	88
4	.45	4.8	7.5	7.0	7.1	34	84	6.8	1.6	18	35	37
5	.45	4.3	7.5	5.2	6.8	50	52	6.4	1.3	13	12	20
6	.31	3.8	6.4	4.5	6.0	36	38	7.6	1.2	8.6	6.8	13
7	.31	3.5	5.4	4.0	5.2	29	28	6.8	1.0	6.4	4.4	8.1
8	.27	3.5	4.6	3.5	4.6	39	25	6.8	.89	4.8	3.4	6.0
9	.27	3.8	9.2	3.3	4.2	50	22	7.6	.89	3.9	2.9	4.4
10	.27	3.3	12	3.1	4.1	50	21	7.2	1.5	3.1	2.3	3.4
11	.24	3.1	10	3.0	3.9	36	25	6.4	1.6	2.5	1.8	2.7
12	.24	3.3	8.7	2.8	3.7	28	28	61	1.1	2.1	1.6	2.5
13	.24	3.5	7.7	2.7	4.4	20	33	55	.89	1.8	1.5	2.7
14	.20	3.8	6.6	3.3	5.0	15	124	36	.78	5.0	1.2	2.7
15	.20	4.0	5.6	4.6	3.8	12	94	25	5.2	20	1.0	2.1
16	.24	4.3	4.8	5.6	3.6	20	53	18	54	7.0	.89	1.8
17	.24	3.8	4.4	7.5	3.2	16	34	15	31	4.0	1.8	1.6
18	.31	3.8	4.0	5.9	3.0	13	25	11	17	2.5	1.3	1.9
19	.31	3.5	3.7	16	2.8	13	30	8.1	12	1.8	1.1	1.6
20	.27	3.3	20	12	5.0	12	20	6.4	8.1	1.6	.89	3.4
21	.24	3.1	51	42	4.7	13	17	5.2	5.6	1.2	.67	17
22	.20	3.5	27	37	65	11	17	4.0	4.0	1.1	.67	15
23	.20	3.1	18	70	46	15	17	4.4	2.9	1.3	.56	11
24	.20	4.8	13	49	29	16	15	4.0	2.3	1.6	.45	8.1
25	.20	17	9.6	30	22	14	13	3.1	4.0	1.2	.34	6.8
26	.17	20	52	22	16	12	11	2.7	75	10	.34	5.6
27	.20	17	86	25	14	10	9.6	2.3	25	3.4	3.7	4.0
28	.20	24	45	23	12	9.1	8.1	2.1	16	1.6	2.5	3.4
29	4.8	21	30	21	------	8.6	7.2	2.5	29	1.3	11	4.4
30	27	17	21	16	------	64	7.2	2.1	175	1.2	8.1	7.2
31	11	------	16	14	------	72	------	2.1	------	1.0	6.0	------
TOTAL	50.52	220.2	527.6	473.8	314.3	770.7	1,048.1	346.8	486.75	371.0	117.89	299.0
MEAN	1.63	7.34	17.0	15.3	11.2	24.9	34.9	11.2	16.2	12.0	3.80	9.97
MAX	27	24	86	70	65	72	124	61	175	162	35	88
MIN	.17	3.1	3.7	2.7	2.8	8.6	7.2	2.1	.78	1.0	.34	1.6
CFSM	.21	.94	2.18	1.96	1.44	3.20	4.48	1.44	2.08	1.54	.49	1.28
IN.	.24	1.05	2.52	2.26	1.50	3.68	5.01	1.66	2.32	1.77	.56	1.43

CAL YR 1973 TOTAL 3,259.16 MEAN 8.93 MAX 150 MIN .17 CFSM 1.15 IN 15.56
WTR YR 1974 TOTAL 5,026.66 MEAN 13.8 MAX 175 MIN .17 CFSM 1.77 IN 24.00

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-30	1930	4.14	222	6-30	2000	5.46	1,030
4- 4	0100	4.11	215	8- 4	1145	4.19	235
4-14	1945	5.02	614	9- 3	0745	4.18	233

03010500 Allegheny River at Eldred, Pa.

LOCATION.--Lat 41°57'48", long 78°23'11", McKean County, on right bank at site of former highway bridge, 600 ft (183 m) upstream from bridge on State Highway 346, 1,000 ft (305 m) upstream from Knapp Creek, 0.5 mi (0.8 km) north of Eldred, and at mile 267.8 (430.9 km).

DRAINAGE AREA.--550 mi^2 (1,424 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,416.53 ft (431.758 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 936 cfs (26.51 m^3/s), 23.11 in/yr (587 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,620 ft^3/s (159 m^3/s) Apr. 6 (gage height, 13.62 ft or 4.151 m); minimum, 88 ft^3/s (2.49 m^3/s) Aug. 27 (gage height, 2.09 ft or 0.637 m).
Period of record: Maximum discharge, 65,400 ft^3/s (1,850 m^3/s) June 23, 1972 (gage height, 29.05 ft or 8.854 m from floodmark), from rating curve extended above 21,000 ft^3/s (595 m^3/s) on basis of slope-area measurement at gage height 27.6 ft (8.41 m); minimum, 22 ft^3/s (0.62 m^3/s) Sept. 29, 30, 1959 (gage height, 1.27 ft or 0.387 m).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	277	2,860	1,830	2,140	2,260	1,370	2,830	884	542	3,460	204	300
2	253	2,620	1,520	1,620	1,840	1,290	3,060	796	494	4,060	183	240
3	287	2,030	1,310	1,340	1,580	1,230	3,610	752	377	4,080	206	500
4	299	1,630	1,170	1,180	1,310	1,800	4,400	816	331	2,910	503	2,200
5	267	1,350	1,090	890	1,090	2,630	5,240	720	299	1,730	944	1,670
6	335	1,170	1,060	800	960	2,960	5,490	746	272	1,310	447	1,100
7	280	1,030	871	650	880	2,750	4,680	784	248	987	332	828
8	250	898	739	560	800	2,450	3,640	702	224	767	269	653
9	240	837	737	620	720	3,160	2,680	724	212	630	247	535
10	233	744	1,220	700	660	3,900	2,100	816	211	542	231	457
11	225	653	1,060	600	600	4,320	1,950	740	284	483	202	403
12	213	603	921	500	560	4,110	2,050	1,160	225	424	175	363
13	204	594	843	420	530	3,260	2,110	3,270	193	377	162	398
14	199	580	845	470	500	2,210	2,340	3,700	175	339	154	532
15	213	548	778	520	460	1,670	3,480	3,300	182	600	140	426
16	195	624	648	600	530	1,700	3,760	2,420	1,340	521	128	347
17	189	704	617	680	539	1,940	3,250	1,800	1,550	349	128	306
18	202	613	675	730	433	1,430	2,480	1,560	1,020	305	203	330
19	214	598	856	1,110	422	1,330	2,080	1,230	725	287	168	390
20	208	584	889	1,440	445	1,230	1,760	1,000	602	275	139	312
21	191	550	2,570	1,500	442	1,140	1,440	826	517	240	135	584
22	177	581	3,280	2,780	1,360	1,100	1,300	704	465	213	115	1,480
23	166	567	3,400	2,910	3,190	998	1,420	704	405	204	105	1,120
24	160	541	2,810	3,420	2,780	1,180	1,300	685	355	265	102	903
25	156	1,050	1,640	3,500	2,090	995	1,150	616	323	272	113	764
26	152	1,670	2,020	2,960	1,620	927	1,030	517	669	221	97	683
27	150	1,520	3,570	2,560	1,300	886	932	464	1,220	434	102	597
28	151	1,880	4,320	2,840	1,210	828	848	428	743	332	141	519
29	194	2,330	4,840	2,960	------	781	796	413	917	228	237	492
30	2,200	2,090	4,230	2,970	------	961	764	422	1,380	275	500	683
31	3,120	------	3,150	2,680	------	2,890	------	377	------	272	400	------
TOTAL	11,600	34,049	55,509	48,650	31,111	59,426	73,970	34,076	16,500	27,392	7,212	20,115
MEAN	374	1,135	1,791	1,569	1,111	1,917	2,466	1,099	550	884	233	671
MAX	3,120	2,860	4,840	3,500	3,190	4,320	5,490	3,700	1,550	4,080	944	2,200
MIN	150	541	617	420	422	781	764	377	175	204	97	240
CFSM	.68	2.06	3.26	2.85	2.02	3.49	4.48	2.00	1.00	1.61	.42	1.22
IN.	.78	2.30	3.75	3.29	2.10	4.02	5.00	2.30	1.12	1.85	.49	1.36

CAL YR 1973 TOTAL 368,396 MEAN 1,009 MAX 6,990 MIN 116 CFSM 1.83 IN 24.92
WTR YR 1974 TOTAL 419,610 MEAN 1,150 MAX 5,490 MIN 97 CFSM 2.09 IN 28.38

PEAK DISCHARGE (BASE, 5,000 CFS).--Apr. 6 (0200) 5,620 cfs (13.62 ft).

03011020 Allegheny River at Salamanca, N.Y.

LOCATION.--Lat 42°09'23", long 78°42'56", Cattaraugus County, on left bank 230 ft (70 m) upstream from Main Street bridge in Salamanca, 1.3 mi (2.1 km) downstream from Great Valley Creek, and 1.6 mi (2.6 km) upstream from Little Valley Creek.

DRAINAGE AREA.--1,608 mi^2 (4,165 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,358.00 ft (413.918 m) above mean sea level (Corps of Engineers bench mark). Prior to Sept. 3, 1917, nonrecording gage and Sept. 4, 1917, to Sept. 30, 1964, water-stage recorder at site 7.5 mi (12.1 km) downstream at different datum. Oct. 1, 1964, to Sept. 30, 1967, at present site at datum 0.04 ft (0.012 m) lower.

AVERAGE DISCHARGE.--71 years, 2,766 ft^3/s (78.33 m^3/s) 23.36 in/yr (593.3 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,900 ft^3/s (507 m^3/s) Apr. 4 (gage height, 10.34 ft (3.152 m); minimum, 188 ft^3/s (5.32 m^3/s) Aug. 26-27 (gage height, 3.03 ft (0.924 m).
Period of record: Maximum discharge, 73,000 ft^3/s (2,070 m^3/s) June 23, 1972 (gage height, 24.01 ft (7.318 m) from floodmarks); minimum daily, 79 ft^3/s (2.24 m^3/s) Sept. 10, 11, 1971.

REMARKS.--Records good.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	6,450	4,610	5,490	5,430	3,810	7,610	2,990	1,530	8,130	490	984
2	408	6,300	3,860	4,170	4,400	3,790	11,700	2,880	1,610	7,870	408	970
3	432	5,060	3,340	3,480	3,810	4,320	15,700	2,700	1,230	7,060	490	2,830
4	456	3,920	3,030	3,100	3,320	9,780	17,300	2,880	1,030	5,550	1,240	6,330
5	550	3,200	2,880	2,400	2,790	13,200	16,000	2,630	900	3,680	2,310	4,040
6	530	2,790	2,940	2,200	2,400	11,800	13,700	2,770	816	2,770	1,420	2,650
7	540	2,520	2,610	2,000	2,100	8,880	11,600	2,940	740	2,220	852	2,000
8	456	2,320	2,270	1,800	1,900	7,460	10,400	2,680	680	1,770	640	1,580
9	520	2,220	2,160	1,500	1,700	9,030	8,040	2,790	640	1,470	590	1,280
10	440	2,020	2,790	1,400	1,600	10,500	6,390	3,040	610	1,240	570	1,050
11	400	1,790	2,920	1,300	1,600	9,750	5,950	2,880	690	1,070	480	888
12	376	1,660	2,580	1,200	1,700	9,090	6,620	4,690	710	928	416	804
13	352	1,710	2,380	1,100	1,760	7,520	6,850	12,700	590	804	400	928
14	360	1,860	2,410	1,000	1,980	5,520	7,170	10,700	510	720	490	1,680
15	344	1,820	2,310	1,300	1,640	4,120	10,900	8,390	490	970	368	1,280
16	344	2,230	1,930	1,600	1,360	4,090	10,300	6,420	1,770	1,210	312	900
17	392	2,490	1,630	2,050	1,390	4,840	8,620	5,000	3,830	900	288	740
18	610	2,230	1,100	1,910	1,310	3,790	6,620	4,870	2,770	670	312	750
19	670	2,020	1,710	2,680	1,260	3,580	5,900	3,770	1,980	610	368	750
20	600	1,870	2,090	3,360	1,360	3,300	5,170	3,040	1,600	580	328	740
21	520	1,720	6,510	3,700	1,400	3,160	4,140	2,630	1,320	530	272	1,010
22	448	1,680	7,090	6,970	3,600	3,040	3,720	2,270	1,150	464	256	3,040
23	440	1,640	6,360	8,100	11,300	2,790	4,370	2,070	1,030	448	225	2,860
24	440	1,610	5,610	11,100	8,300	3,140	4,270	2,070	852	500	240	2,220
25	456	2,500	4,120	9,060	6,010	2,920	3,860	1,930	760	530	210	1,860
26	440	4,500	6,480	7,400	4,480	2,670	3,440	1,640	1,170	480	195	1,660
27	408	4,170	14,300	6,770	3,560	2,580	3,080	1,450	2,540	510	240	1,470
28	416	4,530	14,300	7,350	3,320	2,500	2,810	1,310	1,930	720	464	1,260
29	720	5,840	11,700	7,750	------	2,360	2,650	1,390	2,050	530	710	1,370
30	6,100	5,350	9,990	7,140	------	2,410	2,560	1,520	2,740	650	1,440	1,640
31	6,680	------	7,640	6,330	------	8,480	------	1,310	------	590	1,080	------
TOTAL	26,288	90,020	145,650	126,710	86,780	174,220	227,440	110,350	40,268	56,174	18,104	51,564
MEAN	848	3,001	4,698	4,087	3,099	5,620	7,581	3,560	1,342	1,812	584	1,719
MAX	6,680	6,450	14,300	11,100	11,300	13,200	17,300	12,700	3,830	8,130	2,310	6,330
MIN	344	1,610	1,100	1,000	1,260	2,360	2,560	1,310	490	448	195	740
CFSM	.53	1.87	2.92	2.54	1.93	3.50	4.71	2.21	.83	1.13	.36	1.07
IN.	.61	2.08	3.37	2.93	2.01	4.03	5.26	2.55	.93	1.30	.42	1.19

CAL YR 1973 TOTAL 968,794 MEAN 2,654 MAX 18,600 MIN 259 CFSM 1.65 IN 22.41
WTR YR 1974 TOTAL 1,153,568 MEAN 3,160 MAX 17,300 MIN 195 CFSM 1.97 IN 26.69

PEAK DISCHARGE (BASE, 17,000 CFS).--Apr. 4 (1800) 19,700 cfs (10.34 ft).

03011800 Kinzua Creek near Guffey, Pa.

LOCATION.--Lat 41°45'59", long 78°43'08", McKean County, in Allegheny National Forest, on right bank 130 ft (40 m) upstream from bridge on U.S. Highway 219, 0.2 mi (0.3 km) upstream from Wintergreen Run, 1.0 mi (1.6 km) downstream from Pine Run, and 1.5 mi (2.4 km) west of Guffey.

DRAINAGE AREA.--46.4 mi^2 (120.2 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, published as "at Tallyho", water years 1959-65. October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,540 ft (469 m) from topographic map.

AVERAGE DISCHARGE.--9 years, 75.3 ft^3/s (2.132 m^3/s), 22.04 in/yr (560 mm/yr).

EXTREMES.--Current year: Maximum discharge, 830 ft^3/s (23.5 m^3/s) April 15 (gage height, 5.48 ft or 1.670 m); minimum, 8.8 ft^3/s (0.25 m^3/s) Aug. 26, 27 (gage height, 2.43 ft or 0.741 m).
Period of record: Maximum discharge, 5,220 ft^3/s (148 m^3/s) June 22, 1972 (gage height, 8.99 ft or 2.740 m), from rating curve extended above 1,300 ft^3/s (37 m^3/s) on basis of slope-area measurement at gage height 8.33 ft (2.539 m); minimum, 4.0 ft^3/s (0.11 m^3/s) Sept. 2, 3, 1966 (gage height, 2.35 ft or 0.716 m).

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

REVISIONS (WATER YEARS).--WRD Pa. 1968: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	229	107	127	116	127	123	82	134	387	13	21
2	22	169	93	105	102	98	282	61	75	194	12	23
3	26	140	85	90	91	139	264	69	58	158	16	189
4	23	113	79	80	77	206	408	65	51	117	117	105
5	26	96	87	62	60	260	297	55	46	97	61	54
6	22	85	83	50	54	205	238	70	41	78	34	43
7	18	75	67	40	50	175	193	64	37	61	26	39
8	16	67	58	33	47	266	175	57	34	51	23	34
9	16	64	67	40	44	354	150	69	31	43	23	32
10	15	56	74	46	41	326	133	77	30	39	20	28
11	15	51	62	40	38	240	136	62	34	36	18	26
12	15	47	54	30	41	197	150	239	28	31	16	27
13	14	47	53	32	43	154	138	261	24	28	15	40
14	17	44	53	36	48	125	250	199	23	46	14	43
15	16	41	48	40	49	107	425	164	55	123	13	32
16	15	58	41	35	63	169	257	134	173	46	12	25
17	19	51	59	43	35	142	201	171	123	32	28	22
18	24	43	75	50	35	111	164	143	71	28	21	46
19	26	42	59	151	32	111	153	109	55	26	15	32
20	21	39	103	99	38	98	125	94	49	24	15	35
21	19	37	231	156	42	102	105	81	43	21	12	108
22	17	41	135	184	221	86	107	92	40	19	11	116
23	15	37	115	303	206	85	128	102	35	26	11	68
24	15	47	98	281	136	100	105	104	31	31	11	52
25	15	121	89	213	118	78	91	82	45	22	9.9	48
26	14	119	251	172	101	71	78	67	145	19	9.2	46
27	14	100	446	210	90	67	70	59	105	18	9.5	41
28	15	151	311	199	83	65	64	53	64	16	13	40
29	81	150	235	183	------	64	69	59	102	17	48	46
30	376	121	193	154	------	96	66	55	184	18	44	52
31	180	------	153	135	------	158	------	75	------	15	24	------
TOTAL	1,145	2,481	3,664	3,419	2,101	4,582	5,145	3,074	1,966	1,867	714.6	1,513
MEAN	36.9	82.7	118	110	75.0	148	172	99.2	65.5	60.2	23.1	50.4
MAX	376	229	446	303	221	354	425	261	184	387	117	189
MIN	14	37	41	30	32	64	64	53	23	15	9.2	21
CFSM	.80	1.78	2.54	2.37	1.62	3.19	3.71	2.14	1.41	1.30	.50	1.09
IN.	.92	1.99	2.94	2.74	1.68	3.67	4.12	2.46	1.58	1.50	.57	1.21

CAL YR 1973 TOTAL 29,258.0 MEAN 80.2 MAX 1,020 MIN 13 CFSM 1.73 IN 23.46
WTR YR 1974 TOTAL 31,671.6 MEAN 86.8 MAX 446 MIN 9.2 CFSM 1.87 IN 25.39

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	0700	4.84	516	4-15	0030	5.48	830
3- 8	2030	5.12	650	7- 1	0230	5.14	660
4- 4	0530	4.80	500				

03012550 Allegheny River at Kinzua Dam, Pa.

LOCATION.--Lat 41°50'29", long 79°00'44", Warren County, in Allegheny National Forest, on left bank 0.5 mi (0.8 km) downstream from Kinzua Dam, 2.5 mi (4.0 km) east of Hemlock, and at mile 197.6 (317.9 km).

DRAINAGE AREA.--2,180 mi^2 (5,646 km^2). Area at site used prior to Nov. 1, 1964, 2,179 mi^2 (5,644 km^2) and at site used Nov. 1, 1964, to Sept. 30, 1972, 2,223 mi^2 (5,758 km^2).

PERIOD OF RECORD.--October 1935 to current year. Published as "near Kinzua" (sta. 03012500) prior to October 1968 and as "at Warren" (sta. 03012600) October 1968 to September 1972.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft (366 m). Prior to Nov. 1, 1964, water-stage recorder at site 1.0 mi (1.6 km) upstream at different datum. Nov. 1, 1964, to Aug. 4, 1966, nonrecording gage, and Aug. 5, 1966, to Sept. 30, 1972, water-stage recorder at site 6.4 mi (10.3 km) downstream at different datum.

AVERAGE DISCHARGE.--39 years, 3,770 ft^3/s (106.8 m^3/s), 23.48 in/yr (596 mm/yr), adjusted for storage since October 1965.

EXTREMES.--Current year: Maximum discharge, 14,300 ft^3/s (405 m^3/s) May 17 (gage height, 12.19 ft or 3.716 m); minimum daily, 483 ft^3/s (13.7 m^3/s) Dec. 3.
Period of record: Maximum discharge, 60,500 ft^3/s (1,710 m^3/s) Mar. 8, 1956 (gage height, 19.95 ft or 6.081 m, site and datum then in use); minimum not determined.

REMARKS.--Records good. Flow regulated since October 1965 by Allegheny Reservoir 0.5 mi (0.8 km) upstream (see p. 245).

REVISIONS (WATER YEARS).--WSP 1275: 1936-37.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,080	5,030	532	13,400	12,200	2,270	1,680	1,940	2,510	2,000	1,070	894
2	3,440	6,060	532	12,000	12,200	3,950	1,720	1,980	2,510	3,360	1,070	880
3	2,700	6,120	483	10,500	12,000	5,060	1,740	1,900	1,510	5,430	939	908
4	2,720	6,150	659	9,560	12,000	5,140	2,620	1,900	870	4,950	894	908
5	2,490	5,810	986	8,260	10,400	5,340	6,250	1,900	724	7,460	1,390	950
6	2,530	5,920	1,790	8,230	9,380	6,360	9,340	1,940	700	7,230	2,080	1,080
7	2,490	2,960	2,410	8,380	9,340	7,710	10,400	2,250	751	6,470	1,950	1,100
8	2,500	3,280	4,050	8,230	9,460	7,780	10,700	2,620	964	4,090	2,220	1,120
9	2,800	3,140	4,050	8,120	8,940	7,640	11,900	2,620	950	4,160	2,180	2,170
10	2,570	3,910	4,050	8,090	8,860	7,640	13,100	2,620	1,210	3,370	2,990	1,930
11	2,670	3,910	4,030	6,610	9,020	8,580	12,200	2,620	1,620	2,840	894	2,060
12	2,860	3,960	4,050	5,900	8,700	9,660	9,100	2,650	1,880	1,070	1,800	2,280
13	2,470	2,790	4,080	5,760	8,540	9,500	8,300	3,200	1,900	1,360	1,660	3,440
14	2,230	2,920	4,080	5,810	8,500	9,500	8,300	5,950	1,880	1,090	2,090	1,120
15	2,510	2,790	4,080	6,700	7,550	9,500	9,500	9,020	1,880	1,390	936	1,120
16	2,490	2,700	4,050	7,780	5,280	9,380	10,500	11,200	2,140	1,650	1,820	2,680
17	2,730	3,840	2,700	7,710	4,530	9,380	10,500	13,800	1,090	1,520	922	2,340
18	2,650	3,910	1,620	7,670	3,700	9,300	10,500	13,600	648	2,150	908	2,710
19	2,490	3,020	1,720	5,730	2,800	8,420	9,380	12,400	934	738	1,050	2,400
20	2,450	1,650	1,720	3,860	2,190	6,660	8,460	8,540	1,400	922	1,020	2,650
21	2,450	2,770	1,740	4,690	1,380	5,480	7,100	5,900	1,180	922	1,020	2,720
22	2,450	3,670	1,740	5,450	1,450	5,530	5,000	4,750	1,440	992	950	2,590
23	2,450	3,510	2,580	5,500	1,490	5,640	4,200	4,740	1,430	1,050	922	2,430
24	2,470	4,170	4,920	6,770	1,490	5,420	4,220	4,770	1,550	950	1,100	2,550
25	2,540	4,200	5,900	8,900	1,520	5,500	4,220	4,610	1,970	936	908	2,370
26	2,670	1,930	5,900	9,900	1,520	4,430	3,020	4,170	2,520	992	922	2,410
27	2,490	496	5,980	9,780	1,580	3,810	1,820	3,140	2,000	1,120	922	1,840
28	2,510	505	8,980	9,900	1,580	3,790	1,880	1,890	1,490	1,070	880	1,710
29	2,470	496	13,500	11,200	------	3,790	1,840	1,720	1,270	992	868	1,490
30	2,480	505	13,600	12,300	------	2,740	1,900	1,590	1,400	908	908	1,980
31	3,260	------	13,400	12,300	------	1,680	------	1,950	------	1,070	880	------
TOTAL	82,110	102,122	129,912	254,990	177,600	196,580	201,390	143,880	44,321	74,252	40,163	56,830
MEAN	2,649	3,404	4,191	8,225	6,343	6,341	6,713	4,641	1,477	2,395	1,296	1,894
MAX	4,080	6,150	13,600	13,400	12,200	9,660	13,100	13,800	2,520	7,460	2,990	3,440
MIN	2,230	496	483	3,860	1,380	1,680	1,680	1,590	648	738	868	880
MEAN≠	1,239	3,711	5,841	5,685	4,213	7,481	9,953	4,991	1,823	2,357	918	2,319
CFSM≠	.57	1.70	2.68	2.61	1.93	3.43	4.57	2.29	.84	1.08	.42	1.06
IN.≠	.66	1.90	3.09	3.01	2.01	3.95	5.10	2.64	.94	1.25	.48	1.18

CAL YR 1973 TOTAL 1,252,028 MEAN 3,430 MAX 14,600 MIN 464 MEAN≠ 3,592 CFSM≠ 1.65 IN.≠ 22.38
WTR YR 1974 TOTAL 1,504,150 MEAN 4,121 MAX 13,800 MIN 483 MEAN≠ 4,210 CFSM≠ 1.93 IN.≠ 26.21

≠ Adjusted for change in contents in Allegheny Reservoir.

03015000 Conewango Creek at Russell, Pa.

LOCATION.--Lat 41°56'17", long 79°08'00", Warren County, on left bank at highway bridge in Russell, 0.5 mi (0.8 km) upstream from Akeley Run, and 8.0 mi (12.9 km) upstream from mouth.

DRAINAGE AREA.--816 mi^2 (2,113 km^2).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October, November 1939, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1221.77 ft (372.395 m) above mean sea level. Prior to Apr. 10, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 1,457 ft^3/s (41.26 m^3/s), 24.24 in/yr (616 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 6,550 ft^3/s (185 m^3/s) Mar. 10 (gage height, 7.57 ft or 2.307 m); minimum, 128 ft^3/s (3.62 m^3/s) Aug. 26,27(gage height, 2.08 ft or 0.634 m).
Period of record: Maximum discharge, 14,400 ft^3/s (408 m^3/s) Apr. 7, 1947 (gage height, 10.69 ft or 3.258 m); minimum not determined; minimum daily, 57 ft^3/s (1.61 m^3/s) Oct. 17, 1960.
Flood in March 1936 reached a stage of 10.9 ft (3.32 m) from floodmark (discharge, 14,600 ft^3/s or 414 m^3/s).

REMARKS.--Records good. Flow regulated by Chautauqua Lake (see p. 245).

REVISIONS (WATER YEARS).--WSP 1083: 1936 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	969	2,910	3,370	2,230	2,470	3,310	1,560	744	1,980	166	221
2	155	1,220	2,790	2,660	1,930	2,480	3,990	1,630	656	1,320	160	221
3	159	1,180	2,450	2,160	1,670	2,850	4,440	1,460	551	760	156	388
4	162	1,020	2,010	1,810	1,470	3,670	4,960	1,440	478	523	184	808
5	230	801	1,820	1,550	1,360	4,660	5,370	1,350	454	418	233	586
6	292	636	1,820	1,430	1,370	5,120	5,560	1,470	424	364	205	382
7	280	533	1,760	1,350	1,250	5,510	5,540	1,730	388	330	174	281
8	235	470	1,610	1,260	1,280	5,840	5,440	1,700	370	305	163	229
9	206	447	1,490	1,200	1,280	6,390	5,100	1,710	364	286	163	202
10	187	424	1,490	1,140	1,320	6,440	4,720	1,790	310	268	166	184
11	173	398	1,470	930	1,120	5,930	4,410	1,700	290	263	163	174
12	166	385	1,490	870	1,110	5,320	4,290	3,530	277	245	160	174
13	162	407	1,390	810	1,110	4,640	4,080	4,890	268	217	156	205
14	166	468	1,600	750	1,140	3,720	3,900	4,730	259	205	152	245
15	162	472	1,750	710	1,160	2,880	4,130	4,680	259	213	146	217
16	155	557	1,580	947	1,060	2,690	3,810	4,540	320	209	142	195
17	159	1,110	1,290	1,320	1,020	2,800	3,430	4,110	418	198	146	177
18	177	1,160	1,130	1,440	982	2,580	2,910	3,500	400	191	156	181
19	206	999	1,070	2,290	959	2,440	2,630	3,060	340	188	152	188
20	222	902	1,150	2,440	1,040	2,350	2,550	2,660	305	184	150	181
21	218	832	2,940	2,820	881	2,250	2,290	1,890	286	184	153	202
22	202	729	2,940	3,420	2,200	2,180	2,060	1,380	277	177	146	300
23	187	706	2,730	3,600	3,830	2,080	2,180	1,250	259	174	142	346
24	177	633	2,450	3,830	3,540	2,110	2,330	1,210	241	177	146	315
25	166	1,020	2,080	3,630	3,400	2,000	2,440	1,160	233	180	142	263
26	162	1,760	3,010	3,280	3,050	1,920	2,430	1,040	310	180	135	229
27	159	1,770	4,210	2,930	2,380	1,890	2,290	930	516	166	132	209
28	152	2,160	4,240	2,640	1,990	1,880	1,940	704	467	160	160	225
29	187	2,720	4,210	2,770	------	1,810	1,540	616	412	166	241	290
30	632	2,870	4,200	2,660	------	1,970	1,380	728	648	170	259	430
31	951	------	3,970	2,470	------	3,080	------	776	------	170	225	------
TOTAL	7,002	29,758	71,050	64,487	47,132	103,950	105,450	64,924	11,524	10,571	5,174	8,248
MEAN	226	992	2,292	2,080	1,683	3,353	3,515	2,094	384	341	167	275
MAX	951	2,870	4,240	3,830	3,830	6,440	5,560	4,890	744	1,980	259	808
MIN	152	385	1,070	710	881	1,810	1,380	616	233	160	132	174
MEAN≠	243	1,152	2,227	2,050	1,654	3,410	3,560	2,079	395	245	176	282
CFSM≠	.30	1.41	2.73	2.51	2.03	4.18	4.36	2.55	.48	.30	.22	.35
IN.≠	.35	1.57	3.15	2.89	2.11	4.82	4.86	2.94	.54	.35	.25	.39

CAL YR 1973 TOTAL 481,269 MEAN 1,319 MAX 5,420 MIN 145 MEAN≠ 1,318 CFSM≠ 1.62 IN.≠ 21.90
WTR YR 1974 TOTAL 529,270 MEAN 1,450 MAX 6,440 MIN 132 MEAN≠ 1,456 CFSM≠ 1.78 IN.≠ 24.22

≠ Adjusted for change in contents in Chautauqua Lake.

03015280 Jackson Run near North Warren, Pa.

LOCATION.--Lat 41°54'09", long 79°14'21", Warren County, on right bank at downstream side of highway bridge on Creamery Road, 0.6 mi (1.0 km) upstream from Mud Run, and 5 mi (8 km) northwest of North Warren.

DRAINAGE AREA.--12.8 mi^2 (33.2 km^2).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,373.67 ft (418.695 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 23.2 ft^3/s (0.657 m^3/s), 24.62 in/yr (625 mm/yr).

EXTREMES.--Current year: Maximum discharge, 599 ft^3/s (17.0 m^3/s) May 12, June 30 (gage height, 4.14 ft or 1.262 m); minimum, 1.1 ft^3/s (0.031 m^3/s) Aug. 26 (gage height, 1.35 ft or 0.411 m).
Period of record: Maximum discharge, 1,020 ft^3/s (28.9 m^3/s) Mar. 2, 1972, from rating curve extended above 330 ft^3/s (9.35 m^3/s); maximum gage height, 5.58 ft (1.701 m) Feb. 11, 1966 (backwater from ice), minimum discharge, 0.4 ft^3/s (0.011 m^3/s) Oct. 22, 26,27, 1963 (gage height, 1.18 ft or 0.360 m).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	51	20	26	25	63	46	24	28	162	2.4	5.7
2	2.2	31	17	19	21	38	152	17	11	35	2.2	5.4
3	3.2	27	15	16	15	74	95	22	8.2	19	2.2	43
4	2.9	19	13	14	13	122	80	20	7.3	11	12	12
5	26	15	15	13	12	155	49	16	6.5	8.9	5.9	6.8
6	7.4	13	14	12	11	87	45	31	5.7	7.6	4.1	5.2
7	5.0	11	11	11	11	62	40	23	5.4	6.8	2.9	4.3
8	4.3	9.6	9.5	10	10	122	50	22	5.0	6.2	2.6	3.9
9	3.6	8.7	12	9.8	9.4	150	45	31	4.8	5.4	3.1	3.3
10	3.4	8.1	14	9.2	8.8	112	38	27	4.3	5.2	5.0	3.1
11	3.2	7.3	12	8.6	8.2	66	40	23	4.3	5.0	3.1	2.6
12	3.0	7.3	10	8.2	8.0	51	45	316	4.3	4.1	2.4	4.3
13	3.2	7.7	13	7.8	12	35	38	158	4.3	3.7	2.4	11
14	4.8	7.1	26	10	14	31	50	76	4.1	4.1	2.2	10
15	3.6	6.7	15	14	9.0	25	70	47	4.5	6.8	1.6	5.9
16	3.2	12	13	17	8.4	73	40	35	11	4.3	1.5	5.0
17	12	9.6	12	15	7.6	42	35	46	8.9	3.3	2.9	4.3
18	14	8.1	11	14	7.0	30	30	31	6.2	3.1	2.6	19
19	8.6	7.7	10	47	8.0	30	36	21	5.7	3.5	2.1	7.0
20	6.4	6.7	20	30	10	28	26	18	5.4	2.6	1.7	6.2
21	5.5	6.4	90	80	13	28	21	16	4.8	2.6	1.5	21
22	4.8	7.2	42	64	137	23	26	18	4.8	2.4	1.5	25
23	4.3	6.4	27	98	78	25	31	18	3.7	2.9	1.6	14
24	4.0	11	20	63	49	28	26	16	3.5	3.7	2.4	9.3
25	3.8	34	15	42	33	29	22	13	3.7	2.9	1.5	8.2
26	3.8	29	88	32	29	27	19	11	10	2.4	1.1	7.6
27	3.6	26	169	47	32	24	17	9.7	6.8	2.4	2.2	6.8
28	4.3	34	76	37	23	23	16	8.5	4.8	2.1	5.0	13
29	41	35	47	47	------	25	20	13	13	2.9	7.3	22
30	58	25	39	34	------	42	18	11	67	5.0	5.7	34
31	32	------	29	29	------	80	------	8.9	------	3.3	3.7	------
TOTAL	287.3	487.6	924.5	884.6	622.4	1,750	1,266	1,147.1	267.0	340.2	98.4	328.9
MEAN	9.27	16.3	29.8	28.5	22.2	56.5	42.2	37.0	8.90	11.0	3.17	11.0
MAX	58	51	169	98	137	155	152	316	67	162	12	43
MIN	2.2	6.4	9.5	7.8	7.0	23	16	8.5	3.5	2.1	1.1	2.6
CFSM	.72	1.27	2.33	2.23	1.73	4.41	3.30	2.89	.70	.86	.25	.86
IN.	.83	1.42	2.69	2.57	1.81	5.09	3.68	3.33	.78	.99	.29	.96

CAL YR 1973 TOTAL 7,436.1 MEAN 20.4 MAX 176 MIN 2.0 CFSM 1.59 IN 21.61
WTR YR 1974 TOTAL 8,404.0 MEAN 23.0 MAX 316 MIN 1.1 CFSM 1.80 IN 24.42

PEAK DISCHARGE (BASE, 300 CFS).--May 12 (1645) 599 cfs (4.14 ft); June 30 (2015) 599 cfs (4.14 ft).

03015500 Brokenstraw Creek at Youngsville, Pa.

LOCATION.--Lat 41°51'09", long 79°19'03", Warren County, on right bank 150 ft (46 m) downstream from bridge on Main Street at Youngsville, 500 ft (152 m) upstream from Matthews Run, and 3.7 mi (6.0 km) upstream from mouth. Records include flow of Matthews Run.

DRAINAGE AREA.--321 mi^2 (831 km^2), including that of Matthews Run.

PERIOD OF RECORD.--October 1909 to current year. Monthly discharge only for some periods, published in WSP 1305. Flow of Matthews Run included in records since October 1938.

GAGE.--Water-stage recorder. Datum of gage is 1,186.92 ft (361.773 m) above mean sea level, adjustment of 1907. Prior to Sept. 30, 1933, nonrecording gage at site 150 ft (46 m) upstream at datum 2.00 ft (0.610 m) higher. Oct. 1, 1933, to June 15, 1939, nonrecording gage at site 150 ft (46 m) upstream, and June 16, 1939, to Sept. 30, 1961, water-stage recorder at present site, both at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--65 years, 575 ft^3/s (16.28 m^3/s), 24.33 in/yr (618 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,820 ft^3/s (193 m^3/s) May 12 (gage height, 8.51 ft or 2.594 m); minimum, 72 ft^3/s (2.04 m^3/s) Oct. 2, Aug. 27; minimum gage height, 0.67 ft (0.204 m) Oct. 2.
Period of record: Maximum discharge, about 18,000 ft^3/s (510 m^3/s) Mar. 25, 1913 (gage height, 14.2 ft or 4.33 m), present datum; minimum observed, 19 ft^3/s (0.54 m^3/s) Oct. 14, 1934.

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

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1083: 1913 (M). WSP 1275: 1920, 1932, 1936. WSP 1305: 1910-15, 1928-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	1,380	747	676	691	840	1,750	550	233	2,560	88	173
2	75	1,250	578	530	575	720	2,780	504	203	1,500	81	188
3	122	894	453	460	440	980	3,050	508	185	962	82	514
4	124	649	405	400	410	1,300	2,700	553	180	494	171	704
5	390	480	425	330	380	1,800	2,300	491	170	350	300	426
6	295	390	449	290	350	1,500	2,000	627	163	282	202	243
7	194	331	389	250	340	1,200	1,850	678	151	219	144	167
8	144	293	328	270	320	1,700	1,550	596	144	183	111	139
9	119	268	331	320	320	2,400	1,350	693	137	161	107	120
10	105	252	421	280	370	2,000	1,200	892	137	149	213	108
11	94	235	405	250	420	1,600	1,020	762	129	137	156	99
12	87	231	334	220	380	1,300	930	4,110	123	124	120	107
13	84	251	357	250	320	1,100	1,200	4,290	119	116	122	231
14	114	262	719	280	330	850	1,350	2,960	119	111	99	243
15	116	249	755	310	380	740	1,500	1,390	123	118	88	163
16	101	298	405	340	338	1,200	1,300	824	188	122	82	129
17	262	365	275	471	321	1,100	1,100	725	203	112	88	111
18	406	331	620	512	287	950	900	624	163	104	91	203
19	393	293	330	1,270	294	820	740	401	144	107	85	200
20	276	265	660	1,400	363	820	800	353	161	101	133	160
21	206	249	1,850	2,010	382	780	620	349	185	93	140	258
22	165	249	1,470	2,420	1,750	715	800	353	149	88	101	426
23	141	246	1,140	2,800	2,600	667	1,100	345	129	95	91	370
24	126	263	720	2,260	2,260	729	950	310	117	99	117	267
25	116	683	628	1,620	1,310	675	850	269	111	94	93	195
26	106	1,100	2,100	940	780	659	750	242	209	89	78	165
27	100	919	4,170	1,010	630	624	620	242	286	85	78	144
28	108	1,100	3,210	977	560	633	540	278	200	82	109	181
29	530	1,360	1,850	1,180	------	691	480	260	215	87	181	276
30	1,250	1,100	1,060	1,110	------	923	510	338	810	118	219	510
31	1,140	------	796	831	------	1,760	------	306	------	100	160	------
TOTAL	7,571	16,236	28,380	26,267	17,901	33,776	38,590	25,823	5,586	9,042	3,930	7,220
MEAN	244	541	915	847	639	1,090	1,286	833	186	292	127	241
MAX	1,250	1,380	4,170	2,800	2,600	2,400	3,050	4,290	810	2,560	300	704
MIN	75	231	275	220	287	624	480	242	111	82	78	99
CFSM	.76	1.69	2.85	2.64	1.99	3.40	4.01	2.60	.58	.91	.40	.75
IN.	.88	1.88	3.29	3.04	2.07	3.91	4.47	2.99	.65	1.05	.46	.84

CAL YR 1973 TOTAL 205,339 MEAN 563 MAX 4,170 MIN 54 CFSM 1.75 IN 23.80
WTR YR 1974 TOTAL 220,322 MEAN 604 MAX 4,290 MIN 75 CFSM 1.88 IN 25.53

PEAK DISCHARGE (BASE, 4,500 CFS).--Dec. 27 (0630) 4,530 cfs (6.88 ft); May 12 (1600) 6,820 cfs (8.51 ft).

03016000 Allegheny River at West Hickory, Pa.

LOCATION.--Lat 41°34'15", long 79°24'29", Forest County, on right bank at downstream side of bridge on State Highway 127 at West Hickory, 0.6 mi (1.0 km) upstream from Siggins Run, 0.8 mi (1.3 km) downstream from East Hickory Creek, and at mile 158.9 (255.7 km).

DRAINAGE AREA.--3,660 mi^2 (9,479 km^2).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,059.90 ft (323.058 m) above mean sea level. Prior to Dec. 12, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 6,442 ft^3/s (182.4 m^3/s), 23.90 in/yr (607 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 25,400 ft^3/s (719 m^3/s) Mar. 8 (gage height, 8.71 ft or 2.655 m); minimum daily discharge, 1,120 ft^3/s (31.7 m^3/s) Aug. 26.
Period of record: Maximum discharge, 101,000 ft^3/s (2,860 m^3/s) Mar. 8, 1956 (gage height, 17.20 ft or 5.243 m); maximum gage height, 17.83 ft (5.435 m) Jan. 25, 1964 (backwater from ice); minimum discharge not determined.

REMARKS.--Records good. Flow regulated by Allegheny Reservoir 39 mi (63 km) upstream since October 1965 and by Chautauqua Lake (see p. 245).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,390	7,000	4,800	18,100	15,500	6,170	8,580	4,210	4,100	12,400	1,500	1,490
2	4,330	9,020	4,470	16,700	14,900	8,080	10,800	4,340	3,790	7,500	1,480	1,540
3	3,110	8,530	4,030	13,600	14,300	10,300	11,600	4,260	3,350	8,400	1,500	2,240
4	3,040	7,810	3,500	13,000	13,700	13,300	11,800	4,190	2,290	6,840	1,500	3,190
5	3,190	7,250	3,520	10,700	12,900	15,800	12,900	4,060	1,540	7,650	1,760	2,570
6	3,140	6,960	3,300	10,500	11,000	16,000	16,400	4,350	1,450	8,610	2,220	1,970
7	3,060	5,340	4,370	10,300	11,000	16,600	17,600	4,720	1,380	7,960	2,670	1,830
8	2,910	3,790	5,620	10,100	10,800	17,900	17,800	5,260	1,360	6,130	2,550	1,700
9	2,960	3,900	6,430	9,980	10,600	21,400	18,000	5,340	1,560	4,560	2,820	1,630
10	3,060	4,160	6,620	9,930	10,400	20,100	19,500	5,670	1,540	4,770	2,790	2,670
11	2,890	4,590	6,450	9,410	10,400	17,900	19,300	5,550	1,970	3,710	2,430	2,620
12	2,910	4,530	6,390	7,520	10,300	17,800	16,400	12,300	2,090	2,860	1,310	2,670
13	3,060	4,160	6,380	7,410	10,100	16,200	15,000	16,800	2,290	1,630	2,240	3,320
14	2,740	3,570	6,990	7,320	10,200	14,900	14,700	14,300	2,270	1,850	2,070	3,620
15	2,690	3,620	7,320	7,440	9,990	13,800	16,300	16,600	2,290	1,630	2,530	1,890
16	2,690	3,220	6,800	9,310	8,050	14,200	17,000	16,100	2,620	1,910	1,240	1,760
17	2,910	4,860	5,990	9,820	6,300	14,600	15,700	19,600	3,090	2,110	2,270	2,890
18	3,300	5,340	3,490	10,100	6,040	13,800	14,800	18,600	1,450	2,010	1,290	2,990
19	3,300	5,030	3,310	12,300	4,320	13,200	14,000	17,500	1,540	2,650	1,220	2,940
20	2,960	4,100	3,610	9,430	4,400	11,300	12,200	13,800	1,850	1,320	1,470	3,190
21	2,860	2,380	8,150	10,400	3,160	9,380	11,500	9,460	1,380	1,340	1,390	3,400
22	2,790	4,770	7,880	14,000	5,580	9,120	9,070	7,340	1,890	1,340	1,280	4,020
23	2,710	4,450	7,000	14,800	10,800	8,800	7,910	6,900	1,870	1,450	1,340	3,880
24	2,670	4,770	8,100	15,200	8,910	9,030	8,030	6,850	1,810	1,520	1,380	3,240
25	2,640	5,700	9,460	15,500	7,660	8,640	7,990	6,610	2,090	1,380	1,330	3,220
26	2,740	8,060	12,200	15,300	6,260	8,440	7,720	6,310	3,110	1,340	1,120	2,740
27	2,740	7,410	18,600	14,900	5,310	6,760	5,110	5,110	3,400	1,410	1,210	2,590
28	2,640	4,050	16,600	14,400	4,770	6,660	4,660	3,870	2,450	1,520	1,310	2,430
29	3,110	4,910	21,000	15,100	------	6,850	4,350	2,800	2,620	1,500	1,520	2,450
30	5,130	5,030	20,000	16,700	------	7,430	4,030	3,070	4,270	1,560	1,760	2,740
31	5,620	------	19,200	16,000	------	8,010	------	3,000	------	1,360	1,520	------
TOTAL	98,290	158,310	251,580	375,270	257,650	382,470	370,750	258,870	68,710	112,220	54,020	79,430
MEAN	3,171	5,277	8,115	12,110	9,202	12,340	12,360	8,351	2,290	3,620	1,743	2,648
MAX	5,620	9,020	21,000	18,100	15,500	21,400	19,500	19,600	4,270	12,400	2,820	4,020
MIN	2,640	2,380	3,300	7,320	3,160	6,170	4,030	2,800	1,360	1,320	1,120	1,490
MEAN≠	1,781	5,743	9,705	9,540	7,042	13,540	15,650	8,686	2,647	3,486	1,374	3,080
CFSM≠	.49	1.57	2.65	2.61	1.92	3.70	4.28	2.37	.72	.95	.38	.84
IN.≠	.56	1.75	3.06	3.01	2.00	4.27	4.78	2.73	.80	1.10	.44	.94

CAL YR 1973 TOTAL 2,104,185 MEAN 5,765 MAX 21,200 MIN 660 MEAN≠ 5,925 CFSM≠ 1.62 IN.≠ 21.97
WTR YR 1974 TOTAL 2,467,570 MEAN 6,760 MAX 21,400 MIN 1,120 MEAN≠ 6,854 CFSM≠ 1.87 IN.≠ 25.44

≠ Adjusted for change in contents in Allegheny Reservoir and Chautauqua Lake.

03017500 Tionesta Creek at Lynch, Pa.

LOCATION.--Lat 41°36'07", long 79°03'01", Forest County, in Allegheny National Forest, on left bank at downstream side of highway bridge at Lynch, 500 ft (152 m) upstream from Bluejay Creek, and 7 mi (11 km) south of Sheffield.

DRAINAGE AREA.--233 mi^2 (603 km^2).

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,252.41 ft or 381.735 m (revised) above mean sea level.

AVERAGE DISCHARGE.--37 years, 426 ft^3/s (12.06 m^3/s), 24.83 in/yr (631 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,920 ft^3/s (139 m^3/s) July 1 (gage height, 7.18 ft or 2.188 m); minimum daily, 40 ft^3/s (1.13 m^3/s) Oct. 2.

Period of record: Maximum discharge, 15,000 ft^3/s (425 m^3/s) Jan. 22, 1959 (gage height, 11.25 ft or 3.429 m, from floodmark in gage well), from rating curve extended above 4,600 ft^3/s (130 m^3/s) on basis of slope-area measurement of peak flow; minimum, 11 ft^3/s (0.31 m^3/s) Aug. 26, 27, 1962 (gage height, 0.67 ft or 0.204 m).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 923: 1939-40. WSP 1555: 1943, 1946-47, 1948(M), 1952, 1953(M), 1955-56.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	815	447	666	575	821	913	458	379	3,950	76	133
2	40	696	390	550	513	646	1,600	370	255	1,580	68	166
3	84	460	360	474	456	734	1,750	389	207	1,030	66	899
4	205	361	337	424	420	1,250	2,340	389	177	671	161	717
5	221	305	359	361	346	1,640	1,740	349	155	571	176	417
6	73	267	392	428	342	1,370	1,350	444	136	443	101	312
7	61	236	315	363	355	1,080	1,080	439	122	340	83	259
8	55	209	279	280	358	1,710	950	389	113	278	75	215
9	53	192	313	287	297	3,570	827	418	108	236	124	178
10	51	179	382	305	238	2,570	713	440	102	206	108	155
11	50	162	330	310	265	1,720	704	385	100	182	88	138
12	47	152	297	268	246	1,300	755	1,330	92	155	75	133
13	47	155	317	226	272	970	749	2,130	86	137	73	212
14	52	150	362	340	256	763	835	1,350	81	132	68	311
15	53	145	322	317	226	634	1,480	1,010	97	496	60	182
16	48	192	284	285	223	1,080	1,090	788	389	219	56	146
17	80	177	248	302	237	947	882	643	386	161	89	128
18	116	156	273	314	168	732	740	536	237	141	111	230
19	96	153	271	1,240	168	679	675	443	178	131	76	175
20	78	146	459	941	205	603	572	372	156	116	114	154
21	67	141	1,420	1,160	199	586	501	324	138	103	71	470
22	61	155	863	1,440	872	519	483	316	128	95	60	639
23	55	144	694	1,890	1,290	475	587	349	110	114	56	418
24	54	168	569	2,130	797	510	512	330	98	143	62	339
25	52	517	497	1,450	637	427	455	276	99	104	58	300
26	50	666	1,330	1,080	529	418	413	237	298	89	49	273
27	50	515	2,660	1,070	510	396	379	212	331	83	50	239
28	52	597	1,900	946	448	380	351	191	174	76	83	217
29	209	610	1,340	878	------	401	377	199	245	87	217	294
30	894	511	1,040	738	------	528	362	197	797	143	264	320
31	487	------	813	647	------	1,100	------	168	------	90	142	------
TOTAL	3,583	9,332	19,863	22,110	11,448	30,559	26,165	15,871	5,974	12,302	2,960	8,769
MEAN	116	311	641	713	409	986	872	512	199	397	95.5	292
MAX	894	815	2,660	2,130	1,290	3,570	2,340	2,130	797	3,950	264	899
MIN	40	141	248	226	168	380	351	168	81	76	49	128
CFSM	.50	1.33	2.75	3.06	1.76	4.23	3.74	2.20	.85	1.70	.41	1.25
IN.	.57	1.49	3.17	3.53	1.83	4.88	4.18	2.53	.95	1.96	.47	1.40

CAL YR 1973 TOTAL 141,138 MEAN 387 MAX 3,140 MIN 34 CFSM 1.66 IN 22.53
WTR YR 1974 TOTAL 168,936 MEAN 463 MAX 3,950 MIN 40 CFSM 1.99 IN 26.97

PEAK DISCHARGE (BASE, 3,500 CFS).--March 9 (0300) 4,260 cfs (6.67 ft); July 1 (0830) 4,920 cfs (7.18 ft).

NOTE.--No gage-height record Oct. 1-11.

03020000 Tionesta Creek at Tionesta Dam, Pa.

LOCATION.--Lat 41°28'44", long 79°26'26", Forest County, on left bank 100 ft (30 m) downstream from outlet tunnel at Tionesta Dam, 1.5 mi (2.4 km) southeast of Tionesta, and 1.2 mi (1.9 km) upstream from mouth.

DRAINAGE AREA.--479 mi^2 (1,241 km^2).

PERIOD OF RECORD.--June 1940 to current year. Prior to October 1970, published as "at Tionesta Creek Dam".

GAGE.--Water-stage recorder. Datum of gage is 1,043.43 ft (318.037 m) above mean sea level, unadjusted. July 1, 1954, to Dec. 6, 1960, water-stage recorder at present site and at datum 1.5 ft (0.46 m) higher. See WSP 1305 or 1725 for history of changes prior to July 1, 1954.

AVERAGE DISCHARGE.--34 years, 864 ft^3/s (24.47 m^3/s); 24.49 in/yr (622 mm/yr), adjusted for storage since January 1941.

EXTREMES.--Current year: Maximum discharge, 6,700 ft^3/s (190 m^3/s) Mar. 11 (gage height, 7.40 ft or 2.256 m); minimum daily, 60 ft^3/s (1.70 m^3/s) Oct. 1, 2.
Period of record: Maximum discharge, about 13,500 ft^3/s (382 m^3/s) Mar. 12, 1964; maximum gage height, 11.31 ft (3.447 m) Mar. 13, 1964 (backwater from Allegheny River); minimum daily discharge, 0.4 ft^3/s (0.011 m^3/s) Feb. 28, 29, May 22 to June 16, 1968.

REMARKS.--Records good. Flow completely regulated since 1941 by Tionesta Lake 0.2 mi (0.3 km) upstream (see p. 245).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	948	1,210	2,350	1,310	1,400	1,040	835	576	805	198	425
2	60	1,220	1,440	2,260	1,290	1,420	1,520	849	717	1,420	196	576
3	90	1,480	1,410	2,140	1,270	1,430	1,550	849	856	2,380	195	584
4	104	1,440	1,370	1,650	916	1,460	1,670	846	706	3,460	195	670
5	105	1,390	976	933	544	1,520	2,690	859	557	4,030	195	1,120
6	106	802	610	325	540	1,580	4,050	860	373	3,800	195	1,420
7	106	339	614	327	540	2,060	3,960	865	263	3,510	195	1,380
8	106	338	615	331	540	2,560	3,820	867	263	2,020	195	1,140
9	106	338	615	333	540	2,740	3,660	872	263	561	195	587
10	106	338	616	335	540	3,520	3,450	873	263	420	194	260
11	106	338	620	335	536	5,360	3,200	875	263	380	193	260
12	106	338	623	339	534	6,400	2,480	899	263	440	193	260
13	106	338	625	342	531	6,020	1,910	984	200	602	178	260
14	106	336	625	342	529	5,440	1,580	1,700	127	467	126	390
15	106	334	630	342	529	3,600	1,320	2,590	127	319	125	568
16	106	332	630	615	389	2,000	1,710	3,180	200	319	125	568
17	106	332	630	898	245	2,040	2,070	3,650	278	290	125	560
18	106	332	622	887	245	2,030	2,030	3,400	277	536	125	425
19	106	332	615	795	245	1,990	1,990	2,330	280	568	125	266
20	106	332	610	731	247	1,630	1,620	1,070	280	381	125	266
21	106	332	640	1,530	248	1,280	1,280	827	280	128	124	268
22	106	332	1,010	2,670	251	1,290	1,040	822	280	127	125	558
23	106	332	1,870	2,710	785	1,280	801	824	280	127	125	886
24	106	330	2,210	3,360	1,460	1,270	820	833	280	153	125	886
25	106	331	2,100	3,960	1,460	1,250	828	837	280	197	125	880
26	106	612	2,040	3,850	1,460	887	832	834	278	198	125	880
27	106	902	2,210	3,770	1,440	536	830	549	432	198	125	873
28	106	918	2,390	3,770	1,420	543	828	261	595	198	125	861
29	106	935	2,460	3,580	------	557	828	263	592	198	160	633
30	438	952	2,450	3,340	------	573	826	418	609	198	268	272
31	942	------	2,410	2,340	------	595	------	577	------	198	271	------
TOTAL	4,343	17,953	37,496	51,490	20,584	66,261	56,233	36,298	11,038	28,628	5,091	18,982
MEAN	140	598	1,210	1,661	735	2,137	1,874	1,171	368	923	164	633
MAX	942	1,480	2,460	3,960	1,460	6,400	4,050	3,650	856	4,030	271	1,420
MIN	60	330	610	325	245	536	801	261	127	127	124	260
MEAN≠	174	613	1,266	1,559	774	2,192	1,771	1,189	412	867	183	617
CFSM≠	.36	1.28	2.64	3.25	1.62	4.58	3.70	2.48	.86	1.81	.38	1.29
IN.≠	.42	1.43	3.04	3.75	1.69	5.28	4.13	2.86	.96	2.09	.44	1.44

CAL YR 1973 TOTAL 286,589 MEAN 785 MAX 6,390 MIN 60 MEAN≠ 797 CFSM≠ 1.66 IN.≠ 22.58
WTR YR 1974 TOTAL 354,397 MEAN 971 MAX 6,400 MIN 60 MEAN≠ 971 CFSM≠ 2.03 IN.≠ 27.53

≠ Adjusted for change in contents in Tionesta Lake.

03020500 Oil Creek at Rouseville, Pa.

LOCATION.--Lat 41°28'54", long 79°41'44", Venango County, on right bank 100 ft (30 m) downstream from bridge on State Highway 8, about 300 ft (91 m) upstream from Cherrytree Run, and 1 mi (2 km) north of Rouseville. Records include flow of Cherrytree Run.

DRAINAGE AREA.--300 mi^2 (777 km^2), including that of Cherrytree Run.

PERIOD OF RECORD.--June 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,028.32 ft (313.432 m) above mean sea level. Prior to June 9, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 520 ft^3/s (14.73 m^3/s), 23.54 in/yr (598 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,800 ft^3/s (278 m^3/s) Mar. 9 (gage height, 9.53 ft or 2.905 m); minimum, 60 ft^3/s (1.70 m^3/s) Aug. 23, 27 (gage height, 1.70 ft or 0.518 m).
Period of record: Maximum discharge, 21,000 ft^3/s (595 m^3/s) Jan. 22, 1959 (gage height, 11.97 ft or 3.648 m); minimum observed, 22 ft^3/s (0.62 m^3/s) July 29, Sept. 5, 7, 1934; minimum gage height, 1.48 ft (0.451 m) Aug. 20, 1971.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1053: 1936-37(M), 1943(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	1,490	435	599	606	1,530	1,620	658	248	5,250	92	127
2	111	1,330	359	467	525	1,260	2,510	522	230	1,700	81	141
3	219	618	317	461	466	1,510	2,140	508	198	1,730	80	374
4	217	438	298	418	392	2,050	1,980	537	177	749	151	526
5	432	337	309	290	352	2,490	1,330	445	164	485	309	242
6	471	281	345	396	355	1,880	1,090	556	149	420	155	160
7	223	243	296	341	374	1,200	945	580	140	320	111	130
8	156	218	281	281	345	2,470	947	475	135	260	94	115
9	128	200	278	298	307	6,110	883	553	130	222	89	104
10	113	193	397	323	289	3,310	760	739	122	194	159	95
11	104	181	357	315	316	1,780	963	597	115	167	123	91
12	98	174	295	289	302	1,250	1,110	4,620	111	146	95	90
13	96	173	303	264	296	896	894	5,580	107	135	88	151
14	102	179	964	288	349	694	935	1,930	103	130	88	301
15	123	172	742	291	314	610	1,480	1,090	107	135	84	167
16	106	196	420	317	277	1,180	1,080	797	188	125	72	121
17	105	274	310	439	285	1,270	797	645	202	111	80	105
18	124	258	283	475	241	800	653	545	158	109	90	177
19	165	254	303	2,460	254	730	601	456	130	112	80	171
20	153	284	419	1,770	324	744	565	395	143	90	71	132
21	123	242	2,270	2,500	341	737	476	355	164	78	66	177
22	109	244	1,170	2,780	1,830	664	465	355	158	90	62	351
23	101	241	778	2,320	3,300	616	692	420	128	96	61	238
24	94	225	554	2,340	1,880	765	619	424	105	104	67	177
25	90	555	484	1,340	1,060	634	561	360	103	98	79	146
26	87	1,110	2,160	940	658	622	472	308	260	88	66	134
27	84	582	3,930	1,080	519	622	420	272	328	83	120	123
28	90	702	2,220	950	571	620	389	248	188	79	288	139
29	242	803	1,230	1,180	------	844	466	276	198	79	220	196
30	879	598	950	924	------	1,660	464	320	1,220	149	267	341
31	904	------	714	722	------	2,140	------	252	------	116	144	------
TOTAL	6,189	12,795	24,171	27,858	17,128	43,688	28,307	25,818	5,909	13,650	3,632	5,542
MEAN	200	427	780	899	612	1,409	944	833	197	440	117	185
MAX	904	1,490	3,930	2,780	3,300	6,110	2,510	5,580	1,220	5,250	309	526
MIN	84	172	278	264	241	610	389	248	103	78	61	90
CFSM	.67	1.42	2.60	3.00	2.04	4.70	3.15	2.78	.66	1.47	.39	.62
IN.	.77	1.59	3.00	3.45	2.12	5.42	3.51	3.20	.73	1.69	.45	.69

CAL YR 1973 TOTAL 191,441 MEAN 524 MAX 5,020 MIN 54 CFSM 1.75 IN 23.74
WTR YR 1974 TOTAL 214,687 MEAN 588 MAX 6,110 MIN 61 CFSM 1.96 IN 26.62

PEAK DISCHARGE (BASE 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 9	0200	9.53	9,800	7- 1	0300	9.14	8,890
5-12	2100	8.80	8,180				

03021520 French Creek near Union City, Pa.

LOCATION.--Lat 41°54'27", long 79°53'52", Erie County, at center pier on downstream side of bridge on State Highway 97, 0.4 mi (0.6 km) upstream from South Branch French Creek, 0.9 mi (1.4 km) downstream from Union City Reservoir, and 2.8 mi (4.5 km) west of Union City.

DRAINAGE AREA.--221 mi^2 (572 km^2).

PERIOD OF RECORD.--October 1909 to current year. Published as North Branch French Creek at Kimmeytown May 1910 to September 1914, as "at Kimmeytown" October 1915 to September 1932, and as "at Carters Corners" (sta. 03021500) October 1932 to September 1971. Monthly discharge only for some periods published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,192.31 ft (363.416 m) above mean sea level (Corps of Engineers bench mark). Prior to Dec. 22, 1948, nonrecording gage at site 4.5 mi (7.2 km) upstream at datum 43.4 ft (13.23 m) higher. Dec. 22, 1948, to Sept. 30, 1971, water-stage recorder at site 4.6 mi (7.4 km) upstream at datum 43.4 ft (13.23 m) higher.

AVERAGE DISCHARGE.--65 years, 419 ft^3/s (11.87 m^3/s), 25.74 in/yr (654 mm/yr), adjusted for storage since 1971.

EXTREMES.--Current year: Maximum discharge, 2,080 ft^3/s (58.9 m^3/s) Mar. 10 (gage height, 7.25 ft or 2.210 m); minimum daily, 20 ft^3/s (0.57 m^3/s) Aug. 26.

Period of record: Maximum discharge, 20,000 ft^3/s (566 m^3/s) Apr. 5, 1947 (gage height, 13.50 ft or 4.115 m, site and datum then in use), by slope-area measurement of peak flow; maximum gage height observed, 16.0 ft (4.88 m) Feb. 20, 1918 (backwater from ice), site and datum then in use; minimum discharge observed, 3.9 ft^3/s (0.11 m^3/s) Aug. 15, 18-21, 1930.

REMARKS.--Records fair. Flood flow regulated beginning October 1971 by Union City Reservoir, 0.9 mi (1.4 km) upstream, serving as a retarding basin (see. p. 245).

COOPERATION.--Gage-height record and 3 discharge measurements furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1275: 1934, 1936-37 (M), 1939 (M), 1942 (M). WSP 1305: 1910-11, 1913, 1914 (M), 1915-16, 1925, 1928. WSP Pa. 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	425	1,090	1,230	1,000	839	1,030	390	211	1,000	30	45
2	25	556	986	1,100	895	930	1,180	420	172	1,020	28	53
3	33	505	741	993	622	1,000	1,380	400	140	860	28	68
4	36	400	470	694	450	1,290	1,420	440	122	502	64	150
5	73	232	296	440	270	1,560	1,550	435	115	208	92	130
6	133	160	296	325	250	1,970	1,520	460	99	132	88	68
7	105	135	268	260	250	1,930	1,430	610	86	106	58	50
8	70	115	214	220	240	1,770	1,430	592	78	92	43	40
9	53	106	194	210	225	1,970	1,450	658	72	76	38	33
10	47	103	239	190	190	2,030	1,410	930	65	66	36	32
11	41	92	246	185	210	1,950	1,410	972	58	59	34	29
12	34	95	239	180	140	1,770	1,410	1,190	54	56	31	30
13	34	101	214	175	130	1,580	1,410	1,490	50	48	32	50
14	39	115	428	200	140	1,520	1,400	1,520	52	45	30	70
15	36	112	525	236	140	1,450	1,440	1,520	54	49	26	50
16	36	158	480	260	150	1,390	1,430	1,470	74	64	22	34
17	54	335	320	375	170	1,370	1,410	1,410	110	70	24	32
18	130	305	272	460	190	1,290	1,340	1,350	90	58	51	50
19	122	222	253	670	190	1,190	1,280	1,270	72	56	68	55
20	88	194	258	895	250	1,110	1,210	1,190	196	52	44	40
21	72	163	996	1,010	264	1,000	1,120	1,000	200	44	38	60
22	62	150	1,170	1,230	593	860	965	700	178	40	30	100
23	53	145	1,060	1,340	1,130	610	881	400	130	37	25	70
24	49	145	944	1,330	1,210	515	888	272	84	40	24	55
25	46	356	688	1,290	1,170	450	937	260	66	37	21	45
26	43	616	972	1,280	1,070	430	874	225	88	34	20	40
27	40	676	1,320	1,230	965	420	664	181	101	30	24	35
28	45	811	1,400	1,210	860	420	510	169	72	29	36	40
29	103	986	1,400	1,170	------	445	355	178	144	38	50	60
30	305	1,090	1,360	1,150	------	580	345	214	400	40	53	100
31	370	------	1,320	1,090	------	916	------	225	------	31	45	------
TOTAL	2,400	9,604	20,659	22,628	13,364	36,555	35,079	22,541	3,433	5,019	1,233	1,714
MEAN	77.4	320	666	730	477	1,179	1,169	727	114	162	39.8	57.1
MAX	370	1,090	1,400	1,340	1,210	2,030	1,550	1,520	400	1,020	92	150
MIN	23	92	194	175	130	420	345	169	50	29	20	29
MEAN≠	80.2	370	700	703	434	1,204	1,126	725	124	152	39.9	59.0
CFSM≠	.36	1.67	3.17	3.18	1.96	5.45	5.10	3.28	.56	.69	.18	.27
IN.≠	.42	1.86	3.65	3.67	2.04	6.28	5.69	3.78	.62	.80	.21	.30

CAL YR 1973 TOTAL 149,587 MEAN 410 MAX 1,400 MIN 15 MEAN≠ 412 CFSM≠ 1.86 IN.≠ 25.31
WTR YR 1974 TOTAL 174,229 MEAN 477 MAX 2,030 MIN 20 MEAN≠ 477 CFSM≠ 2.16 IN.≠ 29.32

≠ Adjusted for change in contents in Union City Reservoir.

03021700 Little Conneauttee Creek near McKean, Pa.

LOCATION.--Lat 41°55'53", long 80°05'02", Erie County, on left bank at downstream side of highway bridge on Old State Road, 2.2 mi (3.5 km) east of McLane, and 5.5 mi (8.8 km) southeast of McKean (Middleboro).

DRAINAGE AREA.--3.60 mi^2 (9.32 km^2).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 1,330 ft (405 m) from topographic map.

AVERAGE DISCHARGE.--14 years, 7.41 ft^3/s (0.210 m^3/s), 27.95 in/yr (710 mm/yr).

EXTREMES.--Current year: Maximum discharge, 283 ft^3/s (8.01 m^3/s) May 12 (gage height, 3.98 ft or 1.213 m); minimum, 0.02 ft^3/s (0.001 m^3/s) July 22,27,28,29(gage height, 1.08 ft or 0.329 m).
Period of record: Maximum discharge, 830 ft^3/s (23.5 m^3/s) July 5, 1969 (gage height, 4.78 ft or 1.457 m, in gage well, 4.90 ft or 1.494 m, from floodmarks), from rating curve extended above 310 ft^3/s (8.78 m^3/s) on basis of contracted-opening measurement of peak flow; no flow on many days.

REMARKS.--Records good except those for winter periods and those below 1 ft^3/s (0.03 m^3/s), which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	18	5.7	4.3	4.0	46	11	4.6	1.1	11	.06	.11
2	.12	3.9	3.8	3.6	3.2	22	88	2.2	.70	7.7	.04	.11
3	.29	5.8	3.5	3.3	3.0	43	13	7.7	.46	5.5	.04	.32
4	.19	2.7	3.7	2.9	2.7	108	90	6.3	.46	2.2	.26	.32
5	1.6	1.4	3.6	2.5	2.3	73	15	3.3	.32	1.2	.46	.26
6	.71	1.2	3.3	2.2	2.2	12	15	18	.26	.70	.53	.17
7	.35	1.3	2.7	1.9	2.1	8.6	31	9.5	.26	.46	.26	.17
8	.19	1.1	2.5	1.7	2.0	59	30	5.8	.17	.53	.26	.14
9	.15	1.4	3.0	1.6	1.9	36	11	34	.17	.32	.32	.11
10	.15	1.5	5.7	1.5	1.8	21	11	15	.17	.21	.21	.11
11	.12	1.1	3.3	1.4	1.7	7.4	23	6.3	.14	.14	.17	.11
12	.35	1.2	2.7	1.3	2.4	5.3	17	150	.14	.11	.14	.14
13	.24	1.7	5.1	1.2	2.9	3.7	8.9	29	.14	.08	.17	.26
14	.24	1.6	23	2.3	4.1	2.8	28	8.6	.17	.08	.17	.32
15	.24	1.3	7.1	2.9	2.9	4.6	19	4.8	.26	.11	.14	.32
16	.19	7.1	4.0	4.5	2.1	30	8.0	3.7	.90	.08	.14	.26
17	.24	6.0	3.0	9.8	1.8	9.2	5.0	5.0	.53	.06	.46	.21
18	.29	4.1	2.7	8.2	1.5	5.0	4.3	4.1	.39	.04	.53	3.7
19	.29	7.4	2.5	70	1.9	6.3	9.8	2.5	.32	.08	.31	1.5
20	.24	4.5	21	32	3.0	6.0	4.8	2.2	1.0	.06	.17	.60
21	.19	4.0	35	92	3.3	5.0	4.1	1.4	1.4	.04	.14	1.1
22	.19	4.3	8.8	27	45	4.3	7.7	1.4	1.4	.03	.11	5.8
23	.19	3.0	5.2	47	18	5.5	14	2.1	.80	.04	.11	3.1
24	.19	5.5	3.8	16	7.9	6.6	14	3.5	.53	.06	.11	1.4
25	.24	20	5.1	7.1	5.6	5.3	7.7	2.1	.39	.04	.08	.80
26	.24	10	50	5.0	4.5	5.3	4.6	1.4	.80	.03	.08	.53
27	.24	10	38	18	3.8	5.3	3.0	1.1	.60	.03	.14	.39
28	.55	40	14	10	7.0	5.8	2.5	1.0	.53	.02	.14	1.0
29	5.6	32	8.4	30	------	12	3.5	1.8	1.0	.03	.14	2.6
30	3.7	8.5	8.4	8.9	------	40	3.0	1.9	17	.08	.14	4.3
31	6.9	------	4.8	6.1	------	28	------	1.4	------	.08	.11	------
TOTAL	24.54	211.6	293.4	426.2	144.6	632.0	506.9	341.7	32.51	31.14	6.14	30.26
MEAN	.79	7.05	9.46	13.7	5.16	20.4	16.9	11.0	1.08	1.00	.20	1.01
MAX	6.9	40	50	92	45	108	90	150	17	11	.53	5.8
MIN	.12	1.1	2.5	1.2	1.5	2.8	2.5	1.0	.14	.02	.04	.11
CFSM	.22	1.96	2.63	3.81	1.43	5.67	4.69	3.06	.30	.28	.06	.28
IN.	.25	2.19	3.03	4.40	1.49	6.53	5.24	3.53	.34	.32	.06	.31

CAL YR 1973 TOTAL 2,450.15 MEAN 6.71 MAX 87 MIN .02 CFSM 1.86 IN 25.32
WTR YR 1974 TOTAL 2,680.99 MEAN 7.35 MAX 150 MIN .02 CFSM 2.04 IN 27.70

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 4	0645	3.70	200	4- 4	0645	3.85	240
4- 2	0430	3.84	237	5-12	1130	3.98	283

03024000 French Creek at Utica, Pa.

LOCATION.--Lat 41°26'15", long 79°57'22", Venango County, on right bank at upstream side of bridge on Legislative Route 60019 at Utica, 2,000 ft (610 m) upstream from Mill Creek.

DRAINAGE AREA.--1,028 mi^2 (2,663 km^2).

PERIOD OF RECORD.--August 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,019.44 ft (310.725 m) above mean sea level. Prior to Nov. 27, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 1,756 ft^3/s (49.73 m^3/s), 23.20 in/yr (589 mm/yr), adjusted for storage since 1971.

EXTREMES.--Current year: Maximum discharge, 10,500 ft^3/s (297 m^3/s) May 14 (gage height, 8.76 ft or 2.670 m); minimum daily, 191 ft^3/s (5.41 m^3/s) Aug. 26, 27.

Period of record: Maximum discharge, 23,800 ft^3/s (674 m^3/s) Mar. 7, 1964 (gage height, 13.2 ft or 4.023 m, from floodmark in gage well); minimum, 43 ft^3/s (1.22 m^3/s) July 30, 1934 (gage height, 1.03 ft or 0.314 m).

Maximum stage since at least 1912, 15.7 ft (4.785 m) in March 1913 (discharge, 35,600 ft^3/s or 1,010 m^3/s).

REMARKS.--Records good. Flow regulated since 1971 by Union City Reservoir, 50 mi (80 km) upstream, serving as a retarding basin, and since Jan. 1974 by Woodcock Creek Lake, 25 mi (40 km) upstream (see p. 245).

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 823: 1936 (M). WSP 1275: 1933, 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	2,380	3,040	2,990	2,950	3,780	4,720	1,790	906	6,820	283	391
2	271	3,050	2,660	2,560	2,520	4,530	5,770	1,630	878	6,620	256	405
3	285	2,480	2,150	2,350	2,210	4,560	6,500	1,590	773	6,400	245	490
4	316	2,060	1,760	2,110	1,860	5,030	6,320	1,560	668	4,840	409	815
5	471	1,620	1,470	1,700	1,500	6,710	5,730	1,570	590	3,270	632	822
6	921	1,190	1,300	1,370	1,270	7,380	5,140	1,600	530	2,120	680	632
7	807	974	1,210	1,220	1,260	6,630	4,840	1,970	486	1,330	505	560
8	549	840	1,090	939	1,230	6,060	4,640	2,060	450	1,010	422	525
9	390	775	983	867	1,110	9,720	4,700	2,150	441	836	378	486
10	306	718	1,030	940	914	10,100	4,380	3,010	414	731	409	454
11	253	666	1,120	1,040	981	8,800	4,430	3,130	378	656	364	382
12	221	634	1,070	1,000	998	7,150	4,350	7,170	351	585	382	319
13	202	646	1,040	820	1,110	5,500	4,150	10,200	327	540	364	339
14	214	683	2,070	822	1,240	4,110	3,810	10,200	311	510	311	441
15	230	701	2,670	953	1,260	3,430	4,640	7,190	311	505	279	432
16	240	749	2,220	1,110	1,190	3,780	4,570	4,880	418	458	256	378
17	232	973	1,760	1,470	1,100	4,260	3,910	3,840	540	432	264	327
18	225	1,210	1,160	1,830	996	3,810	3,260	3,110	520	414	299	303
19	250	1,210	1,020	5,140	948	3,330	2,870	2,670	481	414	275	299
20	360	1,130	1,280	5,430	1,040	3,230	2,730	2,330	450	382	271	382
21	347	1,030	3,920	5,980	1,170	3,060	2,500	2,100	445	360	287	396
22	306	950	3,920	7,510	2,710	2,830	2,320	1,920	731	335	260	427
23	278	902	3,720	7,180	5,620	2,620	2,450	1,740	710	319	234	472
24	252	855	3,400	6,790	5,490	2,550	2,540	1,480	575	311	231	550
25	230	1,200	2,990	5,580	4,400	2,420	2,490	1,230	481	299	204	545
26	216	2,570	4,520	4,280	3,530	2,240	2,380	1,120	680	287	191	436
27	205	2,570	7,350	3,780	2,950	2,240	2,120	992	766	275	191	360
28	205	2,740	7,240	3,600	2,700	2,230	1,790	885	644	256	339	339
29	361	3,390	5,740	3,810	------	2,710	1,640	864	710	264	405	364
30	900	3,450	4,410	3,930	------	4,020	1,510	906	1,330	291	468	463
31	1,420	------	3,580	3,450	------	4,520	------	920	------	275	387	------
TOTAL	11,798	44,346	82,893	92,551	56,257	143,340	113,200	87,807	17,295	42,145	10,481	13,534
MEAN	381	1,478	2,674	2,986	2,009	4,624	3,773	2,832	577	1,360	338	451
MAX	1,420	3,450	7,350	7,510	5,620	10,100	6,500	10,200	1,330	6,820	680	822
MIN	202	634	983	820	914	2,230	1,510	864	311	256	191	299
MEAN≠	384	1,528	2,708	2,978	2,009	4,653	3,741	2,832	607	1,331	346	444
CFSM≠	.37	1.49	2.63	2.90	1.95	4.53	3.64	2.75	.59	1.29	.34	.43
IN.≠	.43	1.66	3.03	3.34	2.03	5.22	4.06	3.17	.66	1.49	.39	.48

CAL YR 1973 TOTAL 632,570 MEAN 1,733 MAX 8,270 MIN 107 MEAN≠ 1,735 CFSM≠ 1.69 IN.≠ 22.92
WTR YR 1974 TOTAL 715,647 MEAN 1,961 MAX 10,200 MIN 191 MEAN≠ 1,968 CFSM≠ 1.91 IN.≠ 25.96

≠ Adjusted for change in contents in Union City Reservoir and Woodcock Creek Lake.

03025000 Sugar Creek at Sugarcreek, Pa.

LOCATION.--Lat 41°25'43", long 79°52'48", Venango County, on left bank at downstream side of highway bridge, 0.8 mi (1.3 km) north of Sugarcreek, 0.9 mi (1.4 km) upstream from mouth, and 3 mi (5 km) northwest of Franklin.

DRAINAGE AREA.--166 mi^2 (430 km^2).

PERIOD OF RECORD.--August 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,012.42 ft (308.586 m) above mean sea level. Prior to Dec. 7, 1939, nonrecording gage, and Dec. 8, 1939 to Aug. 31, 1948, water-stage recorder, at same site at datum 3.00 ft (0.914 m) higher; Sept. 1, 1948 to Nov. 11, 1952, water-stage recorder at same site at datum 2.20 ft (0.671 m) higher; Nov. 12, 1952 to Sept. 30, 1960, water-stage recorder at same site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--42 years, 267 ft^3/s (7.561 m^3/s), 21.84 in/yr (555 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,870 ft^3/s (195 m^3/s) May 12 (gage height, 9.04 ft or 2.755 m); minimum, 28 ft^3/s (0.793 m^3/s) Oct. 23, 24, 25, 26, 27, 28 (gage height, 1.92 ft or 0.585 m); minimum gage height, 1.53 ft (0.466 m) Aug. 21, 22.

Period of record: Maximum discharge, 10,000 ft^3/s (283 m^3/s) May 28, 1946 (gage height, 11.49 ft or 3.502 m, present datum); maximum gage height, 11.5 ft (3.50 m) Jan. 25, 1937, present datum, from graph based on gage readings; minimum discharge observed, 9.2 ft^3/s (0.26 m^3/s) Oct. 22, 1935.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 758: Drainage area. WSP 1335: 1933-34 (M), 1937-39, 1948-49.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	314	161	293	306	826	750	508	190	1,350	46	69
2	42	235	141	228	275	675	1,560	358	161	452	44	70
3	51	164	131	220	248	766	1,020	355	144	496	42	128
4	48	137	127	193	208	1,030	1,220	334	123	312	61	120
5	54	120	137	144	168	952	755	280	111	260	63	77
6	44	110	137	164	168	675	620	337	106	222	48	66
7	39	103	122	143	178	547	534	303	100	170	46	62
8	36	97	117	116	159	1,290	480	268	95	146	45	57
9	35	97	122	125	139	3,400	460	309	92	127	45	52
10	34	92	164	130	125	1,200	432	327	86	109	44	49
11	33	89	141	130	143	700	508	282	81	96	42	47
12	33	86	127	119	135	480	583	4,350	79	86	41	46
13	33	85	168	99	139	400	484	2,500	75	80	40	70
14	38	83	492	116	157	350	476	1,300	71	76	38	90
15	37	83	285	123	135	310	740	735	72	85	35	61
16	31	92	195	146	127	640	579	524	100	71	34	51
17	30	99	144	230	128	700	460	420	99	64	40	48
18	32	95	137	243	117	450	390	348	85	61	42	48
19	32	93	139	2,430	122	400	355	298	80	63	36	46
20	32	93	263	1,080	157	390	309	262	88	56	34	47
21	31	92	922	1,680	168	380	278	242	84	53	31	62
22	29	102	390	1,290	1,180	350	280	258	81	51	31	75
23	28	107	306	1,450	916	340	362	300	74	54	32	60
24	28	110	255	1,130	520	410	309	295	68	55	36	52
25	28	235	245	710	432	360	278	275	66	50	35	49
26	28	285	910	534	330	350	250	255	213	48	32	49
27	28	198	1,890	620	283	340	230	225	178	47	38	47
28	30	233	796	508	280	390	213	202	116	45	83	55
29	80	240	588	565	------	665	248	210	146	52	99	62
30	102	193	460	436	------	1,200	270	212	390	63	93	76
31	113	------	351	365	------	1,020	------	180	------	49	62	------
TOTAL	1,280	4,162	10,563	15,760	7,443	21,986	15,433	17,052	3,454	4,949	1,438	1,891
MEAN	41.3	139	341	508	266	709	514	550	115	160	46.4	63.0
MAX	113	314	1,890	2,430	1,180	3,400	1,560	4,350	390	1,350	99	128
MIN	28	83	117	99	117	310	213	180	66	45	31	46
CFSM	.25	.84	2.05	3.06	1.60	4.27	3.10	3.31	.69	.96	.28	.38
IN.	.29	.93	2.37	3.53	1.67	4.93	3.46	3.82	.77	1.11	.32	.42

CAL YR 1973 TOTAL 100,681 MEAN 276 MAX 2,910 MIN 28 CFSM 1.66 IN 22.56
WTR YR 1974 TOTAL 105,411 MEAN 289 MAX 4,350 MIN 28 CFSM 1.74 IN 23.62

PEAK DISCHARGE (BASE 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	0545	6.57	3,080	3- 9	0330	8.37	5,870
1-19	0815	7.00	3,700	5-12	1845	9.04	6,870

03025200 Patchel Run near Franklin, Pa.

LOCATION.--Lat 41°25'20", long 79°50'59", Venango County, on right bank at downstream side of highway bridge, 0.7 mi (1.1 km) upstream from mouth, and 1.5 mi (2.4 km) northwest of Franklin.

DRAINAGE AREA.--5.69 mi^2 (14.74 km^2).

PERIOD OF RECORD.--Annual maximums and occasional discharge measurements, water years 1961-64. August 1964 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 1040.31 ft (317.086 m) above mean sea level. July 20, 1960, to Aug. 19, 1964, crest-stage gage at same site and at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--10 years, 8.82 ft^3/s (0.25 m^3/s), 21.05 in/yr (535 mm/yr).

EXTREMES.--Current year: Maximum discharge, 255 ft^3/s (7.22 m^3/s) May 12 (gage height, 4.67 ft or 1.423 m); minimum daily, 0.44 ft^3/s (0.012 m^3/s) Oct. 6-8.

Period of record: Maximum discharge, 1,650 ft^3/s (46.7 m^3/s) July 2, 1972 (gage height, 6.28 ft or 1.914 m), from rating curve extended above 130 ft^3/s (3.68 m^3/s) on basis of slope-area measurement at gage height 4.67 ft (1.423 m) from crest-stage gage, present datum; minimum, 0.42 ft^3/s (0.012 m^3/s) Oct. 8, 1966 (gage height, 2.89 ft or 0.881 m), result of unusual regulation.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	8.7	3.3	8.2	15	17	21	17	4.2	4.4	2.0	4.9
2	1.3	4.2	3.1	6.5	13	20	29	14	3.8	4.4	1.8	4.5
3	1.2	3.7	2.8	5.3	11	20	25	14	3.6	4.2	2.0	10
4	.80	3.1	2.8	4.5	9.0	22	29	12	3.5	3.6	2.8	5.0
5	.60	2.0	3.1	4.3	7.8	23	23	11	3.4	3.4	2.2	4.0
6	.44	1.2	2.6	4.3	7.8	19	20	12	3.4	3.3	2.0	3.4
7	.44	1.1	2.3	4.0	7.8	17	17	10	3.3	3.1	1.9	2.9
8	.44	1.1	2.0	3.8	8.2	30	15	9.7	3.3	3.0	2.0	2.5
9	.46	.98	3.3	3.2	7.0	45	14	10	3.2	2.9	1.9	2.2
10	.46	.98	3.5	3.0	6.0	38	12	10	3.1	2.9	1.8	2.0
11	.48	.98	2.8	3.0	6.2	29	14	9.4	3.0	2.8	1.9	1.9
12	.50	.98	2.4	2.9	6.4	23	16	111	3.0	2.6	2.1	1.8
13	.68	.92	7.3	2.7	6.6	19	13	47	2.8	2.5	2.1	17
14	.86	.92	10	2.5	6.8	16	17	24	2.8	2.8	1.8	5.6
15	.76	1.2	6.1	3.1	6.2	15	17	16	2.9	3.2	1.4	4.5
16	.86	2.3	5.3	4.2	5.8	21	15	12	3.3	2.5	1.8	3.0
17	1.0	1.7	4.3	6.1	5.2	16	15	9.7	2.9	2.2	2.8	2.1
18	1.3	1.4	4.2	13	4.8	15	14	8.1	2.8	2.3	1.9	1.9
19	1.4	1.3	3.8	83	4.6	15	13	7.0	2.6	2.4	1.7	1.8
20	1.3	1.2	13	44	6.4	14	11	5.9	2.8	2.1	1.4	4.2
21	1.1	1.3	15	45	7.9	14	11	5.5	2.7	2.0	1.2	5.1
22	1.0	1.3	9.2	36	21	12	12	6.4	2.6	1.9	1.0	4.5
23	1.1	1.2	8.2	45	15	12	11	8.1	2.5	2.1	1.8	4.0
24	1.0	2.0	6.9	36	14	13	11	5.8	2.4	2.0	2.3	3.0
25	1.1	6.9	9.8	30	12	12	10	5.2	2.5	1.9	1.8	2.3
26	1.2	4.4	27	26	11	11	9.5	5.0	3.2	1.8	1.2	2.1
27	1.3	3.9	41	24	10	10	10	4.9	2.7	1.8	3.4	1.9
28	2.3	5.0	27	22	9.0	12	11	4.8	2.4	1.7	4.2	2.9
29	4.7	4.4	20	20	------	21	8.9	4.8	3.0	1.9	7.0	4.0
30	3.3	3.7	14	18	------	23	12	4.5	7.6	2.2	3.6	3.7
31	3.7	------	10	17	------	24	------	4.3	------	2.1	2.6	------
TOTAL	38.98	74.06	276.1	530.6	251.5	598	456.4	429.1	95.3	82.0	69.4	118.7
MEAN	1.26	2.47	8.91	17.1	8.98	19.3	15.2	13.8	3.18	2.65	2.24	3.96
MAX	4.7	8.7	41	83	21	45	29	111	7.6	4.4	7.0	17
MIN	.44	.92	2.0	2.5	4.6	10	8.9	4.3	2.4	1.7	1.0	1.8
CFSM	.22	.43	1.57	3.01	1.58	3.39	2.67	2.43	.56	.47	.39	.70
IN.	.25	.48	1.81	3.47	1.64	3.91	2.98	2.81	.62	.54	.45	.78

CAL YR 1973 TOTAL 2,792.32 MEAN 7.65 MAX 44 MIN .44 CFSM 1.34 IN 18.26
WTR YR 1974 TOTAL 3,020.14 MEAN 8.27 MAX 111 MIN .44 CFSM 1.45 IN 19.75

PEAK DISCHARGE (BASE, 150 CFS).--Jan. 19 (0515) 171 cfs (4.47 ft), May 12 (1200) 255 cfs (4.67 ft).

03025500 Allegheny River at Franklin, Pa.

LOCATION.--Lat 41°23'22", long 79°49'14", Venango County, on right bank at downstream side of Eighth Street Bridge on U.S. Highway 322 at Franklin, 1,000 ft (305 m) downstream from French Creek, and at mile 124.4 (200.2 km).

DRAINAGE AREA.--5,982 mi^2 (15,493 km^2).

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at same site since April 1905 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 955.84 ft (291.340 m) above mean sea level. Prior to Sept. 16, 1932, nonrecording gage, and Sept. 16-30, 1932, water-stage recorder, at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--60 years, 10,300 ft^3/s (291.7 m^3/s), 23.38 in/yr (594 mm/yr), adjusted for storage since 1940.

EXTREMES.--Current year: Maximum discharge, 58,700 ft^3/s (1,660 m^3/s) Mar. 9 (gage height, 13.08 ft or 3.987 m); minimum, 1,500 ft^3/s (42.5 m^3/s) Aug. 27 (gage height, 2.48 ft or 0.756 m).

Period of record: Maximum discharge, 138,000 ft^3/s (3,910 m^3/s) Mar. 13, 1920 (gage height, 20.65 ft or 6.294 m, present datum); maximum gage height observed, 26.0 ft (7.92 m) present datum, Feb. 27, 1917 (backwater from ice) and Feb. 26, 1926 (backwater from ice); minimum discharge, 334 ft^3/s (9.46 m^3/s) July 30, 1934 (gage height, 1.63 ft or 0.497 m).

Flood of Mar. 17, 1865, reached a stage of 25.0 ft (7.62 m) present datum, and that of Mar. 26, 1913, a stage of 24.6 ft (7.50 m) present datum, from graph based on gage readings (discharge, 196,000 ft^3/s or 5,550 m^3/s and 191,000 ft^3/s or 5,410 m^3/s, respectively, from rating curve extended above 120,000 ft^3/s or 3,400 m^3/s). Maximum discharge since at least 1864 is that of Mar. 17, 1865.

REMARKS.--Records good. Flow regulated by Allegheny Reservoir 74 mi (119 km) upstream since 1965, by Chautauqua Lake, by Tionesta Lake since 1940, by Union City Reservoir since 1971, and by Woodcock Creek Lake since January 1974 (see p. 245).

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 783: 1913 (M). WSP 1003: 1920 (M). WSP 1305: 1926 (M), 1928-29 (M). WSP 1385: 1920, 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,720	11,600	9,890	24,700	21,900	13,800	18,500	9,260	5,630	27,500	1,970	2,640
2	4,960	15,300	9,440	23,400	20,800	17,000	22,600	8,760	6,150	20,500	2,020	2,940
3	4,510	14,100	8,480	22,600	19,700	19,200	25,400	8,580	5,910	20,000	2,000	3,740
4	3,860	12,600	7,550	20,200	18,500	23,400	25,600	8,400	4,760	18,100	2,200	5,630
5	3,950	11,500	6,840	18,000	17,000	28,500	24,200	8,060	3,820	15,600	2,840	5,210
6	4,940	10,200	6,430	15,600	14,500	29,400	28,200	8,270	3,170	15,800	3,080	4,710
7	4,470	8,770	6,850	13,000	14,100	28,200	29,100	9,140	2,760	13,900	3,390	4,180
8	3,960	5,880	7,120	12,800	13,700	29,600	28,700	9,480	2,620	11,800	3,220	3,910
9	3,710	5,790	8,510	12,100	13,300	49,600	28,700	9,910	2,660	6,970	3,240	3,230
10	3,820	5,630	8,900	12,000	12,800	43,800	29,300	11,300	2,750	6,690	3,680	3,160
11	3,510	6,160	8,870	11,900	12,800	37,900	29,400	11,300	3,000	5,520	3,200	3,560
12	3,500	6,070	8,640	9,990	12,800	35,600	27,300	27,300	3,160	4,970	2,460	3,340
13	3,650	6,080	8,630	9,140	12,600	31,300	23,700	43,100	3,280	3,350	2,610	4,170
14	3,380	5,170	11,200	9,200	12,800	27,400	23,000	31,500	3,160	3,180	2,700	5,580
15	3,320	5,260	12,000	9,360	12,800	24,200	25,300	29,400	3,160	3,140	2,700	3,870
16	3,300	5,280	10,900	10,800	11,500	23,200	26,000	26,300	3,650	2,930	2,250	3,140
17	3,310	5,560	9,570	13,100	8,980	24,500	24,400	28,300	4,490	2,930	2,460	3,950
18	3,880	7,420	6,900	14,000	8,120	22,700	22,500	27,200	3,860	3,130	2,290	4,070
19	3,980	7,540	5,550	25,700	7,060	21,300	21,100	24,800	2,590	3,610	1,800	4,120
20	3,860	6,410	6,760	22,100	6,490	19,500	19,000	20,300	2,770	2,880	1,750	3,760
21	3,690	4,890	13,400	22,200	6,200	16,700	17,500	15,100	3,180	2,060	1,910	4,400
22	3,540	5,700	13,800	30,100	9,220	15,500	14,700	12,100	3,360	1,960	1,900	5,500
23	3,440	6,460	13,900	29,800	22,100	14,700	13,300	11,200	3,160	2,010	1,810	5,710
24	3,370	6,340	13,600	31,500	19,400	15,100	13,000	10,700	3,070	2,150	1,880	5,450
25	3,320	8,110	15,200	29,100	16,600	14,200	12,700	10,100	3,140	2,120	1,840	5,110
26	3,360	12,100	21,300	27,000	13,500	13,800	12,400	9,450	3,840	2,020	1,710	4,870
27	3,460	10,000	34,300	25,700	11,500	12,000	10,200	8,400	5,640	1,990	1,670	4,510
28	3,350	8,830	31,500	24,700	10,700	11,300	8,640	6,570	4,910	2,020	2,410	4,020
29	3,990	10,400	28,800	24,600	------	12,300	8,260	5,410	4,220	2,130	2,610	4,140
30	6,780	10,800	29,000	26,200	------	16,200	7,960	5,130	5,180	2,320	3,100	4,070
31	9,360	------	27,000	24,900	------	17,500	------	5,220	------	2,110	2,660	------
TOTAL	126,250	245,950	410,830	605,490	381,470	709,400	620,660	460,040	113,050	215,390	75,360	126,690
MEAN	4,073	8,198	13,250	19,530	13,620	22,880	20,690	14,840	3,768	6,948	2,431	4,223
MAX	9,360	15,300	34,300	31,500	22,100	49,600	29,400	43,100	6,150	27,500	3,680	5,710
MIN	3,300	4,890	5,550	9,140	6,200	11,300	7,960	5,130	2,590	1,960	1,670	2,640
MEAN≠	2,723	8,728	14,930	16,850	11,500	24,160	23,840	15,190	4,200	6,730	2,088	4,632
CFSM≠	.46	1.46	2.50	2.82	1.92	4.04	3.99	2.54	.70	1.13	.35	.77
IN.≠	.53	1.63	2.88	3.25	2.00	4.66	4.45	2.93	.78	1.30	.40	.86

CAL YR 1973 TOTAL 3,505,900 MEAN 9,605 MAX 38,800 MIN 1,060 MEAN≠ 9,780 CFSM≠ 1.63 IN.≠ 22.21
WTR YR 1974 TOTAL 4,090,580 MEAN 11,210 MAX 49,600 MIN 1,670 MEAN≠ 11,310 CFSM≠ 1.89 IN.≠ 25.67

≠ Adjusted for change in contents in Allegheny Reservoir, Chautauqua Lake, Tionesta Lake, Union City Reservoir, and Woodcock Creek Lake.

03026500 Sevenmile Run near Rasselas, Pa.

LOCATION.--Lat 41°37'52", long 78°34'37", McKean County, on right bank 300 ft (91 m) upstream from highway bridge, 600 ft (183 m) upstream from Fivemile Run, and 3.2 mi (5.1 km) northeast of Rasselas.

DRAINAGE AREA.--7.84 mi^2 (20.31 km^2).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,690.73 ft (515.335 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 13.9 ft^3/s (0.394 m^3/s), 24.07 in/yr (611 mm/yr).

EXTREMES.--Current year: Maximum discharge, 415 ft^3/s (11.8 m^3/s) June 30 (gage height, 4.40 ft or 1.341 m); minimum, 0.95 ft^3/s (0.027 m^3/s) Oct. 1, 2.
Period of record: Maximum discharge, 1,620 ft^3/s (45.9 m^3/s) Sept. 28, 1967 (gage height, 4.79 ft or 1.460 m), from rating curve extended above 200 ft^3/s (5.66 m^3/s) on basis of slope-area measurement at gage height, 4.60 ft (1.402 m); maximum gage height, 4.84 ft (1.475 m) June 21, 1972; minimum discharge, 0.07 ft^3/s (0.002 m^3/s) Sept. 21, 1955.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	38	22	21	25	20	22	16	20	133	1.8	3.7
2	1.4	28	19	18	22	16	71	12	11	52	1.8	4.3
3	2.0	22	16	16	18	20	71	13	7.7	38	3.7	74
4	1.5	18	15	14	16	32	119	13	6.8	25	16	40
5	2.2	14	14	13	15	43	73	11	5.9	20	11	22
6	1.9	13	13	11	13	35	51	14	5.2	16	6.5	16
7	1.5	11	11	9.7	11	29	38	12	4.8	12	5.0	12
8	1.4	10	9.3	9.4	9.4	58	31	11	4.6	9.8	4.6	9.8
9	1.4	9.2	11	8.8	9.2	102	26	14	4.0	8.1	5.2	7.7
10	1.4	8.4	12	7.9	10	95	23	16	6.5	6.8	4.0	6.5
11	1.4	7.4	10	8.1	7.0	56	23	13	10	5.9	3.1	5.9
12	1.3	7.1	9.1	7.3	6.5	40	26	73	5.6	5.2	2.5	5.4
13	1.3	6.5	8.7	7.7	6.2	30	25	72	4.6	4.6	2.5	5.6
14	1.5	6.2	8.4	13	6.5	24	35	45	4.3	5.0	2.1	6.5
15	1.4	6.2	7.4	8.5	5.6	20	49	33	7.1	14	1.8	4.8
16	1.2	9.3	7.0	6.5	6.6	29	37	26	44	5.4	1.7	4.0
17	1.5	8.1	6.4	7.1	4.4	25	29	22	30	4.3	2.8	3.7
18	1.8	7.1	6.7	6.5	4.2	21	25	18	19	3.7	2.3	5.6
19	2.0	7.1	7.2	31	3.9	20	23	15	15	3.4	1.7	4.3
20	1.8	6.8	16	24	4.7	18	19	12	12	2.8	1.6	5.6
21	1.5	6.5	34	39	4.3	18	17	11	9.8	2.3	1.5	18
22	1.4	7.4	22	43	41	15	17	9.3	8.5	2.1	1.4	20
23	1.4	6.8	18	62	44	15	19	11	6.8	3.4	1.4	14
24	1.4	8.9	15	54	26	16	17	11	5.9	4.6	1.5	11
25	1.3	20	14	38	22	13	15	9.8	6.8	2.5	1.3	9.8
26	1.3	21	43	29	18	12	13	7.1	16	3.7	1.2	8.5
27	1.3	21	109	50	15	12	12	6.8	11	3.4	1.3	7.4
28	1.4	37	60	50	14	11	11	5.9	7.4	2.3	1.8	6.8
29	9.2	35	41	48	------	11	11	5.9	11	2.1	7.1	9.3
30	47	27	33	36	------	16	11	5.6	68	2.5	5.6	10
31	23	------	25	30	------	26	------	12	------	2.0	3.4	------
TOTAL	121.1	434.0	643.2	727.5	388.5	898	959	556.4	379.3	405.9	109.2	362.2
MEAN	3.91	14.5	20.7	23.5	13.9	29.0	32.0	17.9	12.6	13.1	3.52	12.1
MAX	47	38	109	62	44	102	119	73	68	133	16	74
MIN	1.0	6.2	6.4	6.5	3.9	11	11	5.6	4.0	2.0	1.2	3.7
CFSM	.50	1.85	2.64	3.00	1.77	3.70	4.08	2.28	1.61	1.67	.45	1.54
IN.	.57	2.06	3.05	3.45	1.84	4.26	4.55	2.64	1.80	1.93	.52	1.72

CAL YR 1973 TOTAL 4,837.65 MEAN 13.3 MAX 212 MIN .95 CFSM 1.70 IN 22.95
WTR YR 1974 TOTAL 5,984.30 MEAN 16.4 MAX 133 MIN 1.0 CFSM 2.09 IN 28.39

PEAK DISCHARGE (BASE, 200 CFS).--June 30 (2315) 415 cfs (4.40 ft).

03027500 East Branch Clarion River at East Branch Clarion River Dam, Pa.

LOCATION.--Lat 41°33'11", long 78°35'47", Elk County, on left bank 700 ft (213 m) upstream from Middle Fork, 0.5 mi (0.8 km) downstream from East Branch Clarion River Dam, and 1.2 mi (1.9 km) northeast of Glen Hazel.

DRAINAGE AREA.--73.2 mi^2 (189.6 km^2).

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,517.58 ft (462.558 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--26 years, 134 ft^3/s (3.795 m^3/s), 24.86 in/yr (631 mm/yr), adjusted for storage since 1952.

EXTREMES.--Current year: Maximum discharge, 585 ft^3/s (16.6 m^3/s) July 1 (gage height, 3.99 ft or 1.216 m); minimum daily, 40 ft^3/s (1.13 m^3/s) Apr. 28-30.

Period of record: Maximum discharge, 2,590 ft^3/s (73.3 m^3/s) May 10, 1957 (gage height, 7.25 ft or 2.210 m); minimum, 0.20 ft^3/s (0.006 m^3/s) July 25, 1969 (gage height, 1.06 ft or 0.323 m); minimum daily, 0.40 ft^3/s (0.011 m^3/s) July 24-27, 1969.

Flood of May 28, 1946, reached a stage of 8.3 ft (2.53 m) from graph based on gage readings at site 1,000 ft (305 m) downstream and at different datum (discharge, 4,000 ft^3/s or 113 m^3/s).

REMARKS.--Records good. Flow completely regulated since June 1952 by East Branch Clarion River Lake 0.5 mi (0.8 km) upstream (see p. 246).

COOPERATION.--Four discharge measurements furnished by Corps of Engineers.

REVISIONS.--WSP 1235: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	149	154	258	385	60	63	42	100	268	160	145
2	134	149	154	254	380	60	63	43	99	555	157	145
3	134	149	154	252	377	60	63	45	99	530	157	96
4	134	149	152	250	382	60	63	45	69	515	157	106
5	134	147	150	248	216	60	63	44	45	505	157	232
6	134	147	147	248	107	62	63	44	45	495	157	230
7	134	147	147	246	106	62	63	43	45	490	200	225
8	134	145	145	243	104	64	168	43	44	486	343	225
9	134	143	147	244	104	68	402	43	44	486	474	222
10	134	143	147	245	104	68	540	42	44	482	470	222
11	134	140	145	245	102	68	534	42	43	362	470	222
12	134	140	147	244	102	170	364	42	43	240	350	222
13	134	140	147	243	102	268	150	161	43	240	208	222
14	136	138	147	243	101	263	150	462	43	240	160	222
15	134	140	145	243	100	260	150	545	45	240	160	222
16	134	143	145	241	100	268	150	535	48	240	160	192
17	134	142	144	240	100	263	150	530	48	240	160	147
18	134	140	143	240	99	261	150	525	46	240	160	147
19	134	140	143	140	99	261	150	392	183	240	160	147
20	134	140	143	67	99	259	150	265	365	240	157	147
21	134	140	145	68	77	259	150	200	495	240	157	147
22	134	140	147	70	56	256	115	107	364	208	151	147
23	132	140	149	70	60	256	82	105	198	162	145	147
24	132	140	150	72	63	255	80	105	151	153	145	147
25	132	143	149	72	61	164	78	103	151	160	143	147
26	132	146	150	72	62	62	59	100	153	160	143	147
27	132	149	150	72	60	61	41	100	151	160	143	149
28	132	152	150	72	61	61	40	100	151	160	145	149
29	136	155	150	190	------	61	40	100	151	160	145	149
30	138	155	204	327	------	61	40	100	172	160	145	149
31	142	------	261	388	------	62	------	100	------	160	145	------
TOTAL	4,156	4,331	4,751	6,107	3,769	4,523	4,374	5,153	3,678	9,217	6,184	5,216
MEAN	134	144	153	197	135	146	146	166	123	297	199	174
MAX	142	155	261	388	385	268	540	545	495	555	474	232
MIN	132	138	143	67	56	60	40	42	43	153	143	96
MEAN≠	62.8	187	234	264	142	291	292	180	93.9	151	47.0	145
CFSM≠	.86	2.55	3.20	3.61	1.94	3.98	3.99	2.46	1.28	2.06	.64	1.98
IN.≠	.99	2.85	3.69	4.16	2.02	4.59	4.45	2.84	1.43	2.37	.74	2.21

CAL YR 1973 TOTAL 50,801 MEAN 139 MAX 520 MIN 27 MEAN≠ 146 CFSM≠ 1.99 IN.≠ 27.11
WTR YR 1974 TOTAL 61,459 MEAN 168 MAX 555 MIN 40 MEAN≠ 174 CFSM≠ 2.38 IN.≠ 32.34

≠ Adjusted for change in contents in East Branch Clarion River Lake.

03028000 West Branch Clarion River at Wilcox, Pa.

LOCATION.--Lat 41°34'31", long 78°41'33", Elk County, on right bank 20 ft (6 m) downstream from highway bridge at Wilcox, 100 ft (30 m) downstream from Wilson Run, and 0.1 mi (0.2 km) upstream from Penn Central Railroad bridge.

DRAINAGE AREA.--63.0 mi^2 (163.2 km^2).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,502.02 ft (457.816 m) above mean sea level. Prior to Nov. 18, 1953, nonrecording gage at site 20 ft (6 m) upstream at same datum. Nov. 18 to Dec. 8, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--21 years, 121 ft^3/s (3.427 m^3/s), 26.08 in/yr (662 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,550 ft^3/s (72.2 m^3/s) June 30 (gage height, 7.09 ft or 2.161 m); minimum, 9.7 ft^3/s (0.27 m^3/s) Oct. 1, 2 (gage height, 1.37 ft or 0.418 m).
Period of record: Maximum discharge, 5,490 ft^3/s (155 m^3/s) Sept. 28, 1967 (gage height, 10.01 ft or 3.051 m), from rating curve extended above 3,000 ft^3/s (85.0 m^3/s); minimum, 4.2 ft^3/s (0.12 m^3/s) Sept. 21, 1955 (gage height, 1.27 ft or 0.387 m).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	277	192	209	245	210	245	158	220	1,140	30	67
2	19	200	163	169	215	165	569	120	118	533	34	65
3	24	163	145	140	185	213	589	140	100	352	49	593
4	17	135	135	110	148	319	881	130	88	245	270	358
5	23	115	129	84	122	437	665	122	76	203	130	248
6	17	99	121	92	130	384	489	143	68	158	94	190
7	14	84	99	80	120	331	364	126	62	124	74	150
8	13	72	89	68	104	573	304	118	55	102	78	120
9	17	66	111	72	94	850	260	133	50	86	74	100
10	17	58	109	78	94	777	230	135	68	76	60	86
11	14	53	103	82	86	553	220	120	72	67	52	74
12	13	50	89	70	80	409	228	553	50	55	47	70
13	13	48	85	78	78	304	223	617	43	49	45	82
14	20	45	95	94	74	243	307	445	40	74	40	80
15	15	46	87	85	63	205	385	331	96	374	36	58
16	14	71	66	82	86	313	328	258	298	112	34	50
17	23	58	54	84	58	253	278	218	258	86	50	46
18	25	50	62	78	55	215	243	180	172	72	40	78
19	24	48	72	371	53	210	223	145	150	65	35	50
20	20	48	147	245	63	185	185	122	128	55	34	62
21	17	50	336	442	56	183	160	108	112	49	27	158
22	16	56	216	432	377	158	165	102	98	43	26	143
23	15	50	201	637	313	155	178	106	82	63	24	116
24	15	77	165	577	240	160	150	102	68	65	30	104
25	14	170	151	425	218	130	133	82	82	45	24	98
26	14	165	434	325	185	126	124	70	152	39	22	92
27	14	180	887	417	160	122	116	62	104	43	25	82
28	16	276	646	409	148	118	110	58	78	35	39	76
29	109	249	460	409	------	120	110	62	98	38	133	94
30	307	222	343	343	------	195	114	58	509	42	94	94
31	145	------	255	295	------	280	------	116	------	34	56	------
TOTAL	1,035	3,281	6,247	7,082	3,850	8,896	8,576	5,240	3,595	4,524	1,806	3,684
MEAN	33.4	109	202	228	138	287	286	169	120	146	58.3	123
MAX	307	277	887	637	377	850	881	617	509	1,140	270	593
MIN	11	45	54	68	53	118	110	58	40	34	22	46
CFSM	.53	1.73	3.21	3.62	2.19	4.56	4.54	2.68	1.90	2.32	.93	1.95
IN.	.61	1.94	3.69	4.18	2.27	5.25	5.06	3.09	2.12	2.67	1.07	2.18

CAL YR 1973 TOTAL 45,391.4 MEAN 124 MAX 1,720 MIN 9.7 CFSM 1.97 IN 26.80
WTR YR 1974 TOTAL 57,816.0 MEAN 158 MAX 1,140 MIN 11 CFSM 2.51 IN 34.14

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	0500	4.57	1,020	5-12	1830	5.05	1,260
3- 8	2330	5.56	1,540	6-30	2330	7.09	2,550
4- 4	0330	4.96	1,220	7-15	0200	4.75	1,120

03028500 Clarion River at Johnsonburg, Pa.

LOCATION.--Lat 41°29'10", long 78°40'43", Elk County, on right bank at downstream side of highway bridge in Johnsonburg, 0.1 mi (0.2 km) downstream from Johnson Run, and 0.4 mi (0.6 km) downstream from confluence of East and West Branches.

DRAINAGE AREA.--204 mi^2 (528 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,423.03 ft (433.740 m) above mean sea level. Prior to Nov. 8, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--29 years, 375 ft^3/s (10.62 m^3/s), 24.96 in/yr (634 mm/yr), adjusted for storage since 1952.

EXTREMES.--Current year: Maximum discharge, 4,390 ft^3/s (124 m^3/s) July 1 (gage height, 6.86 ft or 2.091 m); minimum, 118 ft^3/s (3.34 m^3/s) June 15 (gage height, 1.62 ft or 0.494 m).
Period of record: Maximum discharge, 11,700 ft^3/s (331 m^3/s) May 28, 1946 (gage height, 9.2 ft or 2.80 m), from graph based on gage readings; maximum gage height, 9.94 ft (3.030 m) June 22, 1972; minimum discharge, 6 ft^3/s (0.17 m^3/s) Sept. 18, 1952 (gage height, 0.68 ft or 0.207 m), result of regulation above station; minimum daily 20 ft^3/s (0.57 m^3/s) Oct. 5, 1948, Nov. 6, 1951.
Flood in July 1942 reached a stage of 16.7 ft (5.09 m) from floodmark.

REMARKS.--Records good. Flow regulated since June 1952 by East Branch Clarion River Lake 7.9 mi (12.7 km) upstream (see p. 246) and at low flow by industrial plants above station.

COOPERATION.--Two discharge measurements furnished by Corps of Engineers.

REVISIONS.--WSP 1235: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	826	609	651	875	423	586	435	435	2,570	228	369
2	178	705	513	567	805	349	1,200	336	268	1,680	219	413
3	194	597	459	519	738	423	1,280	374	237	1,330	240	1,610
4	182	495	417	489	690	639	1,640	352	210	1,090	506	1,130
5	196	423	405	422	471	861	1,320	315	170	981	396	897
6	182	379	369	435	313	791	1,040	341	160	897	310	722
7	175	340	331	405	322	699	813	310	150	827	310	586
8	175	313	304	349	288	1,050	750	280	144	778	462	512
9	175	292	369	363	251	1,670	897	310	139	736	701	457
10	174	275	405	369	236	1,570	995	320	144	715	680	424
11	172	263	349	389	251	1,180	974	280	175	580	652	407
12	175	255	331	363	240	981	876	1,240	139	391	523	391
13	178	244	326	317	236	890	586	1,440	132	369	300	440
14	188	232	335	340	240	757	666	1,370	127	380	222	462
15	172	232	313	363	200	673	897	1,250	202	1,060	213	391
16	170	304	275	379	184	932	764	1,090	659	539	210	330
17	175	271	251	405	193	827	680	1,000	501	457	240	252
18	188	255	267	379	181	715	604	925	336	424	234	300
19	190	251	263	1,020	181	694	562	736	380	407	216	260
20	185	248	389	699	200	645	501	520	574	385	213	268
21	183	244	833	938	175	631	457	429	743	369	204	468
22	178	255	609	1,050	633	580	424	290	610	315	204	495
23	178	248	561	1,250	675	568	418	315	369	272	204	418
24	178	304	483	1,260	471	598	369	290	256	285	202	385
25	175	597	447	987	441	473	330	256	272	248	196	369
26	175	597	973	744	369	325	295	234	424	244	190	352
27	172	591	1,710	805	317	310	248	219	358	300	202	320
28	167	952	1,330	812	313	295	237	210	280	244	244	305
29	385	854	1,010	938	------	300	234	219	325	258	479	380
30	987	712	847	959	------	402	264	216	1,000	280	468	385
31	615	------	751	973	------	722	------	216	------	237	315	------
TOTAL	6,982	12,554	16,834	19,939	10,489	21,973	20,907	16,118	9,919	19,648	9,983	14,498
MEAN	225	418	543	643	375	709	697	520	331	634	322	483
MAX	987	952	1,710	1,260	875	1,670	1,640	1,440	1,000	2,570	701	1,610
MIN	165	232	251	317	175	295	234	210	127	237	190	252
MEAN≠	154	461	624	710	382	854	843	534	302	488	170	454
CFSM≠	.75	2.26	3.06	3.48	1.87	4.19	4.13	2.62	1.48	2.39	.83	2.23
IN.≠	.86	2.52	3.53	4.01	1.95	4.83	4.61	3.02	1.65	2.76	.96	2.49

CAL YR 1973 TOTAL 140,904 MEAN 386 MAX 2,650 MIN 103 MEAN≠ 393 CFSM≠ 1.93 IN.≠ 26.14
WTR YR 1974 TOTAL 179,844 MEAN 493 MAX 2,570 MIN 127 MEAN≠ 499 CFSM≠ 2.45 IN.≠ 33.19

≠ Adjusted for change in contents in East Branch Clarion River Lake.

03029400 Toms Run at Cooksburg, Pa.

LOCATION.--Lat 41°20'16", long 79°12'50", Clarion County, on right bank about 100 ft (30 m) downstream from footbridge on Longfellow Trail, Cook Forest State Park, 0.6 mi (1.0 km) upstream from mouth, 0.5 mi (0.8 km) northwest of Cooksburg.

DRAINAGE AREA.--12.6 mi^2 (32.6 km^2).

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,180.74 ft (359.890 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 18.9 ft^3/s (0.535 m^3/s), 20.37 in/yr (517 mm/yr).

EXTREMES.--Current: Maximum discharge, 430 ft^3/s (12.2 m^3/s) Mar. 8 (gage height, 4.10 ft or 1.250 m); minimum daily, 1.10 ft^3/s (0.031 m^3/s) Oct. 12.
Period of record: Maximum discharge, 658 ft^3/s (18.6 m^3/s) Dec. 6, 1972 (gage height, 4.53 ft or 1.381 m); maximum gage height, 4.91 ft (1.497 m) Nov. 14, 1972; minimum daily discharge, 0.31 ft^3/s (0.009 m^3/s) Aug. 19, 1971; minimum gage height, 1.14 ft (0.347 m) Aug. 6, 1962.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	14	14	93	28	34	63	59	18	60	1.8	4.7
2	1.8	9.2	11	82	25	41	96	36	13	32	2.5	4.8
3	3.3	8.2	7.6	73	22	56	73	35	9.5	25	4.0	60
4	2.9	6.3	9.8	62	20	73	91	29	8.2	10	8.4	39
5	3.7	6.1	12	52	18	82	66	25	7.3	10	6.5	22
6	2.4	5.6	11	45	16	63	51	25	6.4	10	5.0	15
7	2.3	5.4	9.8	37	14	49	41	21	5.8	9.5	3.5	12
8	1.8	5.4	9.0	30	13	138	36	19	5.4	8.2	2.4	9.7
9	1.5	5.2	13	26	12	245	34	21	4.9	7.5	4.0	7.9
10	1.5	5.2	19	23	11	194	28	20	4.7	13	10	6.8
11	1.3	5.0	16	29	10	98	29	18	4.7	17	5.0	5.8
12	1.1	5.0	14	26	9.0	67	34	86	4.6	6.0	2.0	5.6
13	1.5	4.7	15	22	8.4	45	31	93	4.3	5.0	5.6	6.8
14	3.5	4.7	20	20	7.6	35	57	59	3.9	4.9	5.0	8.5
15	2.6	5.0	16	17	7.2	29	78	42	5.0	7.6	3.0	6.0
16	2.4	6.3	14	15	6.7	64	54	34	18	4.4	6.0	5.6
17	2.3	6.3	12	14	6.2	49	39	27	13	3.6	7.8	5.0
18	2.6	6.1	10	50	5.8	37	35	22	7.3	3.6	4.8	4.6
19	2.6	6.3	9.0	221	5.4	36	29	19	6.0	3.8	3.3	4.2
20	2.6	7.3	19	118	6.5	29	25	16	5.6	3.2	2.4	7.0
21	2.4	6.6	88	148	7.8	30	21	14	4.8	3.0	2.0	45
22	2.3	7.1	47	135	49	26	21	29	4.5	2.9	1.7	25
23	2.3	6.3	34	155	42	25	21	54	4.3	3.9	1.5	12
24	2.3	7.9	29	118	37	26	19	46	3.9	3.9	1.5	9.0
25	2.2	39	27	81	29	26	15	34	4.8	3.2	1.3	8.0
26	2.0	32	106	60	33	21	14	29	7.3	2.5	1.2	7.0
27	2.0	22	242	57	41	20	13	25	5.8	2.2	1.4	6.5
28	2.9	28	188	48	21	20	12	20	4.6	2.4	3.2	5.8
29	9.0	23	155	42	------	26	10	20	6.6	3.7	8.5	7.0
30	10	18	133	37	------	46	19	17	29	2.9	7.3	9.5
31	9.0	------	110	33	------	87	------	17	------	2.3	4.6	------
TOTAL	91.3	317.2	1,420.2	1,969	511.6	1,817	1,155	1,011	231.2	277.2	127.2	375.8
MEAN	2.95	10.6	45.8	63.5	18.3	58.6	38.5	32.6	7.71	8.94	4.10	12.5
MAX	10	39	242	221	49	245	96	93	29	60	10	60
MIN	1.1	4.7	7.6	14	5.4	20	10	14	3.9	2.2	1.2	4.2
CFSM	.23	.84	3.63	5.04	1.45	4.65	3.06	2.59	.61	.71	.33	.99
IN.	.27	.94	4.19	5.81	1.51	5.36	3.41	2.98	.68	.82	.38	1.11

CAL YR 1973 TOTAL 6,798.20 MEAN 18.6 MAX 242 MIN .40 CFSM 1.48 IN 20.07
WTR YR 1974 TOTAL 9,303.70 MEAN 25.5 MAX 245 MIN 1.1 CFSM 2.02 IN 27.47

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	0215	3.69	287	3- 8	2000	4.10	430
1-19	0530	3.67	281	4-14	2030	3.22	150
1-23	1545	3.47	221	5-12	1700	3.32	176

03029500 Clarion River at Cooksburg, Pa.

LOCATION.--Lat 41°19'50", long 79°12'33", Jefferson County, on left bank at downstream side of bridge on State Highway 36 at Cooksburg, 300 ft (90 m) downstream from Toms Run, and 2.7 mi (4.3 km) upstream from Cathers Run.

DRAINAGE AREA.--807 mi^2 (2,090 km^2).

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for October, November 1938, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,147.00 ft (349.606 m) above mean sea level. Prior to May 17, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 1.426 ft^3/s (40.38 m^3/s), 24.00 in/yr (610 mm/yr), adjusted for storage since 1952.

EXTREMES.--Current year: Maximum discharge, 15,500 ft^3/s (439 m^3/s) Mar. 10 (gage height, 10.56 ft or 3.219 m); minimum daily, 298 ft^3/s (8.44 m^3/s) Aug. 27 (gage height, 2.15 ft or 0.655 m).
Period of record: Maximum discharge, 53,300 ft^3/s (1,510 m^3/s) June 23, 1972 (gage height, 18.84 ft or 5.742 m); minimum, 41 ft^3/s (1.16 m^3/s) Aug. 30, 1939 (gage height, 1.22 ft or 0.372 m).
Maximum stage since 1935, 19 ft (5.8 m) Mar. 17, 1936, from floodmarks (discharge, about 56,000 ft^3/s or 1,590 m^3/s).

REMARKS.--Records good. Flow regulated by East Branch Clarion River Lake since June 1952 (see p. 246) and at low flow by industrial plants above station.

REVISIONS (WATER YEARS).--WSP 1305: 1939 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	395	1,900	2,470	2,730	2,680	1,610	4,530	2,300	1,400	6,920	442	915
2	347	2,510	2,010	2,280	2,370	2,020	5,370	2,760	1,300	5,350	414	1,260
3	367	1,810	1,720	1,960	2,150	2,110	7,630	2,200	936	4,300	390	3,430
4	431	1,500	1,530	1,790	1,930	2,610	7,590	2,130	819	3,010	461	7,120
5	506	1,280	1,420	1,580	1,670	3,320	6,800	1,860	718	2,410	1,020	3,450
6	917	1,130	1,400	1,480	1,380	3,770	5,580	1,680	590	2,310	686	2,370
7	612	1,030	1,280	1,410	1,210	3,280	4,370	1,640	540	1,820	523	1,810
8	550	936	1,120	1,270	1,160	3,400	3,540	1,470	495	1,520	478	1,460
9	435	867	1,040	1,190	1,090	11,800	3,100	1,340	460	1,300	710	1,220
10	403	815	1,570	1,220	951	13,800	2,930	1,370	436	1,260	866	1,040
11	387	765	1,590	1,220	866	8,980	2,890	1,360	425	1,150	805	922
12	387	716	1,330	1,270	866	6,260	3,040	1,960	472	1,040	742	845
13	363	674	1,220	1,050	852	4,780	3,030	9,280	418	749	640	837
14	403	647	1,330	931	836	3,820	2,720	5,920	383	665	471	1,110
15	493	625	1,380	996	828	3,190	3,420	4,550	369	403	386	1,050
16	407	621	1,220	1,190	762	3,590	3,440	3,580	1,840	1,330	361	799
17	363	827	1,060	1,350	687	5,140	2,950	2,970	2,950	838	371	682
18	363	808	959	1,480	672	3,950	2,560	2,570	2,110	693	434	590
19	371	748	945	5,020	646	3,430	2,270	2,170	1,360	662	444	653
20	367	722	959	6,930	638	3,220	2,100	1,740	1,160	616	381	569
21	375	693	3,390	5,510	666	2,940	1,850	1,430	1,240	557	360	739
22	359	668	3,290	7,570	948	3,050	1,670	1,300	1,290	528	337	2,230
23	335	661	2,550	6,300	3,790	2,750	1,630	1,850	1,110	529	323	1,610
24	335	655	2,150	7,360	2,620	2,690	1,640	1,850	823	604	314	1,210
25	331	1,320	1,830	5,400	2,150	2,590	1,510	1,520	655	589	308	1,030
26	319	2,940	2,740	4,070	1,870	2,250	1,350	1,240	693	476	307	959
27	315	2,320	7,000	3,390	1,630	2,000	1,220	1,080	909	443	300	878
28	308	3,130	6,860	3,460	1,490	1,860	1,070	966	805	520	364	785
29	387	3,900	4,940	3,460	------	1,810	984	901	690	443	1,120	749
30	411	3,050	4,020	3,250	------	2,160	961	929	866	506	1,640	1,040
31	2,690	------	3,240	2,930	------	3,970	------	866	------	541	1,470	------
TOTAL	15,032	40,268	69,563	91,047	39,408	122,150	93,745	68,782	28,262	44,082	17,868	43,362
MEAN	485	1,342	2,244	2,937	1,407	3,940	3,125	2,219	942	1,422	576	1,445
MAX	2,690	3,900	7,000	7,570	3,790	13,800	7,630	9,280	2,950	6,920	1,640	7,120
MIN	308	621	945	931	638	1,610	961	866	369	403	300	569
MEAN≠	414	1,385	2,325	3,004	1,414	4,085	3,271	2,233	913	1,276	424	1,416
CFSM≠	.51	1.72	2.88	3.72	1.75	5.06	4.05	2.77	1.13	1.58	.53	1.75
IN.≠	.59	1.92	3.32	4.29	1.82	5.83	4.52	3.19	1.26	1.82	.61	1.95

CAL YR 1973 TOTAL 527,627 MEAN 1,446 MAX 11,300 MIN 278 MEAN≠ 1,453 CFSM≠ 1.80 IN.≠ 24.41
WTR YR 1974 TOTAL 673,569 MEAN 1,845 MAX 13,800 MIN 300 MEAN≠ 1,851 CFSM≠ 2.29 IN.≠ 31.12

≠ Adjusted for change in contents in East Branch Clarion River Lake.

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-10	0800	10.26	15,500	7-1	1400	9.59	12,600
5-13	0400	9.41	11,900	9-4	0200	8.82	10,300

03030500 Clarion River near Piney, Pa.

LOCATION.--Lat 41°11'33", long 79°26'25", Clarion County, on left bank 0.2 mi (0.3 km) downstream from hydroelectric plant of Pennsylvania Electric Co., 2.3 mi (3.7 km) northeast of Piney, 2.4 mi (3.9 km) upstream from Piney Creek, and 3 mi (5 km) southwest of Clarion.

DRAINAGE AREA.--951 mi^2 (2,463 km^2).

PERIOD OF RECORD.--October 1944 to current year (monthly discharge only October 1944 to September 1947).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,002.06 ft (305.428 m) above mean sea level (Pennsylvania Electric Co. bench mark). Prior to Dec. 23, 1947, records from hydroelectric plant 0.2 mi (0.3 km) upstream.

AVERAGE DISCHARGE.--30 years, 1.724 ft^3/s (48.82 m^3/s), 24.62 in/yr (625 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 17,900 ft^3/s (507 m^3/s) Mar. 10 (gage height, 12.85 ft or 3.917 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Sept. 29.

Period of record: Maximum discharge, 74,500 ft^3/s (2,110 m^3/s) June 23, 1972 (gage height, 28.24 ft or 8.608 m, from floodmark), from rating curve extended above 17,000 ft^3/s (480 m^3/s) on basis of slope-area measurement at gage height 20.70 ft (6.309 m) in gage well, 21.8 ft (6.64 m) from outside high-water profile; minimum not determined.

The flood of Mar. 18, 1936 reached a discharge of 50,000 ft^3/s (1,420 m^3/s) as determined by Pennsylvania Electric Co. (elevation, 1,028.5 ft or 313.49 m, at lower pool of dam).

REMARKS.--Records good. Flow regulated by East Branch Clarion River Lake since June 1952 (see P.246) and by hydroelectric plant at Piney Dam 0.2 mi (0.3 km) upstream since 1924 (combined capacity of reservoirs, 113,200 acre-ft or 140 hm^3).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	720	2,650	2,640	3,340	2,880	2,380	4,700	3,030	1,280	7,840	698	1,180
2	760	3,110	2,010	2,150	1,950	2,800	5,840	4,620	1,290	6,280	322	39
3	720	1,780	2,300	2,280	2,250	2,600	7,840	2,910	1,520	4,870	60	4,740
4	700	1,290	1,970	2,500	2,590	3,100	8,260	1,840	946	4,610	167	8,060
5	1,850	2,020	1,780	1,510	1,460	4,140	7,060	2,380	500	4,300	1,160	5,110
6	138	1,230	1,780	485	1,610	4,610	6,110	2,740	669	1,580	1,020	3,680
7	505	1,340	1,770	1,950	1,440	4,160	4,660	1,500	930	1,570	738	1,850
8	1,220	1,170	986	1,110	1,220	4,080	4,610	2,030	490	1,900	738	994
9	923	2,040	698	1,100	898	13,500	3,620	3,470	24	1,550	778	1,420
10	910	639	1,950	906	500	15,800	3,680	1,670	506	1,730	738	1,190
11	581	31	2,100	2,520	906	9,280	2,840	1,480	524	1,740	330	1,520
12	611	1,210	1,820	1,090	1,080	6,440	3,930	3,050	500	1,350	1,150	1,560
13	87	1,020	1,790	64	1,070	5,340	3,450	10,400	946	54	994	1,700
14	29	1,040	2,150	655	1,060	4,380	3,430	6,920	24	27	1,060	211
15	585	1,050	914	1,260	1,790	2,940	4,720	5,810	882	2,030	542	530
16	856	989	1,450	1,440	890	3,960	3,990	4,690	2,000	1,340	167	1,210
17	583	607	1,810	2,120	20	4,560	3,220	4,100	3,550	1,150	28	930
18	595	30	922	2,320	866	4,530	2,850	2,570	2,140	946	26	770
19	747	1,020	778	8,040	938	3,270	2,750	2,490	1,570	1,550	1,040	1,030
20	29	998	2,080	8,800	866	3,300	2,800	1,810	1,490	44	554	1,460
21	29	1,000	3,800	7,080	898	3,260	1,120	1,640	1,740	26	346	722
22	587	1,020	4,700	9,060	2,940	3,370	1,880	2,040	1,590	946	342	1,500
23	574	1,010	2,960	7,520	4,590	2,200	1,850	2,140	754	584	179	2,450
24	584	995	2,910	8,700	1,830	2,190	2,400	2,250	1,880	560	28	1,570
25	912	1,600	1,620	6,280	3,360	2,800	1,470	2,080	46	560	27	1,560
26	940	3,940	3,380	5,390	1,950	2,190	1,820	1,360	1,530	1,300	994	938
27	34	3,480	7,420	3,750	2,190	1,810	1,110	524	33	27	330	938
28	33	3,990	7,840	4,130	1,460	1,790	298	1,060	2,220	26	548	554
29	1,050	3,990	5,900	4,640	------	2,360	1,110	1,490	200	1,020	1,570	19
30	3,540	3,870	4,660	3,990	------	2,750	1,760	930	161	554	2,330	1,170
31	2,640	------	4,580	3,520	------	4,290	------	1,110	------	542	1,700	------
TOTAL	24,072	50,159	83,468	109,700	45,502	134,180	105,178	86,134	31,935	52,606	20,704	50,605
MEAN	777	1,672	2,693	3,539	1,625	4,328	3,506	2,779	1,065	1,697	668	1,687
MAX	3,540	3,990	7,840	9,060	4,590	15,800	8,260	10,400	3,550	7,840	2,330	8,060
MIN	29	30	698	64	20	1,790	298	524	24	26	26	19
(/)	-114	+69.4	+71.8	+57.1	+21.7	+152	+140	+15.1	-8.4	-166	-167	+4.4
MEAN≠	663	1,741	2,765	3,596	1,647	4,480	3,646	2,794	1,057	1,531	501	1,691
CFSM≠	.70	1.83	2.91	3.78	1.73	4.71	3.83	2.94	1.11	1.61	.53	1.78
IN.≠	.81	2.04	3.35	4.36	1.80	5.43	4.27	3.39	1.24	1.86	.61	1.99

CAL YR 1973 TOTAL 642,255 MEAN 1,760 MAX 13,700 MIN 25 MEAN≠ 1,765 CFSM≠ 1.86 IN.≠ 25.19
WTR YR 1974 TOTAL 794,243 MEAN 2,176 MAX 15,800 MIN 19 MEAN≠ 2,182 CFSM≠ 2.29 IN.≠ 31.15

/ Change in contents, equivalent in cubic feet per second, in East Branch Clarion River Lake and Piney Reservoir. Records of contents in Piney Reservoir furnished by Pennsylvania Electric Co.
≠ Adjusted for change in contents.

03031500 Allegheny River at Parker, Pa.

LOCATION.--Lat 41°06'02", long 79°40'53", Armstrong County, on right bank 500 ft (150 m) downstream from bridge on State Highway 368 at Parker, 1.1 mi (1.8 km) downstream from Clarion River, and at mile 83.4 (134.2 km).

DRAINAGE AREA.--7,671 mi^2 (19,868 km^2).

PERIOD OF RECORD.--October 1932 to current year. Prior to October 1963, published as "at Parkers Landing". Gage-height records collected at same site since 1885 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 845.14 ft (257.599 m) above mean sea level, adjustment of 1907. Prior to Oct. 1, 1932, U.S. Weather Bureau gages at different datums. Oct. 1-28, 1932, nonrecording gage at datum 27.00 ft (8.230 m) lower.

AVERAGE DISCHARGE.--42 years, 13,090 ft^3/s (370.7 m^3/s), 23.17 in/yr (589 mm/yr), adjusted for storage since October 1940.

EXTREMES.--Current year: Maximum discharge, 76,400 ft^3/s (2,160 m^3/s) Mar. 10 (gage height, 13.92 ft or 4.243 m); minimum, 1,960 ft^3/s (55.5 m^3/s) Aug. 26, 27, (gage height, 1.56 ft or 0.475 m).
Period of record: Maximum discharge, about 175,000 ft^3/s (4,960 m^3/s) Jan. 22, 1959; maximum gage height, 29.60 ft (9.022 m) Jan. 21, 1959 (backwater from ice); minimum discharge, 409 ft^3/s (11.6 m^3/s) July 30, 1934 (gage height, 0.67 ft or 0.204 m).
Flood of Mar. 17, 1865 reached a stage of 29.4 ft (8.96 m), present datum (discharge, 250,000 ft^3/s or 7,080 m^3/s), from rating curve extended above 137,000 ft^3/s (3,880 m^3/s).

REMARKS.--Records good. Flow regulated since 1965 by Allegheny Reservoir, by Chautauqua Lake, since 1941 by Tionesta Lake, since 1971 by Union City Reservoir, since 1974 by Woodcock Creek Lake, since 1952 by East Branch Clarion River Lake (see p. 245), and since 1924 by Piney Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,470	16,400	15,200	31,000	27,200	16,500	26,600	14,900	6,730	25,800	2,950	4,400
2	6,240	20,000	13,600	28,200	25,100	21,800	30,400	15,700	7,860	31,900	2,720	4,410
3	7,290	18,900	12,600	25,200	24,200	24,800	37,000	13,400	8,290	25,900	2,630	7,450
4	5,720	16,100	11,000	23,000	22,400	28,200	38,300	12,500	7,070	25,300	2,440	14,400
5	6,980	15,100	10,500	19,600	20,100	34,700	35,300	11,300	5,170	19,800	3,510	11,700
6	6,950	13,400	9,420	15,900	17,800	37,600	35,900	12,300	4,440	18,800	4,450	9,310
7	5,870	11,700	9,910	15,700	16,900	34,900	36,300	12,400	4,230	16,700	4,180	7,850
8	5,660	9,300	9,230	14,600	16,200	33,800	35,500	12,200	3,670	15,500	4,500	5,890
9	5,520	8,040	9,790	14,200	15,600	63,300	34,800	13,000	3,170	11,000	4,300	5,780
10	5,020	7,670	12,200	14,200	14,400	70,500	34,500	14,000	3,120	8,690	4,430	4,840
11	5,080	7,160	12,400	14,800	14,400	54,000	34,900	13,900	3,600	8,520	4,660	5,080
12	4,530	7,260	11,900	13,800	15,000	46,400	34,800	27,800	3,690	7,220	4,470	5,500
13	4,520	7,730	11,800	10,700	14,800	40,800	30,100	62,000	4,370	5,350	3,530	5,470
14	4,650	7,420	14,700	10,000	14,800	35,100	29,100	45,200	4,030	3,470	4,040	6,740
15	4,180	6,750	15,600	11,500	15,100	30,300	31,900	39,000	3,560	4,970	3,600	6,120
16	4,460	7,390	14,500	12,800	14,200	29,800	32,500	34,400	5,960	4,480	3,620	4,810
17	4,560	6,360	13,100	16,800	11,300	32,600	30,600	33,400	7,600	4,520	2,450	4,640
18	4,490	8,270	11,100	18,400	9,220	30,300	28,100	32,100	8,240	4,160	3,250	5,510
19	4,990	8,720	7,460	43,800	9,730	27,300	26,100	29,700	5,120	4,790	2,820	5,350
20	5,070	8,960	8,300	41,900	8,430	25,600	24,400	25,300	4,640	4,700	2,680	5,710
21	4,320	7,820	17,500	32,900	8,520	23,000	21,000	19,700	4,880	2,730	2,530	5,960
22	4,310	6,480	24,100	42,000	11,200	21,500	19,200	15,500	5,130	2,630	2,590	6,840
23	4,350	7,670	19,200	40,900	27,100	19,700	17,300	14,900	4,730	2,680	2,510	8,950
24	4,360	8,080	18,700	45,100	25,700	18,700	16,200	14,600	4,960	3,090	2,300	8,180
25	4,350	11,100	18,800	39,400	22,400	19,500	16,200	13,500	4,510	2,990	2,140	7,300
26	4,650	17,600	23,700	35,800	18,800	17,900	15,300	12,100	4,460	3,440	2,530	7,110
27	4,340	17,700	42,700	32,300	15,600	16,500	13,900	11,000	6,470	2,720	2,560	6,610
28	3,940	15,400	45,700	31,500	14,400	14,600	10,500	9,160	6,430	2,220	3,280	5,570
29	5,720	16,000	39,200	31,300	------	15,500	10,400	7,660	6,830	2,770	5,110	5,270
30	11,500	16,800	37,600	31,800	------	21,700	10,400	6,790	5,650	3,090	5,590	5,140
31	14,200	------	34,400	30,700	------	24,800	------	6,950	------	3,150	5,760	------
TOTAL	173,290	337,280	555,910	789,800	470,600	931,700	797,500	606,360	158,610	283,080	108,130	197,890
MEAN	5,590	11,240	17,930	25,480	16,810	30,050	26,580	19,560	5,287	9,132	3,488	6,596
MAX	14,200	20,000	45,700	45,100	27,200	70,500	38,300	62,000	8,290	31,900	5,760	14,400
MIN	3,940	6,360	7,460	10,000	8,430	14,600	10,400	6,790	3,120	2,220	2,140	4,400
(/)	-1,470	+600	+1,750	-2,620	-2,100	+1,430	+3,290	+369	+424	-384	-510	+413
MEAN≠	4,120	11,840	19,680	22,860	14,710	31,480	29,870	19,930	5,711	8,748	2,978	7,009
CFSM≠	.54	1.54	2.57	2.98	1.92	4.10	3.89	2.60	.74	1.14	.39	.91
IN.≠	.62	1.72	2.96	3.44	2.00	4.73	4.34	3.00	.83	1.31	.45	1.02

CAL YR 1973 TOTAL 4,650,450 MEAN 12,740 MAX 56,200 MIN 1,350 MEAN≠ 12,920 CFSM≠ 1.68 IN.≠ 22.87
WTR YR 1974 TOTAL 5,410,150 MEAN 14,820 MAX 70,500 MIN 2,140 MEAN≠ 14,930 CFSM≠ 1.95 IN.≠ 26.42

/ Change in contents, equivalent in cubic feet per second, in Allegheny Reservoir, Chautauqua Lake, Tionesta Lake, Union City Reservoir, Woodcock Creek Lake, East Branch Clarion River Lake, and Piney Reservoir. Records of contents in Piney Reservoir furnished by Pennsylvania Electric Co.
≠ Adjusted for change in reservoir contents.

03031950 Big Run near Sprankle Mills, Pa.

LOCATION.--Lat 40°59'30", long 79°05'26", Jefferson County, on right bank at downstream side of highway bridge, 0.5 mi (0.8 km) downstream from McCracken Run, and 1.3 mi (2.1 km) southeast of Sprankle Mills.

DRAINAGE AREA.--7.38 mi^2 (19.11 km^2).

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

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 1,290 ft (393 m) from topographic map.

AVERAGE DISCHARGE.--11 years, 12.5 ft^3/s (0.354 m^3/s), 23.00 in/yr (584 mm/yr).

EXTREMES.--Current year: Maximum discharge, 521 ft^3/s (14.8 m^3/s) Aug. 28 (gage height, 5.27 ft or 1.606 m); minimum, 0.90 ft^3/s (0.025 m^3/s) July 20, 21, 22, 23, Aug. 3 (gage height, 1.95 ft or 0.594 m).
Period of record: Maximum discharge, 854 ft^3/s (24.2 m^3/s) June 22, 1972 (gage height, 6.11 ft or 1.862 m); maximum gage height, 6.23 ft (1.899 m) Feb. 13, 1966; minimum discharge, 0.2 ft^3/s (0.006 m^3/s) July 20, 28, 29, 30, Aug. 19, 24, 30, 31, 1965; minimum gage height, 1.90 ft (0.579 m) Aug. 17, 18, 1971.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	50	23	16	15	16	41	22	5.3	4.5	1.1	21
2	15	24	19	13	14	24	55	12	4.1	2.5	1.1	17
3	9.0	18	16	12	12	21	35	17	3.7	2.2	1.1	145
4	5.8	13	14	11	9.5	19	29	13	3.4	1.9	5.3	48
5	22	11	13	9.5	7.7	24	27	11	3.1	1.9	1.9	24
6	18	10	11	9.5	8.3	19	22	10	3.1	1.9	1.5	17
7	15	8.3	8.9	8.3	8.9	17	18	8.9	2.8	1.7	1.3	13
8	12	7.2	8.3	6.7	7.2	15	17	8.3	2.5	1.5	1.1	10
9	9.0	6.7	21	8.3	6.2	34	20	8.3	2.2	1.5	15	8.3
10	7.0	6.2	20	8.3	5.3	45	21	7.2	2.2	3.7	6.7	7.2
11	5.5	5.3	15	17	4.9	27	23	6.7	2.2	3.4	2.8	6.2
12	4.5	4.9	13	11	5.5	21	23	102	2.2	1.9	2.8	6.7
13	3.5	4.5	21	10	8.9	17	22	49	1.9	1.5	3.1	12
14	6.8	4.9	33	9.5	10	14	28	28	1.7	1.3	1.9	19
15	6.0	7.7	22	15	7.7	13	29	20	3.1	1.7	1.7	8.9
16	5.4	23	18	32	7.2	58	21	15	9.5	1.3	1.5	7.2
17	4.5	12	14	39	6.7	32	17	13	7.2	1.1	6.2	6.2
18	4.0	10	13	36	5.7	23	15	11	3.1	1.3	2.5	5.7
19	3.7	9.5	11	152	7.2	20	13	9.5	2.8	1.3	1.9	4.9
20	3.4	7.7	49	60	11	16	11	7.7	3.1	1.1	1.7	6.2
21	3.1	7.7	61	71	8.9	36	10	7.2	2.5	1.1	1.5	55
22	3.1	6.7	30	48	59	24	11	13	2.2	1.1	1.5	25
23	3.1	6.2	23	40	29	20	11	16	3.7	3.7	1.3	16
24	2.8	11	18	30	19	17	8.9	10	2.2	2.8	1.3	13
25	2.8	39	17	23	16	13	7.7	7.7	4.5	1.5	1.3	10
26	2.8	25	73	20	13	13	7.2	6.2	5.7	1.3	1.3	8.9
27	2.5	63	71	20	11	11	6.7	5.7	3.7	1.1	1.7	7.2
28	3.1	94	39	23	11	10	6.2	4.9	2.8	2.8	86	6.7
29	30	51	30	25	------	44	5.7	6.2	3.7	2.5	38	8.3
30	48	32	23	20	------	48	13	5.3	3.4	1.5	78	6.7
31	23	------	20	17	------	61	------	5.3	------	1.3	25	------
TOTAL	309.4	579.5	768.2	821.1	335.8	772	574.4	467.1	103.6	59.9	299.1	550.3
MEAN	9.98	19.3	24.8	26.5	12.0	24.9	19.1	15.1	3.45	1.93	9.65	18.3
MAX	48	94	73	152	59	61	55	102	9.5	4.5	86	145
MIN	2.5	4.5	8.3	6.7	4.9	10	5.7	4.9	1.7	1.1	1.1	4.9
CFSM	1.35	2.62	3.36	3.59	1.63	3.37	2.59	2.05	.47	.26	1.31	2.48
IN.	1.56	2.92	3.87	4.14	1.69	3.89	2.90	2.35	.52	.30	1.51	2.77

CAL YR 1973 TOTAL 4,997.2 MEAN 13.7 MAX 100 MIN 1.1 CFSM 1.86 IN 25.19
WTR YR 1974 TOTAL 5,640.4 MEAN 15.5 MAX 152 MIN 1.1 CFSM 2.10 IN 28.43

PEAK DISCHARGE (BASE, 180 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	0530	4.40	290	9- 3	1215	4.86	398
5-12	1515	4.24	258	9-21	1400	3.85	198
8-28	2030	5.27	521				

03032500 Redbank Creek at St. Charles, Pa.

LOCATION.--Lat 40°59'40", long 79°23'40", Armstrong County, on left bank 400 ft (120 m) downstream from highway bridge on Legislative Route 03117 at St. Charles, 0.3 mi (0.5 km) downstream from Leatherwood Creek, and 3 mi (5 km) west of New Bethlehem.

DRAINAGE AREA.--528 mi^2 (1,368 km^2).

PERIOD OF RECORD.--Annual maximums, water years 1910-18. October 1918 to current year. Monthly discharge only for some periods, published in WSP 1305. Figures of daily discharge for November 1920 to June 1921, published in WSP 523, are unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 973.14 ft (296.613 m) above mean sea level, datum of 1912. Prior to July 10, 1940, nonrecording gage at site 500 ft (150 m) upstream at datum 3.10 ft (0.94 m) higher.

AVERAGE DISCHARGE.--56 years, 851 ft^3/s (24.10 m^3/s), 21.9 in/yr (556 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,100 ft^3/s (286 m^3/s) Jan. 19 (gage height, 11.37 ft or 3.466 m); minimum, 79 ft^3/s (2.24 m^3/s) Aug. 27 (gage height, 2.25 ft or 0.686 m).
Period of record: Maximum discharge, 50,000 ft^3/s (1,420 m^3/s) Mar. 18, 1936 (gage height, 18.60 ft or 5.669 m, from floodmarks, site and datum then in use); minimum observed, 19 ft^3/s (0.54 m^3/s) Oct. 1, 1918.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1385: 1919, 1936-39, WRD Pa. 1972: 1923(M), 1926(M), 1928(M), 1936, 1937(M), 1938(M), 1943, 1945(P), 1952(M), 1953(M), 1955(M), 1956(P), 1958(M), 1959(M), 1964, 1966(M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	425	1,760	2,300	1,600	1,140	923	3,420	1,180	400	1,040	178	1,040
2	297	1,900	1,870	1,360	986	1,160	4,130	1,460	392	1,360	160	764
3	435	1,460	1,580	1,150	902	1,480	3,700	1,190	344	1,000	135	3,360
4	505	1,140	1,380	1,030	776	1,480	3,250	1,200	293	770	135	4,410
5	1,680	910	1,260	803	556	1,540	2,720	1,030	260	600	172	2,780
6	1,740	752	1,160	789	412	1,570	2,350	895	242	512	196	1,620
7	1,170	627	985	768	396	1,380	1,900	842	223	440	168	1,080
8	788	534	824	502	596	1,220	1,610	740	208	360	140	770
9	570	472	887	446	528	2,660	1,590	680	200	302	124	609
10	440	420	1,620	564	552	7,400	1,530	680	191	269	172	524
11	359	368	1,660	803	468	4,970	1,710	632	187	254	178	460
12	310	331	1,420	908	412	3,280	1,790	1,220	189	245	148	408
13	275	310	1,310	582	468	2,180	1,740	4,790	194	218	157	436
14	368	300	1,760	463	552	1,590	1,680	3,430	176	191	130	480
15	461	300	1,780	817	528	1,300	2,220	2,250	174	191	107	460
16	359	483	1,540	1,300	416	1,770	2,090	1,640	824	198	90	376
17	284	667	1,300	2,130	432	2,660	1,720	1,310	1,480	191	89	305
18	254	608	992	1,960	364	2,030	1,450	1,070	1,140	170	113	281
19	233	570	901	6,910	380	1,630	1,240	848	720	160	142	251
20	217	608	1,030	6,060	496	1,430	1,070	695	584	168	146	248
21	205	564	3,070	4,780	492	1,480	902	604	488	160	113	564
22	196	528	2,690	4,630	1,130	1,980	812	552	416	144	97	1,650
23	189	494	2,170	3,850	2,670	1,670	842	705	376	146	90	1,250
24	184	489	1,750	3,390	1,750	1,440	800	930	348	215	89	802
25	176	1,410	1,450	2,490	1,360	1,220	695	764	308	272	85	610
26	171	2,620	1,940	1,880	1,080	1,040	616	604	396	205	82	524
27	165	2,540	3,720	1,650	848	923	564	528	596	174	80	464
28	169	4,280	3,350	1,620	824	824	520	472	560	168	317	412
29	595	3,820	2,660	1,720	------	902	488	452	508	269	1,570	400
30	1,790	2,980	2,330	1,510	------	1,930	488	456	564	275	2,050	488
31	1,510	------	1,880	1,310	------	3,210	------	424	------	225	1,680	------
TOTAL	16,520	34,245	54,569	59,775	21,514	60,272	49,637	34,273	12,981	10,892	9,133	27,826
MEAN	533	1,142	1,760	1,928	768	1,944	1,655	1,106	433	351	295	928
MAX	1,790	4,280	3,720	6,910	2,670	7,400	4,130	4,790	1,480	1,360	2,050	4,410
MIN	165	300	824	446	364	824	488	424	174	144	80	248
CFSM	1.01	2.16	3.33	3.65	1.45	3.68	3.13	2.09	.82	.66	.56	1.76
IN.	1.16	2.41	3.84	4.21	1.52	4.25	3.50	2.41	.91	.77	.64	1.96

CAL YR 1973 TOTAL 352,766 MEAN 966 MAX 7,310 MIN 84 CFSM 1.83 IN 24.85
WTR YR 1974 TOTAL 391,637 MEAN 1,073 MAX 7,400 MIN 80 CFSM 2.03 IN 27.59

PEAK DISCHARGE (BASE, 7,000 CFS).--Jan. 19 (1430) 10,100 cfs (11.37 ft); Mar. 10 (0600) 9,230 cfs (10.96 ft).

03034000 Mahoning Creek at Punxsutawney, Pa.

LOCATION.--Lat 40°56'21", long 79°00'31", Jefferson County, on right bank 75 ft (23 m) downstream from Williams Run, 1.9 mi (3.1 km) downstream from Sawmill Run, and 2 mi (3 km) west of Punxsutawney.

DRINAGE AREA.--158 mi^2 (409 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,206.14 ft (367.631 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 1, 1946, at site 2.9 mi (4.7 km) upstream at datum 13.30 ft (4.054 m) higher.

AVERAGE DISCHARGE.--36 years, 269 ft^3/s (7.618 m^3/s), 23.12 in/yr (587 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,890 ft^3/s (110 m^3/s) Sept. 1, 3 (gage height, 7.44 ft or 2.268 m); minimum, 41 ft^3/s (1.16 m^3/s) Aug. 27 (gage height, 1.02 ft or 0.311 m).

Period of record: Maximum discharge, 17,300 ft^3/s (490 m^3/s) June 23, 1972 (gage height, 15.94 ft or 4.859 m, floodmark in well), from rating curve extended above 4,300 ft^3/s (120 m^3/s) on basis of slope-area measurement at gage height 13.01 ft (3.965 m); minimum, 2.6 ft^3/s (0.074 m^3/s) Sept. 26, 1939.

Flood of Mar. 18, 1936, reached a stage of 15.6 ft (4.75 m), from floodmark at former site and datum (discharge, 12,500 ft^3/s or 354 m^3/s), from rating curve extended above 4,300 ft^3/s or 120 m^3/s).

REMARKS.--Records good. Diurnal fluctuations at low flow by mine pumpage into stream above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	631	677	540	432	336	1,110	575	232	296	70	1,090
2	154	601	512	450	383	395	1,340	406	159	232	63	1,840
3	159	456	423	400	344	526	1,040	436	130	193	66	2,520
4	156	352	365	350	297	525	880	409	116	160	91	2,260
5	1,410	294	341	320	248	547	723	346	106	143	80	1,090
6	789	251	302	290	235	516	612	321	98	132	64	632
7	456	215	259	260	246	450	510	294	91	113	57	452
8	312	189	229	230	216	400	446	260	85	102	54	347
9	243	169	332	210	188	641	471	249	82	95	65	286
10	198	149	496	221	174	1,530	424	237	93	106	256	242
11	163	134	414	311	174	1,100	463	205	106	212	111	209
12	140	127	363	331	160	810	478	895	86	112	84	193
13	127	120	371	259	164	606	451	1,650	77	93	80	226
14	160	115	507	317	200	470	512	990	70	83	68	574
15	127	124	458	284	173	392	827	681	229	86	59	324
16	112	373	397	414	152	659	655	502	883	79	55	262
17	102	363	343	721	157	748	538	409	751	70	97	222
18	97	317	314	647	136	580	446	391	452	66	93	193
19	92	300	281	2,180	145	500	387	305	318	72	68	162
20	88	268	451	1,970	176	400	333	260	291	66	59	153
21	83	239	1,300	1,860	159	560	296	227	231	59	54	372
22	79	224	1,000	1,710	475	660	288	224	196	55	50	547
23	76	202	800	1,270	650	550	317	451	190	74	49	353
24	73	210	700	998	456	475	269	331	162	100	48	294
25	71	520	600	748	408	382	238	264	148	72	45	260
26	69	731	900	604	325	346	216	225	230	60	44	232
27	67	826	2,000	586	285	313	196	195	255	58	65	200
28	68	1,760	1,500	514	283	286	181	170	194	64	222	177
29	170	1,440	1,200	660	------	335	168	167	211	255	1,150	191
30	674	942	900	556	------	629	189	164	212	112	1,460	211
31	489	------	700	502	------	1,350	------	154	------	83	883	------
TOTAL	7,158	12,642	19,435	20,713	7,441	18,017	15,004	12,393	6,484	3,503	5,710	16,114
MEAN	231	421	627	668	266	581	500	400	216	113	184	537
MAX	1,410	1,760	2,000	2,180	650	1,530	1,340	1,650	883	296	1,460	2,520
MIN	67	115	229	210	136	286	168	154	70	55	44	153
CFSM	1.46	2.66	3.97	4.23	1.68	3.68	3.16	2.53	1.37	.72	1.16	3.40
IN.	1.69	2.98	4.58	4.88	1.75	4.24	3.53	2.92	1.53	.82	1.34	3.79

CAL YR 1973 TOTAL 124,904 MEAN 342 MAX 2,440 MIN 37 CFSM 2.16 IN 29.41
WTR YR 1974 TOTAL 144,614 MEAN 396 MAX 2,520 MIN 44 CFSM 2.51 IN 34.05

PEAK DISCHARGE (BASE 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	1330	6.47	3,010	9- 3	1730	7.44	3,890
9- 1	2300	7.44	3,890				

03034500 Little Mahoning Creek at McCormick, Pa.

LOCATION.--Lat 40°50'10", long 79°06'37", Indiana County, on left bank 200 ft (60 m) upstream from highway bridge at McCormick, 1 mi (2 km) west of Georgeville, 1.7 mi (2.7 km) upstream from Ross Run, and 4 mi (6 km) southeast of Smicksburg.

DRAINAGE AREA.--87.4 mi^2 (226.4 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,164.88 ft (355.055 m) above mean sea level (Corps of Engineers bench mark). Prior to May 10, 1940, nonrecording gage at site 200 ft (60 m) upstream at same datum.

AVERAGE DISCHARGE.--35 years, 149 ft^3/s (4.220 m^3/s), 23.15 in/yr (588 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,120 ft^3/s (60.0 m^3/s) Jan. 19 (gage height, 8.33 ft or 2.539 m); minimum, 9.4 ft^3/s (0.27 m^3/s) Aug. 27 (gage height, 1.21 ft or 0.369 m).
Period of record: Maximum discharge, 6,200 ft^3/s (176 m^3/s) June 23, 1972 (gage height, 13.20 ft or 4.023 m); maximum gage height, 13.86 ft (4.225 m) Jan. 21, 1959 (backwater from ice); minimum discharge, 0.3 ft^3/s (0.008 m^3/s) Sept. 28, 1959.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	546	310	224	188	232	445	194	282	495	20	435
2	174	403	226	163	160	264	612	136	142	222	17	645
3	150	268	180	146	140	315	455	161	97	142	18	1,050
4	110	182	152	135	113	280	393	166	77	100	24	705
5	271	140	143	120	96	274	323	136	63	78	22	320
6	202	113	121	110	112	242	268	122	53	68	18	184
7	135	94	97	100	133	200	218	108	44	54	15	133
8	104	81	83	90	102	192	186	92	38	43	14	99
9	83	73	163	80	86	320	212	87	34	38	18	78
10	69	65	310	100	75	840	188	80	32	43	95	65
11	59	58	228	800	62	513	222	69	31	520	36	56
12	52	53	182	1,360	74	370	212	270	29	131	25	51
13	45	50	196	972	82	258	202	190	28	84	20	50
14	54	47	375	992	128	194	228	170	24	63	19	180
15	49	51	303	1,060	112	157	353	160	35	59	15	94
16	39	295	236	888	97	383	258	150	343	49	13	68
17	34	190	182	591	90	415	204	135	385	39	47	56
18	31	142	160	438	78	286	164	130	166	33	43	49
19	28	128	145	1,490	78	246	140	110	107	34	25	43
20	26	111	226	976	97	204	116	86	106	30	20	39
21	24	95	1,000	852	87	335	99	72	81	25	17	109
22	23	87	518	666	252	398	96	75	67	22	14	169
23	21	77	350	500	323	290	140	234	76	27	13	98
24	20	80	250	413	216	238	108	157	76	49	12	76
25	19	278	194	298	190	170	94	109	59	32	11	66
26	18	398	606	242	145	148	83	89	76	25	11	60
27	18	418	992	246	125	128	75	75	73	22	11	60
28	19	1,090	594	222	127	112	69	64	57	20	79	54
29	178	717	410	358	------	122	64	63	63	21	91	61
30	600	453	333	274	------	216	69	69	72	37	295	79
31	308	------	250	234	------	543	------	63	------	27	169	------
TOTAL	3,174	6,783	9,515	15,140	3,568	8,885	6,296	3,822	2,816	2,632	1,247	5,232
MEAN	102	226	307	488	127	287	210	123	93.9	84.9	40.2	174
MAX	600	1,090	1,000	1,490	323	840	612	270	385	520	295	1,050
MIN	18	47	83	80	62	112	64	63	24	20	11	39
CFSM	1.17	2.59	3.51	5.58	1.45	3.28	2.40	1.41	1.07	.97	.46	1.99
IN.	1.35	2.89	4.05	6.44	1.52	3.78	2.68	1.63	1.20	1.12	.53	2.23

CAL YR 1973 TOTAL 66,024.7 MEAN 181 MAX 1,320 MIN 7.0 CFSM 2.07 IN 28.10
WTR YR 1974 TOTAL 69,110.0 MEAN 189 MAX 1,490 MIN 11 CFSM 2.16 IN 29.42

PEAK DISCHARGE (BASE, 2,000 CFS).--Jan. 19 (1600) 2,120 cfs (8.33 ft).

03036000 Mahoning Creek at Mahoning Creek Dam, Pa.

LOCATION.--Lat 40°55'39", long 79°17'29", Armstrong County, on left bank at downstream side of highway bridge at McCrea Furnace, 700 ft (213 m) downstream from Camp Run, 0.9 mi (1.4 km) downstream from Mahoning Creek Dam, 1 mi (2 km) southwest of Eddyville, and 2.1 mi (3.4 km) upstream from Pine Run.

DRAINAGE AREA.--344 mi^2 (891 km^2).

PERIOD OF RECORD.--August 1938 to current year. Monthly discharge only for August 1938, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,003.39 ft (305.833 m) above mean sea level (Corps of Engineers bench mark). Prior to Feb. 1, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 583 ft^3/s (16.51 m^3/s), 23.02 in/yr (585 mm/yr), adjusted for storage since June 1941.

EXTREMES.--Current year: Maximum discharge, 4,050 ft^3/s (115 m^3/s) Sept. 4 (gage height, 6.27 ft or 1.911 m); minimum daily, 46 ft^3/s (1.30 m^3/s) Aug. 8.
Period of record: Maximum discharge, 10,400 ft^3/s (295 m^3/s) Mar. 8, 1942 (gage height, 8.10 ft or 2.469 m); minimum daily, 8.8 ft^3/s (0.25 m^3/s) Sept. 19-26, 1959.

REMARKS.--Records good. Flow completely regulated since 1941 by Mahoning Creek Lake 0.9 mi (1.4 km) upstream (see p. 246).

REVISIONS (WATER YEARS).--WSP 1305: 1941 (adjusted monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	808	1,310	1,940	1,780	1,150	495	947	276	270	393	165	1,730
2	794	1,490	2,860	1,730	731	509	1,190	279	489	463	165	2,070
3	794	1,470	2,740	1,660	731	523	1,210	289	520	700	165	2,480
4	787	1,440	2,570	1,340	724	539	1,220	294	267	795	103	3,290
5	970	1,400	1,820	848	504	557	1,880	414	266	772	54	3,970
6	1,380	1,340	900	503	262	769	1,870	556	266	529	52	3,730
7	1,650	948	744	500	263	1,120	1,840	556	268	266	47	2,270
8	1,380	505	579	500	369	1,120	1,800	556	185	266	46	778
9	754	395	278	496	494	1,110	1,750	556	82	240	48	764
10	274	266	482	495	490	1,160	1,710	556	82	179	49	750
11	274	266	771	490	380	1,670	1,660	553	82	184	100	731
12	270	262	773	496	260	2,630	1,610	587	80	235	164	508
13	270	262	777	513	260	2,500	1,490	626	79	284	165	200
14	270	262	792	515	266	2,340	1,000	1,150	77	281	165	284
15	270	262	860	513	364	1,560	1,030	1,880	77	276	165	508
16	270	286	1,020	777	486	986	1,050	1,860	281	272	163	770
17	270	390	1,090	1,090	486	1,030	1,050	1,830	660	268	162	764
18	266	656	1,080	1,130	482	1,050	1,050	1,790	813	266	162	745
19	266	794	1,060	960	481	1,060	1,030	1,730	812	261	162	463
20	266	787	1,040	689	479	1,060	1,020	1,390	805	257	162	175
21	194	773	1,070	1,750	471	1,060	994	1,040	794	171	162	206
22	73	759	1,600	2,990	486	1,070	743	1,000	778	72	132	485
23	73	584	2,290	2,980	797	1,080	491	974	757	73	51	799
24	73	278	2,200	2,950	1,280	1,080	493	758	733	72	50	792
25	73	294	1,660	2,890	1,250	1,230	496	507	437	114	49	782
26	73	602	1,020	2,830	972	1,320	493	507	170	165	48	764
27	73	985	1,110	2,750	489	1,260	491	498	171	165	49	630
28	75	1,170	1,490	2,640	488	792	486	390	221	172	64	493
29	122	1,250	1,850	2,520	------	506	377	270	321	167	281	384
30	539	1,260	1,840	2,390	------	520	231	270	376	165	566	259
31	1,140	------	1,820	1,920	------	552	------	270	------	165	1,060	------
TOTAL	14,791	22,746	42,126	45,635	15,895	34,258	32,702	24,212	11,219	8,688	4,976	32,574
MEAN	477	758	1,359	1,472	568	1,105	1,090	781	374	280	161	1,086
MAX	1,650	1,490	2,860	2,990	1,280	2,630	1,880	1,880	813	795	1,060	3,970
MIN	73	262	278	490	260	495	231	270	77	72	46	175
MEAN≠	500	916	1,242	1,361	567	1,168	1,012	782	389	266	271	974
CFSM≠	1.45	2.66	3.61	3.96	1.65	3.40	2.94	2.27	1.13	.77	.79	2.83
IN.≠	1.67	2.97	4.16	4.57	1.72	3.92	3.28	2.62	1.26	.89	.91	3.16

CAL YR 1973 TOTAL 258,624 MEAN 709 MAX 3,860 MIN 68 MEAN≠ 720 CFSM≠ 2.09 IN.≠ 28.37
WTR YR 1974 TOTAL 289,822 MEAN 794 MAX 3,970 MIN 46 MEAN≠ 789 CFSM≠ 2.29 IN.≠ 31.13

≠ Adjusted for change in contents in Mahoning Creek Lake.

03036500 Allegheny River at Kittanning, Pa.

LOCATION.--Lat 40°49'13", long 79°31'54", Armstrong County, on right bank 600 ft (180 m) upstream from dam at lock 7 at Kittanning, 5.7 mi (9.2 km) upstream from Crooked Creek, 9.7 mi (15.6 km) downstream from Mahoning Creek, and at mile 45.8 (73.7 km).

DRAINAGE AREA.--8,973 mi^2 (23,240 km^2).

PERIOD OF RECORD.--August 1904 to September 1928, October 1934 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder and concrete dam control. Datum of gage is 771.32 ft (235.098 m) above mean sea level, adjustment of 1912. Prior to Sept. 30, 1928, nonrecording gage at site 4,000 ft (1,200 m) downstream at different datum. Oct. 1, 1934, to Apr. 19, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--64 years (1904-28, 1934-74), 15,490 ft^3/s (438.7 m^3/s), 23.44 in/yr (595 mm/yr), adjusted for storage since 1940.

EXTREMES.--Current year: Maximum discharge, 85,200 ft^3/s (2,410 m^3/s) Mar. 10 (gage height, 18.95 ft or 5.776 m); minimum, 1,850 ft^3/s (52.4 m^3/s) Aug. 25 (gage height, 11.55 ft or 3.520 m).
Period of record: Maximum discharge, 269,000 ft^3/s (7,620 m^3/s) Mar. 26, 1913 (gage height, 30.7 ft or 9.36 m, from floodmark, site and datum then in use); minimum observed, 570 ft^3/s (16.1 m^3/s) Sept. 15-17, 1913.

REMARKS.--Records good. Flow regulated since 1965 by Allegheny Reservoir, by Chautauqua Lake, since 1941 by Tionesta Lake, since 1971 by Union City Reservoir, since 1974 by Woodcock Creek Lake, since 1952 by East Branch Clarion River Lake, since 1924 by Piney Reservoir, and since 1941 by Mahoning Creek Lake (see p.245).

REVISIONS (WATER YEARS).--WSP 873: Drainage area. WSP 1305: 1906 (M), 1914, 1925. WSP 1435: 1936-37, 1939.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,350	21,000	20,300	34,900	31,100	17,000	31,700	16,100	8,000	18,800	3,410	8,140
2	7,550	23,900	18,900	31,800	28,000	23,300	36,000	18,700	8,600	37,000	3,240	7,580
3	8,910	23,700	17,400	28,800	26,300	27,300	42,600	16,200	9,260	27,300	3,000	12,100
4	8,080	19,900	15,800	25,800	24,500	30,000	43,400	15,300	8,630	26,900	2,820	22,900
5	10,200	17,500	14,500	23,000	22,500	36,400	41,500	13,800	6,760	22,000	3,060	20,000
6	11,400	16,600	12,200	18,200	19,500	40,300	40,100	13,900	5,510	20,400	4,520	15,200
7	9,400	14,100	11,600	16,300	18,700	38,100	40,800	14,500	4,950	18,000	4,610	12,900
8	8,490	11,800	11,300	16,200	17,900	36,600	39,400	13,800	4,670	16,300	4,610	8,410
9	7,680	9,100	10,900	15,300	17,200	58,300	38,900	14,700	4,000	13,700	4,550	6,990
10	6,340	9,460	13,300	15,300	15,700	80,000	38,100	15,900	3,350	9,750	4,820	6,680
11	6,100	7,940	15,400	16,200	15,600	63,700	38,900	16,000	3,900	9,350	4,940	6,050
12	5,460	7,870	14,600	17,200	16,000	53,600	39,200	22,700	3,850	8,070	4,280	6,790
13	5,340	8,690	14,100	12,300	16,100	47,100	35,600	66,200	4,300	7,010	4,530	6,380
14	5,460	8,570	17,000	10,500	16,200	40,600	33,100	53,400	4,780	4,500	4,090	7,660
15	5,170	7,720	19,900	12,900	16,200	34,800	35,300	44,200	4,010	4,300	4,240	7,420
16	5,230	8,610	17,900	15,100	16,200	33,000	36,300	39,600	6,720	5,940	3,860	6,240
17	5,280	8,460	16,100	20,600	13,700	37,600	34,400	36,200	9,450	5,050	3,380	6,000
18	5,000	8,860	14,100	22,700	10,500	34,600	31,700	36,000	10,300	4,820	2,980	6,410
19	5,460	10,100	10,800	49,100	10,900	31,100	29,200	32,900	7,340	4,870	3,140	6,340
20	5,690	10,800	10,200	54,800	10,200	29,300	27,500	29,500	6,210	5,720	3,300	6,210
21	5,000	9,680	19,600	40,500	9,920	27,200	24,600	23,300	7,280	3,850	2,840	7,390
22	4,570	8,230	29,200	48,400	11,900	26,400	21,500	18,200	7,800	2,680	2,760	9,460
23	4,840	8,980	25,100	48,500	28,600	24,000	19,600	17,200	6,830	3,400	2,740	10,700
24	4,750	9,320	23,200	51,600	31,300	22,300	18,000	17,000	5,280	3,300	2,380	10,400
25	4,640	11,800	22,700	46,100	26,200	22,400	18,200	15,600	6,460	3,440	2,240	9,160
26	4,880	20,700	24,500	41,600	22,800	21,100	16,800	14,300	4,720	3,430	2,150	8,630
27	4,940	23,500	44,000	37,700	18,100	20,000	16,300	12,700	7,160	3,860	3,030	8,220
28	4,410	24,200	52,100	36,600	16,800	17,300	12,900	10,500	7,240	2,760	3,630	6,930
29	6,840	23,400	44,100	36,300	------	16,900	11,100	9,400	8,600	3,060	7,070	6,240
30	16,200	22,400	42,600	36,100	------	24,300	11,600	8,690	6,990	3,790	9,370	5,750
31	18,400	------	38,400	35,300	------	29,200	------	7,940	------	3,640	9,270	------
TOTAL	219,060	416,890	661,800	915,700	528,620	1,043.8M	904,300	684,430	192,950	306,990	124,860	269,280
MEAN	7,066	13,900	21,350	29,540	18,880	33,670	30,140	22,080	6,432	9,903	4,028	8,976
MAX	18,400	24,200	52,100	54,800	31,300	80,000	43,400	66,200	10,300	37,000	9,370	22,900
MIN	4,410	7,720	10,200	10,500	9,920	16,900	11,100	7,940	3,350	2,680	2,150	5,750
(/)	-1,440	+758	+1,630	-2,730	-2,100	+1,500	+3,220	+370	+438	-398	-400	+301
MEAN≠	5,626	14,660	22,980	26,810	16,780	35,170	33,360	22,450	6,870	9,505	3,628	9,277
CFSM≠	.63	1.63	2.56	2.99	1.87	3.92	3.72	2.50	.77	1.06	.40	1.03
IN.≠	.73	1.82	2.95	3.45	1.95	4.52	4.15	2.88	.86	1.22	.46	1.15

CAL YR 1973 TOTAL 5,451,070 MEAN 14,930 MAX 69,000 MIN 1,550 MEAN≠ 15,120 CFSM≠ 1.69 IN.≠ 22.87
WTR YR 1974 TOTAL 6,268,680 MEAN 17,170 MAX 80,000 MIN 2,150 MEAN≠ 17,270 CFSM≠ 1.92 IN.≠ 26.14

/ Change in contents, equivalent in cubic feet per second, in Allegheny Reservoir, Chautauqua Lake, Tionesta Lake, Union City Reservoir, Woodcock Creek Lake, East Branch Clarion River Lake, Piney Reservoir, and Mahoning Creek Lake. Records of contents in Piney Reservoir furnished by Pennsylvania Electric Co.
≠ Adjusted for change in reservoir contents.

03038000 Crooked Creek at Idaho, Pa.

LOCATION.--Lat 40°39'17", long 79°20'56", Armstrong County, on right bank at downstream end of old bridge abutment at Idaho, 0.4 mi (0.6 km) downstream from Keystone Generating Station, 1.5 mi (2.4 km) downstream from Plum Creek, and 2.4 mi (3.9 km) west of Shelocta.

DRAINAGE AREA.--191 mi^2 (495 km^2).

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for some periods published in WSP 1305.

GAGE.--Water-stage recorder and concrete weir control. Datum of gage is 961.04 ft (292.925 m) above mean sea level (Baltimore and Ohio Railroad bench mark).

AVERAGE DISCHARGE.--37 years, 284 ft^3/s (8.043 m^3/s), 20.19 in/yr (513 mm/yr), adjusted for storage since March 1968.

EXTREMES.--Current year: Maximum discharge, 3,770 ft^3/s (107 m^3/s) Jan. 19 (gage height, 7.88 ft or 2.402 m); minimum, 18 ft^3/s (0.51 m^3/s) July 18 (gage height, 2.12 ft or 0.646 m).
Period of record: Maximum discharge, 13,200 ft^3/s (374 m^3/s) June 23, 1972 (gage height, 15.93 ft or 4.855 m); minimum daily, 1.0 ft^3/s (0.028 m^3/s) Oct. 22, 1966, result of abnormal regulation.
Flood in March 1936 reached a stage of 18.6 ft (5.67 m), from floodmark (discharge, 19,400 ft^3/s or 549 m^3/s).

REMARKS.--Records good. Flow regulated to some extent since March 1968 by Keystone Lake 7 mi (11 km) upstream (usable capacity, 22,010 acre-ft or 27.1 hm^3). Evaporation from operation of steam-electric plant 0.4 mi (0.6 km) upstream, which began during July 1967, can amount to as much as 30 ft^3/s (0.85 m^3/s).

REVISIONS (WATER YEARS).--WSP 1385: 1938, 1945.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	1,030	483	466	389	465	473	251	1,130	2,270	41	301
2	175	723	360	355	339	606	875	182	588	729	31	553
3	157	454	294	325	299	690	762	230	382	376	36	1,030
4	112	310	248	335	254	593	704	236	277	240	32	908
5	235	226	248	250	186	589	673	198	210	181	30	338
6	179	171	209	242	179	498	619	191	167	169	36	185
7	122	139	161	218	582	418	502	167	148	111	34	136
8	92	109	142	154	435	534	444	142	128	87	32	104
9	67	96	310	202	345	2,350	581	136	109	75	46	80
10	56	85	649	287	260	2,680	549	140	93	61	230	67
11	46	78	519	1,170	258	1,400	530	123	97	117	53	61
12	38	67	425	1,060	219	918	486	965	89	61	38	58
13	42	59	495	685	223	630	469	1,670	74	46	40	77
14	59	50	1,090	532	237	463	464	847	69	37	40	546
15	53	76	859	638	187	381	599	555	69	38	35	233
16	40	656	629	1,080	165	736	477	400	288	38	27	147
17	39	414	460	1,260	166	845	387	327	378	34	49	110
18	39	304	340	943	131	634	323	465	187	40	53	89
19	37	252	280	3,020	135	553	277	324	138	42	32	73
20	36	198	495	2,150	175	451	229	241	141	44	33	59
21	38	168	1,810	1,360	135	790	196	190	106	47	34	245
22	36	148	1,030	1,030	339	947	191	180	226	43	30	380
23	32	122	689	841	497	727	247	377	263	35	35	223
24	29	145	495	728	393	581	203	292	258	53	32	162
25	30	576	400	566	372	420	169	215	177	35	30	129
26	30	793	685	490	289	357	146	177	170	43	29	110
27	29	741	1,120	505	261	303	130	147	150	37	34	91
28	35	1,930	881	459	255	264	119	122	113	33	84	85
29	935	1,160	685	653	------	263	110	182	116	35	86	100
30	1,580	689	580	554	------	330	119	351	138	46	168	119
31	736	------	478	484	------	443	------	293	------	42	121	------
TOTAL	5,332	11,969	17,549	23,042	7,705	21,859	12,053	10,316	6,479	5,245	1,631	6,799
MEAN	172	399	566	743	275	705	402	333	216	169	52.6	227
MAX	1,580	1,930	1,810	3,020	582	2,680	875	1,670	1,130	2,270	230	1,030
MIN	29	50	142	154	131	263	110	122	69	33	27	58
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 117,944 MEAN 323 MAX 3,720 MIN 22 CFSM - IN. -
WTR YR 1974 TOTAL 129,979 MEAN 356 MAX 3,020 MIN 27 CFSM - IN. -

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	1500	7.88	3,770	5-12	2130	6.29	2,510
3-10	0130	7.16	3,230	7- 1	0630	7.41	3,430

03039000 Crooked Creek at Crooked Creek Dam, Pa.

LOCATION.--Lat 40°43'13", long 79°30'42", Armstrong County, on right bank 0.4 mi (0.6 km) downstream from Crooked Creek Dam, 3.5 mi (5.6 km) south of Ford City, and 6.7 mi (10.8 km) upstream from mouth.

DRAINAGE AREA.--278 mi^2 (720 km^2).

PERIOD OF RECORD.--October 1909 to current year. Published as "at Hileman's Farm" 1910-29, and as "near Ford City" 1930-39. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 799.51 ft (243.691 m) above mean sea level (levels by Corps of Engineers). Prior to Aug. 1, 1933, nonrecording gage at site 2 mi (3 km) downstream at different datum. July 31, 1933, to Dec. 5, 1939, nonrecording gage at site 1.5 mi (2.4 km) downstream at different datum.

AVERAGE DISCHARGE.--65 years, 420 ft^3/s (11.89 m^3/s), 20.52 in/yr (521 mm/yr), adjusted for storage from May 1940 to September 1968.

EXTREMES.--Current year: Maximum discharge, 3,940 ft^3/s (112 m^3/s) Mar. 11 (gage height, 7.44 ft or 2.268 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Sept. 24.

Period of record: Maximum discharge, 21,000 ft^3/s (595 m^3/s) Mar. 18, 1936 (gage height, 17.86 ft or 5.444 m, from floodmark, site and datum then in use), from rating curve extended above 8,000 ft^3/s (230 m^3/s) on basis of contracted-opening measurement of peak flow; minimum observed, 0.1 ft^3/s (0.003 m^3/s) Sept. 8, 11, 20, 25, 26, 1932.

REMARKS.--Records good. Flow completely regulated since 1940 by Crooked Creek Lake 0.4 mi (0.6 km) upstream (see p. 246) and since 1968 by Keystone Lake (combined capacity, 115,910 acre-ft or 143 hm^3).

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1305: 1910-12, 1915-16, 1917 (M), 1918, 1922-27, 1928 (M), 1930 (M). WSP 1435: 1919-21, 1932-33, 1935.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	702	32	1,140	1,030	800	616	419	189	644	180	51	216
2	702	34	1,100	715	605	621	435	191	842	603	52	584
3	702	35	1,070	201	402	636	454	191	1,000	1,590	52	1,080
4	690	35	1,020	204	189	644	466	191	551	1,550	52	1,110
5	442	35	755	206	191	652	775	194	185	1,760	39	1,100
6	197	36	184	208	191	657	1,080	194	185	856	25	1,050
7	197	37	185	210	198	657	1,050	196	185	194	25	721
8	197	37	186	212	425	663	1,030	197	185	191	25	276
9	197	37	187	212	655	713	1,010	197	185	147	26	185
10	197	37	416	213	647	1,010	976	197	185	103	26	185
11	122	37	662	221	636	2,340	942	197	113	103	63	103
12	49	37	662	231	624	3,650	759	206	38	125	104	53
13	49	37	661	366	400	3,260	591	229	38	147	65	55
14	49	37	677	510	179	1,600	594	664	38	145	23	126
15	51	38	894	511	180	431	599	1,200	39	99	23	322
16	51	38	1,100	519	182	440	607	1,530	125	51	23	439
17	51	390	1,070	895	182	456	607	1,800	329	51	24	433
18	51	1,430	1,030	1,270	183	574	601	1,450	443	47	24	268
19	52	2,260	818	906	184	687	390	726	436	50	25	104
20	52	2,150	438	575	185	687	182	438	257	50	33	105
21	52	2,010	462	1,560	185	690	184	433	76	51	40	110
22	52	1,900	777	2,350	189	703	185	424	250	51	40	284
23	52	1,270	1,130	2,300	419	711	185	303	433	51	40	167
24	52	646	1,110	2,240	662	713	189	182	431	51	40	10
25	38	642	1,080	2,180	658	913	191	185	259	51	40	119
26	23	833	1,060	2,100	650	1,110	190	185	88	51	40	474
27	23	1,040	843	2,010	640	1,060	188	185	104	51	42	463
28	23	1,090	864	1,920	628	1,010	188	185	126	51	42	450
29	27	1,150	1,090	1,830	------	966	190	186	154	51	100	298
30	29	1,160	1,080	1,740	------	677	188	413	158	51	161	98
31	32	------	1,050	1,330	------	412	------	636	------	51	186	------
TOTAL	5,203	18,550	24,801	30,975	11,269	29,959	15,445	13,694	8,082	8,603	1,551	10,988
MEAN	168	618	800	999	402	966	515	442	269	278	50.0	366
MAX	702	2,260	1,140	2,350	800	3,650	1,080	1,800	1,000	1,760	186	1,110
MIN	23	32	184	201	179	412	182	182	38	47	23	10
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 158,953 MEAN 435 MAX 4,140 MIN 23 CFSM - IN. -
WTR YR 1974 TOTAL 179,120 MEAN 491 MAX 3,650 MIN 10 CFSM - IN. -

03039200 Clear Run near Buckstown, Pa.

LOCATION.--Lat 40°02'49", long 78°50'00", Somerset County, on left bank at downstream side of bridge on State Highway 160, 0.8 mi (1.3 km) south of Reels Corners, and 2.3 mi (3.7 km) southeast of Buckstown.

DRAINAGE AREA.--3.68 mi^2 (9.53 km^2).

PERIOD OF RECORD.--Annual maximum and occasional discharge measurements, water years 1961-64. September 1964 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 2,339.24 ft (713.000 m), above mean sea level. July 6, 1960, to Aug. 31, 1964, crest-stage gage at site 50 ft (15 m) upstream at same datum.

AVERAGE DISCHARGE.--10 years, 5.97 ft^3/s (0.169 m^3/s), 22.03 in/yr (560 mm/yr).

EXTREMES.--Current year: Maximum discharge, 214 ft^3/s (6.06 m^3/s) Oct. 29 (gage height, 4.26 ft or 1.298 m); minimum, 0.22 ft^3/s (0.006 m^3/s) Aug. 27 (gage height, 2.06 ft or 0.628 m).
Period of record: Maximum discharge, 266 ft^3/s (7.53 m^3/s) June 23, 1972 (gage height, 4.53 ft or 1.381 m), from rating curve extended above 120 ft^3/s (3.4 m^3/s) on basis of slope-area measurements at gage heights 4.89 ft (1.490 m), gage then in use and 4.53 ft (1.381 m); maximum gage height, 5.30 ft (1.615 m) Feb. 25, 1961 (gage then in use); no flow at times in water years 1964-66.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	14	8.1	8.1	6.0	5.7	6.7	3.9	18	16	.83	.83
2	3.7	9.5	6.9	7.1	5.8	6.8	9.3	3.5	11	7.9	.83	1.4
3	2.9	7.1	6.3	8.0	5.5	7.6	7.4	4.4	9.0	6.2	.93	1.9
4	1.5	6.2	5.8	6.5	4.7	7.1	8.6	4.0	7.2	5.1	.93	.99
5	1.1	5.4	14	5.6	4.1	7.0	7.9	3.4	6.2	7.0	.83	.54
6	.83	5.1	14	5.1	3.9	6.4	6.9	3.3	5.3	7.1	.69	.54
7	.76	4.8	8.2	4.4	4.2	6.2	6.3	3.2	4.7	5.1	.57	2.3
8	.72	4.5	7.0	4.4	3.8	8.6	6.9	2.9	4.5	4.5	.57	.83
9	.78	4.5	10	5.9	3.4	9.4	9.6	2.8	4.1	3.9	.88	.54
10	.92	3.9	9.6	48	3.1	17	7.5	2.8	3.6	3.7	1.2	.45
11	.96	3.7	7.5	34	3.0	11	7.8	2.6	3.1	3.9	.73	.42
12	.80	3.5	6.4	16	2.9	9.2	6.7	18	3.0	3.1	.78	.36
13	.90	3.9	6.1	13	3.3	8.0	10	13	2.7	2.9	.83	.42
14	1.1	3.7	5.4	11	4.5	6.7	9.5	9.0	2.4	2.7	.54	1.0
15	1.0	3.9	4.8	10	3.5	6.2	8.2	7.4	2.3	2.7	.42	.57
16	1.2	7.8	4.2	16	3.1	6.2	7.0	6.2	3.3	2.5	.36	.39
17	1.1	5.1	3.8	22	2.9	5.7	6.4	5.2	3.0	1.9	.42	.34
18	.94	4.5	3.4	15	2.5	5.0	5.9	5.5	2.2	1.6	.51	.30
19	.82	4.5	3.8	30	2.6	5.3	5.4	5.6	1.7	1.6	.39	.30
20	.82	4.2	13	25	3.0	4.9	5.0	5.0	1.6	1.4	.34	.28
21	.76	3.5	8.6	39	3.0	7.4	4.7	4.3	2.3	1.2	.28	.39
22	.74	3.5	6.8	27	8.8	6.8	4.6	4.0	2.2	1.2	.29	.54
23	.72	3.7	6.0	19	7.9	5.3	7.3	6.5	23	1.5	.30	.42
24	.70	4.8	5.6	14	4.9	4.9	5.4	5.4	14	1.9	.28	.34
25	.68	6.2	13	11	4.4	4.2	4.7	4.3	9.9	1.2	.25	.30
26	.66	6.2	59	9.5	4.0	4.2	4.3	3.8	7.1	2.1	.24	.30
27	.70	7.3	32	9.2	3.8	4.0	4.0	3.6	4.9	2.1	.23	.28
28	1.5	26	19	9.4	3.8	4.0	3.8	3.2	5.0	1.2	.28	.27
29	86	14	17	11	------	4.0	3.6	8.5	8.3	1.2	.29	.51
30	25	9.6	13	8.1	------	5.7	3.5	8.2	5.3	1.5	.93	.54
31	13	------	10	7.0	------	8.5	------	7.9	------	.99	.54	------
TOTAL	154.15	194.6	338.3	459.3	116.4	209.0	194.9	171.4	180.9	106.89	17.49	18.59
MEAN	4.97	6.49	10.9	14.8	4.16	6.74	6.50	5.53	6.03	3.45	.56	.62
MAX	86	26	59	48	8.8	17	10	18	23	16	1.2	2.3
MIN	.66	3.5	3.4	4.4	2.5	4.0	3.5	2.6	1.6	.99	.23	.27
CFSM	1.35	1.76	2.96	4.02	1.13	1.83	1.77	1.50	1.64	.94	.15	.17
IN.	1.56	1.97	3.42	4.64	1.18	2.11	1.97	1.73	1.83	1.08	.18	.19

CAL YR 1973 TOTAL 2,298.17 MEAN 6.30 MAX 86 MIN .24 CFSM 1.71 IN 23.23
WTR YR 1974 TOTAL 2,161.92 MEAN 5.92 MAX 86 MIN .23 CFSM 1.61 IN 21.85

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	1015	4.26	214	1-10	1530	3.28	76
12-26	0730	3.25	72				

03040000 Stony Creek at Ferndale, Pa.

LOCATION.--Lat 40°17'08", long 78°55'15", Cambria County, on right bank 50 ft (15 m) upstream from highway bridge at Ferndale, 0.4 mi (0.6 km) downstream from Bens Creek, 1.2 mi (1.9 km) upstream from Johnstown city limits, and 5.2 mi (8.4 km) upstream from confluence with Little Conemaugh River.

DRAINAGE AREA.--451 mi^2 (1,168 km^2).

PERIOD OF RECORD.--October 1913 to March 1936, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305. Monthly figures adjusted for storage and diversion for October 1918 to September 1921, published in WSP 503, 523, have been found in error and should not be used. Published as "at Johnstown", 1914-36. Gage-height records collected in this vicinity since 1885 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 1,184.06 ft (360.901 m) above mean sea level. Prior to Mar. 19, 1936, nonrecording gage at site 3.5 mi (5.6 km) downstream at different datum. Dec. 8, 1938, to Jan. 30, 1940, nonrecording gage at site 50 ft (15 m) downstream at present datum.

AVERAGE DISCHARGE.--36 years (1938-74), 758 ft^3/s (21.47 m^3/s), 22.82 in/yr (580 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 8,650 ft^3/s (245 m^3/s) Jan. 11 (gage height, 8.71 ft or 2.655 m); minimum, 52 ft^3/s (1.47 m^3/s) Oct. 26, 27 (gage height, 1.99 ft or 0.607 m).
Period of record: Maximum discharge, 59,000 ft^3/s (1,670 m^3/s) Mar. 18, 1936 (gage height, 30.26 ft or 9.223 m, from high-water mark, site and datum then in use), from rating curve extended above 13,000 ft^3/s (370 m^3/s) on the basis of slope-area and contracted-opening measurements of peak flow; minimum observed, 5 ft^3/s (0.14 m^3/s) Sept. 8, 1929.

REMARKS.--Records good. Regulation by mine pumpage and reservoirs and diversion above station; the four largest reservoirs have a combined capacity of 42,360 acre-ft (52.2 hm^3). Figures of daily discharge do not include diversion from Stony Creek and Quemahoning Creek Reservoir to plants of Bethlehem Steel Co., and from Mill Creek, Dalton Run, and North Fork Bens Creek Reservoirs for water supply of city of Johnstown.

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1305: 1915, 1918, 1923-26. WSP 1435: 1920-21, 1932, 1941 (M), 1943 (M), 1945-46 (M). See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	1,100	873	1,210	771	638	839	450	2,000	3,250	105	138
2	256	905	716	972	715	718	1,140	399	1,380	1,830	101	193
3	309	650	632	919	680	863	1,160	488	984	1,040	235	661
4	226	522	574	1,290	608	874	1,530	481	726	708	174	403
5	218	439	595	973	494	826	1,480	416	571	632	145	212
6	169	407	978	818	470	773	1,170	382	463	650	107	153
7	129	352	699	721	500	706	992	344	395	488	96	228
8	217	318	550	584	470	917	851	312	347	386	90	185
9	231	306	750	614	410	1,930	1,120	298	321	322	128	139
10	160	285	950	1,490	381	2,760	1,040	299	284	309	437	119
11	127	255	759	6,280	369	1,860	986	271	262	340	191	103
12	114	232	631	3,960	358	1,440	871	1,180	229	264	128	110
13	104	230	604	2,480	370	1,130	1,820	1,840	213	231	119	614
14	95	227	648	1,840	390	890	1,820	1,170	196	212	106	542
15	88	221	604	1,640	410	759	1,420	839	362	212	90	367
16	105	665	500	1,960	360	786	1,090	665	492	204	79	240
17	98	539	410	2,050	350	747	898	566	469	174	78	183
18	86	392	380	1,680	340	634	767	624	286	162	81	148
19	76	353	430	2,030	360	622	667	566	216	153	74	130
20	73	319	573	2,240	380	602	588	489	191	145	91	117
21	72	290	1,820	2,900	380	882	521	395	223	132	72	148
22	68	274	1,200	2,910	570	1,260	517	342	254	123	72	156
23	66	257	970	2,190	789	927	1,370	566	1,120	128	74	139
24	63	289	795	1,760	560	764	1,040	565	2,150	156	83	116
25	56	1,140	707	1,410	537	609	822	404	1,280	132	99	100
26	52	946	1,850	1,160	432	562	686	354	849	117	113	98
27	56	832	4,910	1,110	420	492	597	314	577	208	104	97
28	60	2,110	2,960	1,030	440	455	542	278	441	142	138	105
29	2,540	1,720	2,030	1,430	------	449	481	414	567	128	76	125
30	2,560	1,120	1,800	1,120	------	521	430	675	455	162	128	117
31	1,210	------	1,450	948	------	925	------	653	------	128	140	------
TOTAL	9,914	17,695	33,348	53,719	13,314	28,321	29,255	17,039	18,303	13,268	3,754	6,186
MEAN	320	590	1,076	1,733	476	914	975	550	610	428	121	206
MAX	2,560	2,110	4,910	6,280	789	2,760	1,820	1,840	2,150	3,250	437	661
MIN	52	221	380	584	340	449	430	271	191	117	72	97
(/)	+92.5	+210	+280	+280	+139	+169	+149	+153	+155	+104	+66.6	+136
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 236,773 MEAN 649 MAX 4,910 MIN 28 (/) +140 CFSM - IN. -
WTR YR 1974 TOTAL 244,116 MEAN 669 MAX 6,280 MIN 52 (/) +161 CFSM - IN. -

/ Diversion from and change in contents in Quemahoning Creek, North Fork Bens Creek, Dalton Run, and Mill Creek Reservoirs and diversion from Stony Creek, equivalent in cubic feet per second. Records of diversion and reservoir contents furnished by Manufacturers Water Co. and Greater Johnstown Water Authority.

03041000 Little Conemaugh River at East Conemaugh, Pa.

LOCATION.--Lat 40°20'37", long 78°53'07", Cambria County, on right bank 100 ft (30 m) downstream from bridge on State Highway 271 at East Conemaugh, 0.3 mi (0.5 km) downstream from Clapboard Run, and 2.5 mi (4.0 km) upstream from confluence with Stony Creek.

DRAINAGE AREA.--183 mi^2 (474 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,208.29 ft (368.287 m) above mean sea level. Prior to Feb. 1, 1940, nonrecording gage at site 100 ft (30 m) upstream at same datum.

AVERAGE DISCHARGE.--35 years, 319 ft^3/s (9.034 m^3/s), 23.67 in/yr (601 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 4,780 ft^3/s (135 m^3/s) July 1 (gage height, 6.04 ft or 1.841 m); minimum daily, 44 ft^3/s (1.25 m^3/s) Aug. 21, 22.

Period of record: Maximum discharge, 16,600 ft^3/s (470 m^3/s) June 23, 1972 (gage height, 10.48 ft or 3.194 m), from rating curve extended above 5,200 ft^3/s (150 m^3/s) on basis of slope-area measurement at gage height 8.86 ft (2.701 m); minimum, 3.4 ft^3/s (0.096 m^3/s) Sept. 28, Oct. 8, 9, 11, 1963 (gage height, 1.08 ft or 0.329 m).

Maximum discharge since 1935, 28,800 ft^3/s (816 m^3/s) Mar. 17, 18, 1936, by slope-area measurement.

REMARKS.--Records good. Flow regulated by reservoirs and diversion above station; the two most effective reservoirs have a combined capacity of 5,640 acre-ft (6.95 hm^3). Figures of daily discharge do not include diversion at South Fork intake to Cambria plant of Bethlehem Steel Co., from Saltlick Run Reservoir to city of Johnstown, and from Wilmore Reservoir (capacity, 3,145 acre-ft or 3.88 hm^3) to Franklin plant of Bethlehem Steel Co.

REVISIONS (WATER YEARS).--WSP 1305: 1939-50 (adjusted monthly runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	916	532	524	383	302	529	258	442	2,490	58	85
2	251	654	443	434	364	378	689	219	317	777	56	183
3	221	492	396	401	343	521	663	274	257	478	110	321
4	152	397	355	445	312	496	1,040	265	225	343	100	237
5	146	338	363	349	258	476	806	218	202	317	74	123
6	118	287	396	330	254	433	638	212	181	256	60	96
7	109	248	296	296	276	390	530	208	165	207	52	114
8	111	224	265	251	244	417	463	191	151	180	49	91
9	124	208	432	262	227	1,350	518	185	144	159	100	80
10	125	186	601	491	194	2,290	447	185	134	145	220	76
11	98	166	467	1,790	197	1,140	447	168	125	143	150	72
12	82	161	402	1,240	185	825	424	740	121	122	76	76
13	78	157	381	766	192	621	625	896	116	112	68	186
14	90	146	398	611	229	494	603	536	112	105	58	314
15	88	146	348	670	195	428	524	429	171	109	50	154
16	105	394	298	950	171	453	458	359	313	104	47	114
17	94	273	240	1,140	173	422	401	312	197	95	46	97
18	83	223	210	818	153	356	358	383	137	91	46	87
19	76	222	200	1,060	165	346	327	305	117	91	47	78
20	73	205	280	977	181	317	291	255	100	85	54	70
21	69	192	1,150	1,330	165	440	262	223	118	81	44	100
22	68	180	712	1,200	231	490	268	208	136	76	44	121
23	67	170	572	957	331	397	598	295	281	84	45	95
24	65	190	483	796	226	360	398	265	328	93	52	82
25	64	857	434	641	240	299	341	205	217	75	62	78
26	62	908	1,000	544	199	287	302	182	286	66	66	74
27	60	633	2,640	520	193	268	276	168	231	118	60	70
28	59	1,080	1,450	495	212	250	254	157	188	80	72	78
29	2,040	886	916	612	------	238	239	201	278	74	60	85
30	2,070	659	782	475	------	291	231	411	218	111	142	92
31	947	------	598	431	------	708	------	283	------	74	109	------
TOTAL	8,025	11,798	18,040	21,806	6,493	16,483	13,950	9,196	6,008	7,341	2,277	3,529
MEAN	259	393	582	703	232	532	465	297	200	237	73.5	118
MAX	2,070	1,080	2,640	1,790	383	2,290	1,040	896	442	2,490	220	321
MIN	59	146	200	251	153	238	231	157	100	66	44	70
(/)	+24.0	+11.4	+9.6	+10.2	+11.7	+9.0	+11.3	+10.5	+11.3	+11.3	+14.9	+14.3
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 129,213 MEAN 354 MAX 2,640 MIN 36 (/) +15.2 CFSM - IN. -
WTR YR 1974 TOTAL 124,946 MEAN 342 MAX 2,640 MIN 44 (/) +12.5 CFSM - IN. -

/ Diversion from and change in contents in Wilmore and Saltlick Run Reservoirs, and diversion from South Fork intake, equivalent in cubic feet per second. Records of diversion and reservoir contents furnished by Manufacturers Water Co. and Greater Johnstown Water Authority.

03041500 Conemaugh River at Seward, Pa.

LOCATION.--Lat 40°25'09", long 79°01'35", Westmoreland County, on left bank at upstream side of bridge on State Highway 56 at Seward, 2.0 mi (3.2 km) downstream from Findley Run, and 9 mi (14 km) northwest of Johnstown.

DRAINAGE AREA.--715 mi^2 (1,852 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,076.01 ft (327.968 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 1,257 ft^3/s (35.60 m^3/s), 23.87 in/yr (606 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 11,000 ft^3/s (312 m^3/s) July 1 (gage height, 8.20 ft or 2.499 m); minimum, 302 ft^3/s (8.55 m^3/s) Oct. 28 (gage height, 2.12 ft or 0.646 m).
Period of record: Maximum discharge, 54,000 ft^3/s (1,530 m^3/s) Oct. 16, 1954 (gage height, 19.20 ft or 5,852 m); minimum not determined; minimum daily, 105 ft^3/s (2.97 m^3/s) Dec. 28, 29, 31, 1938.
Maximum stage since 1935, 26.4 ft (8.05 m) Mar. 18, 1936, from floodmarks (discharge, 90,000 ft^3/s or 2,550 m^3/s) by contracted-opening measurement at site 6.7 mi (10.8 km) downstream, adjusted for inflow.

REMARKS.--Records good. Flow regulated by steel mills and by reservoirs above station, the eight most effective of which have a combined capacity of 51,850 acre-ft (63.9 hm^3).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	815	2,530	1,870	2,310	1,600	1,360	1,850	1,110	2,840	7,200	433	553
2	787	2,090	1,610	1,940	1,500	1,590	2,240	987	2,210	3,760	458	692
3	819	1,640	1,400	1,790	1,440	1,880	2,410	1,150	1,720	2,360	556	1,510
4	685	1,360	1,280	2,200	1,300	1,870	3,240	1,200	1,410	1,700	542	1,240
5	653	1,180	1,250	1,830	1,110	1,820	3,000	1,040	1,160	1,510	501	732
6	577	1,030	1,690	1,630	1,030	1,720	2,410	982	989	1,380	434	599
7	491	879	1,380	1,490	1,100	1,570	2,070	931	883	1,160	409	681
8	515	796	1,120	1,250	1,040	1,750	1,820	849	797	983	397	612
9	773	754	1,410	1,260	925	3,800	2,090	824	757	861	424	529
10	576	719	1,980	2,190	849	6,310	1,980	812	708	791	809	485
11	497	668	1,620	7,220	911	3,890	1,920	766	661	807	571	456
12	446	644	1,390	6,650	981	2,950	1,780	2,070	627	729	457	440
13	412	618	1,320	4,180	842	2,340	2,760	3,780	602	657	427	1,200
14	413	614	1,390	2,870	984	1,920	3,040	2,400	576	619	416	1,380
15	407	614	1,300	2,670	917	1,680	2,500	1,850	699	613	384	941
16	463	1,320	1,140	3,250	821	1,730	2,060	1,550	1,250	617	371	713
17	428	1,220	1,020	3,710	811	1,670	1,790	1,320	1,060	575	372	613
18	398	950	860	3,280	728	1,460	1,600	1,450	737	549	369	554
19	383	863	950	3,050	753	1,410	1,450	1,290	622	547	363	509
20	378	796	1,120	3,890	843	1,360	1,310	1,120	583	541	391	481
21	367	742	3,350	3,860	838	1,740	1,170	965	605	508	368	573
22	359	727	2,470	5,100	986	2,350	1,140	876	658	481	367	639
23	348	696	1,990	4,060	1,550	1,890	2,340	1,150	1,260	489	363	558
24	337	746	1,710	3,200	1,190	1,650	2,010	1,250	2,950	551	371	502
25	329	2,240	1,530	2,550	1,190	1,390	1,680	953	1,910	516	373	467
26	321	2,510	2,810	2,160	980	1,280	1,470	842	1,560	479	409	446
27	322	1,920	8,190	2,070	932	1,180	1,320	775	1,200	528	402	438
28	323	3,530	5,760	1,910	1,030	1,090	1,200	726	961	504	491	458
29	4,010	3,220	3,800	2,440	------	1,060	1,110	845	1,160	495	417	490
30	5,480	2,280	3,270	2,040	------	1,150	1,040	1,530	1,020	576	638	511
31	2,710	------	2,680	1,800	------	2,040	------	1,320	------	488	591	------
TOTAL	25,822	39,896	64,660	89,850	29,181	60,900	57,800	38,713	34,175	33,574	13,874	20,002
MEAN	833	1,330	2,086	2,898	1,042	1,965	1,927	1,249	1,139	1,083	448	667
MAX	5,480	3,530	8,190	7,220	1,600	6,310	3,240	3,780	2,950	7,200	809	1,510
MIN	321	614	860	1,250	728	1,060	1,040	726	576	479	363	438
(/)	-41.1	+80.5	+150	+128	-20.4	+24.8	-2.4	+.7	-1.9	-57.8	-103	-12.4
MEAN≠	792	1,410	2,236	3,026	1,022	1,990	1,925	1,250	1,137	1,025	345	655
CFSM≠	1.11	1.97	3.13	4.23	1.43	2.78	2.69	1.75	1.59	1.43	.48	.92
IN.≠	1.28	2.20	3.61	4.88	1.49	3.21	3.00	2.02	1.77	1.65	.55	1.03

CAL YR 1973 TOTAL 492,626 MEAN 1,350 MAX 8,190 MIN 265 MEAN≠ 1,339 CFSM≠ 1.87 IN.≠ 25.41
WTR YR 1974 TOTAL 508,447 MEAN 1,393 MAX 8,190 MIN 321 MEAN≠ 1,405 CFSM≠ 1.97 IN.≠ 26.69

/ Change in contents, equivalent in cubic feet per second, in Quemahoning Creek, North Fork Bens Creek, Dalton Run, Mill Creek, Wilmore, Saltlick Run, Hinckston Run, and Laurel Run Reservoirs. Records of reservoir contents furnished by Manufacturers Water Co. and Greater Johnstown Water Authority.
≠ Adjusted for change in contents.

03042000 Blacklick Creek at Josephine, Pa.

LOCATION.--Lat 40°28'24", long 79°11'01", Indiana County, on right bank on upstream side of old concrete dam at Josephine, 0.9 mi (1.4 km) upstream from Two Lick Creek, and 5 mi (8 km) northeast of Blairsville.

DRAINAGE AREA.--192 mi^2 (497 km^2).

PERIOD OF RECORD.--January 1952 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 975.82 ft (297.431 m) above mean sea level, datum of 1912. Prior to Aug. 25, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 352 ft^3/s (9.969 m^3/s), 24.90 in/yr (632 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,270 ft^3/s (178 m^3/s) July 1 (gage height, 9.14 ft or 2.786 m); minimum, 59 ft^3/s (1.67 m^3/s) Aug. 20 (gage height, 3.46 ft or 1.055 m).
Period of record: Maximum discharge, 20,800 ft^3/s (589 m^3/s) June 23, 1972 (gage height, 13.99 ft or 4.264 m in gage well, 14.27 ft or 4.349 m from outside gage), from rating curve extended above 5,500 ft^3/s (160 m^3/s) on basis of contracted-opening measurement at gage height, 11.35 ft (3.459 m) in gage well, 12.67 ft (3.862 m) from outside floodmark and slope-area measurement at gage height, 10.93 ft (3.331 m); minimum, 19 ft^3/s (0.54 m^3/s) Sept. 14, 1952, Nov. 4, 1953; minimum gage height, 3.15 ft (0.960 m) Oct. 15, 1969.

55,000 ± 19.89 (7-77)

REMARKS.--Records good except those for winter periods, which are fair. Some regulation at low flow by mine pumpage above station.

REVISIONS (WATER YEARS).--WSP 1385: 1952-54(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	516	1,060	580	666	432	454	778	350	1,940	3,600	81	247
2	395	866	479	524	397	560	945	304	1,010	1,120	88	640
3	405	607	417	493	383	705	1,010	368	668	649	122	494
4	308	475	387	552	327	649	1,340	418	502	465	125	786
5	321	400	372	436	278	663	1,110	342	408	614	146	405
6	285	340	347	350	250	631	847	317	346	445	99	298
7	229	294	293	300	454	519	678	295	288	335	88	290
8	205	265	263	280	370	616	574	265	250	269	81	217
9	261	245	353	342	311	2,330	617	262	236	227	90	188
10	233	229	558	568	281	3,620	583	250	197	206	201	164
11	194	205	442	2,060	250	1,770	589	225	181	243	131	155
12	174	188	379	1,660	230	1,180	542	1,080	174	186	93	146
13	158	167	375	960	250	826	623	1,490	161	160	86	180
14	155	164	481	730	317	635	661	814	146	144	79	544
15	143	183	447	715	284	528	575	616	236	144	76	359
16	149	576	360	960	243	684	512	486	584	134	71	237
17	143	450	310	1,300	252	724	448	429	357	120	70	188
18	131	354	270	938	210	549	398	769	250	105	78	184
19	122	323	330	1,570	224	520	366	569	196	105	74	170
20	119	297	410	1,470	285	495	333	423	183	95	67	201
21	119	265	1,610	1,630	260	682	297	352	187	96	71	574
22	105	249	988	1,510	369	906	285	316	237	90	66	857
23	103	221	726	1,090	642	670	586	521	386	97	72	493
24	103	228	572	913	455	574	456	488	468	126	62	361
25	103	782	493	709	440	463	390	365	312	103	62	306
26	103	1,250	1,240	598	360	423	354	316	322	93	64	273
27	103	787	2,640	574	321	390	318	276	273	79	82	242
28	98	1,040	1,700	531	346	356	298	249	215	82	105	213
29	528	991	1,120	678	------	339	270	325	244	89	116	207
30	1,410	716	929	539	------	375	264	812	261	113	174	231
31	774	------	734	475	------	830	------	732	------	96	269	------
TOTAL	8,195	14,217	20,605	26,121	9,221	24,666	17,047	14,824	11,218	10,430	3,089	9,850
MEAN	264	474	665	843	329	796	568	478	374	336	99.6	328
MAX	1,410	1,250	2,640	2,060	642	3,620	1,340	1,490	1,940	3,600	269	857
MIN	98	164	263	280	210	339	264	225	146	79	62	146
CFSM	1.38	2.47	3.46	4.39	1.71	4.15	2.96	2.49	1.95	1.75	.52	1.71
IN.	1.59	2.75	3.99	5.06	1.79	4.78	3.30	2.87	2.17	2.02	.60	1.91

CAL YR 1973 TOTAL 150,604 MEAN 413 MAX 2,810 MIN 52 CFSM 2.15 IN 29.18
WTR YR 1974 TOTAL 169,483 MEAN 464 MAX 3,620 MIN 62 CFSM 2.42 IN 32.84

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	0800	6.96	2,930	7- 1	0430	9.14	6,270
3-10	0330	8.23	4,780				

03042200 Little Yellow Creek near Strongstown, Pa.

LOCATION.--Lat 40°33'45", long 78°56'44", Indiana County, on right bank 100 ft (30 m) downstream from concrete box culvert on U.S. Highway 422, 1.4 mi (2.2 km) northwest of Strongstown, 6 mi (10 km) upstream from mouth, and 11 mi (18 km) southeast of Indiana.

DRAINAGE AREA.--7.36 mi^2 (19.06 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1959-60, and annual maximum, water year 1960. September 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,586.83 ft (483.666 m) above mean sea level. Aug. 25, 1959 to Aug. 31, 1960, low-flow gage, and Nov. 6, 1959 to Aug. 31, 1960, crest-stage gage at site 100 ft (30 m) upstream at same datum.

AVERAGE DISCHARGE.--14 years, 12.9 ft^3/s (0.365 m^3/s), 23.80 in/yr (605 mm/yr).

EXTREMES.--Current year: Maximum discharge, 324 ft^3/s (9.18 m^3/s) May 31 (gage height, 4.42 ft or 1.347 m); minimum, 0.58 ft^3/s (0.016 m^3/s) Aug. 14, 15, 23, 24, 25, 26 (gage height, 1.35 ft or 0.411 m).
Period of record: Maximum discharge, 820 ft^3/s (23.2 m^3/s) June 23, 1972 (gage height, 6.10 ft or 1.859 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 17, 1965; minimum gage height, 1.10 ft (0.335 m) Sept. 1, 1962.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	46	18	20	13	18	32	16	129	87	.71	17
2	19	30	14	14	12	22	38	11	46	24	3.1	9.9
3	15	23	13	13	11	23	32	20	28	15	2.0	45
4	11	17	11	12	9.0	21	42	16	19	11	1.8	19
5	13	13	11	11	8.2	24	30	14	14	9.1	1.5	9.4
6	8.9	11	9.2	10	10	20	24	13	10	6.6	1.3	6.4
7	7.0	9.2	7.4	9.4	14	17	19	11	7.9	5.1	1.1	5.5
8	6.7	8.0	6.2	8.6	11	29	17	9.5	6.5	4.2	1.0	4.0
9	9.9	7.0	16	9.4	9.8	113	20	9.0	5.4	3.5	1.1	3.2
10	6.7	6.1	17	28	9.2	125	18	8.2	4.4	4.4	2.5	2.8
11	5.2	5.0	13	82	8.7	56	18	6.9	3.6	5.9	1.2	2.4
12	4.5	4.8	11	50	8.2	37	16	75	3.6	3.0	.88	2.3
13	4.1	4.3	12	33	8.6	25	20	49	3.1	2.4	.81	13
14	4.1	4.0	18	27	10	19	18	29	2.5	2.1	.69	36
15	3.3	11	14	27	8.6	16	16	21	5.9	2.2	.62	12
16	3.5	31	12	42	7.6	32	13	16	9.5	1.9	.69	7.7
17	3.3	16	21	47	6.6	25	12	17	5.5	1.6	.87	5.5
18	2.8	13	29	36	6.4	19	9.9	46	3.4	1.4	1.0	4.3
19	2.5	13	14	96	6.5	20	9.3	24	2.9	1.4	.97	3.5
20	2.6	11	29	54	9.5	16	7.7	18	3.2	1.3	.90	4.5
21	2.3	9.4	49	78	7.3	32	6.7	14	2.8	1.1	.86	26
22	2.2	8.7	30	50	21	27	10	14	7.1	1.1	.81	18
23	2.1	7.6	23	40	19	22	21	31	13	1.8	.68	11
24	2.1	8.8	17	30	20	19	13	20	8.7	1.9	.58	8.3
25	2.2	42	18	23	14	16	11	15	6.2	1.3	.58	6.7
26	1.9	34	83	19	21	13	10	13	5.9	1.2	.66	5.5
27	1.8	27	108	18	16	11	9.3	10	4.9	1.1	.80	4.5
28	1.8	43	53	21	11	9.8	8.3	8.5	4.2	.93	2.1	3.9
29	48	30	37	21	------	11	7.4	13	5.5	1.2	2.4	4.5
30	56	23	28	17	------	21	9.6	34	17	1.4	7.7	4.1
31	30	------	23	15	------	50	------	49	------	.90	2.6	------
TOTAL	308.5	516.9	764.8	961.4	317.2	908.8	518.2	651.1	388.7	207.03	44.51	305.9
MEAN	9.95	17.2	24.7	31.0	11.3	29.3	17.3	21.0	13.0	6.68	1.44	10.2
MAX	56	46	108	96	21	125	42	75	129	87	7.7	45
MIN	1.8	4.0	6.2	8.6	6.4	9.8	6.7	6.9	2.5	.90	.58	2.3
CFSM	1.35	2.34	3.36	4.21	1.54	3.98	2.35	2.85	1.77	.91	.20	1.39
IN.	1.56	2.61	3.87	4.86	1.60	4.59	2.62	3.29	1.96	1.05	.22	1.55

CAL YR 1973 TOTAL 5,263.70 MEAN 14.4 MAX 174 MIN .51 CFSM 1.96 IN 26.60
WTR YR 1974 TOTAL 5,893.04 MEAN 16.1 MAX 129 MIN .58 CFSM 2.19 IN 29.79

PEAK DISCHARGE (BASE, 180 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 9	2145	4.12	264	7- 1	0045	3.99	238
5-31	2330	4.42	324				

03042280 Yellow Creek near Homer City, Pa.

LOCATION.--Lat 40°34'18", long 79°06'13", Indiana County, on left bank 150 ft (46 m) downstream from Ferrier Run, 0.3 mi (0.5 km) upstream from Central Indiana County Water Authority dam, and 3.5 mi (5.6 km) northeast of Homer City.

DRAINAGE AREA.--59.5 mi^2 (154.1 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 1,140 ft or 347 m (from topographic map).

AVERAGE DISCHARGE.--7 years, 106 ft^3/s (3.002 m^3/s), 24.19 in/yr (614 mm/yr), adjusted for storage beginning June 1971.

EXTREMES.--Current year: Maximum discharge, 914 ft^3/s (25.9 m^3/s) Mar. 10 (gage height, 4.48 ft or 1.366 m); minimum daily, 14 ft^3/s (0.40 m^3/s) Aug. 21, 23, 24, 26.

Period of record: Maximum discharge, 4,100 ft^3/s (116 m^3/s) probably June 23, 1972 (gage height, 7.46 ft or 2.274 m), from rating curve extended above 650 ft^3/s (18 m^3/s) on basis of computation of peak flow over dam; maximum gage height, 8.37 ft (2.551 m) Feb. 14, 1971 (backwater from ice); minimum discharge, 1.4 ft^3/s (0.040 m^3/s) July 19, 1969 (gage height, 1.99 ft or 0.607 m).

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated since 1971 by Yellow Creek Lake 4.2 mi (6.8 km) upstream (see p. 246).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	166	143	137	101	110	168	79	552	240	26	28
2	48	133	116	116	94	130	180	79	476	199	26	20
3	85	114	98	105	89	151	182	86	395	176	25	34
4	81	94	87	104	80	149	228	93	230	181	26	44
5	79	81	82	91	67	150	219	90	220	268	25	68
6	71	70	80	85	62	145	183	83	210	285	25	65
7	63	61	72	78	95	130	151	78	200	190	24	63
8	56	54	67	70	98	153	132	72	190	136	21	54
9	56	47	84	71	89	478	132	66	170	72	23	34
10	54	42	118	97	78	842	138	61	150	55	22	30
11	48	39	114	380	75	560	152	57	130	86	21	26
12	44	35	104	460	69	336	146	222	105	103	21	30
13	40	33	103	325	67	218	151	405	100	85	21	47
14	39	35	127	228	71	157	153	303	66	35	19	66
15	38	42	131	196	69	126	137	212	50	30	16	113
16	36	92	119	228	63	152	123	158	100	29	16	128
17	36	102	108	273	60	175	107	132	180	28	17	119
18	35	92	95	254	53	149	94	214	180	27	16	123
19	34	86	86	407	55	136	84	189	120	28	16	111
20	31	79	110	439	67	123	76	147	76	28	15	125
21	30	70	315	390	65	151	68	116	70	26	14	208
22	30	63	287	363	86	194	67	100	110	28	15	208
23	29	56	210	288	118	170	98	133	130	30	14	180
24	29	56	155	232	115	146	97	136	125	28	14	119
25	30	104	126	178	111	120	89	112	120	26	15	86
26	30	173	246	147	98	103	81	94	150	25	14	61
27	30	171	490	131	88	92	74	79	130	25	15	52
28	32	248	385	125	86	82	68	67	125	25	16	47
29	36	253	266	136	------	81	62	231	120	25	16	52
30	59	192	196	125	------	87	64	414	110	26	18	48
31	95	------	155	112	------	139	------	442	------	27	15	------
TOTAL	1,443	2,883	4,875	6,371	2,269	5,935	3,704	4,750	5,090	2,572	587	2,389
MEAN	46.5	96.1	157	206	81.0	191	123	153	170	83.0	18.9	79.6
MAX	95	253	490	460	118	842	228	442	552	285	26	208
MIN	29	33	67	70	53	81	62	57	50	25	14	20
MEAN≠	52.5	96.9	157	204	79.6	191	122	135	67.0	48.2	7.0	91.2
CFSM≠	.88	1.63	2.64	3.43	1.34	3.21	2.05	2.27	1.13	.81	.12	1.53
IN.≠	1.01	1.82	3.04	3.95	1.40	3.70	2.29	2.62	1.26	.93	.14	1.71

CAL YR 1973 TOTAL 37,658 MEAN 103 MAX 807 MIN 17 MEAN≠ 104 CFSM≠ 1.75 IN.≠ 23.60
WTR YR 1974 TOTAL 42,868 MEAN 117 MAX 842 MIN 14 MEAN≠ 104 CFSM≠ 1.75 IN.≠ 23.87

≠ Adjusted for change in contents in Yellow Creek Lake.

03042500 Two Lick Creek at Graceton, Pa.

LOCATION.--Lat 40°31'02", long 79°10'19", Indiana County, on right bank 0.8 mi (1.3 km) upstream from highway bridge on road leading west from Graceton, 1.1 mi (1.8 km) downstream from Tearing Run, 1.5 mi (2.4 km) upstream from Cherry Run, and 8 mi (13 km) northeast of Blairsville.

DRAINAGE AREA.--171 mi^2 (443 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 981.63 ft (299.201 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 273 ft^3/s (7.731 m^3/s), 21.68 in/yr (551 mm/yr), adjusted for storage since December 1968.

EXTREMES.--Current year: Maximum discharge, 3,240 ft^3/s (91.8 m^3/s) Mar. 10 (gage height, 7.34 ft or 2.237 m); minimum, 47 ft^3/s (1.33 m^3/s) Aug. 23, 26, 27 (gage height, 1.94 ft or 0.591 m).
Period of record: Maximum discharge, 19,600 ft^3/s (555 m^3/s) June 23, 1972 (gage height, 14.69 ft or 4.478 m), from rating curve extended above 4,500 ft^3/s (130 m^3/s) on basis of contracted-opening measurement at gage height 12.71 ft (3.874 m) at site 1.6 mi (2.6 km) above gage, adjusted to gage site; minimum, 2.0 ft^3/s (0.056 m^3/s) Sept. 14, 15, 1952 (gage height, 1.27 ft or 0.387 m); minimum daily, 8.7 ft^3/s (0.25 m^3/s) Sept. 14, 1952.

REMARKS.--Records good. Diurnal fluctuation caused by mine pumpage and by sewage-disposal plant above station. Flow regulated since December 1968 by Two Lick Creek Reservoir 10 mi (16 km) upstream (capacity, 16,240 acre-ft or 20.0 hm^3) and since July 1971 by Yellow Creek Lake 11 mi (18 km) upstream (see p. 246).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	530	692	364	354	284	315	386	213	1,420	1,600	65	177
2	236	872	316	277	274	348	427	183	1,250	846	64	110
3	241	377	281	220	263	368	441	209	618	392	65	212
4	234	321	259	220	243	364	1,010	205	572	365	73	135
5	236	280	249	180	220	719	917	200	547	450	113	136
6	216	247	231	170	210	520	432	193	529	462	111	125
7	202	229	215	150	354	323	383	184	514	370	110	119
8	192	216	203	140	300	408	518	176	492	300	105	112
9	187	206	301	167	272	1,520	965	173	429	217	155	84
10	175	192	348	253	248	2,350	739	164	392	180	141	78
11	146	186	314	823	239	1,820	347	157	314	197	108	76
12	131	181	288	807	229	623	335	575	266	197	105	77
13	71	179	343	588	228	472	352	841	254	155	104	333
14	71	164	427	479	231	387	348	899	133	81	100	821
15	67	169	383	973	222	340	320	418	131	82	95	643
16	67	335	363	1,170	213	576	293	346	236	72	89	398
17	63	293	541	719	208	723	268	527	453	69	72	287
18	62	271	950	484	196	572	249	923	478	69	72	294
19	60	257	366	1,130	200	363	235	377	287	71	68	282
20	60	240	408	1,590	215	332	220	320	197	67	65	281
21	60	226	684	1,340	204	434	209	277	183	67	52	512
22	59	212	561	1,260	260	553	217	265	288	65	53	455
23	60	202	492	1,670	297	684	259	341	332	85	51	560
24	59	213	801	1,460	288	636	246	316	321	77	51	698
25	60	397	956	421	285	508	228	273	314	69	53	233
26	61	445	1,180	368	262	281	213	183	368	68	49	164
27	61	452	1,530	349	247	256	203	137	339	67	54	148
28	64	1,400	1,370	337	246	239	195	117	324	67	85	139
29	250	1,470	1,150	366	------	242	184	301	308	71	81	164
30	311	657	1,010	335	------	257	184	568	278	79	106	146
31	329	------	601	309	------	346	------	684	------	67	65	------
TOTAL	4,621	11,581	17,485	19,109	6,938	17,879	11,323	10,745	12,567	7,024	2,580	7,999
MEAN	149	386	564	616	248	577	377	347	419	227	83.2	267
MAX	530	1,470	1,530	1,670	354	2,350	1,010	923	1,420	1,600	155	821
MIN	59	164	203	140	196	239	184	117	131	65	49	76
(/)	+10.9	-11.0	-46.5	+40.6	+4.9	-16.1	-13.6	+14.6	-90.0	-48.6	-38.7	+22.5
MEAN≠	160	375	518	657	253	561	363	362	329	178	44.5	290
CFSM≠	.94	2.19	3.03	3.84	1.48	3.28	2.12	2.12	1.92	1.04	.26	1.70
IN.≠	1.08	2.44	3.49	4.43	1.54	3.78	2.37	2.44	2.14	1.20	.30	1.90

CAL YR 1973 TOTAL 115,199 MEAN 316 MAX 1,630 MIN 59 MEAN≠ 315 CFSM≠ 1.84 IN.≠ 24.94
WTR YR 1974 TOTAL 129,851 MEAN 356 MAX 2,350 MIN 49 MEAN≠ 342 CFSM≠ 2.00 IN.≠ 27.11

/ Change in contents, equivalent in cubic feet per second, in Two Lick Creek Reservoir and Yellow Creek Lake. Records of contents in Two Lick Creek Reservoir furnished by Pennsylvania Electric Co.
≠ Adjusted for change in reservoir contents.

03044000 Conemaugh River at Tunnelton, Pa.

LOCATION.--Lat 40°27'16", long 79°23'28", Indiana County, on right bank at downstream side of highway bridge at Tunnelton, 0.9 mi (1.4 km) downstream from Boatyard Run, 2.0 mi (3.2 km) downstream from Conemaugh River Dam, 3.8 mi (6.1 km) southeast of Saltsburg, and 5.5 mi (8.8 km) upstream from confluence with Loyalhanna Creek.

DRAINAGE AREA.--1,358 mi^2 (3,517 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 844.64 ft (257.446 m) above mean sea level. Prior to Oct. 1, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 2,330 ft^3/s (65.99 m^3/s), 23.30 in/yr (592 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 13,000 ft^3/s (368 m^3/s) Mar. 11 (gage height, 8.69 ft or 2.649 m); minimum daily, 346 ft^3/s (9.80 m^3/s) Aug. 23.
Period of record: Maximum discharge, 59,200 ft^3/s (1,680 m^3/s) Mar. 7, 1945 (gage height, 21.0 ft or 6.40 m, from graph based on gage readings); minimum, 1 ft^3/s (0.028 m^3/s) Sept. 10, 1954 (gage height, 1.20 ft or 0.366 m); minimum daily, 1 ft^3/s (0.028 m^3/s) Sept. 10, 1954.

REMARKS.--Records good. Flow regulated since 1971 by Yellow Creek Lake, since 1952 by Conemaugh River Lake 2 mi (3 km) upstream (see p.246) and by reservoirs above station, the nine most effective of which have a combined capacity of 68,090 acre-ft (84.0 hm^3). Evaporation from operation of Homer City and Conemaugh generating stations, which began during 1969 and 1970 respectively, can amount to as much as 45 ft^3/s (1.3 m^3/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,210	3,900	5,040	8,080	2,060	1,860	2,660	1,270	2,480	3,600	730	2,000
2	1,820	4,720	4,800	7,470	2,130	1,990	3,250	1,320	4,000	9,280	719	2,050
3	1,020	5,600	4,420	5,330	2,160	2,130	3,370	1,360	5,510	11,000	707	2,130
4	1,040	4,630	3,520	2,930	2,160	2,240	3,540	1,410	5,350	7,280	707	3,460
5	1,150	3,620	1,990	3,120	2,160	2,310	5,400	1,440	4,400	4,130	775	4,590
6	1,390	3,480	1,830	4,130	2,110	2,390	8,030	1,470	2,930	3,250	775	2,750
7	1,540	2,870	1,920	2,820	2,180	2,950	7,420	1,480	1,970	2,180	819	1,860
8	1,510	2,210	1,920	1,830	2,510	3,520	5,510	1,480	1,570	1,750	786	1,770
9	1,360	2,140	1,920	1,850	3,080	3,760	4,150	1,480	1,570	1,470	494	753
10	1,200	2,060	2,480	1,990	2,870	5,020	4,190	1,480	1,570	1,210	819	643
11	1,190	1,950	3,060	2,510	2,260	8,960	4,090	1,790	1,560	1,290	865	632
12	1,180	1,830	2,990	2,860	1,760	12,500	3,820	2,190	1,560	1,320	654	731
13	1,160	1,410	2,870	4,510	1,740	11,700	3,140	2,480	1,530	1,320	865	1,100
14	1,140	924	2,910	6,310	1,730	10,600	3,100	3,480	1,510	1,290	831	1,400
15	1,110	973	2,950	6,260	1,740	6,970	3,300	4,490	1,480	1,270	797	1,570
16	1,090	1,190	2,870	6,700	1,500	3,800	3,350	4,420	1,830	1,230	764	1,330
17	912	1,700	2,750	7,540	1,250	3,900	3,330	4,300	2,690	948	719	1,320
18	741	2,500	2,620	7,470	1,270	3,800	3,180	4,210	3,120	570	685	1,530
19	730	2,820	2,550	5,260	1,280	2,730	3,100	4,130	2,840	600	494	1,510
20	730	2,270	2,000	4,530	1,290	1,910	2,970	3,960	1,640	610	631	1,510
21	730	1,630	2,140	8,260	1,580	2,050	2,780	3,720	819	610	580	1,560
22	707	1,360	4,460	9,620	1,860	2,260	2,190	3,370	854	621	521	1,950
23	642	1,070	7,350	9,540	1,920	2,390	1,880	2,470	900	631	346	1,460
24	570	1,010	5,560	9,380	2,020	2,450	2,570	1,910	1,540	642	540	1,410
25	560	1,530	4,090	9,120	2,430	3,740	3,100	1,950	2,750	707	486	1,400
26	560	3,700	4,040	8,720	2,870	5,110	3,010	1,940	3,250	764	486	1,450
27	550	4,740	3,420	8,210	2,290	4,720	2,870	1,890	2,860	753	521	1,020
28	631	4,780	4,110	7,590	1,820	2,910	2,690	1,570	2,100	741	600	1,070
29	865	5,110	7,640	6,790	------	1,940	2,100	1,270	2,030	730	438	1,070
30	1,790	5,170	8,800	4,210	------	1,940	1,440	1,680	2,030	730	797	590
31	3,100	------	8,510	1,970	------	2,020	------	2,210	------	741	1,410	------
TOTAL	34,928	82,897	117,530	176,910	56,030	126,570	105,530	73,620	70,243	63,268	21,361	47,619
MEAN	1,127	2,763	3,791	5,707	2,001	4,083	3,518	2,375	2,341	2,041	689	1,587
MAX	3,100	5,600	8,800	9,620	3,080	12,500	8,030	4,490	5,510	11,000	1,410	4,590
MIN	550	924	1,830	1,830	1,250	1,860	1,440	1,270	819	570	346	590
(/)	+270	-122	+267	-168	-78.5	+94.6	-125	+158	-175	-142	-112	+222
MEAN≠	1,397	2,641	4,058	5,539	1,922	4,178	3,393	2,533	2,166	1,899	577	1,809
CFSM≠	1.03	1.94	2.99	4.08	1.42	3.08	2.50	1.87	1.59	1.40	.42	1.33
IN.≠	1.19	2.16	3.45	4.70	1.48	3.55	2.79	2.16	1.77	1.61	.48	1.48

CAL YR 1973 TOTAL 889,570 MEAN 2,437 MAX 9,480 MIN 409 MEAN≠ 2,460 CFSM≠ 1.81 IN.≠ 24.60
WTR YR 1974 TOTAL 976,506 MEAN 2,675 MAX 12,500 MIN 346 MEAN≠ 2,684 CFSM≠ 1.98 IN.≠ 26.82

/ Change in contents, equivalent in cubic feet per second, in Quemahoning Creek, North Fork Bens Creek, Dalton Run, Mill Creek, Wilmore, Saltlick Run, Hinkston Run, Laurel Run, and Two Lick Creek Reservoirs, and Yellow Creek and Conemaugh River Lakes. Records of reservoir contents furnished by Manufacturers Water Co., Greater Johnstown Water Authority, and Pennsylvania Electric Co.
≠ Adjusted for change in reservoir contents.

03045000 Loyalhanna Creek at Kingston, Pa.

LOCATION.--Lat 40°17'33", long 79°20'27", Westmoreland County, on right bank 60 ft (18 m) downstream from bridge on State Highway 217, at Kingston, 100 ft (30 m) downstream from Miller Run, 1.9 mi (3.1 m) upstream from Ninemile Run, and 3 mi (5 km) southeast of Latrobe.

DRAINAGE AREA.--172 mi^2 (445 km^2).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only October to December 1939, published in WSP 1305.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,013.16 ft (308.811 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 1, 1969, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--35 years, 300 ft^3/s (8.496 m^3/s), 23.68 in/yr (601 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 5,910 ft^3/s (167 m^3/s) Jan. 11 (gage height, 8.35 ft or 2.545 m); minimum, 4.6 ft^3/s (0.13 m^3/s) Oct. 26 (gage height, 1.11 ft or 0.338 m).

Period of record: Maximum discharge, 29,700 ft^3/s (841 m^3/s) Oct. 15, 1954 (gage height, 15.8 ft or 4.82 m, present datum, from floodmarks), from rating curve extended above 8,700 ft^3/s (250 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 0.1 ft^3/s (0.003 m^3/s) Sept. 4, 1953; minimum daily, 0.2 ft^3/s (0.006 m^3/s) Oct. 23, 24, 1953.

Maximum stage since at least 1918, 15.8 ft (4.82 m), present datum, Oct. 15, 1954. Flood of Mar. 17 or 18, 1936 reached a stage of about 15.5 ft (4.72 m), present datum, from information by local residents (discharge, 21,000 ft^3/s or 595 m^3/s, from rating curve extended above 8,700 ft^3/s or 250 m^3/s).

REMARKS.--Records good. Flow regulated by Latrobe Reservoir (capacity, 3,670 acre-ft or 4.53 hm^3), and diversion works at Kingston. Figures of daily discharge do not include diversion from reservoir and at Kingston intake to Borough of Latrobe. Records of water quality for the current year are published in Part 2 of this report.

REVISIONS.--WSP 1335: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	393	329	442	303	519	345	280	1,040	2,010	51	285
2	39	275	260	342	270	546	511	215	623	675	88	340
3	54	191	215	454	230	556	562	321	455	415	150	772
4	30	146	187	627	200	479	1,170	295	344	293	133	539
5	101	119	183	400	180	535	856	250	266	475	113	260
6	48	103	163	340	160	484	668	239	210	426	76	165
7	32	86	133	280	296	417	534	216	171	258	57	171
8	26	78	115	240	256	571	458	188	144	192	49	125
9	22	75	213	331	224	934	559	184	127	154	48	101
10	14	71	299	1,670	190	1,340	509	168	111	155	49	88
11	16	65	246	4,460	180	853	502	148	98	310	40	76
12	14	57	202	1,970	160	675	456	1,310	92	155	31	83
13	13	54	233	1,070	170	509	1,160	1,260	85	120	40	1,130
14	15	52	514	749	170	400	993	742	73	103	39	1,150
15	11	56	412	625	160	336	756	523	80	209	33	540
16	16	359	319	539	150	477	565	393	249	144	27	355
17	13	213	250	468	153	478	441	313	216	107	26	266
18	12	159	210	399	137	387	363	556	120	91	29	202
19	14	142	170	742	147	391	310	404	90	93	26	162
20	14	123	697	713	280	340	259	316	80	82	19	150
21	15	107	1,500	799	230	689	221	256	145	69	15	468
22	10	101	799	738	330	734	239	235	182	61	14	419
23	13	90	565	662	403	559	1,320	494	633	102	15	305
24	13	96	432	616	330	462	742	406	594	135	15	225
25	11	762	404	506	326	359	560	322	334	81	13	184
26	8.7	641	1,250	434	272	312	447	277	249	65	11	160
27	11	441	1,540	417	246	268	371	232	187	58	10	135
28	13	741	963	401	258	235	317	195	151	53	49	130
29	515	601	699	484	------	234	274	327	164	55	37	151
30	331	435	582	395	------	249	243	407	131	119	245	138
31	251	------	506	352	------	365	------	333	------	67	123	------
TOTAL	1,732.7	6,832	14,590	22,665	6,411	15,693	16,711	11,805	7,444	7,332	1,671	9,275
MEAN	55.9	228	471	731	229	506	557	381	248	237	53.9	309
MAX	515	762	1,540	4,460	403	1,340	1,320	1,310	1,040	2,010	245	1,150
MIN	8.7	52	115	240	137	234	221	148	73	53	10	76
(/)	+4.8	+13.2	+18.2	+14.8	+9.1	+8.7	+6.0	+10.5	+3.7	+6.8	+5.2	+15.4
MEAN≠	60.7	241	489	746	238	515	563	392	252	244	59.1	324
CFSM≠	.35	1.40	2.84	4.34	1.38	2.99	3.27	2.28	1.47	1.42	.34	1.88
IN.≠	.40	1.56	3.27	5.00	1.44	3.45	3.65	2.63	1.64	1.64	.39	2.10

CAL YR 1973 TOTAL 95,909.3 MEAN 263 MAX 2,720 MIN 3.9 MEAN≠ 271 CFSM≠ 1.58 IN.≠ 27.17
WTR YR 1974 TOTAL 122,161.7 MEAN 335 MAX 4,460 MIN 8.7 MEAN≠ 345 CFSM≠ 2.01 IN.≠ 21.33

PEAK DISCHARGE (BASE, 3,500 CFS).--Jan. 11 (1130) 5,910 cfs (8.35 ft); July 1 (0630) 4,500 cfs (7.52 ft).

/ Diversion from and change in contents in Latrobe Reservoir and diversion from Kingston intake, equivalent in cubic feet per second; furnished by Latrobe Municipal Authority.

≠ Adjusted for diversion and change in reservoir contents.

03047000 Loyalhanna Creek at Loyalhanna Dam, Pa.

LOCATION.--Lat 40°27'53", long 79°27'05", Westmoreland County, on left bank at downstream side of highway bridge, 0.7 mi (1.1 km) downstream from Loyalhanna Dam, 1.5 mi (2.4 km) south of Saltsburg, and 4.0 mi (6.4 km) upstream from confluence with Conemaugh River.

DRAINAGE AREA.--292 mi^2 (756 km^2).

PERIOD OF RECORD.--October 1939 to current year. Prior to October 1970, published as "at Loyalhanna Creek Dam." Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 861.15 ft (262.479 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--35 years, 477 ft^3/s (13.51 m^3/s), 22.19 in/yr (564 mm/yr), adjusted for storage since June 1942.

EXTREMES.--Current year: Maximum discharge, 2,290 ft^3/s (64.9 m^3/s) Jan. 16 (gage height, 4.66 ft or 1.420 m); minimum daily, 0.6 ft^3/s (0.017 m^3/s) Aug. 22.
Period of record: Maximum discharge, 11,700 ft^3/s (331 m^3/s) June 5, 1941 (gage height, 10.30 ft or 3.139 m); from rating curve extended above 5,200 ft^3/s (150 m^3/s); minimum, 0.2 ft^3/s (0.006 m^3/s) Oct. 9, 10, 15, 16, 22-24, 1947, Sept. 16, 17, 1948 (gage height, -0.06 ft or -0.018 m); minimum daily, 0.2 ft^3/s (0.006 m^3/s) Oct. 23, 1947, minimum gage-height, -0.18 ft (-0.055 m) Aug. 23, 1974.

REMARKS.--Records good. Flow completely regulated since 1942 by Loyalhanna Lake 0.7 mi (1.1 km) upstream (see p. 247) and Latrobe Reservoir (combined capacity, 99,000 acre-ft or 122 hm^3).

REVISIONS (WATER YEARS).--WSP 1435: 1941.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	342	916	1,100	390	588	376	377	664	404	218	548
2	209	450	898	390	386	596	384	377	801	939	216	657
3	209	455	868	398	390	603	397	295	931	1,320	215	665
4	209	450	832	410	394	612	415	212	921	1,290	215	991
5	209	446	422	530	398	621	977	214	906	1,260	214	1,260
6	209	446	200	645	394	625	1,940	216	884	1,230	176	1,170
7	156	434	154	645	402	731	1,890	218	645	1,180	111	808
8	105	430	101	640	561	860	1,810	219	332	719	109	528
9	103	340	105	635	856	884	1,320	221	213	306	81	318
10	103	224	258	645	826	945	815	221	213	211	51	199
11	71	224	434	742	598	1,430	820	221	211	213	51	199
12	35	221	438	808	366	1,990	817	230	210	215	51	199
13	35	221	438	1,150	366	1,940	819	243	210	215	51	203
14	35	221	446	1,520	362	1,870	996	478	148	215	51	335
15	35	218	563	1,510	362	1,360	1,180	724	107	215	69	570
16	36	221	670	1,710	277	824	1,180	729	158	215	109	680
17	36	224	670	2,240	197	832	1,160	825	320	215	111	676
18	36	227	655	2,200	199	833	1,120	997	428	215	111	669
19	36	227	655	1,360	201	824	670	1,340	422	171	110	661
20	36	316	650	930	204	811	213	1,670	228	84	71	650
21	36	414	685	1,860	300	793	215	1,620	105	84	19	647
22	36	410	1,280	2,140	415	833	217	1,540	107	84	.60	790
23	36	402	2,010	2,100	421	856	427	1,470	110	85	8.7	918
24	36	394	1,940	2,060	427	862	936	1,030	280	149	103	903
25	36	398	1,500	1,760	430	852	1,220	413	559	218	103	762
26	36	562	1,130	1,960	536	837	1,200	215	665	218	70	627
27	36	783	861	1,900	605	815	1,170	214	657	139	34	414
28	38	922	1,240	1,810	593	600	1,130	324	646	53	34	207
29	43	928	1,960	1,340	------	367	825	437	524	82	68	209
30	122	928	1,890	833	------	369	377	532	319	114	156	210
31	233	------	1,800	378	------	371	------	640	------	163	328	------
TOTAL	2,803	12,478	26,669	38,349	11,856	27,334	27,016	18,462	12,924	12,221	3,315.30	17,673
MEAN	90.4	416	860	1,237	423	882	901	596	431	394	107	589
MAX	233	928	2,010	2,240	856	1,990	1,940	1,670	931	1,320	328	1,260
MIN	35	218	101	378	197	367	213	212	105	53	.60	199
(/)	+52.4	-19.0	-36.8	+5.1	+2.9	+1.7	-7.3	+43.3	-24.2	+8.2	+11.6	-20.4
MEAN≠	143	397	823	1,242	426	884	894	639	407	402	119	569
CFSM≠	.49	1.36	2.82	4.25	1.46	3.03	3.06	2.19	1.39	1.38	.41	1.95
IN.≠	.56	1.52	3.25	4.90	1.52	3.49	3.41	2.52	1.55	1.59	.47	2.18

CAL YR 1973 TOTAL 167,073.00 MEAN 458 MAX 2,110 MIN 19 MEAN≠ 456 CFSM≠ 1.56 IN.≠ 21.19
WTR YR 1974 TOTAL 211,100.30 MEAN 578 MAX 2,240 MIN .60 MEAN≠ 580 CFSM≠ 1.99 IN.≠ 26.96

/ Change in contents, equivalent in cubic feet per second, in Latrobe Reservoir and Loyalhanna Lake. Records of contents in Latrobe Reservoir furnished by the Latrobe Municipal Authority.
≠ Adjusted for change in reservoir contents.

03048500 Kiskiminetas River at Vandergrift, Pa.

LOCATION.--Lat 40°36'16", long 79°33'08", Westmoreland County, on left bank 0.5 mi (0.8 km) upstream from bridge on State Highway Alternate 66 at Vandergrift, and 2.2 mi (3.5 km) upstream from Pine Run.

DRAINAGE AREA.--1,825 mi^2 (4,727 km^2).

PERIOD OF RECORD.--August 1937 to current year. Monthly discharge only for some periods, published in WSP 1305. October 1920 to September 1932 (gage heights and discharge measurements only) in reports of Pennsylvania Department of Forest and Waters.

GAGE.--Water-stage recorder. Datum of gage is 769.40 ft (234.513 m) above mean sea level (Corps of Engineers bench mark). Oct. 1, 1920, to Sept. 30, 1930, nonrecording gage; Oct. 1, 1930, to Sept. 30, 1932, water-stage recorder, at site 0.6 mi (1.0 km) downstream at different datum.

AVERAGE DISCHARGE.--37 years, 3,030 ft^3/s (85.81 m^3/s), 22.55 in/yr (573 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 16,200 ft^3/s (459 m^3/s) Mar. 12 (gage height, 12.29 ft or 3.746 m); minimum, 182 ft^3/s (5.15 m^3/s) Aug. 24 (gage height, 2.82 ft or 0.860 m).
Period of record: Maximum discharge, 71,900 ft^3/s (2,040 m^3/s) Mar. 31, 1940 (gage height, 25.70 ft or 7.833 m); minimum, 56 ft^3/s (1.59 m^3/s) Oct. 15, 16, 1952; minimum daily, 60 ft^3/s (1.70 m^3/s) Oct. 15, 1952.
Flood of Mar. 18, 1936, reached a stage of 41.64 ft (12.692 m), from floodmark at present site (discharge, 185,000 ft^3/s or 5,240 m^3/s, by slope-area measurement).

REMARKS.--Records good. Flow regulated since 1971 by Yellow Creek Lake, since 1952 by Conemaugh River Lake 23 mi (37 km) upstream, since 1942 by Loyalhanna Lake 20 mi (32 km) upstream (see p. 246) and by other reservoirs above station, the 11 most effective of which have a combined capacity of 105,700 acre-ft (130 hm^3). Figures of daily discharge do not include diversion from Beaver Run Reservoir to plants and communities downstream, nor into the Monongahela River basin. Evaporation from operation of Homer City and Conemaugh generating stations, which began during 1969 and 1970, respectively, can amount to as much as 45 ft^3/s (1.3 m^3/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,500	4,660	6,260	10,500	2,720	2,760	2,940	1,780	4,600	6,380	1,000	2,720
2	2,500	5,000	5,900	8,690	2,770	2,920	4,040	1,810	4,570	9,610	987	2,930
3	1,400	6,340	5,510	6,940	2,800	3,090	4,080	1,870	6,910	13,500	977	3,280
4	1,340	5,770	4,840	4,240	2,790	3,180	4,280	1,750	6,610	10,700	986	3,830
5	1,390	4,220	2,970	3,120	2,750	3,300	5,370	1,780	5,950	5,640	986	5,940
6	1,570	4,090	2,160	5,100	2,720	3,330	11,000	1,810	4,270	4,990	1,100	4,560
7	1,820	3,780	2,210	4,290	3,090	3,530	10,300	1,820	3,110	3,680	930	2,790
8	1,710	2,740	2,150	2,590	3,070	4,810	8,610	1,820	2,090	2,740	958	2,380
9	1,650	2,640	2,290	2,650	4,280	5,960	6,030	1,830	1,920	2,160	878	1,800
10	1,360	2,400	2,690	2,830	4,040	7,420	5,380	1,820	1,920	1,570	733	915
11	1,340	2,290	3,820	4,070	3,570	9,740	5,270	1,870	1,910	1,670	949	1,040
12	1,260	2,170	3,710	4,400	2,400	15,900	5,020	3,020	1,890	1,670	907	1,060
13	1,240	2,000	3,700	5,030	2,360	14,900	4,570	3,420	1,860	1,660	896	1,300
14	1,220	1,230	4,110	8,410	2,340	13,700	4,190	3,650	1,810	1,650	940	1,950
15	1,190	1,280	3,990	8,420	2,310	10,700	4,670	5,450	1,730	1,650	901	2,290
16	1,170	1,680	3,950	8,900	2,210	5,230	4,720	5,320	1,880	1,580	916	2,170
17	1,120	1,880	3,740	10,900	1,640	5,250	4,670	5,200	2,860	1,490	907	2,420
18	799	2,590	3,540	10,600	1,650	5,120	4,510	5,430	3,720	918	853	2,170
19	780	3,260	3,430	10,000	1,680	4,500	4,220	5,400	3,470	885	803	2,360
20	775	2,960	3,110	5,370	1,720	2,970	3,440	5,690	2,760	769	683	2,340
21	771	2,190	3,390	10,300	1,790	3,480	3,260	5,390	1,050	748	681	2,580
22	763	2,030	4,660	12,900	2,610	3,780	2,940	5,040	1,070	745	585	2,840
23	749	1,660	10,300	12,800	2,650	3,790	2,340	4,560	1,230	810	524	2,960
24	630	1,480	8,800	12,500	2,700	3,770	3,130	3,240	1,400	818	484	2,510
25	613	2,140	6,000	11,900	2,840	4,150	4,440	2,640	3,020	934	650	2,440
26	605	4,050	5,440	11,700	3,680	6,340	4,360	2,320	4,060	1,050	564	2,220
27	598	5,900	5,430	11,200	3,440	5,900	4,210	2,250	3,930	1,030	425	2,130
28	611	6,550	4,480	10,400	2,620	4,560	3,990	2,140	2,850	864	629	1,020
29	1,390	6,570	9,630	9,160	------	2,560	3,540	1,960	2,740	865	636	1,470
30	1,720	6,500	11,800	6,900	------	2,570	2,160	2,520	2,560	925	759	1,310
31	3,270	------	11,400	2,630	------	2,630	------	3,150	------	911	1,240	------
TOTAL	39,854	102,050	155,410	239,440	75,240	171,840	141,680	97,750	89,750	84,612	25,467	71,725
MEAN	1,286	3,402	5,013	7,724	2,687	5,543	4,723	3,153	2,992	2,729	822	2,391
MAX	3,270	6,570	11,800	12,900	4,280	15,900	11,000	5,690	6,910	13,500	1,240	5,940
MIN	598	1,230	2,150	2,590	1,640	2,560	2,160	1,750	1,050	745	425	915
(/)	+352	-65.7	+326	-44.9	-45.9	+156	-113	+261	-166	-110	-107	+252
MEAN≠	1,638	3,336	5,339	7,679	2,641	5,699	4,610	3,414	2,826	2,619	715	2,643
CFSM≠	.90	1.83	2.93	4.21	1.45	3.12	2.53	1.87	1.55	1.44	.39	1.45
IN.≠	1.04	2.04	3.38	4.85	1.51	3.60	2.82	2.16	1.73	1.66	.45	1.62

CAL YR 1973 TOTAL 1,151,871 MEAN 3,156 MAX 12,600 MIN 426 MEAN≠ 3,214 CFSM≠ 1.76 IN.≠ 23.92
WTR YR 1974 TOTAL 1,294,818 MEAN 3,547 MAX 15,900 MIN 425 MEAN≠ 3,607 CFSM≠ 1.98 IN.≠ 26.86

/ Change in contents in Quemahoning Creek, North Fork Bens Creek, Dalton Run, Mill Creek, Wilmore, Saltlick Run, Hinckston Run, Laurel Run, and Two Lick Creek Reservoirs, and Yellow Creek and Conemaugh River Lakes, and Latrobe Reservoir, Loyalhanna Lake and Beaver Run Reservoir and diversion from Beaver Run Reservoir, equivalent in cubic feet per second. Records of diversion and reservoir contents furnished by Manufacturers Water Co., Greater Johnstown Water Authority, Pennsylvania Electric Co., Latrobe Municipal Authority, and Municipal Authority of Westmoreland County.

≠ Adjusted for diversion and change in reservoir contents.

03049000 Buffalo Creek near Freeport, Pa.

LOCATION.--Lat 40°42'57", long 79°41'59", Butler County, on right bank 0.6 mi (1.0 km) upstream from Little Buffalo Creek and 3 mi (5 km) north of Freeport.

DRAINAGE AREA.--137 mi^2 (355 km^2).

PERIOD OF RECORD.--October 1940 to current year. Monthly discharge only for October 1940, published in WSP 1305.

GAGE.--Water-stage recorder. Altitude of gage is 792 ft (241 m) by barometer. Prior to July 19, 1962, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 189 ft^3/s (5.352 m^3/s), 18.73 in/yr (476 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,850 ft^3/s (109 m^3/s) July 1 (gage height, 6.64 ft or 2.024 m); minimum, 8.2 ft^3/s (0.23 m^3/s) Aug. 27 (gage height, 1.04 ft or 0.317 m).
Period of record: Maximum discharge, 14,000 ft^3/s (396 m^3/s) Oct. 15, 1954 (gage height, 13.60 ft or 4.145 m, from floodmarks), from rating curve extended above 4,300 ft^3/s (120 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 1.3 ft^3/s (0.037 m^3/s) Oct. 16-18, 1960; minimum gage height, 0.69 ft (0.210 m) Sept. 1, 1962.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	236	1,070	379	243	287	289	387	296	93	2,000	17	354
2	165	701	290	188	256	332	1,090	189	75	582	15	273
3	204	450	252	177	227	376	841	276	64	341	14	1,080
4	153	306	222	169	190	367	780	261	56	219	19	815
5	302	236	220	164	171	392	599	220	50	255	53	455
6	236	188	191	163	204	342	486	209	45	168	24	296
7	175	156	152	130	293	301	394	185	41	108	17	211
8	138	133	131	100	208	416	341	156	37	81	15	151
9	112	119	190	140	190	939	531	159	36	67	15	110
10	95	107	310	180	170	1,310	450	154	35	95	61	88
11	79	97	235	250	150	830	434	129	30	108	29	77
12	66	90	205	190	160	596	394	567	32	59	20	71
13	60	83	273	160	177	419	366	762	29	47	23	116
14	107	79	560	130	159	318	344	510	25	41	32	354
15	79	95	454	230	129	268	434	368	32	64	24	168
16	66	278	367	446	116	476	328	278	179	53	16	119
17	57	191	285	654	121	381	274	215	83	37	18	93
18	53	162	230	562	102	319	238	247	52	32	26	98
19	50	156	180	2,310	115	301	211	161	40	29	19	79
20	45	133	210	1,270	188	259	180	125	71	28	15	79
21	42	122	400	858	143	422	159	105	52	23	12	327
22	37	119	271	615	517	471	155	98	56	20	11	410
23	35	104	238	558	597	400	176	147	83	26	11	260
24	34	119	207	518	432	345	147	134	65	45	9.7	187
25	32	517	189	424	360	266	129	105	44	32	9.2	151
26	31	612	328	371	284	236	113	85	65	24	9.2	128
27	30	815	568	400	246	210	103	75	83	21	34	103
28	38	1,120	468	363	229	186	94	65	47	20	455	83
29	896	768	399	482	------	241	88	119	50	24	927	81
30	1,290	515	342	401	------	492	102	158	199	29	1,470	85
31	917	------	279	352	------	424	------	100	------	20	606	------
TOTAL	5,860	9,641	9,025	13,198	6,421	12,924	10,368	6,658	1,849	4,698	4,026.1	6,902
MEAN	189	321	291	426	229	417	346	215	61.6	152	130	230
MAX	1,290	1,120	568	2,310	597	1,310	1,090	762	199	2,000	1,470	1,080
MIN	30	79	131	100	102	186	88	65	25	20	9.2	71
CFSM	1.38	2.34	2.12	3.11	1.67	3.04	2.53	1.57	.45	1.11	.95	1.68
IN.	1.59	2.62	2.45	3.58	1.74	3.51	2.82	1.81	.50	1.28	1.09	1.87

CAL YR 1973 TOTAL 81,928.4 MEAN 224 MAX 1,950 MIN 9.4 CFSM 1.64 IN 22.25
WTR YR 1974 TOTAL 91,570.1 MEAN 251 MAX 2,310 MIN 9.2 CFSM 1.83 IN 24.86

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	0900	5.93	3,080	8-30	0900	5.40	2,560
7- 1	0300	6.64	3,850				

03049500 Allegheny River at Natrona, Pa.

LOCATION.--Lat 40°36'55", long 79°43'07", Allegheny County, on right bank 520 ft (158 m) upstream from dam at lock 4 at Natrona, 5.8 mi (9.3 km) downstream from Kiskiminetas River, and at mile 24.3 (39.1 km).

DRAINAGE AREA.--11,410 mi^2 (29,550 km^2), approximately.

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

GAGE.--Water-stage recorder and concrete dam control. Datum of gage is 737.11 ft (224.671 m) above mean sea level, (Corps of Engineers bench mark). Prior to Apr. 14, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 19,100 ft^3/s (540.9 m^3/s), 22.73 in/yr (577 mm/yr), adjusted for storage since 1940.

EXTREMES.--Current year: Maximum discharge, 95,400 ft^3/s (2,700 m^3/s) Mar. 10 (gage height, 17.09 ft or 5.209 m); minimum, 2,220 ft^3/s (62.9 m^3/s) Aug. 24 (gage height, 9.16 ft or 2.792 m).

Period of record: Maximum discharge, 238,000 ft^3/s (6,740 m^3/s) Dec. 30, 1942 (gage height, 27.46 ft or 8.370 m); minimum, 895 ft^3/s (25.3 m^3/s) Oct. 22, 1963; minimum gage height, 8.82 ft (2.688 m) July 25, 26, 1966.

Flood of Mar. 18, 1936, reached a stage of 32.06 ft or 9.772 m (discharge, 365,000 ft^3/s or 10,300 m^3/s, determined by Corps of Engineers).

REMARKS.--Records good. Flow regulated by Allegheny Reservoir, Chautauqua and Tionesta Lakes, Union City Reservoir, Woodcock Creek, East Branch Clarion River, Mahoning Creek, Crooked Creek, Yellow Creek, Conemaugh River, and Loyalhanna Lakes (see pp. 245-247) and by 15 smaller reservoirs (combined capacity, excluding that of Chautauqua Lake, 2,069,000 acre-ft or 2,550 hm^3). Slight diversion since 1952 from Beaver Run Reservoir into the Monongahela River basin. Records of water quality at New Kensington through Dec. 31, 1973, are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1435: 1939.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,600	27,200	28,800	46,600	36,200	20,400	35,500	17,000	13,200	27,000	4,070	11,400
2	10,600	29,600	26,500	41,800	32,200	26,600	41,300	20,700	13,000	48,400	3,840	11,200
3	10,800	31,200	24,600	36,900	30,000	31,500	47,900	19,100	16,600	42,000	3,610	16,900
4	9,940	26,700	22,600	31,100	28,200	33,900	49,200	17,500	15,900	39,600	3,440	28,300
5	11,900	22,400	19,100	26,800	26,100	40,200	48,900	15,700	13,000	30,600	3,600	28,700
6	13,300	21,100	14,900	24,300	23,000	44,600	51,600	15,700	9,920	27,000	4,860	22,400
7	11,500	18,500	13,800	21,200	22,900	43,200	52,000	16,300	8,020	22,500	5,090	17,500
8	10,300	15,000	13,600	19,200	21,800	43,500	49,700	15,600	6,630	19,500	5,010	11,700
9	9,340	11,700	13,300	18,300	22,400	61,600	47,100	16,400	5,760	16,800	5,070	9,100
10	7,660	11,700	16,300	18,400	20,700	90,000	45,400	17,500	5,020	11,400	5,020	7,750
11	7,280	10,000	20,200	21,000	20,100	76,900	46,100	17,700	5,400	10,800	5,360	6,770
12	6,460	9,770	19,400	22,600	18,900	72,000	45,800	23,700	5,340	9,580	5,020	7,390
13	6,280	10,400	19,000	18,000	19,000	64,800	42,400	66,900	5,530	8,550	5,310	7,320
14	6,480	9,540	22,500	19,600	18,800	56,300	38,800	59,900	6,020	6,300	4,490	9,180
15	6,240	8,750	25,500	21,800	18,700	47,300	40,900	51,800	5,480	5,610	4,740	9,730
16	6,200	10,500	23,900	25,200	18,800	39,600	42,400	47,400	7,170	7,050	4,260	8,810
17	6,260	10,600	21,800	32,400	15,900	43,900	40,800	43,400	11,800	6,040	4,200	8,500
18	5,740	12,000	19,100	34,900	12,500	41,500	37,900	44,100	14,600	5,400	3,340	8,100
19	6,030	15,500	15,800	58,900	12,600	37,900	34,900	39,700	12,300	5,240	3,740	8,390
20	6,320	15,900	13,700	64,500	12,400	33,800	31,800	36,500	9,540	5,880	3,530	8,240
21	5,880	14,000	21,800	52,800	11,700	32,600	28,900	30,000	6,920	4,620	3,280	9,810
22	5,370	12,200	33,800	61,600	14,200	32,100	25,400	24,400	7,400	3,240	3,030	12,500
23	5,450	11,700	36,700	62,900	29,700	30,000	22,600	22,700	7,630	3,640	2,960	14,000
24	5,340	11,300	33,300	64,600	36,600	27,700	21,600	20,700	7,060	3,790	2,590	13,100
25	5,190	14,300	30,200	59,900	30,600	27,400	23,000	18,700	9,160	3,950	2,630	11,600
26	5,330	24,700	30,500	55,100	28,500	29,500	21,400	16,800	8,580	4,050	2,450	11,000
27	5,450	31,800	48,300	51,100	23,200	27,700	21,000	15,000	10,400	4,440	3,190	10,600
28	5,090	34,000	57,500	48,900	20,600	24,100	17,600	12,900	10,100	3,420	4,470	8,030
29	9,060	32,800	54,600	47,700	------	20,700	14,900	11,800	11,000	3,620	8,170	7,690
30	18,900	30,900	55,000	45,500	------	27,100	13,900	11,500	9,750	4,130	11,500	7,040
31	23,400	------	50,600	40,700	------	31,900	------	11,400	------	4,130	11,200	------
TOTAL	263,690	545,760	846,700	1,194,3M	626,300	1,260,3M	1,080,7M	798,500	278,230	398,280	143,070	352,750
MEAN	8,506	18,190	27,310	38,530	22,370	40,650	36,020	25,760	9,274	12,850	4,615	11,760
MAX	23,400	34,000	57,500	64,600	36,600	90,000	52,000	66,900	16,600	48,400	11,500	28,700
MIN	5,090	8,750	13,300	18,000	11,700	20,400	13,900	11,400	5,020	3,240	2,450	6,770
(/)	-1,020	+640	+1,890	-2,810	-2,170	+1,620	+3,090	+606	+264	-558	-504	+512
MEAN≠	7,486	18,830	29,200	35,720	20,200	42,270	39,110	26,370	9,538	12,290	4,111	12,270
CFSM≠	.66	1.65	2.56	3.13	1.77	3.70	3.43	2.31	.84	1.08	.36	1.08
IN.≠	.76	1.84	2.95	3.61	1.84	4.27	3.83	2.66	.94	1.25	.42	1.20

CAL YR 1973 TOTAL 6,804,010 MEAN 18,640 MAX 77,300 MIN 1,840 MEAN≠ 18,870 CFSM≠ 1.65 IN.≠ 22.45
WTR YR 1974 TOTAL 7,788,580 MEAN 21,340 MAX 90,000 MIN 2,450 MEAN≠ 21,480 CFSM≠ 1.88 IN.≠ 25.57

/ Change in contents in Allegheny Reservoir, Chautauqua and Tionesta Lakes, Union City Reservoir, Woodcock Creek, East Branch Clarion River, Mahoning Creek, Crooked Creek, Yellow Creek, Conemaugh River, and Loyalhanna Lakes, and in 15 smaller reservoirs and diversion from Beaver Run Reservoir into the Monongahela River basin, equivalent in cubic feet per second. Records of smaller reservoir contents furnished by Pennsylvania Electric Co., Manufacturers Water Co., Greater Johnstown Water Authority, Latrobe Municipal Authority, and Municipal Authority of Westmoreland County.

≠ Adjusted for diversion and change in reservoir contents.

03049800 Little Pine Creek near Etna, Pa.

LOCATION.--Lat 40°31'13", long 79°56'18", Allegheny County, on right bank at downstream side of highway bridge on Saxonburg Boulevard, 0.7 mi (1.1 km) upstream from mouth, and 1.5 mi (2.4 km) northeast of Etna.

DRAINAGE AREA.--5.78 mi^2 (14.97 km^2).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 778.26 ft (237.214 m) above mean sea level.

AVERAGE DISCHARGE.--12 years, 6.17 ft^3/s (0.175 m^3/s), 14.50 in/yr (368 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,040 ft^3/s (57.8 m^3/s) June 30 (gage height, 6.06 ft or 1.847 m, from peak-stage indicator), from rating curve extended above 150 ft^3/s (4.2 m^3/s) as explained below; minimum daily, 0.20 ft^3/s (0.006 m^3/s) Oct. 23.

Period of record: Maximum discharge, 2,040 ft^3/s (57.8 m^3/s) June 30, 1974 (gage height, 6.06 ft or 1.847 m, from peak-stage indicator), from rating curve extended above 150 ft^3/s (4.2 m^3/s) on basis of contracted-opening measurement of peak flow at site about 1.5 mi (2.4 km) upstream, adjusted for flow from intervening area; no flow on many days.

REMARKS.--Records good prior to July 1, fair thereafter and during winter periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	17	5.1	5.5	8.7	9.7	6.3	6.3	7.5	115	1.8	17
2	1.6	6.0	4.0	3.9	8.3	11	22	4.3	5.5	43	2.1	5.0
3	1.3	3.9	3.4	3.4	7.5	11	14	6.3	4.7	22	4.2	15
4	.83	2.7	3.1	2.9	5.9	10	12	5.1	3.4	22	2.3	3.1
5	2.1	2.1	3.4	2.4	6.7	12	11	4.7	3.4	39	1.2	1.6
6	.97	1.8	2.5	2.0	7.9	9.7	8.7	4.7	3.1	18	.70	1.1
7	.70	1.6	2.1	1.8	15	9.2	7.9	4.0	2.5	11	.35	.98
8	.58	1.5	1.9	5.0	9.7	15	7.5	3.7	2.8	7.1	4.0	.92
9	.48	1.3	5.9	7.9	7.9	55	10	4.0	3.1	3.7	2.5	.92
10	.43	1.2	6.7	8.3	9.2	47	8.3	3.1	1.9	8.0	1.5	.80
11	.35	1.1	5.1	28	7.1	42	7.5	2.8	1.5	3.4	1.0	.86
12	.28	.97	4.0	15	6.7	26	7.1	64	1.9	2.8	1.3	.75
13	.28	.97	9.7	15	7.1	16	7.5	37	1.2	2.2	.80	3.1
14	.53	.90	17	9.2	5.9	11	7.5	14	1.0	1.9	.55	20
15	.39	8.2	10	17	5.1	9.7	7.1	10	5.9	4.8	1.0	3.1
16	.58	15	7.5	31	4.3	19	6.3	8.3	12	1.9	2.0	1.7
17	.35	6.0	5.4	22	4.3	12	5.9	12	4.3	1.7	4.5	1.4
18	.26	4.2	4.5	17	4.0	10	5.5	22	3.1	1.6	1.1	1.7
19	.23	3.6	3.3	69	5.1	9.7	5.1	9.2	3.4	1.3	.90	1.2
20	.23	2.9	5.9	40	6.7	8.3	4.3	7.1	4.3	1.1	.80	1.2
21	.21	2.5	6.7	22	5.1	18	4.0	5.9	3.1	.90	.64	12
22	.21	2.3	5.1	18	15	19	5.1	4.7	3.4	.80	.55	11
23	.20	2.0	4.3	18	12	15	4.7	7.5	13	6.0	1.2	2.9
24	.21	2.7	3.7	15	11	12	4.0	5.1	8.3	2.1	.90	2.2
25	.21	30	4.3	12	9.2	9.2	3.7	4.0	9.7	1.7	.68	4.0
26	.21	11	8.7	11	9.3	8.3	3.4	3.4	9.7	1.4	1.5	3.1
27	.21	8.7	12	12	7.5	7.5	3.1	2.8	7.5	1.1	6.2	2.2
28	1.8	26	8.7	16	6.7	6.7	2.8	2.5	5.5	20	7.4	1.7
29	13	10	7.9	17	------	6.7	2.5	12	5.1	10	7.5	1.9
30	7.6	6.7	6.7	13	------	6.7	5.9	29	18	3.0	11	1.4
31	6.0	------	5.9	11	------	6.7	------	9.7	------	2.3	3.0	------
TOTAL	43.63	184.84	184.5	471.3	218.9	469.1	210.7	319.2	159.8	360.80	75.17	123.83
MEAN	1.41	6.16	5.95	15.2	7.82	15.1	7.02	10.3	5.33	11.6	2.42	4.13
MAX	13	30	17	69	15	55	22	64	18	115	11	20
MIN	.20	.90	1.9	1.8	4.0	6.7	2.5	2.5	1.0	.80	.35	.75
CFSM	.24	1.07	1.03	2.63	1.35	2.61	1.21	1.78	.92	2.01	.42	.71
IN.	.28	1.19	1.19	3.03	1.41	3.02	1.36	2.05	1.03	2.32	.48	.80

CAL YR 1973 TOTAL 2,628.40 MEAN 7.20 MAX 103 MIN .05 CFSM 1.25 IN 16.92
WTR YR 1974 TOTAL 2,821.77 MEAN 7.73 MAX 115 MIN .20 CFSM 1.34 IN 18.16

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	0545	2.89	220	5-30	0130	2.69	184
3-10	2200	2.55	159	6-30	2330	6.06	2,040

NOTE.--No gage-height record July 10 to Sept. 2.

Lakes and reservoirs in Allegheny River basin

03012520 ALLEGHENY RESERVOIR.--Lat 41°50'17", long 79°00'15", Warren County, in Allegheny National Forest, at control house at Kinzua Dam on Allegheny River, 3 mi (5 km) upstream from Hemlock Run, and 7 mi (11 km) east of Warren. Drainage area, 2,180 mi^2 (5,646 km^2). Period of record, October 1965 to current year. Prior to October 1966 published as Allegheny River Reservoir. Water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 637,650 acre-ft (786 hm^3) May 15 (elevation, 1,333.17 ft or 406.350 m); minimum, 182,450 acre-ft (225 hm^3) Feb. 20 (elevation, 1,282.63 ft or 390.946 m). Extremes for period of record: Maximum contents, 1,121,120 acre-ft (1,380 hm^3) June 27, 1972 (elevation, 1,362.20 ft or 415.199 m); minimum (after first filling), 113,310 acre-ft (140 hm^3) Jan. 26, 1968 (elevation, 1,268.68 ft or 386.694 m).

Reservoir is formed by a concrete gravity dam with a gated spillway and with an earthfill section, rock-faced, at right side. Storage began during construction and reservoir acted as retention basin from October 1965 to December 1966. Dam became operational in January 1967. Reservoir first reached minimum pool elevation during period of construction. Capacity, 1,180,000 acre-ft (1,450 hm^3) between elevations 1,205.0 ft or 367.28 m (invert of low level sluices) and 1,365.0 ft or 416.05 m (full pool). Dead storage is 128 acre-ft (158,000 m^3). Minimum pool elevation, 1,240 ft or 378.0 m (capacity, 24, 240 acre-ft or 29.9 hm^3). Winter low-water pool elevation, 1,292 ft or 393.8 m (capacity, 239,780 acre-ft or 296 hm^3). Summer low-water pool elevation, 1,328 ft or 404.8 m (capacity, 572,610 acre-ft or 706 hm^3). Storage to summer pool normally occurs during period April to May. Depletion of low-water storage for augmenting flow in Allegheny River normally occurs during period July to December. Figures given herein represent total contents. Reservoir is used for flood control, low-flow augmentation and water-quality control of Allegheny River and downstream rivers, power generation, and recreation. Records furnished by Corps of Engineers.

03013990 CHAUTAUQUA LAKE.--Lat 42°14'20", long 79°29'50", Chautauqua County, N. Y., on right bank of outlet of Mud Creek, 25 ft (7.6 m) upstream from bridge on State Highway 17J, 0.1 mi (0.2 km) from lake, and 1 mi (2 km) south of Mayville, N.Y. Drainage area, 189 mi^2 (490 km^2). Period of record, November 1949 to current year. Water-stage recorder. Datum of gage is 1,300.00 ft (396.240 m) above mean sea level. Prior to Dec. 21, 1956, nonrecording gage at site near mouth of Big Inlet at same datum. Extremes for current year: Maximum (inst) gage height, 9.34 ft (2.847 m) Mar. 9 ; minimum (inst), 7.19 ft (2.192 m) Feb. 22. Extremes for period of record: Maximum daily gage height, 10.65 ft (3.246 m) Mar. 9, 1956; minimum daily, 6.29 ft (1.917 m) Nov. 17, 1953.

Lake is regulated at outlet by Warner Dam. Capacity of lake not determined; area of water surface, 20.9 mi^2 (54.1 km^2). Figures of change in contents computed from surface area multiplied by change in stage.

03019500 TIONESTA LAKE.--Lat 41°28'25", long 79°26'20", Forest County, in Allegheny National Forest, at control tower, 0.8 mi (1.3 km) upstream from Tionesta Dam on Tionesta Creek, 1.8 mi (2.9 km) upstream from mouth, and 2 mi (3 km) southeast of Tionesta. Drainage area, 478 mi^2 (1,238 km^2). Period of record, December 1940 to current year. Prior to October 1970 published as "Tionesta Creek Reservoir". Water-stage recorder. Datum of gage is at mean sea level, datum of Corps of Engineers, which is 0.08 ft (0.024 m) above mean sea level. Extremes for current year: Maximum contents, 39,300 acre-ft (48.5 hm^3) Mar. 10 (elevation, 1,121.91 ft or 341.958 m); minimum, 7,830 acre-ft (9.65 hm^3) Feb. 16 (elevation, 1,085.09 ft or 330.735 m). Extremes for period of record: Maximum contents, 111,320 acre-ft (137 hm^3) Mar. 11, 1964 (elevation, 1,161.55 ft or 354.040 m); minimum (after first filling), 3,280 acre-ft (4.04 hm^3) May 12, 1971 (elevation, 1,074.02 ft or 327.361 m).

Lake is formed by rock-faced earthfill dam with uncontrolled saddle spillway with concrete floor and sides. Dam became fully operational in December 1940 and lake first reached minimum pool elevation, 1,085.00 ft or 330.708 m (capacity, 7,780 acre-ft or 9.59 hm^3) on Jan. 23, 1941. Capacity, 133,400 acre-ft (164 hm^3) between elevations 1,052.00 ft (320.650 m) sill of outlet gates and 1,170.00 ft or 356.616 m (full pool). Figures given herein represent total contents. Lake is used for flood control and recreation. Records furnished by Corps of Engineers.

03021518 UNION CITY RESERVOIR.--Lat 41°55'13", long 79°53'59", Erie County, in tower at left center of Union City Dam on French Creek, 1.4 mi (2.2 km) upstream from South Branch French Creek, and 3.2 mi (5.1 km) northwest of Union City. Drainage area, 220 mi^3 (570 km^2). Period of record, July 1970 to current year. Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 16,060 acre-ft (19.8 hm^3) Mar. 10 (elevation, 1,259.58 ft or 383.920 m); minimum, 1.1 acre-ft (1360 m^3) Oct. 1 (elevation, 1,211.55 ft or 369.280 m). Extremes for period of record: Maximum contents, 22,170 acre-ft (27.3 hm^3) June 26, 1972 (elevation, 1,264.30 ft or 385.359 m); minimum, 0.7 acre-ft (863 m^3) Sept. 17, 1973 (elevation, 1,211.33 ft or 369.213 m).

Reservoir is formed by earthfill dam with sidehill, concrete-lined spillway completed September 1971. Dam became operational in July 1970. Usable capacity 47,650 acre-ft (58.8 hm^3) between elevation 1,210.0 ft or 368.81 m (invert of inlet of conduit) and 1,278.0 ft or 389.53 m (crest of spillway). No dead storage. Figures given herein represent usable contents. Reservoir is used for flood control only. Records furnished by Corps of Engineers.

03022550 WOODCOCK CREEK LAKE.--Lat 41°41'50", long 80°06'06", Crawford County, in tower on right center and 200 ft (61 m) upstream from center line of Woodcock Creek Dam on Woodcock Creek, 2.8 mi (4.5 km) southeast of Saegerstown and 3.5 mi (5.6 km) upstream from mouth. Drainage area, 45.6 mi^2 (118.1 km^2). Period of record, January to September 1974. Water-stage recorder. Datum of gage is at mean sea level (Corps of Engineers bench mark). Extremes for current year: Maximum contents, 7,340 acre-ft (9.05 hm^3) July 2 (elevation, 1,187.41 ft or 361.923 m); minimum (after first filling), 2,510 acre-ft (3.09 hm^3) Mar. 16 (elevation 1172.06 ft or 357.244 m).

Lake is formed by a rolled earth embankment with an impervious core. Storage began in January 1974. Total storage 20,000 acre-ft (24.7 hm^3) between elevation 1,138 ft (346.9 m) inlet invert and 1,209 ft (368.5 m) crest of spillway. Figures given herein represent usable contents. Lake is used for flood control and recreation. Records furnished by Corps of Engineers.

Lakes and reservoirs in Allegheny River basin--Continued

03027000 EAST BRANCH CLARION RIVER LAKE.--Lat 41°33'35", long 78°35'40", Elk County, at control tower at East Branch Clarion River Dam on East Branch Clarion River, 1.7 mi (2.7 km) northeast of Glen Hazel, and 7.5 mi (12.1 km) upstream from confluence with West Branch Clarion River. Drainage area, 72.4 mi^2 or 187.5 km^2 (figure from Corps of Engineers). Period of record, June 1952 to current year. Prior to October 1970 published as "East Branch Clarion River Reservoir". Water-stage recorder. Datum of gage is at mean sea level (Corps of Engineers bench mark). Extremes for current year: Maximum contents, 69,080 acre-ft (85.2 hm^3) May 14 (elevation, 1,673.19 ft or 509.988 m); minimum 33,670 acre-ft (41.5 hm^3) October 29 (elevation, 1,636.84 ft or 498.909 m). Extremes for period of record: Maximum contents, 85,010 acre-ft (105 hm^3) June 24, 1972 (elevation, 1,685.55 ft or 513.756 m); minimum, 160 acre-ft (197,000 m^3) November 9, 1952 (elevation, 1,541.07 ft or 469.718 m).

Lake is formed by an earthfill dam, rock-faced. Dam completed in 1952. Controlled storage began in June 1952. Capacity, 83,300 acre-ft (103 hm^3) between elevations 1,555 ft or 474.0 m (sill of outlet gates) and 1,685 ft or 513.6 m (full pool). Minimum pool elevation, 1,555 ft or 474.0 m (capacity, 1,000 acre-ft or 1.23 hm^3). Winter low-water pool elevation, 1,651 ft or 503.2 m (capacity, 45,600 acre-ft or 56.2 hm^3). Summer low-water pool elevation, 1,670 ft or 509.0 m (capacity, 65,300 acre-ft or 80.5 hm^3). Storage to summer pool normally occurs during period Mar. 1 to Apr. 30. Depletion of low-water storage for augmenting flow in Clarion River occurs normally during period June to October. Figures given herein represent total contents. Lake is used for flood control, for low-flow augmentation of Clarion River and downstream rivers, and for recreation. Records furnished by Corps of Engineers.

03035500 MAHONING CREEK LAKE.--Lat 40°55'18", long 79°16'41", Armstrong County, at control house at Mahoning Creek Dam on Mahoning Creek, 0.7 mi (1.1 km) upstream from Camp Run, 1.5 mi (2.4 km) south of Eddyville, and 3 mi (5 km) upstream from Pine Run. Drainage area, 340 mi^2 (881 km^2). Period of record, June 1941 to current year. Prior to October 1970 published as "Mahoning Creek Reservoir". Water-stage recorder. Datum of gage is at mean sea level, datum of Corps of Engineers, which is 0.64 ft (.195 m) above mean sea level. Extremes for current year: Maximum contents, 27,910 acre-ft (34.4 hm^3) Jan. 22 (elevation, 1,131.56 ft or 344.899 m); minimum, 4,490 acre-ft (5.54 hm^3) Aug. 4 (elevation, 1,075.08 ft or 327.684 m). Extremes for period of record: Maximum contents, 72,580 acre-ft (89.5 hm^3) Mar. 11, 1964 (elevation, 1,161.32 ft or 353.970 m); minimum (after first filling), 330 acre-ft or 407,000 m^3, July 2, 3, 1944 (elevation, 1,026.80 ft or 312.969 m).

Lake is formed by a concrete gravity dam with a gated spillway. Storage began during construction sometime prior to June 15, 1941 and first reached minimum pool elevation, 1,075 ft (327.7 m) (capacity, 4,480 acre-ft or 5.52 hm^3) on June 21, 1941. Capacity, 74,100 acre-ft (91.4 hm^3) between elevations 1,015 ft or 309.4 m (sill of outlet gates) and 1,162 ft or 354.2 m (full pool); dead storage, 100 acre-ft (123,000 m^3). Figures given herein represent total contents. Lake is used for flood control and recreation. Records furnished by Corps of Engineers.

03038500 CROOKED CREEK LAKE.--Lat 40°42'51", long 79°30'30", Armstrong County, at control tower at Crooked Creek Dam on Crooked Creek, 4 mi (6 km) south of Ford City, and 7.2 mi (11.6 km) upstream from mouth. Drainage area, 277 mi^2 (717 km^2). Period of record, May 1940 to current year. Prior to October 1970 published as "Crooked Creek Reservoir". Water-stage recorder. Datum of gage is at mean sea level, datum of Corps of Engineers, which is 2.07 ft (0.631 m) below mean sea level. Extremes for current year: Maximum contents, 28,270 acre-ft (34.9 hm^3) Jan. 21 (elevation, 875.07 ft or 266.721 m); minimum, 4,630 acre-ft (5.71 hm^3) Oct. 11, Sept. 11 (elevation, 840.32 ft or 256.130 m). Extremes for period of record: Maximum contents, 61,450 acre-ft (75.8 hm^3) June 25, 1972 (elevation, 901.29 ft or 274.713 m); minimum, 1,230 acre-ft (1.52 hm^3) Nov. 30, 1964 (elevation, 827.62 ft or 252.259 m).

Lake is formed by an earthfill dam, rock-faced. Storage began in May 1940. Capacity, 93,900 acre-ft (116 hm^3) between elevations 809 ft or 246.6 m (sill of outlet gates) and 920 ft or 280.4 m (full pool). Minimum pool elevation, 840 ft (256.0 m) (capacity, 4,510 acre-ft or 5.56 hm^3). Figures given herein represent total contents. Lake is used for flood control and recreation. Records furnished by Corps of Engineers.

03042260 YELLOW CREEK LAKE.--Lat 40°35'27", long 79°03'11", Indiana County, in gatehouse at right end of Yellow Creek Dam on Yellow Creek, at Yellow Creek State Park, 3 mi (5 km) southwest of Penn Run. Drainage area, 52.5 mi^2 (136.0 km^2). Period of record, July 1971 to current year. Water-stage recorder. Datum of gage is at mean sea level (Pennsylvania Department of Environmental Resources bench mark). Extremes for current year: Maximum contents, 15,630 acre-ft (19.3 hm^3) March 10 (elevation, 1,282.03 ft or 390.763 m); minimum, 4,070 acre-ft (5.02 hm^3) Aug. 27 (elevation 1,264.93 ft or 385.551 m). Extremes for period of record: Maximum contents, 18,420 acre-ft (22.7 hm^3) June 23, 1972 (elevation, 1,285.02 ft or 391.674 m); minimum (after first filling), 12,250 acre-ft (15.1 hm^3) Oct. 23-24, 1971 (elevation, 1,278.19 ft or 389.592 m).

Lake is formed by an earthfill dam with concrete spillway. Storage began July 11, 1971. Usable capacity, 13,800 acre-ft (17.0 hm^3) between elevation 1,245.5 ft or 379.63 m (sill of 4-foot or 1.2 m and 1.5-foot or 0.46 m outlet gates) and 1,280.0 ft or 390.14 m (spillway crest). No dead storage. Figures given herein represent usable contents. Lake is used for recreation. Dam built by Pennsylvania Department of Forests and Waters and now maintained by Pennsylvania Department of Environmental Resources.

03043500 CONEMAUGH RIVER LAKE.--Lat 40°28'11", long 79°22'07", Indiana County, at face of dam on right bank at Conemaugh River Dam on Conemaugh River, 2 mi (3 km) upstream from highway bridge at Tunnelton, and 7.5 mi (12.1 km) upstream from Loyalhanna Creek. Drainage area, 1,351 mi^2 (3,499 km^2). Period of record, October 1951 to current year. Prior to October 1970 published as "Conemaugh River Reservoir". Water-stage recorder. Datum of gage is at mean sea level (Corps of Engineers bench mark). Prior to Dec. 18, 1952, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 66,010 acre-ft (81.4 hm^3) Jan. 21 (elevation, 929.74 ft or 283.385 m); minimum, 5,190 acre-ft (6.40 hm^3) Aug. 25-26 (elevation, 883.61 ft or 269.324 m). Extremes for period of record: Maximum contents, 237,980 acre-ft (293 hm^3) June 25, 1972 (elevation, 969.45 ft or 295.488 m); minimum (after dam became fully operational), 807 acre-ft (995,000 m^3) Nov. 19, 1954 (elevation, 864.13 ft or 263.387 m).

Lake is formed by a concrete gravity dam with a gated spillway and with an earth embankment at the right end. Storage began during construction and lake acted as a retention basin from November 1951 to November 1953. Dam became fully operational in November 1953. Lake first reached minimum pool elevation, 880 ft or 268.2 m (capacity, 4,000 acre-ft or 4.93 hm^3) on Nov. 24, 1951. Capacity, 273,600 acre-ft (337 hm^3) between elevations 860 ft or 262.1 m (sill of sluice gates) and 975 ft or 297.2 m (full pool). Dead storage is 400 acre-ft (493,000 m^3). Figures given herein represent total contents. Lake is used for flood control and recreation. Records furnished by Corps of Engineers.

Lakes and reservoirs in Allegheny River basin--Continued

03046500 LOYALHANNA LAKE.--Lat 40°27'25", long 79°27'07", Westmoreland County, at control house at Loyalhanna Dam on Loyalhanna Creek, 2 mi (3 km) south of Saltsburg, and 4.7 mi (7.6 km) upstream from mouth. Drainage area, 290 mi^2 (751 km^2). Period of record, June 1942 to current year (fragmentary October 1943 to March 1946). Prior to October 1970 published as "Loyalhanna Creek Reservoir". Water-stage recorder. Datum of gage is at mean sea level (Corps of Engineers bench mark). Extremes for current year: Maximum contents, 26,350 acre-ft (32.5 hm^3) Jan. 14 (elevation, 944.30 ft or 287.823 m); minimum, 1,990 acre-ft (2.45 hm^3) Dec. 5 (elevation, 909.79 ft or 277.304 m). Extremes for period of record: Maximum contents, 72,830 acre-ft (89.8 hm^3) June 25, 1972 (elevation, 967.41 ft or 294.867 m); little or no contents at times.

Lake is formed by a concrete gravity dam with a gated spillway and with an earth embankment at the left end. Storage began in June 1942 and first reached minimum pool elevation 910 ft or 277.4 m (capacity, 2,040 acre-ft or 2.52 hm^3) on Sept. 2, 1942. Capacity, 95,300 acre-ft (118 hm^3) between elevations 878 ft or 267.6 m (sill of outlet gates) and 975 ft or 297.2 m (full pool). Figures given herein represent total contents. Lake is used for flood control and recreation. Records furnished by Corps of Engineers. Revisions: WSP 1305: Drainage area.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	03012520 Allegheny Reservoir			03013990 Chautauqua Lake		
Sept. 30	1,323.11	515,800	-	7.70	-	-
Oct. 31	1,314.91	429,350	-1,410	7.78	-	+ 17.4
Nov. 30	1,316.72	447,600	+307	8.49	-	+160
Dec. 31	1,326.03	549,190	+1,650	8.19	-	-65.2
CAL YR 1973	-	-	+162	-	-	-1.48
Jan. 31	1,311.15	393,010	-2,540	8.05	-	-30.4
Feb. 28	1,297.06	274,880	-2,130	7.93	-	-29.0
Mar. 31	1,305.84	345,120	+1,140	8.19	-	+56.6
Apr. 30	1,325.08	538,160	+3,240	8.39	-	+45.0
May 31	1,326.92	559,680	+350	8.32	-	-15.2
June 30	1,328.63	580,280	+346	8.37	-	+11.2
July 31	1,328.44	577,960	-37.7	7.93	-	-95.8
Aug. 31	1,326.50	554,730	-378	7.97	-	+8.7
Sept. 30	1,328.61	580,030	+425	8.00	-	+6.7
WTR YR 1974	-	-	+88.7	-	-	+5.54
	03019500 Tionesta Lake			03021518 Union City Reservoir		
Sept. 30	1,090.56	10,750	-	1,211.58	1.2	-
Oct. 31	1,094.01	12,850	+34.2	1,219.51	172	+2.8
Nov. 30	1,095.31	13,720	+14.6	1,237.48	3,120	+49.5
Dec. 31	1,100.02	17,160	+55.9	1,243.51	5,210	+34.0
CAL YR 1973	-	-	+12.1	-	-	+2.4
Jan. 31	1,090.84	10,910	-102	1,238.86	3,560	-26.8
Feb. 28	1,094.38	13,090	+39.3	1,228.89	1,160	-43.2
Mar. 31	1,099.10	16,460	+54.6	1,236.05	2,680	+24.7
Apr. 30	1,089.80	10,320	-103	1,219.15	152	-42.5
May 31	1,091.76	11,450	+18.4	1,215.61	37.4	-1.9
June 30	1,095.85	14,100	+44.5	1,224.95	629	+9.9
July 31	1,090.43	10,680	-55.6	1,211.84	1.7	-10.2
Aug. 31	1,092.41	11,840	+18.9	1,212.73	5.6	+.06
Sept. 30	1,090.78	10,870	-16.3	1,218.48	122	+1.9
WTR YR 1974	-	-	+.17	-	-	+.17

Lakes and reservoirs in Allegheny River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	03022550 Woodcock Creek Lake			03027000 E. Br. Clarion River Lake		
Sept. 30	-	-	-	1,644.35	39,690	-
Oct. 31	-	-	-	1,638.96	35,310	- 71.2
Nov. 30	-	-	-	1,642.14	37,850	+42.7
Dec. 31	-	-	-	1,647.98	42,830	+81.0
CAL YR 1973	-	-	-	-	-	+7.0
Jan. 31	1,164.21	1,170	+19.0	1,652.50	46,960	+67.2
Feb. 28	1,176.41	3,550	+42.9	1,652.90	47,330	+6.7
Mar. 31	1,177.30	3,800	+4.1	1,661.81	56,250	+145
Apr. 30	1,179.45	4,430	+10.6	1,669.66	64,920	+146
May 31	1,179.88	4,570	+2.3	1,670.40	65,770	+13.8
June 30	1,183.41	5,780	+20.3	1,668.90	64,040	-29.1
July 31	1,180.09	4,640	-18.5	1,660.70	55,080	-146
Aug. 31	1,181.48	5,100	+7.5	1,651.16	45,710	-152
Sept. 30	1,179.92	4,580	-8.7	1,649.25	43,960	-29.4
WTR YR 1974	-	-	+6.3	-	-	+5.9
	03035000 Mahoning Creek Lake			03038500 Crooked Creek Lake		
Sept. 30	1,096.18	9,020	-	850.70	9,340	-
Oct. 31	1,101.09	10,430	+22.9	857.61	13,870	+73.7
Nov. 30	1,121.26	19,810	+158	852.78	10,580	-55.3
Dec. 31	1,107.32	12,600	-117	846.52	7,130	-56.1
CAL YR 1973	-	-	+10.9	-	-	+2.7
Jan. 31	1,082.03	5,800	-111	843.61	5,870	-20.5
Feb. 28	1,081.71	5,730	-1.3	842.46	5,420	-8.1
Mar. 31	1,098.30	9,610	+63.1	841.63	5,110	-5.0
Apr. 30	1,077.90	5,000	-77.5	843.79	5,950	+14.1
May 31	1,078.24	5,060	+1.0	843.40	5,790	-2.6
June 30	1,082.76	5,940	+14.8	845.04	6,470	+11.4
July 31	1,078.20	5,050	-14.5	842.60	5,480	-16.1
Aug. 31	1,105.25	11,820	+110	844.98	6,440	+15.6
Sept. 30	1,078.73	5,150	-112	841.41	5,030	-23.7
WTR YR 1974	-	-	-5.3	-	-	-6.0
	03042260 Yellow Creek Lake			03043500 Conemaugh River Lake		
Sept. 30	1,280.43	14,190	-	901.92	16,030	-
Oct. 31	1,280.85	14,560	+6.0	915.83	34,520	+301
Nov. 30	1,280.90	14,610	+.8	908.36	23,140	-191
Dec. 31	1,280.88	14,590	-.3	915.05	33,170	+163
CAL YR 1973	-	-	+.5	-	-	+35.1
Jan. 31	1,280.72	14,450	-2.3	897.61	12,430	-337
Feb. 28	1,280.63	14,370	-1.4	891.95	8,930	-63.0
Mar. 31	1,280.65	14,380	+.2	899.99	14,320	+87.7
Apr. 30	1,280.58	14,320	-1.0	889.81	7,810	-109
May 31	1,279.36	13,220	-17.9	902.50	16,580	+143
June 30	1,270.70	7,120	-102.6	896.43	11,610	-83.5
July 31	1,266.96	4,980	-34.8	892.86	9,430	-35.5
Aug. 31	1,265.38	4,250	-11.9	895.88	11,240	+29.4
Sept. 30	1,266.88	4,940	+11.6	908.89	23,830	+212
WTR YEAR 1974	-	-	-12.8	-	-	+10.8

Lakes and reservoirs in Allegheny River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	03046500 Loyalhanna Lake		
Sept. 30	918.67	4,650	-
Oct. 31	925.41	8,100	+56.1
Nov. 30	922.92	6,660	-24.2
Dec. 31	916.37	3,780	-46.8
CAL YR 1973	-	-	-1.2
Jan. 31	916.09	3,680	-1.6
Feb. 28	916.36	3,780	+1.8
Mar. 31	916.47	3,820	+.7
Apr. 30	915.57	3,510	-5.2
May 31	921.75	6,050	+41.3
June 30	919.30	4,920	-19.0
July 31	920.72	5,550	+10.2
Aug. 31	922.75	6,570	+16.6
Sept. 30	919.46	4,990	-26.6
WTR YR 1974	-	-	+.5

03072000 Dunkard Creek at Shannopin, Pa.

LOCATION.--Lat 39°45'33", long 79°58'15", Greene County, on left bank at Shannopin, 1,300 ft (400 m) upstream from highway bridge at mine buildings, 1.2 mi (1.9 km) north of Dunkard, 3.5 mi (5.6 km) upstream from mouth, and 4 mi (6 km) southwest of Greensboro.

DRAINAGE AREA.--229 mi^2 (593 km^2).

PERIOD OF RECORD.--October 1940 to current year. Prior to December 1940 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Altitude of gage is 806 ft (246 m) by barometer.

AVERAGE DISCHARGE.--34 years, 268 ft^3/s (7.590 m^3/s), 15.89 in/yr (404 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,500 ft^3/s (297 m^3/s) June 23 (gage height, 11.62 ft or 3.542 m); minimum, 11 ft^3/s (0.31 m^3/s) Oct. 26, Aug. 27; minimum gage height, 1.15 ft (0.351 m) Oct. 26.
Period of record: Maximum discharge, 16,800 ft^3/s (476 m^3/s) June 4, 1941 (gage height, 14.02 ft or 4.273 m), from rating curve extended above 10,000 ft^3/s (280 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.4 ft^3/s (0.011 m^3/s) Aug. 28, 1944.

REMARKS.--Records good. Some regulation at low flow by mine pumpage above station.

REVISIONS (WATER YEARS).--WSP 1505: 1955.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	469	365	378	393	184	179	74	898	243	71	494
2	139	506	251	313	308	197	201	71	738	222	45	473
3	176	232	197	333	291	279	325	85	398	155	34	670
4	188	151	169	1,660	245	291	1,490	109	249	118	34	1,030
5	122	110	160	1,070	204	265	1,780	89	178	110	32	413
6	90	90	151	654	178	273	1,150	77	137	106	28	212
7	67	77	119	455	203	315	738	73	119	107	26	143
8	52	64	100	320	281	582	529	68	92	82	23	109
9	51	59	106	365	261	522	1,420	64	82	63	19	83
10	40	57	131	2,420	219	526	1,400	58	74	55	19	67
11	35	59	134	8,310	201	452	886	55	79	54	23	55
12	31	54	124	2,950	180	393	634	2,860	60	50	23	50
13	27	50	184	1,200	173	343	512	3,470	50	44	29	95
14	23	46	1,950	850	167	273	519	934	43	36	30	1,430
15	21	46	1,190	500	149	235	473	440	38	37	26	610
16	20	188	618	401	134	261	375	273	83	39	23	251
17	17	394	380	310	131	554	295	201	247	38	22	161
18	17	220	241	253	124	470	247	281	134	34	25	118
19	16	184	213	259	118	378	212	277	86	30	25	94
20	16	202	243	515	140	328	181	204	127	48	28	76
21	15	169	958	526	160	630	157	161	742	36	24	201
22	15	148	758	509	178	1,420	143	134	2,260	35	19	970
23	16	125	476	434	295	814	154	176	7,640	38	17	497
24	15	121	368	390	279	536	155	283	4,330	56	14	293
25	13	347	325	333	263	370	130	203	1,320	54	14	206
26	12	524	485	285	221	287	113	157	1,630	51	13	161
27	12	1,260	1,260	285	194	245	103	128	794	37	11	133
28	15	1,840	902	315	185	210	92	106	422	31	15	113
29	33	1,260	550	1,190	------	192	83	124	338	31	17	109
30	179	622	446	866	------	203	74	434	315	98	250	140
31	216	------	375	554	------	197	------	467	------	143	398	------
TOTAL	1,917	9,674	13,929	29,203	5,875	12,225	14,750	12,136	23,703	2,281	1,377	9,457
MEAN	61.8	322	449	942	210	394	492	391	790	73.6	44.4	315
MAX	228	1,840	1,950	8,310	393	1,420	1,780	3,470	7,640	243	398	1,430
MIN	12	46	100	253	118	184	74	55	38	30	11	50
CFSM	.27	1.41	1.96	4.11	.92	1.72	2.15	1.71	3.45	.32	.19	1.38
IN.	.31	1.57	2.26	4.74	.95	1.99	2.40	1.97	3.85	.37	.22	1.54

CAL YR 1973 TOTAL 105,520.4 MEAN 289 MAX 4,060 MIN 5.4 CFSM 1.26 IN 17.14
WTR YR 1974 TOTAL 136,527.0 MEAN 374 MAX 8,310 MIN 11 CFSM 1.63 IN 22.18

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1700	11.18	9,440	6-23	1900	11.62	10,500
5-12	2200	10.28	7,480				

03072500 Monongahela River at Greensboro, Pa.

LOCATION.--Lat 39°47'15", long 79°55'26", Greene County, on left bank on land guide wall, 950 ft (290 m) upstream from dam at lock 7, at Greensboro, 0.4 mi (0.6 km) upstream from Georges Creek, 2.0 mi (3.2 km) downstream from Dunkard Creek, 4.3 mi (6.9 km) downstream from Cheat River, and at mile 85.2 (137.1 km).

DRAINAGE AREA.--4,407 mi^2 (11,414 km^2).

PERIOD OF RECORD.--October 1938 to current year. Prior to January 1939 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder and concrete dam control. Datum of gage is 767.55 ft (233.949 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--36 years, 8,090 ft^3/s (229.1 m^3/s), 24.93 in/yr (633 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 101,000 ft^3/s (2,860 m^3/s) Jan. 11 (gage height, 23.34 ft or 7.114 m); minimum daily, 533 ft^3/s (15.1 m^3/s) Aug. 11.

Period of record: Maximum discharge, 134,000 ft^3/s (3,790 m^3/s) Mar. 7, 1967 (gage height, 29.61 ft or 9.025 m); minimum daily, 204 ft^3/s (5.78 m^3/s) Sept. 1-3, 5, 1946; minimum gage height, 10.23 ft (3.118 m) Apr. 29, 1941.

Flood of July 1888 reached a stage of about 36 ft (11.0 m), from high-water profile by Corps of Engineers. Flood of Mar. 18, 1936, reached a stage of 28.4 ft or 8.66 m (discharge, 130,000 ft^3/s or 3,680 m^3/s).

REMARKS.--Records good above 5,000 ft^3/s (140 m^3/s) and fair below except those below 1,000 ft^3/s (28 m^3/s), which are poor. Flow regulated since 1938 by Tygart Lake 66 mi (106 km) upstream (see p. 270) and since 1926 by Lake Lynn 8 mi (13 km) upstream (combined capacity, 357,300 acre-ft or 441 hm^3).

REVISIONS (WATER YEARS).--WSP 1113: 1939 (M), 1941 (M). WSP 1435: 1939. WSP 1907: 1936 (M), 1955 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,570	16,500	18,500	21,900	8,600	8,700	5,820	1,240	28,700	8,810	1,880	3,960
2	6,840	17,100	16,100	18,700	5,780	11,900	6,670	2,660	49,500	5,100	2,480	7,320
3	8,750	13,200	15,200	18,700	4,920	19,500	8,180	4,230	53,800	4,980	1,050	10,400
4	6,540	4,820	14,600	35,400	7,540	19,900	17,800	9,600	34,400	2,930	981	9,700
5	4,380	6,940	11,000	27,300	7,550	17,600	27,400	7,590	26,700	5,670	999	9,360
6	3,400	7,290	5,470	22,000	7,910	15,500	23,400	5,380	23,200	4,130	1,030	8,770
7	2,840	7,190	4,150	17,400	9,820	14,600	19,300	3,930	18,500	3,680	1,280	6,970
8	3,470	7,450	2,670	14,500	11,100	17,000	15,400	5,510	8,350	3,760	1,420	9,020
9	4,510	8,130	3,380	15,300	9,230	15,600	24,400	4,810	5,470	3,350	1,360	7,730
10	5,330	8,630	4,120	28,200	5,780	10,500	23,100	4,410	4,970	1,870	771	4,800
11	3,470	7,310	4,690	90,000	8,200	13,600	19,900	5,100	4,720	2,900	533	3,710
12	2,870	9,060	4,420	63,600	8,750	15,100	17,000	22,400	3,310	1,670	727	1,970
13	2,840	6,300	7,280	31,500	8,000	13,600	15,500	29,800	2,000	2,010	1,320	3,520
14	1,920	4,700	25,800	25,600	14,500	11,700	14,200	18,700	2,030	1,410	1,120	12,000
15	3,150	6,990	21,800	24,700	19,300	8,420	15,200	11,900	1,910	2,100	925	9,430
16	2,480	8,410	14,200	24,300	15,700	7,910	9,810	10,200	3,990	1,720	1,120	5,000
17	3,000	8,360	13,400	20,800	8,690	6,740	8,180	8,400	6,580	1,940	1,870	5,000
18	2,930	7,600	10,900	17,500	10,300	8,730	6,890	10,100	5,660	1,880	1,070	3,730
19	2,050	8,260	10,200	12,100	11,000	9,070	5,660	7,270	3,150	1,740	2,140	3,730
20	1,590	9,680	13,700	7,770	12,200	9,810	3,990	4,780	3,650	1,910	1,910	2,700
21	1,410	10,800	28,500	10,400	13,200	16,200	1,980	4,360	15,000	1,880	1,320	3,050
22	2,600	5,740	25,000	15,900	11,100	20,000	3,650	3,150	32,300	849	1,290	3,820
23	2,300	8,050	22,400	14,800	10,800	16,900	4,450	5,830	55,600	1,990	2,320	4,020
24	2,120	6,370	20,900	12,400	6,100	9,940	5,250	6,220	57,300	1,920	1,070	3,200
25	1,680	4,860	19,600	11,600	9,440	9,230	3,340	6,710	33,900	1,700	594	2,490
26	1,700	7,680	22,600	11,800	9,220	10,500	3,370	5,000	21,700	1,030	1,560	2,030
27	1,590	11,500	49,300	6,620	8,930	8,410	2,150	3,980	22,600	1,360	1,280	2,200
28	1,630	25,600	30,600	9,730	9,930	7,530	1,610	3,860	14,100	1,180	1,510	1,400
29	3,830	24,100	25,100	14,100	------	7,370	4,680	5,580	9,960	1,540	1,630	1,590
30	6,890	19,100	24,600	12,700	------	4,420	2,720	9,640	8,690	2,520	5,170	1,640
31	11,400	------	23,300	9,150	------	2,440	------	9,650	------	2,920	6,660	------
TOTAL	118,080	297,720	513,480	666,470	273,590	368,420	321,000	241,990	561,740	82,449	50,390	154,260
MEAN	3,809	9,924	16,560	21,500	9,771	11,880	10,700	7,806	18,720	2,660	1,625	5,142
MAX	11,400	25,600	49,300	90,000	19,300	20,000	27,400	29,800	57,300	8,810	6,660	12,000
MIN	1,410	4,700	2,670	6,620	4,920	2,440	1,610	1,240	1,910	849	533	1,400
(ƒ)	-262	+127	-442	-533	-222	+370	+932	+468	-67.9	-9.3	-118	-172
MEAN≠	3,547	10,050	16,120	20.970	9,549	12,250	11,630	8,274	18,650	2,651	1,507	4,970
CFSM≠	.80	2.28	3.66	4.76	2.17	2.78	2.64	1.88	4.23	.60	.34	1.13
IN.≠	.92	2.54	4.22	5.49	2.26	3.21	2.95	2.17	4.72	.69	.39	1.26

CAL YR 1973 TOTAL 3,030,208 MEAN 8,302 MAX 49,300 MIN 532 MEAN≠ 8,358 CFSM≠ 1.90 IN.≠ 25.71
WTR YR 1974 TOTAL 3,649,589 MEAN 9,999 MAX 90,000 MIN 533 MEAN≠ 10,000 CFSM≠ 2.27 IN.≠ 30.80

ƒ Change in contents, equivalent in cubic feet per second, in Tygart Lake and Lake Lynn. Records of contents in Lake Lynn furnished by Allegheny Power Service Corp.
≠ Adjusted for change in reservoir contents.

03072590 Georges Creek at Smithfield, Pa.

LOCATION.--Lat 39°47'44", long 79°47'47", Fayette County, on right bank at downstream side of bridge on Georges Township Road at Smithfield, 1.6 mi (2.6 km) upstream from Mountain Creek, and 2.5 mi (4.0 km) southwest of Fairchance.

DRAINAGE AREA.--16.3 mi^2 (42.2 km^2).

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

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 959.44 ft (292.437 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 18.4 ft^3/s (0.521 m^3/s), 15.33 in/yr (389 mm/yr).

EXTREMES.--Current year: Maximum discharge, 842 ft^3/s (23.8 m^3/s) Jan. 11 (gage height, 6.65 ft or 2.027 m); minimum, 0.76 ft^3/s (0.022 m^3/s) Aug. 27 (gage height, 2.04 ft or 0.622 m).
Period of record: Maximum discharge, 1,640 ft^3/s (46.4 m^3/s) June 23, 1972 (gage height, 10.01 ft or 3.051 m, from floodmark), from rating curve extended above 480 ft^3/s (14 m^3/s), on basis of contracted-opening measurement of peak flow; no flow Aug. 19, 1965, Sept. 14, 1966.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Occasional regulation from unknown upstream source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	14	25	29	26	14	13	9.1	66	52	5.3	55
2	22	11	19	25	24	16	17	7.8	44	27	3.8	50
3	30	10	16	27	22	17	15	12	31	20	3.3	264
4	12	8.5	14	90	18	17	69	11	29	29	5.6	108
5	8.5	8.5	13	50	16	18	54	9.9	18	69	5.9	52
6	6.2	8.0	12	38	15	18	41	10	14	106	4.7	32
7	5.6	7.3	11	30	17	26	31	9.8	11	48	3.8	25
8	5.6	6.9	10	22	20	26	35	8.8	9.2	29	3.3	19
9	5.3	9.5	12	62	18	27	74	9.4	9.3	20	3.3	15
10	5.3	7.6	11	294	15	55	57	8.4	8.3	25	2.9	13
11	5.0	6.9	11	558	13	44	46	7.6	8.4	27	2.3	11
12	4.4	6.9	13	154	12	38	39	141	7.3	15	2.3	11
13	3.8	6.9	25	85	12	28	41	103	6.9	13	4.1	55
14	3.8	6.6	140	50	11	23	38	50	5.9	11	5.6	124
15	3.3	8.5	80	36	10	20	37	32	5.6	20	5.0	49
16	3.1	42	43	30	9.9	32	30	23	14	13	4.7	30
17	2.7	26	32	24	10	31	20	20	13	9.3	9.3	22
18	2.5	19	27	24	9.5	26	21	84	7.4	7.9	4.7	18
19	2.1	18	25	33	11	25	19	52	6.2	11	3.1	15
20	2.0	14	35	42	12	21	16	36	7.5	7.9	2.1	12
21	2.0	13	80	41	10	72	15	25	28	6.7	2.5	28
22	1.8	13	160	38	15	61	14	21	24	5.6	3.1	24
23	1.8	12	38	35	15	44	18	65	275	9.8	2.5	21
24	1.6	15	34	32	14	33	14	52	108	9.8	1.5	15
25	1.6	20	32	30	17	24	12	35	85	7.1	1.3	14
26	1.4	30	50	28	14	21	10	26	58	5.9	1.1	12
27	1.4	42	100	24	14	18	9.9	20	38	5.6	.84	11
28	1.4	100	54	40	14	16	9.3	16	27	5.0	5.6	10
29	11	56	41	86	------	16	8.8	22	22	6.7	5.6	11
30	8.0	35	35	56	------	15	8.5	21	18	11	45	9.3
31	9.5	------	30	37	------	15	------	29	------	7.1	31	------
TOTAL	178.5	582.1	1,228	2,150	414.4	857	832.5	976.8	1,005.0	640.4	185.14	1,135.3
MEAN	5.76	19.4	39.6	69.4	14.8	27.6	27.8	31.5	33.5	20.7	5.97	37.8
MAX	30	100	160	558	26	72	74	141	275	106	45	264
MIN	1.4	6.6	10	22	9.5	14	8.5	7.6	5.6	5.0	.84	9.3
CFSM	.35	1.19	2.43	4.26	.91	1.69	1.71	1.93	2.06	1.27	.37	2.32
IN.	.41	1.33	2.80	4.91	.95	1.96	1.90	2.23	2.29	1.46	.42	2.59

CAL YR 1973 TOTAL 7,198.06 MEAN 19.7 MAX 242 MIN .68 CFSM 1.21 IN 16.43
WTR YR 1974 TOTAL 10,185.14 MEAN 27.9 MAX 558 MIN .84 CFSM 1.71 IN 23.24

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1145	6.65	842	9- 3	1345	5.77	623
6-23	1530	4.88	436				

NOTE.--No gage-height record Dec. 4 to Jan. 7, Jan. 14 to Feb. 11.

03072840 Tenmile Creek near Clarksville, Pa.

LOCATION.--Lat 39°59'51", long 80°02'31", Greene County, on right bank 75 ft (23 m) upstream from dam, 200 ft (61 m) upstream from single-span steel-truss bridge, 1.5 mi (2.4 km) north of Clarksville, and 2.3 mi (3.7 km) upstream from South Fork Tenmile Creek.

DRAINAGE AREA.--133 mi^2 (344 km^2).

PERIOD OF RECORD.--October 1968 to current year (monthly discharge only October, November 1968.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 807.06 ft (245.992 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--6 years, 132 ft^3/s (3.738 m^3/s), 13.48 in/yr (342 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,000 ft^3/s (85.0 m^3/s) Sept. 2 (gage height, 4.79 ft or 1.460 m); minimum, 2.0 ft^3/s (0.057 m^3/s) Oct. 17, 27 (gage height, 0.29 ft or 0.088 m).
Period of record: Maximum discharge, 10,400 ft^3/s (295 m^3/s) Mar. 13, 1972 (gage height, 7.28 ft or 2.219 m, from floodmarks); from rating curve extended above 4,500 ft^3/s (130 m^3/s); minimum since November 1968, 1.4 ft^3/s (0.040 m^3/s) Sept. 1, 3, 4, 1973 (gage height, 0.13 ft or 0.040 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	31	45	111	154	84	143	124	542	446	39	380
2	13	41	36	90	145	93	494	106	214	198	30	1,180
3	17	28	31	105	140	113	446	114	153	133	25	150
4	13	19	29	260	116	107	1,100	100	116	98	27	470
5	12	15	30	186	93	105	582	85	91	85	28	234
6	9.3	14	29	145	95	107	416	83	75	85	20	124
7	7.6	12	27	118	160	105	306	75	64	65	16	100
8	6.5	12	24	77	157	102	260	69	57	54	15	82
9	5.3	12	27	107	128	98	348	69	51	50	16	65
10	5.4	10	50	478	109	138	318	65	46	73	20	58
11	5.4	9.1	46	2,070	107	130	260	61	47	275	15	53
12	5.3	9.1	34	850	96	135	230	1,150	48	114	14	55
13	4.2	9.1	50	381	96	118	270	730	43	76	22	76
14	3.5	8.4	203	263	90	102	270	290	36	60	21	201
15	3.2	9.3	135	234	75	95	226	198	43	82	15	122
16	2.6	21	90	218	70	151	193	160	85	69	12	85
17	2.1	38	61	189	71	207	166	135	68	52	15	69
18	2.9	25	43	163	63	166	145	180	46	39	10	59
19	3.4	20	53	395	66	157	130	140	38	44	8.2	55
20	5.6	17	51	486	74	137	113	112	36	57	7.8	49
21	5.4	15	105	342	62	462	100	96	82	42	6.7	486
22	4.9	13	74	265	81	526	113	85	120	34	7.1	526
23	5.1	13	74	234	105	300	990	122	920	46	7.8	218
24	3.7	12	61	226	86	230	374	102	550	69	5.8	158
25	3.7	38	62	196	88	179	242	76	265	45	5.6	126
26	2.4	98	98	172	68	160	198	69	242	37	5.6	108
27	2.1	67	230	175	71	140	170	60	175	32	5.6	90
28	3.7	118	169	175	81	125	153	55	133	29	25	83
29	18	111	125	285	------	154	132	94	133	34	47	110
30	43	63	111	222	------	172	122	112	112	103	423	104
31	27	------	96	189	------	163	------	168	------	57	454	------
TOTAL	255.6	908.0	2,299	9,407	2,747	5,061	9,010	5,085	4,631	2,683	1,369.2	5,676
MEAN	8.25	30.3	74.2	303	98.1	163	300	164	154	86.5	44.2	189
MAX	43	118	230	2,070	160	526	1,100	1,150	920	446	454	1,180
MIN	2.1	8.4	24	77	62	84	100	55	36	29	5.6	49
CFSM	.06	.23	.56	2.28	.74	1.23	2.26	1.23	1.16	.65	.33	1.42
IN.	.07	.25	.64	2.63	.77	1.42	2.52	1.42	1.30	.75	.38	1.59

CAL YR 1973 TOTAL 44,588.0 MEAN 122 MAX 1,800 MIN 1.6 CFSM .92 IN 12.47
WTR YR 1974 TOTAL 49,131.8 MEAN 135 MAX 2,070 MIN 2.1 CFSM 1.02 IN 13.74

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0730	4.46	2,520	6-23	1600	3.51	1,390
4- 4	0315	3.64	1,520	8-30	2300	4.27	2,260
4-23	0400	3.63	1,510	9- 2	*0130	4.79	3,000
5-12	1630	4.21	2,190	9-21	2030	3.43	1,310

* About.

03073000 South Fork Tenmile Creek at Jefferson, Pa.

LOCATION.--Lat 39°55'23", long 80°04'22", Greene County, on right bank at downstream side of bridge on State Highway 188, 1 mi (2 km) southwest of Jefferson, and 3.1 mi (5.0 km) downstream from Ruff Creek.

DRAINAGE AREA.--180 mi^2 (466 km^2).

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for October 1931, published in WSP 1305.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 852.54 ft (259.854 m) above mean sea level, adjustment of 1907. Prior to Oct. 21, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 197 ft^3/s (5.579 m^3/s), 14.86 in/yr (377 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,760 ft^3/s (191 m^3/s) probably Jan. 11 (gage height, 11.82 ft or 3.603 m), from peak-stage indicator; minimum, 2.8 ft^3/s (0.079 m^3/s) Oct. 27 (gage height, 0.78 ft or 0.238 m).

Period of record: Maximum discharge, 13,800 ft^3/s (391 m^3/s) June 4, 1941 (gage height, 18.45 ft or 5.624 m, from floodmark in gage house), from rating curve extended above 7,600 ft^3/s (220 m^3/s) on basis of slope-area measurement of peak flow; minimum observed, 0.05 ft^3/s (0.001 m^3/s) Sept. 3, 1938 (gage height, 0.36 ft or 0.110 m).

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Slight diversion into basin during winter months from Monongahela River for Waynesburg water supply. Some regulation from reservoirs and pumpage above station.

REVISIONS (WATER YEARS).--WSP 1305: 1949. WSP 1435: 1932-34, 1935 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	180	165	270	228	133	219	88	1,170	2,700	38	527
2	38	147	120	250	202	140	527	76	408	703	29	1,230
3	52	85	99	400	204	159	504	100	230	314	24	496
4	51	57	85	700	168	153	1,680	88	158	175	26	752
5	36	44	78	540	138	157	981	71	119	148	25	314
6	27	36	74	370	130	154	652	65	94	150	21	153
7	20	30	70	300	177	177	441	61	78	97	17	109
8	17	25	66	240	184	205	355	56	68	75	15	87
9	14	24	80	300	165	188	662	55	60	62	16	68
10	13	22	140	900	149	448	551	54	52	55	19	55
11	12	20	110	3,000	145	386	403	49	45	97	27	48
12	9.8	19	90	2,000	124	362	319	2,290	48	61	26	46
13	8.5	17	300	700	125	274	330	1,250	47	44	23	92
14	6.9	15	500	520	118	216	306	473	37	36	26	865
15	5.9	15	350	350	100	186	257	259	34	64	17	350
16	5.5	83	250	312	90	319	208	178	109	75	13	166
17	4.9	106	170	228	94	456	173	170	90	43	12	115
18	4.1	72	130	188	83	323	151	822	56	33	15	87
19	3.2	60	140	522	85	287	136	322	41	34	14	72
20	3.3	49	130	742	109	233	120	195	59	85	11	59
21	3.6	41	250	546	91	775	106	144	424	42	8.4	554
22	3.8	38	200	420	123	894	102	120	410	29	6.8	830
23	3.8	33	185	344	171	519	390	178	2,000	38	5.5	358
24	3.8	30	170	339	146	363	230	152	1,350	78	4.7	193
25	3.6	147	270	276	148	248	171	115	608	51	4.5	138
26	3.2	367	400	235	117	208	142	96	804	35	4.1	113
27	3.0	491	620	244	112	176	123	82	381	29	3.6	90
28	3.5	736	450	264	118	154	109	70	236	24	10	85
29	45	482	290	578	------	216	98	125	287	25	32	148
30	120	248	270	412	------	386	88	171	233	121	338	187
31	95	------	310	305	------	289	------	173	------	64	306	------
TOTAL	677.4	3,719	6,562	16,795	3,844	9,184	10,534	8,148	9,736	5,587	1,137.6	8,387
MEAN	21.9	124	212	542	137	296	351	263	325	180	36.7	280
MAX	120	736	620	3,000	228	894	1,680	2,290	2,000	2,700	338	1,230
MIN	3.0	15	66	188	83	133	88	49	34	24	3.6	46
CFSM	.12	.69	1.18	3.01	.76	1.64	1.95	1.46	1.81	1.00	.20	1.56
IN.	.14	.77	1.36	3.47	.79	1.90	2.18	1.68	2.01	1.15	.24	1.73

CAL YR 1973 TOTAL 70,522.3 MEAN 193 MAX 2,890 MIN 1.4 CFSM 1.07 IN 14.57
WTR YR 1974 TOTAL 84,311.0 MEAN 231 MAX 3,000 MIN 3.0 CFSM 1.28 IN 17.42

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
+ 1-11	Unk.	*11.82	6,760	7- 1	1030	10.37	5,450
5-12	1800	8.91	4,280				

NOTE.--No gage-height record Dec. 5 to Jan. 14.

+ Probably.
* From peak-stage indicator.

03074300 Lick Run at Hopwood, Pa.

LOCATION.--Lat 39°52'04", long 79°41'40", Fayette County, on left bank at southeast edge of Hopwood, along road leading to Lick Hollow picnic area in Forbes State Forest, 0.4 mi (0.6 km) upstream from road leading south from Hopwood to Fairchance, and 1.5 mi (2.4 km) upstream from Bennington Spring Run.

DRAINAGE AREA.--3.80 mi^2 (9.84 km^2).

PERIOD OF RECORD.--Annual maximum and occasional discharge measurements, water years 1959-66. October 1966 to current year.

GAGE.--Water-stage recorder, crest-stage gage at present site, and concrete V-notch control. Datum of gage is 1,207.72 ft (368.113 m) above mean sea level. Sept. 10, 1958, to Sept. 30, 1966, crest-stage gage at site 500 ft (152 m) downstream at different datum.

AVERAGE DISCHARGE.--8 years, 6.89 ft^3/s (0.195 m^3/s), 24.62 in/yr (625 mm/yr).

EXTREMES.--Current year: Maximum discharge, 225 ft^3/s (6.37 m^3/s) Jan. 11 (gage height, 2.75 ft or 0.838 m); minimum daily, 0.35 ft^3/s (0.010 m^3/s) Aug. 16.

Period of record: Maximum discharge, 690 ft^3/s (19.5 m^3/s) June 23, 1972 (gage height, 4.30 ft or 1.311 m), from rating curve extended above 310 ft^3/s (9.0 m^3/s) on basis of contracted-opening measurement of peak flow; maximum gage height, 4.37 ft (1.332 m) June 23, 1972 (backwater from collapsed bridge); minimum discharge, 0.07 ft^3/s (0.002 m^3/s) Sept. 13, 14, 1970, Sept. 7, 8, 11, 12, 1972; minimum gage height, 1.09 ft (0.332 m) Sept. 7, 8, 11, 12, 1972.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.9	7.8	7.3	6.6	5.8	3.7	3.9	41	17	.90	6.5
2	4.9	3.3	5.7	5.7	6.2	7.0	4.5	3.7	25	7.5	.80	7.7
3	7.8	2.8	4.9	9.4	5.4	8.0	4.8	5.4	14	5.8	.90	41
4	4.5	2.4	4.2	16	4.5	8.0	22	6.2	8.5	4.8	1.3	27
5	3.6	2.4	3.9	13	3.7	8.5	21	6.2	6.2	9.0	.90	14
6	2.6	2.2	3.3	11	3.5	8.0	15	6.6	5.1	19	.80	8.4
7	2.2	1.7	2.8	11	3.9	16	10	6.2	3.9	9.0	.60	6.0
8	2.2	1.5	2.4	6.1	3.7	17	10	5.4	3.5	6.6	.54	3.9
9	1.5	2.4	3.3	7.3	3.3	15	21	5.4	3.1	5.1	.60	3.1
10	1.4	2.0	3.3	41	3.1	24	19	5.1	2.7	5.8	.60	2.6
11	1.2	1.5	3.3	138	3.1	21	18	4.5	2.5	5.1	.48	2.2
12	1.1	1.4	3.1	60	3.1	16	15	61	2.3	3.7	.60	2.4
13	.95	1.4	7.3	27	3.1	10	14	50	2.1	3.1	.60	7.7
14	.95	1.4	21	16	3.1	7.5	12	24	1.7	2.7	.48	28
15	.95	2.2	14	11	3.1	6.6	10	14	2.1	2.9	.42	14
16	1.1	12	9.9	8.0	2.9	11	8.5	9.0	3.9	2.5	.35	8.4
17	1.1	7.8	7.8	6.2	2.9	14	7.0	9.0	3.7	2.1	.43	5.5
18	.85	5.7	5.7	5.1	2.9	10	6.2	32	2.3	1.9	.43	4.2
19	.86	4.9	4.5	7.5	3.3	9.0	5.4	22	2.1	2.1	.67	3.4
20	.78	4.2	18	8.5	3.9	7.0	4.5	14	2.3	1.9	.67	2.9
21	.78	3.9	46	12	3.7	23	3.9	9.0	7.0	1.4	.67	3.6
22	.78	3.3	20	13	5.4	24	4.2	7.5	5.8	1.0	.59	3.6
23	.78	3.1	13	15	6.2	17	4.5	25	58	2.3	.59	4.2
24	.70	3.6	9.4	17	5.8	11	3.7	19	38	1.9	.59	3.1
25	.70	4.9	8.7	14	6.2	7.5	3.5	13	26	1.4	.59	2.9
26	.65	8.7	33	10	5.1	6.2	3.3	9.0	20	1.1	.67	2.6
27	.65	14	37	8.5	4.8	5.1	3.3	7.0	12	1.0	.85	2.2
28	.65	26	21	8.5	4.8	4.5	3.5	5.4	8.0	.90	1.3	2.0
29	2.8	17	14	10	------	4.2	3.7	8.0	6.6	1.9	.75	2.2
30	1.7	11	11	9.0	------	4.2	3.5	7.0	5.1	1.9	6.5	1.9
31	2.2	------	9.4	8.0	------	4.2	------	17	------	1.1	2.0	------
TOTAL	55.13	162.6	358.7	540.1	117.3	340.3	268.7	420.5	324.5	133.50	28.17	227.2
MEAN	1.78	5.42	11.6	17.4	4.19	11.0	8.96	13.6	10.8	4.31	.91	7.57
MAX	7.8	26	46	138	6.6	24	22	61	58	19	6.5	41
MIN	.65	1.4	2.4	5.1	2.9	4.2	3.3	3.7	1.7	.90	.35	1.9
CFSM	.47	1.43	3.05	4.58	1.10	2.89	2.36	3.58	2.84	1.13	.24	1.99
IN.	.54	1.59	3.51	5.29	1.15	3.33	2.63	4.12	3.18	1.31	.28	2.22

CAL YR 1973 TOTAL 2,371.43 MEAN 6.50 MAX 61 MIN .22 CFSM 1.71 IN 23.22
WTR YR 1974 TOTAL 2,976.70 MEAN 8.16 MAX 138 MIN .35 CFSM 2.15 IN 29.14

PEAK DISCHARGE (BASE, 100 CFS).--Jan. 11 (0845) 225 cfs (2.75 ft); May 12 (1430) 110 cfs (2.36 ft).

03074500 Redstone Creek at Waltersburg, Pa.

LOCATION.--Lat 39°58'48", long 79°45'52", Fayette County, on right bank, 15 ft (4.6 m) upstream from highway bridge at Waltersburg, 400 ft (120 m) upstream from Bolden Run, and 0.9 mi (1.4 km) upstream from Allen Run.

DRAINAGE AREA.--73.7 mi^2 (190.9 km^2).

PERIOD OF RECORD.--October 1942 to current year. Monthly discharge only for October 1942, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 883.28 ft (269.224 m) above mean sea level. Prior to Nov. 15, 1973, nonrecording gage 15 ft (4.6 m) downstream at same datum.

AVERAGE DISCHARGE.--32 years, 97.8 ft^3/s (2.770 m^3/s), 18.02 in/yr (458 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,520 ft^3/s (71.4 m^3/s) Jan. 11 (gage height, 7.44 ft or 2.268 m); minimum observed, 20 ft^3/s (0.57 m^3/s) Oct. 26, 27, 28 (gage height, 0.53 ft or 0.162 m).
Period of record: Maximum discharge, 8,660 ft^3/s (245 m^3/s) June 23, 1972 (gage height, 14.83 ft or 4.520 m), minimum observed, 4.2 ft^3/s (0.12 m^3/s) Aug. 2, 1962; minimum gage height observed, 0.53 ft (0.162 m) Sept. 5, 12-14, 16, 17, Oct. 26, 27, 28, 1973.

REMARKS.--Records fair Oct. 1 to Nov. 15, good thereafter. Some regulation at low flow by mine pumpage into stream above station. Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1435: 1943-45 (M), 1946, 1947 (M), 1948 (P), 1949-50 (M), 1951 (P), 1952 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	60	83	128	123	104	90	57	240	698	37	111
2	64	41	69	108	121	113	125	50	165	217	35	100
3	56	38	61	241	109	109	104	73	130	160	35	312
4	42	33	57	337	96	104	308	57	108	147	67	199
5	38	38	59	230	84	111	265	52	92	158	42	130
6	34	34	49	176	82	103	210	53	79	154	34	99
7	33	30	42	147	93	132	172	49	69	118	32	87
8	41	29	37	120	82	125	170	47	63	102	33	69
9	37	37	69	192	75	132	263	48	58	89	32	60
10	33	30	93	884	69	222	210	44	59	125	31	55
11	30	28	75	1,910	69	180	184	42	54	124	29	51
12	27	29	63	642	68	172	170	590	56	83	36	68
13	24	27	210	329	69	139	188	339	46	72	36	142
14	24	26	424	240	63	120	158	191	42	64	30	317
15	24	29	212	204	59	109	145	142	62	99	29	149
16	30	70	154	170	57	174	128	114	139	67	30	112
17	24	44	127	141	58	160	116	99	97	58	59	93
18	23	36	103	123	54	139	104	171	58	53	31	79
19	23	35	89	240	58	137	96	125	49	58	29	69
20	23	33	332	196	75	118	86	105	54	49	28	62
21	22	31	596	202	57	396	77	90	197	43	27	147
22	21	29	265	182	89	278	77	87	195	42	27	129
23	21	26	192	176	86	212	114	238	1,080	89	26	134
24	21	33	156	170	79	180	80	153	484	69	25	96
25	21	45	143	152	100	143	72	124	420	49	24	85
26	20	77	243	141	80	127	66	105	285	43	25	78
27	20	98	305	137	77	111	62	90	197	41	27	71
28	21	226	210	184	77	101	58	80	158	38	60	67
29	82	130	168	188	------	104	56	141	141	60	33	86
30	42	103	147	154	------	100	52	112	115	71	207	64
31	44	------	151	141	------	108	------	129	------	42	76	------
TOTAL	1,016	1,525	4,984	8,585	2,209	4,563	4,006	3,797	4,992	3,282	1,272	3,321
MEAN	32.8	50.8	161	277	78.9	147	134	122	166	106	41.0	111
MAX	82	226	596	1,910	123	396	308	590	1,080	698	207	317
MIN	20	26	37	108	54	100	52	42	42	38	24	51
CFSM	.45	.69	2.18	3.76	1.07	1.99	1.82	1.66	2.25	1.44	.56	1.51
IN.	.51	.77	2.52	4.33	1.11	2.30	2.02	1.92	2.52	1.66	.64	1.68

CAL YR 1973 TOTAL 36,911 MEAN 101 MAX 808 MIN 20 CFSM 1.37 IN 18.63
WTR YR 1974 TOTAL 43,552 MEAN 119 MAX 1,910 MIN 20 CFSM 1.61 IN 21.98

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1100	7.44	2,520	6-23	1430	6.33	1,960
5-12	1600	4.60	1,140	7- 1	0530	5.69	1,650

03075000 Monongahela River at Charleroi, Pa.

LOCATION.--Lat 40°08'58", long 79°54'06", Westmoreland County, on right bank at end of land guide wall, 1,100 ft (340 m) downstream from dam at lock 4 at Charleroi, 1.3 mi (2.1 km) downstream from Maple Creek, and at mile 41.3 (66.5 km).

DRAINAGE AREA.--5,213 mi^2 (13,502 km^2).

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge prior to 1940, adjusted for reservoir contents, published in WSP 1305. Records for March 1886 to March 1905 (high-water periods only), published in WSP 169, are unreliable and should not be used (peak discharge of July 11, 1888, as published in WSP 783, is still considered reliable).

GAGE.--Water-stage recorder and concrete dam (17.5 mi or 28.2 km downstream). Datum of gage is 717.40 ft (218.664 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 1, 1967, water-stage recorder at site 0.4 mi (0.6 km) upstream at datum 17.93 ft (5.465 m) higher. Oct. 1, 1965, to Sept. 30, 1967, auxiliary staff gage and Apr. 14, 1966, to Sept. 30, 1967, auxiliary water-stage recorder at sites 17.5 mi (28.2 km) and 17.3 mi (27.8 km) respectively, downstream at different datums.

AVERAGE DISCHARGE.--41 years, 8,973 ft^3/s (254.1 m^3/s), 23.37 in/yr (594 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 117,000 ft^3/s (3,310 m^3/s) Jan. 12 (gage height, 33.58 ft or 10.235 m); minimum daily, 835 ft^3/s (23.6 m^3/s) Aug. 25.

Period of record: Maximum discharge, 158,000 ft^3/s (4,470 m^3/s) Mar. 7, 1967 (gage height, 41.63 ft or 12.689 m, from floodmark in gage well, present datum); minimum not determined.

Maximum stage since 1887, 42.0 ft (12.80 m) on lower gage, at old lock 0.4 mi (0.6 km) downstream, or about 42.7 ft or 13.01 m on present gage, July 11, 1888 (discharge, about 156,000 ft^3/s or 4,420 m^3/s).

REMARKS.--Records fair above 2,000 ft^3/s (60 m^3/s) and poor below. Flow regulated by locks above station, since 1938 by Tygart Lake (see p. 270) and since 1926 by Lake Lynn (combined capacity, 357,000 acre-ft or 441 hm^3).

REVISIONS (WATER YEARS).--WSP 758: Drainage area. WSP 783: 1888 (M). WSP 1435: 1934, 1936. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,340	15,100	17,000	25,300	10,200	8,640	5,970	1,920	27,000	13,900	2,280	6,680
2	6,460	17,100	16,900	21,700	9,410	10,700	8,010	2,470	46,400	7,680	2,720	9,380
3	8,020	12,800	14,500	21,800	6,860	19,400	8,970	4,400	61,000	6,370	1,880	12,800
4	7,330	6,540	15,500	39,600	8,460	21,100	19,500	8,630	40,600	4,360	1,260	12,000
5	3,720	6,520	12,100	37,000	9,080	18,900	33,600	7,220	31,500	5,850	1,290	10,200
6	4,280	6,920	5,320	25,800	9,760	16,400	27,800	5,890	24,000	5,220	1,170	10,200
7	2,820	7,410	5,370	20,600	10,600	14,400	22,300	4,500	20,700	4,330	1,270	7,930
8	3,780	6,900	3,580	16,800	13,600	17,000	16,200	5,200	8,780	4,610	1,560	8,860
9	4,460	7,560	4,330	17,300	10,800	18,000	25,900	5,300	5,620	3,740	1,750	8,380
10	6,100	8,610	5,300	30,800	8,650	11,200	27,000	4,520	6,110	3,280	1,360	6,100
11	3,840	7,590	5,400	92,000	8,930	14,000	22,900	5,340	5,020	4,250	920	4,280
12	3,500	8,100	5,520	97,000	9,380	15,800	18,900	19,300	4,140	2,870	1,180	2,850
13	3,300	6,970	7,400	43,400	9,100	14,900	16,500	41,100	2,280	2,360	1,880	4,240
14	2,020	5,040	28,300	29,500	12,900	12,400	16,400	21,700	1,990	2,080	1,410	12,700
15	3,200	6,040	26,900	28,800	19,300	10,300	15,600	13,100	2,900	3,140	1,500	10,600
16	2,840	7,970	17,100	26,900	16,700	8,670	12,100	10,500	3,940	2,640	1,500	6,280
17	3,120	8,860	14,700	23,700	10,500	8,420	9,590	9,390	6,120	2,580	2,450	6,000
18	2,930	7,270	12,500	20,400	10,200	9,320	7,550	11,300	5,820	2,530	1,220	4,540
19	2,460	8,140	11,500	14,900	10,700	9,500	6,480	8,710	3,880	2,150	2,880	3,910
20	1,990	8,990	13,600	12,900	11,600	10,700	4,940	6,320	4,260	2,630	2,020	3,950
21	1,540	10,700	31,500	11,900	14,200	17,600	3,120	5,010	10,800	2,680	1,980	4,760
22	2,730	7,020	33,600	17,400	12,000	23,900	3,740	3,750	34,500	1,730	1,800	6,570
23	2,820	7,040	25,100	17,100	11,100	18,800	6,540	6,160	51,700	2,200	2,420	5,750
24	1,980	7,660	23,200	15,300	8,620	13,000	6,290	6,870	75,800	3,020	1,580	4,410
25	2,120	5,380	22,200	13,700	9,050	10,000	4,440	6,790	43,200	1,940	835	3,420
26	1,790	7,760	24,000	14,000	9,240	10,400	4,410	5,340	28,000	1,580	1,720	3,040
27	1,980	12,600	48,800	9,360	9,160	9,730	2,620	4,700	24,800	2,010	1,590	3,020
28	1,740	29,100	44,000	10,100	10,700	8,660	2,080	5,330	16,600	1,020	2,140	2,000
29	4,280	34,600	29,000	17,900	------	8,060	4,450	5,020	10,600	2,280	1,740	2,210
30	5,920	20,500	28,300	14,400	------	6,030	3,750	9,440	8,600	3,270	7,020	2,990
31	9,990	------	27,400	11,900	------	4,170	------	9,870	------	3,400	7,490	------
TOTAL	121,400	312,790	579,920	799,260	300,800	400,100	367,650	265,090	616,660	111,700	63,815	190,050
MEAN	3,916	10,430	18,710	25,780	10,740	12,910	12,260	8,551	20,560	3,603	2,059	6,335
MAX	9,990	34,600	48,800	97,000	19,300	23,900	33,600	41,100	75,800	13,900	7,490	12,800
MIN	1,540	5,040	3,580	9,360	6,860	4,170	2,080	1,920	1,990	1,020	835	2,000
(/)	-262	+127	-442	-533	-222	+370	+932	+468	-67.9	-9.3	-118	-172
MEAN≠	3,654	10,560	18,270	25,250	10,520	13,280	13,190	9,019	20,490	3,594	1,941	6,163
CFSM≠	.70	2.03	3.50	4.84	2.02	2.55	2.53	1.73	3.93	.69	.37	1.18
IN.≠	.81	2.26	4.04	5.58	2.10	2.94	2.83	1.99	4.38	.80	.43	1.32

CAL YR 1973 TOTAL 3,359,730 MEAN 9,205 MAX 57,700 MIN 640 MEAN≠ 9,262 CFSM≠ 1.78 IN.≠ 24.12
WTR YR 1974 TOTAL 4,129,235 MEAN 11,310 MAX 97,000 MIN 835 MEAN≠ 11,320 CFSM≠ 2.17 IN.≠ 29.48

/ Change in contents, equivalent in cubic feet per second, in Tygart Lake and Lake Lynn. Records of contents in Lake Lynn furnished by Allegheny Power Service Corp.

≠ Adjusted for change in reservoir contents.

03076500 Youghiogheny River at Friendsville, Md.

LOCATION.--Lat 39°39'13", long 79°24'31", Garrett County, on left bank 0.7 mi (1.1 km) upstream from bridge on State Highway 42 at Friendsville, and 1.5 mi (2.4 km) upstream from Bear Creek.

DRAINAGE AREA.--295 mi^2 (764 km^2).

PERIOD OF RECORD.--August 1898 to December 1904 and October 1940 to current year. October, November 1940 monthly discharge only, published in WSP 1305. September 1922 to September 1926 (gage heights only) in reports of Pennsylvania Department of Forests and Waters.

GAGE.--Water-stage recorder. Datum of gage is 1,487.33 ft (453.338 m) above mean sea level. Aug. 17, 1898 to Dec. 31, 1904, and Sept. 1, 1922, to Sept. 30, 1926, nonrecording gages at bridge 0.7 mi (1.1 km) downstream at datum 16.24 ft (4.950 m) and 16.29 ft (4.965 m) lower, respectively.

AVERAGE DISCHARGE.--40 years (1898-1904, 1940-1974), 637 ft^3/s (18.04 m^3/s), 29.32 in/yr (745 mm/yr), adjusted for storage since 1940.

EXTREMES.--Current year: Maximum discharge, 7,830 ft^3/s (222 m^3/s) Jan. 11, gage height, 6.97 ft (2.124 m); minimum, 30 ft^3/s (0.85 m^3/s) Aug. 25, 26, gage height, 1.92 ft (0.585 m).

Period of record: Maximum discharge, 13,000 ft^3/s (368 m^3/s) Oct. 16, 1954, gage height, 8.99 ft (2.740 m), from rating curve extended above 5,800 ft^3/s (164 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 8.2 ft^3/s (0.23 m^3/s) Sept. 11, 1966.

Maximum stage since 1898, 14.2 ft (4.33 m) Mar. 29, 1924, from floodmarks, site and datum then in use or 10.2 ft (3.11 m), present site and datum, discharge, about 15,600 ft^3/s or about 440 m^3/s, from rating curve extended as explained above.

REMARKS.--Records good. Low and medium flow regulated since 1925 by Deep Creek Reservoir (see station 03076000). Records of water quality for the current water year are published in Part 2 of Water Resources Data for Maryland and Delaware.

REVISIONS (WATER YEARS).--WSP 1385: Drainage area at former site, 1898-1905, 1941 (M), 1942, 1944-45, 1948-49, 1951 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	995	1,100	1,470	830	1,190	577	290	2,490	864	233	168
2	350	1,050	748	1,270	474	1,290	817	270	3,170	768	233	138
3	392	696	732	1,350	453	1,570	915	585	2,750	620	72	288
4	293	488	639	3,010	725	1,300	1,970	729	1,620	315	71	331
5	271	459	678	1,900	700	1,140	2,460	508	1,120	559	196	315
6	191	493	896	1,260	693	1,080	1,300	493	849	347	200	268
7	134	466	669	1,110	1,180	1,070	946	446	690	232	112	251
8	168	376	483	872	1,390	1,010	912	392	420	425	191	250
9	224	445	486	999	755	699	1,540	414	394	468	64	325
10	224	338	567	3,020	573	703	1,310	389	472	446	40	281
11	205	293	510	6,910	801	848	1,100	285	388	445	35	254
12	191	376	450	4,470	756	848	804	367	367	426	183	298
13	147	416	487	2,440	755	756	1,020	677	345	176	276	292
14	90	470	959	1,770	970	664	1,350	496	313	94	254	314
15	124	452	784	1,440	874	622	1,170	433	176	306	219	289
16	240	657	654	1,150	520	467	940	397	284	293	187	282
17	328	573	701	1,050	448	481	777	420	463	318	102	288
18	226	469	626	922	621	583	656	1,430	356	343	164	267
19	210	616	569	556	651	706	580	951	297	282	233	251
20	153	606	628	700	1,080	802	434	773	323	90	224	239
21	104	549	1,840	1,310	1,000	1,060	359	629	452	67	200	137
22	138	434	1,410	1,670	1,040	1,440	408	544	1,430	224	187	88
23	172	479	1,000	1,350	867	901	476	598	2,060	233	187	202
24	168	382	893	1,230	667	736	457	656	3,110	260	55	233
25	164	406	676	1,150	886	783	435	455	2,200	266	39	214
26	161	527	2,310	687	798	719	390	376	1,610	233	157	208
27	117	751	4,740	596	720	652	282	335	1,170	86	205	209
28	71	2,170	2,980	909	748	592	238	391	951	61	191	109
29	596	2,060	1,850	1,080	------	558	300	533	640	205	191	52
30	1,100	1,400	1,850	950	------	395	306	2,180	495	260	260	129
31	730	------	1,680	890	------	567	------	1,400	------	266	266	------
TOTAL	7,975	19,892	34,595	49,491	21,975	26,232	25,229	18,842	31,405	9,978	5,227	6,970
MEAN	257	663	1,116	1,596	785	846	841	608	1,047	322	169	232
MAX	1,100	2,170	4,740	6,910	1,390	1,570	2,460	2,180	3,170	864	276	331
MIN	71	293	450	556	448	395	238	270	176	61	35	52
(+)	-9.8	+45.4	+143	+102	-119	-6.5	+92.3	+53.4	+57.0	-145	-110	-101
MEAN≠	247	708	1,259	1,698	666	840	933	661	1,104	177	59	131
CFSM≠	.84	2.40	4.27	5.76	2.26	2.85	3.16	2.24	3.74	.60	.20	.44
IN≠	.97	2.68	4.92	6.64	2.35	3.28	3.53	2.58	4.18	.69	.23	.49

CAL YR 1973 TOTAL 240,524 MEAN 659 MAX 4,740 MIN 40 MEAN≠ 656 CFSM≠ 2.22 IN≠ 30.19
WTR YR 1974 TOTAL 257,811 MEAN 706 MAX 6,910 MIN 35 MEAN≠ 707 CFSM≠ 2.40 IN≠ 32.53

+ Change in contents, equivalent in cubic feet per second, in Deep Creek Reservoir, furnished by Pennsylvania Electric Co.

≠ Adjusted for change in contents.

03077500 Youghiogheny River at Youghiogheny River Dam, Pa.

LOCATION.--Lat 39°48'19", long 79°21'52", Somerset County, on right bank 800 ft (240 m) upstream from bridge on State Highway 281, 0.2 mi (0.3 km) downstream from Youghiogheny River Dam, 0.2 mi (0.3 km) south of Confluence, 0.7 mi (1.1 km) upstream from Casselman River, and at mile 73.2 (117.8 km).

DRAINAGE AREA.--436 mi^2 (1,129 km^2).

PERIOD OF RECORD.--September 1904 to September 1913 (gage heights only), October 1939 to current year. Monthly discharge only for October 1939 to April 1940, published in WSP 1305. Figures of daily discharge prior to January 1911, published in WSP 169, 205, 243, 263, and 283 are unreliable and should not be used. September 1904 to September 1922 (gage heights only) in reports of Water Supply Commission of Pennsylvania or Pennsylvania Department of Forests and Waters. Published as "at Confluence" 1904-22.

GAGE.--Water-stage recorder. Datum of gage is 1,310.17 ft (399.340 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--35 years (1939-74), 856 ft^3/s (24.24 m^3/s), 26.66 in/yr (677 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,500 ft^3/s (127 m^3/s) Jan. 16; maximum gage height, 9.64 ft or 2.938 m Jan. 11 (backwater from Casselman River); minimum daily discharge, 131 ft^3/s (3.71 m^3/s) May 1, 2.
Period of record: Maximum discharge, 13,700 ft^3/s (388 m^3/s) Mar. 5, 1948 (gage height, 11.28 ft or 3.438 m); maximum gage height, 19.08 ft (5.816 m) Oct. 15, 1954 (backwater from Casselman River); practically no flow at times during May and June 1950 when reservoir gates were closed.

REMARKS.--Records good. Flow regulated since 1925 by Deep Creek Reservoir and since 1943 by Youghiogheny River Lake 0.2 mi (0.3 km) upstream (see p.270).

COOPERATION.--Five discharge measurements furnished by Corps of Engineers.

REVISIONS.--WSP 893: Drainage area; see PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	575	203	2,550	2,000	1,010	1,470	269	131	350	1,450	900	609
2	586	210	3,030	1,980	1,010	2,010	262	131	1,360	941	900	609
3	453	218	3,000	1,970	1,010	2,010	276	889	2,800	941	900	611
4	301	218	2,960	1,430	1,000	1,640	288	1,590	3,580	939	900	609
5	510	225	2,080	1,480	1,010	1,030	415	1,590	3,540	939	749	609
6	729	225	915	2,000	1,010	1,080	1,190	814	1,900	938	586	907
7	729	378	915	2,000	1,010	708	1,190	442	838	926	601	1,370
8	718	564	915	1,980	1,010	537	1,190	442	915	685	609	1,190
9	718	564	915	1,980	1,010	748	1,240	442	928	431	609	751
10	718	553	915	1,330	1,000	770	1,670	442	928	431	609	610
11	718	553	915	634	1,010	758	1,950	442	928	431	601	610
12	729	553	915	812	815	749	1,680	456	928	438	598	610
13	718	553	915	1,700	589	739	1,240	456	928	442	598	610
14	718	553	915	2,920	575	740	1,230	453	928	442	598	610
15	718	553	915	3,580	575	720	1,230	445	928	442	598	610
16	718	564	915	4,000	581	746	1,240	442	928	442	598	610
17	718	564	915	4,400	586	736	1,240	544	928	442	598	610
18	718	564	915	4,360	586	728	1,240	634	707	442	598	610
19	705	741	915	2,760	585	633	1,240	754	445	442	602	609
20	705	952	915	1,410	515	498	1,240	1,270	445	436	609	609
21	705	952	474	3,000	577	527	1,240	1,450	445	431	609	609
22	705	952	556	3,580	581	529	1,240	1,450	445	431	609	609
23	693	939	1,370	3,440	595	518	1,020	1,440	423	598	609	609
24	693	939	1,830	3,370	598	515	631	1,450	632	764	609	617
25	693	939	1,810	3,330	810	364	453	1,060	1,150	764	609	621
26	693	939	1,800	2,700	1,030	289	928	928	2,320	920	602	621
27	693	952	1,300	1,990	1,030	266	1,600	622	3,680	1,120	609	621
28	693	954	1,020	2,000	1,030	263	1,060	330	3,330	900	608	630
29	469	980	1,540	2,010	------	269	340	350	2,210	891	605	632
30	203	1,440	2,040	2,000	------	272	175	350	2,190	887	608	632
31	203	------	2,010	1,400	------	271	------	350	------	900	609	------
TOTAL	19,645	19,494	43,095	73,546	22,748	23,133	30,207	22,589	42,057	21,626	20,047	20,174
MEAN	634	650	1,390	2,372	812	746	1,007	729	1,402	698	647	672
MAX	729	1,440	3,030	4,400	1,030	2,010	1,950	1,590	3,680	1,450	900	1,370
MIN	203	203	474	634	515	263	175	131	350	431	586	609
MEAN≠	405	1,008	1,783	2,573	902	1,186	1,247	950	1,505	274	115	242
CFSM≠	.93	2.31	4.09	5.90	2.07	2.72	2.86	2.18	3.45	.63	.26	.56
IN.≠	1.07	2.58	4.72	6.80	2.16	3.14	3.19	2.51	3.85	.73	.30	.62

CAL YR 1973 TOTAL 328,174 MEAN 899 MAX 4,670 MIN 196 MEAN≠ 926 CFSM≠ 2.12 IN.≠ 28.82
WTR YR 1974 TOTAL 358,361 MEAN 982 MAX 4,400 MIN 131 MEAN≠ 1,017 CFSM≠ 2.33 IN.≠ 31.67

≠ Adjusted for change in contents in Deep Creek Reservoir and Youghiogheny River Lake. Records for Deep Creek Reservoir furnished by Pennsylvania Electric Co.

03078000 Casselman River at Grantsville, Md.

LOCATION.--Lat 39°42'08", long 79°08'12", Garrett County, on left bank at downstream side of highway bridge, 0.3 mi (0.5 km) upstream from Slaubaugh Run, 0.7 mi (1.1 km) downstream from U.S. Highway 40, and 1.0 mi (1.6 km) northeast of Grantsville.

DRAINAGE AREA.--62.5 mi^2 (161.9 km^2).

PERIOD OF RECORD.--July 1947 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,089.03 ft (636.736 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--27 years, 117 ft^3/s (3.313 m^3/s), 25.42 in/yr (646 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,160 ft^3/s (61.2 m^3/s) Jan. 11, gage height, 5.18 ft (1.579 m); minimum, 3.6 ft^3/s (0.10 m^3/s) Sept. 30, gage height, 1.07 ft (0.326 m).
Period of record: Maximum discharge, 8,400 ft^3/s (238 m^3/s) Oct. 15, 1954, gage height, 10.70 ft (3.261 m), from rating curve extended above 1,600 ft^3/s (73.6 m^3/s) on basis of contracted-opening measurement at gage height 8.13 ft (2.478 m); no flow Aug. 31, 1962, result of regulation from unknown source.

REMARKS.--Records good except those for winter periods, which are fair. Records of water quality for the current water year are published in Part 2 of Water Resources Data for Maryland and Delaware.

REVISIONS (WATER YEARS).--WSP 1143: 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	231	184	280	105	164	158	47	375	132	13	16
2	106	169	150	209	104	198	216	44	395	82	10	16
3	72	124	132	261	107	195	175	124	272	63	10	14
4	47	101	120	482	90	152	390	112	175	57	10	15
5	38	97	235	261	80	149	300	75	132	108	10	12
6	32	90	280	206	103	148	214	68	103	70	9.0	11
7	27	77	166	171	127	174	174	62	86	54	8.3	33
8	39	74	134	138	120	157	181	57	77	46	8.5	24
9	108	85	137	174	93	137	317	66	69	39	9.2	14
10	69	74	129	584	87	225	222	62	58	36	8.8	11
11	49	68	112	1,680	81	167	191	53	54	38	8.3	9.2
12	42	66	106	738	97	152	160	147	49	30	8.3	8.1
13	36	75	102	383	98	136	264	181	44	26	10	8.6
14	33	78	124	269	129	114	249	103	38	22	8.2	18
15	31	70	108	246	96	104	214	83	38	22	6.1	14
16	38	168	96	242	83	110	160	74	56	22	9.9	9.2
17	36	127	73	210	80	109	134	124	64	19	63	7.6
18	30	100	99	170	79	95	115	517	43	17	25	6.6
19	27	109	111	220	77	127	103	242	33	17	16	5.7
20	25	100	113	245	167	118	90	172	43	29	11	5.2
21	25	87	291	385	129	213	82	132	69	17	8.6	5.7
22	21	85	193	326	233	218	74	110	127	13	8.6	7.2
23	20	78	184	235	218	155	78	132	594	18	9.8	6.6
24	19	114	128	201	152	134	75	120	460	58	8.1	5.2
25	17	134	121	178	138	110	72	92	246	30	6.6	4.8
26	17	136	540	155	118	103	63	78	181	21	6.2	4.8
27	16	198	1,080	149	118	95	56	69	124	18	5.7	4.4
28	22	644	545	147	108	86	51	62	103	15	7.7	4.4
29	660	370	345	183	------	89	47	110	103	15	9.9	4.8
30	355	231	415	140	------	135	44	157	82	27	19	4.4
31	190	------	305	122	------	219	------	139	------	18	26	------
TOTAL	2,289	4,160	6,858	9,390	3,217	4,488	4,669	3,614	4,293	1,179	378.8	310.5
MEAN	73.8	139	221	303	115	145	156	117	143	38.0	12.2	10.4
MAX	660	644	1,080	1,680	233	225	390	517	594	132	63	33
MIN	16	66	73	122	77	86	44	44	33	13	5.7	4.4
CFSM	1.18	2.22	3.54	4.85	1.84	2.32	2.50	1.87	2.29	.61	.20	.17
IN.	1.36	2.48	4.08	5.59	1.91	2.67	2.78	2.15	2.56	.70	.23	.18

CAL YR 1973 TOTAL 46,068.0 MEAN 126 MAX 1,080 MIN 5.2 CFSM 2.02 IN 27.42
WTR YR 1974 TOTAL 44,846.3 MEAN 123 MAX 1,680 MIN 4.4 CFSM 1.97 IN 26.69

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-29	1430	3.75	1,000	1-11	1245	5.18	2,160
12-26	2300	4.25	1,380				

03079000 Casselman River at Markleton, Pa.

LOCATION.--Lat 39°51'35", long 79°13'40", Somerset County, on right bank at downstream side of highway bridge at Markleton, 2 mi (3 km) southwest of Casselman, and 7 mi (11 km) downstream from Coxes Creek.

DRAINAGE AREA.--382 mi^2 (989 km^2).

PERIOD OF RECORD.--August to September 1913 (gage heights and discharge measurement only), October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305. October 1913 to September 1920 (gage heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania.

GAGE.--Water-stage recorder. Datum of gage is 1,655.29 ft (504.532 m) above mean sea level, adjustment of 1907. Prior to Nov. 19, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--54 years (1920-74), 651 ft^3/s (18.44 m^3/s), 23.14 in/yr (588 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,700 ft^3/s (416 m^3/s) Jan. 11 (gage height, 8.93 ft or 2.722 m); minimum, 40 ft^3/s (1.13 m^3/s) Aug. 27 (gage height, 1.04 ft or 0.317 m).
Period of record: Maximum discharge, 50,000 ft^3/s (1,420 m^3/s), estimated, Oct. 15, 1954 (gage height, 14.06 ft or 4.285 m), on basis of summation of peak flows at nearby stations; minimum, 10 ft^3/s (0.28 m^3/s) Sept. 9, 1957; minimum gage height, 0.85 ft (0.259 m) Sept. 30, Oct. 1, 1968.

REMARKS.--Records good. Slight diversion above station to city of Frostburg, Md., in the Potomac River basin.

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1305: 1923-31. WSP 1435: 1932-34, 1935(M), 1936-38. WSP 1625: 1924(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	1,380	1,070	1,500	682	747	785	273	2,380	3,560	100	98
2	355	1,100	862	1,170	632	822	1,030	253	1,810	1,500	86	133
3	508	800	742	1,170	639	940	992	350	1,550	944	142	252
4	330	623	646	2,410	540	916	1,060	472	1,080	704	112	190
5	258	553	870	1,480	418	1,220	1,500	347	833	960	100	105
6	214	534	1,390	1,170	435	946	1,070	304	651	936	84	82
7	181	437	838	985	521	873	936	289	535	586	75	108
8	177	390	677	758	544	744	856	263	455	459	69	133
9	288	395	742	855	423	628	1,220	276	407	380	71	100
10	311	370	815	3,280	388	585	1,100	288	349	330	98	80
11	241	326	693	11,200	381	631	952	252	319	345	88	71
12	206	307	580	5,510	381	579	824	673	287	270	73	65
13	184	311	601	2,440	428	800	840	1,270	258	222	75	73
14	170	321	792	1,680	603	680	1,280	728	223	194	69	244
15	157	307	709	1,470	488	616	1,110	552	256	218	61	149
16	157	758	601	1,510	417	624	896	462	576	194	56	100
17	160	758	489	1,410	398	600	792	409	656	160	63	80
18	145	547	380	1,160	345	518	664	1,510	368	139	139	67
19	139	495	534	1,300	385	545	586	1,130	261	133	88	61
20	139	470	646	1,550	548	570	512	883	229	142	73	56
21	130	416	1,860	2,520	576	949	470	669	359	127	61	71
22	125	395	1,230	2,370	755	1,270	442	559	472	108	54	88
23	119	360	993	1,650	1,080	889	512	778	4,180	112	52	84
24	114	395	854	1,330	771	762	442	745	3,800	194	52	69
25	106	638	758	1,110	717	607	402	548	1,780	194	47	58
26	99	661	2,510	946	810	568	358	459	1,250	133	43	54
27	96	1,070	6,630	907	753	514	321	403	889	142	42	50
28	96	3,410	3,730	887	777	462	291	353	709	127	50	56
29	3,320	2,270	2,200	1,230	------	461	269	522	866	110	58	67
30	2,890	1,410	2,160	923	------	524	253	986	621	164	110	71
31	1,370	------	1,640	790	------	957	------	777	------	136	136	------
TOTAL	13,047	22,207	39,242	58,671	15,835	22,547	22,765	17,783	28,409	13,923	2,427	2,915
MEAN	421	740	1,266	1,893	566	727	759	574	947	449	78.3	97.2
MAX	3,320	3,410	6,630	11,200	1,080	1,270	1,500	1,510	4,180	3,560	142	252
MIN	96	307	380	758	345	461	253	252	223	108	42	50
CFSM	1.10	1.94	3.31	4.96	1.48	1.90	1.99	1.50	2.48	1.18	.21	.25
IN.	1.27	2.16	3.82	5.71	1.54	2.20	2.22	1.73	2.77	1.36	.24	.28

CAL YR 1973 TOTAL 258,177 MEAN 707 MAX 6,630 MIN 49 CFSM 1.85 IN 25.14
WTR YR 1974 TOTAL 259,771 MEAN 712 MAX 11,200 MIN 42 CFSM 1.86 IN 25.30

PEAK DISCHARGE (BASE, 8,000 CFS).--Jan. 11 (1400) 14,700 cfs (8.93 ft).

03080000 Laurel Hill Creek at Ursina, Pa.

LOCATION.--Lat 39°49'17", long 79°19'16", Somerset County, on right bank 500 ft (150 m) downstream from bridge on State Highway 53, at Ursina, and 2.7 mi (4.3 km) upstream from mouth.

DRAINAGE AREA.--121 mi^2 (313 km^2).

PERIOD OF RECORD.--August to September 1913 (gage heights and discharge measurement only). October 1918 to current year. Monthly discharge only for some periods, published in WSP 1305. October 1913 to September 1918 (gage heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 1,335.26 ft (406.987 m) above mean sea level, unadjusted. Prior to July 18, 1939, nonrecording gage at bridge 0.5 mi (0.8 km) downstream at datum 6.20 ft (1.890 m) lower.

AVERAGE DISCHARGE.--56 years (1918-74), 265 ft^3/s (7.505 m^3/s), 29.74 in/yr (755 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,820 ft^3/s (193 m^3/s) Jan. 11 (gage height, 7.44 ft or 2.268 m); minimum, 14 ft^3/s (0.40 m^3/s) Aug. 25, 26, 27 (gage height, 0.82 ft or 0.250 m).
Period of record: Maximum discharge, 10,900 ft^3/s (309 m^3/s) Oct. 15, 1954 (gage height, 10.63 ft or 3.240 m), from rating curve extended above 6,100 ft^3/s (170 m^3/s) on basis of slope-area measurement of peak flow; minimum, 2.2 ft^3/s (0.062 m^3/s) Sept. 26, 1932.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 893: 1919-21, 1932-34. WSP 1305: 1922-31. WSP 1435: 1919-20. WSP 1625: 1932 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	610	409	500	288	343	288	179	880	886	43	56
2	107	507	320	385	256	381	431	150	620	455	37	138
3	174	346	268	393	242	425	498	247	455	288	46	392
4	105	255	231	736	202	376	709	251	343	215	46	381
5	77	203	226	506	166	370	636	211	260	398	48	179
6	65	176	224	401	211	354	485	197	206	455	41	118
7	56	139	171	327	184	343	403	179	166	282	33	115
8	54	120	142	284	193	365	365	154	134	206	30	93
9	65	122	193	260	162	376	467	166	118	154	31	75
10	68	109	255	729	150	564	431	154	100	130	43	65
11	54	96	217	4,060	142	473	409	127	95	158	33	58
12	48	90	208	2,430	179	409	365	790	85	109	28	56
13	42	94	201	1,020	154	337	420	1,020	75	95	28	68
14	37	97	294	620	188	271	473	564	65	93	27	348
15	37	92	267	511	162	233	431	409	68	106	23	220
16	39	399	227	492	154	271	359	315	170	103	21	146
17	42	394	192	455	146	288	299	260	251	80	24	112
18	36	284	180	381	142	238	256	321	142	68	21	93
19	31	242	195	449	134	242	224	266	90	65	20	83
20	28	207	257	571	193	242	188	220	80	75	19	73
21	26	178	971	799	188	557	162	179	146	58	18	83
22	25	163	682	880	247	745	150	162	271	43	17	88
23	25	141	483	613	381	505	348	403	1,550	46	15	88
24	25	165	381	492	299	409	315	387	1,500	100	17	73
25	23	269	318	392	293	315	271	293	799	70	15	61
26	21	352	664	332	266	266	238	242	498	49	14	58
27	20	506	1,620	326	242	233	211	206	348	43	15	51
28	21	1,210	1,290	337	211	197	193	166	256	37	19	51
29	903	907	838	524	------	188	175	326	242	53	20	63
30	954	567	797	403	------	206	154	537	188	90	73	80
31	532	------	598	348	------	304	------	431	------	65	78	------
TOTAL	3,812	9,040	13,319	20,956	5,775	10,826	10,354	9,512	10,201	5,075	943	3,565
MEAN	123	301	430	676	206	349	345	307	340	164	30.4	119
MAX	954	1,210	1,620	4,060	381	745	709	1,020	1,550	886	78	392
MIN	20	90	142	260	134	188	150	127	65	37	14	51
CFSM	1.02	2.49	3.55	5.59	1.70	2.88	2.85	2.54	2.81	1.36	.25	.98
IN.	1.17	2.78	4.09	6.44	1.78	3.33	3.18	2.92	3.14	1.56	.29	1.10

CAL YR 1973 TOTAL 90,637.5 MEAN 248 MAX 2,000 MIN 6.3 CFSM 2.05 IN 27.87
WTR YR 1974 TOTAL 103,378.0 MEAN 283 MAX 4,060 MIN 14 CFSM 2.34 IN 31.78

PEAK DISCHARGE (BASE, 3,000 CFS).--Jan. 11 (Unknown) 6,820 cfs (7.44 ft).

03081000 Youghiogheny River below Confluence, Pa.

LOCATION.--Lat 39°49'39", long 79°22'22", Fayette County, on left bank 1.0 mi (1.6 km) downstream from Casselman River, 1.5 mi (2.4 km) northwest of Confluence, and at mile 72.0 (115.8 km).

DRAINAGE AREA.--1,029 mi^2 (2,665 km^2).

PERIOD OF RECORD.--June 1940 to current year. Monthly discharge only for June 1940, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,302.77 ft (397.084 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--34 years, 1,957 ft^3/s (55.42 m^3/s), 25.83 in/yr (656 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 22,500 ft^3/s (637 m^3/s) Jan. 11 (gage height, 11.69 ft or 3.563 m); minimum daily, 614 ft^3/s (17.4 m^3/s) July 22.

Period of record: Maximum discharge, 69,500 ft^3/s (1,970 m^3/s) Oct. 15, 1954 (gage height, 19.92 ft or 6.072 m), from rating curve extended above 25,000 ft^3/s (710 m^3/s) on basis of slope-area measurement of peak flow; minimum, 40 ft^3/s (1.13 m^3/s) Oct. 14, 1943 (gage height, 0.31 ft or 0.094 m); minimum daily, 121 ft^3/s (3.43 m^3/s) Sept. 27, 1943.

Flood of Mar. 17 or 18, 1936, reached a stage of 21.6 ft (6.584 m) from floodmarks (discharge, 85,000 ft^3/s or 2,410 m^3/s).

REMARKS.--Records good. Flow regulated since 1925 by Deep Creek Reservoir and since 1943 by Youghiogheny River Lake 1 mi (2 km) upstream (see p. 270).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	962	2,530	4,420	4,500	2,270	2,740	1,570	638	4,400	6,510	1,140	805
2	1,040	2,190	4,470	3,960	2,160	3,470	1,900	615	4,400	3,650	1,100	906
3	1,300	1,600	4,220	3,870	2,160	3,360	2,080	1,360	5,460	2,600	1,140	1,250
4	853	1,300	4,030	5,400	2,000	2,500	2,680	2,500	5,390	2,160	1,150	1,320
5	876	1,150	3,250	4,130	1,790	2,080	3,250	2,320	4,920	2,370	987	965
6	1,030	1,090	3,020	4,100	1,750	2,090	3,290	1,590	3,110	2,760	763	1,120
7	975	1,070	2,230	3,780	1,900	2,180	2,950	1,000	1,770	2,040	738	1,610
8	954	1,180	1,970	3,380	1,990	2,030	2,740	945	1,720	1,540	723	1,490
9	1,060	1,180	2,060	3,470	1,800	2,280	3,630	967	1,630	1,100	725	992
10	1,150	1,140	2,280	6,300	1,710	2,980	3,940	971	1,530	1,010	742	760
11	1,050	1,070	2,090	17,800	1,690	2,660	3,710	904	1,470	1,040	762	734
12	996	1,030	1,910	10,800	1,480	2,420	3,180	1,980	1,430	918	733	721
13	955	1,030	1,940	6,130	1,280	2,200	2,930	3,200	1,380	819	722	743
14	928	1,050	2,340	5,750	1,490	1,980	3,440	2,050	1,330	764	713	1,200
15	908	1,030	2,240	5,860	1,400	1,820	3,300	1,670	1,340	770	698	1,060
16	904	1,800	2,040	6,260	1,290	1,880	2,940	1,450	1,740	785	687	891
17	912	2,000	1,900	6,580	1,270	1,880	2,690	1,490	2,070	713	709	816
18	885	1,580	1,630	6,180	1,190	1,740	2,490	3,140	1,390	669	753	771
19	861	1,650	1,750	4,710	1,230	1,570	2,350	2,720	874	659	742	749
20	858	1,820	1,970	3,850	1,350	1,540	2,210	2,730	805	675	707	731
21	845	1,720	4,100	6,140	1,530	2,180	2,100	2,630	961	646	692	751
22	831	1,660	3,050	7,130	1,630	3,120	2,030	2,440	1,310	614	680	795
23	821	1,590	3,250	6,040	2,380	2,310	1,920	2,990	6,470	782	670	781
24	815	1,630	3,420	5,490	1,910	2,010	1,380	2,990	7,560	1,140	669	749
25	802	2,020	3,190	5,070	2,040	1,550	1,260	2,260	4,560	1,130	662	716
26	789	2,170	4,870	4,250	2,060	1,350	1,600	1,870	4,630	1,190	656	703
27	775	2,850	10,900	3,500	1,980	1,220	2,270	1,520	5,550	1,420	657	696
28	778	6,210	7,200	3,430	2,070	1,120	1,730	1,020	5,070	1,170	678	701
29	4,240	5,110	5,280	4,220	------	1,100	887	1,280	3,540	1,160	683	722
30	5,000	3,980	5,570	3,700	------	1,150	674	2,140	3,260	1,230	740	750
31	2,540	------	4,810	2,880	------	1,700	------	1,760	------	1,220	899	------
TOTAL	37,693	57,430	107,400	168,660	48,800	64,210	73,121	57,140	91,070	45,254	24,120	26,998
MEAN	1,216	1,914	3,465	5,441	1,743	2,071	2,437	1,843	3,036	1,460	778	900
MAX	5,000	6,210	10,900	17,800	2,380	3,470	3,940	3,200	7,560	6,510	1,150	1,610
MIN	775	1,030	1,630	2,880	1,190	1,100	674	615	805	614	656	696
MEAN≠	987	2,272	3,858	5,642	1,833	2,511	2,677	2,064	3,139	1,036	246	470
CFSM≠	.96	2.21	3.75	5.48	1.78	2.44	2.60	2.01	3.05	1.01	.24	.46
IN.≠	1.11	2.47	4.32	6.32	1.85	2.81	2.90	2.32	3.40	1.16	.28	.51

CAL YR 1973 TOTAL 753,069 MEAN 2,063 MAX 10,900 MIN 598 MEAN≠ 2,090 CFSM≠ 2.03 IN.≠ 27.58
WTR YR 1974 TOTAL 801,896 MEAN 2,197 MAX 17,800 MIN 614 MEAN≠ 2,232 CFSM≠ 2.17 IN.≠ 29.45

≠ Adjusted for change in contents in Deep Creek Reservoir and Youghiogheny River Lake. Records of contents in Deep Creek Reservoir furnished by Pennsylvania Electric Co.

03082200 Poplar Run near Normalville, Pa.

LOCATION.--Lat 40°00'59", long 79°25'33", Fayette County, on right bank at downstream side of bridge on State Highways 711 and 381, 0.7 mi (1.1 km) upstream from mouth, 1.8 mi (2.9 km) northeast of Normalville, and 7 mi (11 km) southwest of Donegal.

DRAINAGE AREA.--9.27 mi^2 (24.01 km^2).

PERIOD OF RECORD.--Sept. 1961 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 1,408.26 ft (429.238 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 19.0 ft^3/s (0.538 m^3/s), 27.83 in/yr (707 mm/yr).

EXTREMES.--Current year: Maximum discharge, 804 ft^3/s (22.8 m^3/s) Jan. 11 (gage height, 5.64 ft or 1.719 m); minimum daily, 0.84 ft^3/s (0.024 m^3/s) Oct. 27.
Period of record: Maximum discharge, 1,890 ft^3/s (53.5 m^3/s) Sept. 14, 1971 (gage height, 8.37 ft or 2.551 m), from rating curve extended above 480 ft^3/s (14 m^3/s) on basis of slope-area measurement at gage height 6.05 ft (1.844 m); no flow July 30, 31, Aug. 16-20, Sept. 11, 1965, Aug. 7, 9, 1966.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	37	20	26	16	30	24	17	71	14	2.5	23
2	7.7	20	15	20	15	30	42	13	35	7.8	3.3	15
3	4.6	13	13	32	13	27	36	26	23	6.0	2.5	45
4	3.3	9.4	13	47	11	22	80	20	18	5.3	3.7	26
5	2.7	8.2	14	29	9.4	24	48	17	14	8.7	2.9	13
6	2.1	7.0	11	23	9.0	22	35	15	11	12	2.1	8.7
7	1.7	5.4	9.1	19	14	20	27	13	8.7	6.3	1.9	7.8
8	1.8	4.9	8.5	16	11	18	23	11	6.9	5.3	1.7	5.7
9	1.6	7.0	18	20	10	24	33	11	5.7	4.3	1.8	4.7
10	1.5	5.1	20	150	9.0	49	32	9.0	5.5	10	1.9	4.7
11	1.5	4.4	18	444	8.7	32	32	8.1	4.7	15	1.8	4.3
12	1.4	4.6	16	117	8.4	25	25	180	4.7	6.9	1.6	6.3
13	1.4	4.9	37	52	9.0	20	29	85	3.9	5.1	1.6	23
14	1.3	4.6	76	35	9.4	16	26	40	3.3	4.1	1.6	58
15	1.4	13	38	29	8.1	14	22	27	11	6.0	1.3	20
16	1.7	57	27	24	7.8	26	19	20	24	4.3	1.2	12
17	1.5	23	22	20	7.5	24	16	16	21	3.3	1.3	8.7
18	1.3	16	18	17	6.9	19	14	27	10	2.7	1.4	7.2
19	1.1	14	14	49	7.5	19	12	19	7.2	4.5	1.2	5.7
20	1.1	11	79	38	21	16	10	15	6.6	3.5	1.1	4.7
21	.92	9.4	144	39	15	76	9.0	12	44	2.4	1.0	9.4
22	1.1	8.4	52	33	25	49	11	13	42	2.2	1.0	9.0
23	1.0	7.0	34	32	24	32	54	49	279	9.4	.90	9.4
24	1.2	9.4	24	32	19	24	26	29	109	8.4	.96	6.6
25	1.1	35	26	24	18	19	22	20	52	4.5	.90	5.7
26	1.1	30	129	21	17	16	19	16	30	3.5	.85	5.3
27	.84	31	127	20	15	14	16	13	21	2.9	.90	4.5
28	.92	93	61	23	14	12	14	10	15	2.7	1.6	3.9
29	66	43	38	27	------	13	12	24	12	5.5	1.3	8.4
30	25	28	33	22	------	15	11	28	9.4	7.5	11	7.2
31	25	------	30	19	------	29	------	42	------	3.5	5.5	------
TOTAL	167.58	563.7	1,184.6	1,499	358.7	776	779.0	845.1	908.6	187.6	64.31	372.9
MEAN	5.41	18.8	38.2	48.4	12.8	25.0	26.0	27.3	30.3	6.05	2.07	12.4
MAX	66	93	144	444	25	76	80	180	279	15	11	58
MIN	.84	4.4	8.5	16	6.9	12	9.0	8.1	3.3	2.2	.85	3.9
CFSM	.58	2.03	4.12	5.22	1.38	2.70	2.80	2.95	3.27	.65	.22	1.34
IN.	.67	2.26	4.75	6.02	1.44	3.11	3.13	3.39	3.65	.75	.26	1.50

CAL YR 1973 TOTAL 6,938.57 MEAN 19.0 MAX 276 MIN .30 CFSM 2.05 IN 27.84
WTR YR 1974 TOTAL 7,707.09 MEAN 21.1 MAX 444 MIN .84 CFSM 2.28 IN 30.93

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0700	5.64	804	6-23	1345	4.91	548
5-12	1430	4.65	458				

03082500 Youghiogheny River at Connellsville, Pa.

LOCATION.--Lat 40°01'03", long 79°35'38", Fayette County, on left bank at downstream side of Crawford Avenue Bridge at Connellsville, 1.2 mi (1.9 km) upstream from Mounts Creek, and at mile 44.0 (70.8 km).

DRAINAGE AREA.--1,326 mi^2 (3,434 km^2).

PERIOD OF RECORD.--July 1908 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 860.13 ft (262.168 m) above mean sea level. Prior to Aug. 15, 1928, nonrecording gage, and Aug. 15, 1928, to July 7, 1958, water-stage recorder at same site and datum. July 8, 1958, to Sept. 8, 1959, nonrecording gage at site 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--66 years, 2,540 ft^3/s (71.93 m^3/s), 26.01 in/yr (661 mm/yr), adjusted for storage since August 1925.

EXTREMES.--Current year: Maximum discharge, 36,100 ft^3/s (1,022 m^3/s) Jan. 11 (gage height, 13.82 ft or 4.212 m); minimum, 668 ft^3/s (18.9 m^3/s) Aug. 27, (gage height, 2.16 ft or 0.658 m).
Period of record: Maximum discharge, 103,000 ft^3/s (2,920 m^3/s) Oct. 16, 1954 (gage height, 21.96 ft or 6.693 m), from rating curve extended above 55,000 ft^3/s (1,600 m^3/s); minimum, 11 ft^3/s (0.31 m^3/s) Sept. 23, 26, 27, 1908, Oct. 18, 1910 (gage height, 0.11 ft or 0.034 m).

REMARKS.--Records good. Flow regulated since 1925 by Deep Creek Reservoir and since 1943 by Youghiogheny River Lake 29.4 mi (47.3 km) upstream (see p. 270) and by several smaller reservoirs above station.

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1305: 1912 (M), 1914 (M), 1916-17 (M), 1918, 1922-25, WSP 1435: 1919-20. WSP 1725: 1916, 1932 (monthly, yearly summaries).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,200	3,340	5,090	5,640	3,150	3,220	2,400	1,060	5,840	8,300	1,300	1,170
2	1,190	3,230	5,190	4,940	2,940	4,410	2,580	1,030	5,420	5,420	1,240	1,440
3	1,890	2,380	4,810	4,690	2,900	4,670	3,130	1,310	6,420	3,570	1,230	2,340
4	1,260	1,840	4,560	7,340	2,690	4,340	4,080	3,230	6,300	2,910	1,330	2,770
5	959	1,570	4,220	5,510	2,410	3,450	4,840	3,040	5,580	2,930	1,280	1,710
6	1,240	1,460	3,440	5,230	2,250	3,520	4,640	2,660	4,510	3,890	899	1,300
7	1,150	1,270	2,880	4,670	2,450	3,420	4,060	1,530	2,290	2,900	841	2,000
8	1,140	1,470	2,490	4,130	2,600	2,910	3,720	1,410	2,220	2,400	820	2,000
9	1,150	1,500	2,620	4,130	2,390	3,360	4,510	1,410	2,070	1,550	816	1,420
10	1,310	1,470	3,010	8,010	2,210	4,400	5,170	1,410	1,940	1,490	841	983
11	1,220	1,360	2,820	28,100	2,180	4,240	4,840	1,310	1,840	1,770	844	922
12	1,140	1,280	2,590	17,800	2,090	3,740	4,390	3,860	1,760	1,390	839	898
13	1,090	1,250	2,680	8,980	1,670	3,310	3,900	6,380	1,680	1,180	827	988
14	1,060	1,270	3,930	8,240	1,890	2,910	4,500	3,930	1,590	1,060	817	2,390
15	1,030	1,300	3,610	7,160	1,890	2,620	4,350	2,970	1,560	1,090	774	1,940
16	1,020	2,240	3,140	7,120	1,710	2,740	3,920	2,400	2,240	1,080	753	1,430
17	1,030	3,140	2,870	7,480	1,660	2,950	3,540	2,050	2,660	960	779	1,210
18	1,010	2,420	2,440	6,980	1,580	2,660	3,260	4,360	2,160	865	791	1,080
19	979	2,150	2,360	6,350	1,560	2,550	3,050	3,970	1,200	832	846	1,020
20	959	2,440	2,870	4,710	1,830	2,340	2,850	3,500	1,050	870	788	960
21	949	2,280	7,430	6,690	2,150	3,200	2,670	3,390	1,420	811	752	1,040
22	929	2,180	5,120	8,800	2,210	5,180	2,580	3,110	2,120	752	729	1,170
23	919	2,070	4,500	7,380	3,250	3,820	3,140	4,010	9,090	816	716	1,180
24	919	2,060	4,530	6,750	2,830	3,230	2,340	4,340	12,000	1,420	705	1,060
25	899	2,660	4,150	6,100	2,720	2,720	2,030	3,480	6,730	1,370	702	980
26	879	3,090	6,290	5,380	2,820	2,060	1,870	2,760	5,310	1,230	696	933
27	869	3,810	14,700	4,340	2,600	1,910	2,920	2,500	6,180	1,640	687	897
28	869	7,220	10,000	4,210	2,670	1,720	2,720	1,650	6,240	1,390	748	891
29	3,160	7,420	7,000	5,320	------	1,620	1,490	1,790	4,030	1,370	759	948
30	6,830	5,100	6,980	4,740	------	1,630	1,140	3,040	3,790	1,490	1,060	1,010
31	3,500	------	6,180	4,050	------	2,210	------	2,820	------	1,440	1,160	------
TOTAL	43,749	76,270	144,500	220,970	65,300	97,060	100,630	85,710	117,240	60,186	27,369	40,080
MEAN	1,411	2,542	4,661	7,128	2,332	3,131	3,354	2,765	3,908	1,941	883	1,336
MAX	6,830	7,420	14,700	28,100	3,250	5,180	5,170	6,380	12,000	8,300	1,330	2,770
MIN	869	1,250	2,360	4,050	1,560	1,620	1,140	1,030	1,050	752	687	891
MEAN≠	1,182	2,900	5,054	7,329	2,422	3,571	3,594	2,986	4,011	1,517	351	906
CFSM≠	.89	2.19	3.81	5.53	1.83	2.69	2.71	2.25	3.02	1.14	.26	.68
IN.≠	1.03	2.44	4.39	6.38	1.91	3.10	3.02	2.59	3.37	1.31	.30	.76

CAL YR 1973 TOTAL 991,973 MEAN 2,718 MAX 14,800 MIN 660 MEAN≠ 2,745 CFSM≠ 2.07 IN.≠ 28.09
WTR YR 1974 TOTAL 1,079,064 MEAN 2,956 MAX 28,100 MIN 687 MEAN≠ 2,991 CFSM≠ 2.26 IN.≠ 30.60

≠ Adjusted for change in contents in Deep Creek Reservoir and Youghiogheny River Lake. Records for Deep Creek Reservoir furnished by Pennsylvania Electric Co.

03083000 Green Lick Run at Green Lick Reservoir, Pa.

LOCATION.--Lat 40°06'18", long 79°30'01", Fayette County, on left bank at upstream end of Green Lick Reservoir, 1.4 mi (2.2 km) upstream from Latta Run, and 4 mi (6 km) southeast of Mount Pleasant.

DRAINAGE AREA.--3.07 mi^2 (7.95 km^2).

PERIOD OF RECORD.--August 1941 to current year.

GAGE.--Water-stage recorder and a four V-notch sharp-crested weir. Datum of gage is 1,254.7 ft (382.43 m) above mean sea level (Penn Central Railroad bench mark).

AVERAGE DISCHARGE.--33 years, 5.52 ft^3/s (0.156 m^3/s), 24.42 in/yr (620 mm/yr).

EXTREMES.--Current year: Maximum discharge, 146 ft^3/s (4.13 m^3/s) Jan. 11 (gage height, 2.28 ft or 0.695 m); minimum daily, 0.11 ft^3/s (0.003 m^3/s) Oct. 26, 27.
Period of record: Maximum discharge, 1,400 ft^3/s (39.6 m^3/s) Aug. 13, 1943 (gage height, 5.1 ft or 1.55 m, backwater from debris), by slope-area measurement; maximum gage height, 5.42 ft (1.652 m) May 24, 1944 (backwater from debris); minimum discharge, 0.04 ft^3/s (0.001 m^3/s) Oct. 3, 1957; minimum gage height, 0.10 ft (0.030 m) Oct. 3, 1957, July 28-31, Aug. 5, 6, 16, 17, 18, 1965.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1053: 1943 (m). WSP 1305: 1942 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	
1	.16	8.2	3.4	6.2	3.7	9.2	4.4	3.3	26	4.3	.	
2	.24	2.8	2.8	4.6	3.6	11	6.5	2.7	12	1.9	..	
3	.24	1.5	2.4	8.5	3.3	9.6	5.3	5.9	7.2	1.5	.43	
4	.22	1.3	2.2	13	2.5	7.0	11	4.5	4.7	1.3	.87	..
5	.20	1.1	2.4	7.4	2.2	6.6	12	3.7	3.3	6.2	.63	5.4
6	.16	.75	2.2	6.0	2.0	5.5	8.9	3.6	2.6	7.0	.47	3.5
7	.14	.56	1.6	4.8	3.4	5.0	7.1	3.1	2.1	2.5	.39	3.0
8	.14	.52	1.4	4.2	2.5	5.8	6.2	2.7	1.8	1.8	.39	2.2
9	.14	.56	4.1	6.5	2.2	5.2	9.7	2.6	1.6	1.5	.39	1.7
10	.14	.52	5.0	38	2.0	9.0	9.4	2.3	1.3	7.9	.39	1.4
11	.14	.43	4.2	91	2.0	6.2	9.7	2.1	1.2	8.7	.36	1.2
12	.14	.47	3.7	33	1.8	5.7	7.5	39	1.2	3.9	.36	2.4
13	.14	.56	10	16	2.1	4.4	12	26	1.1	2.9	.39	11
14	.14	.47	23	10	2.1	3.5	10	13	.97	2.3	.36	21
15	.14	2.0	11	8.3	1.8	3.2	7.8	7.7	.96	2.7	.33	7.7
16	.18	11	6.9	7.3	1.7	10	5.8	5.1	5.1	2.1	.21	4.7
17	.14	3.0	5.3	5.9	1.7	9.2	4.6	3.8	5.4	1.7	.24	3.3
18	.14	1.9	4.2	4.7	1.5	6.2	3.8	4.6	1.6	1.5	.21	2.7
19	.14	1.5	3.4	19	1.7	5.5	3.2	3.3	1.2	1.9	.21	2.1
20	.14	1.3	26	15	5.1	4.4	2.7	2.6	1.1	1.6	.19	1.7
21	.14	1.0	43	14	3.3	18	2.4	2.2	7.4	1.3	.17	11
22	.12	.99	17	11	7.2	13	8.3	5.4	4.2	1.2	.17	8.9
23	.12	.85	10	11	6.7	8.5	32	24	43	1.3	.17	7.1
24	.12	.99	6.7	11	4.8	6.2	14	15	22	1.1	.15	4.7
25	.12	17	7.9	7.6	4.3	4.2	9.8	8.3	9.8	.67	.15	3.7
26	.11	7.4	37	6.2	3.3	3.6	6.9	5.5	5.6	.59	.15	3.1
27	.11	5.5	28	6.4	3.0	3.0	5.2	4.0	3.7	.51	.63	2.4
28	.12	17	15	7.6	3.5	2.7	4.2	3.0	2.7	.47	2.4	2.0
29	10	7.9	9.4	8.2	------	2.7	3.5	7.5	2.3	.55	.71	3.3
30	3.5	4.8	6.9	6.0	------	3.0	3.1	8.6	1.9	.87	12	2.4
31	4.3	------	6.7	4.8	------	5.3	------	13	------	.51	3.2	------
TOTAL	21.98	103.87	312.8	403.2	85.0	202.4	237.0	238.1	185.03	74.27	27.54	168.1
MEAN	.71	3.46	10.1	13.0	3.04	6.53	7.90	7.68	6.17	2.40	.89	5.60
MAX	10	17	43	91	7.2	18	32	39	43	8.7	12	21
MIN	.11	.43	1.4	4.2	1.5	2.7	2.4	2.1	.96	.47	.15	1.2
CFSM	.23	1.13	3.29	4.23	.99	2.13	2.57	2.50	2.01	.78	.29	1.82
IN.	.27	1.26	3.79	4.89	1.03	2.45	2.87	2.89	2.24	.90	.33	2.04

CAL YR 1973 TOTAL 1,948.18 MEAN 5.34 MAX 55 MIN .11 CFSM 1.74 IN 23.61
WTR YR 1974 TOTAL 2,059.29 MEAN 5.64 MAX 91 MIN .11 CFSM 1.84 IN 24.95

PEAK DISCHARGE (BASE, 100 CFS).--Jan. 11 (0645) 146 cfs (2.28 ft).

03083500 Youghiogheny River at Sutersville, Pa.

LOCATION.--Lat 40°14'24", long 79°48'24", Allegheny County, on left bank 500 ft (150 m) upstream from highway bridge at Sutersville, 2.1 mi (3.4 km) downstream from Sewickley Creek, and at mile 15.2 (24.5 km).

DRAINAGE AREA.--1,715 mi^2 (4,442 km^2).

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 733.36 ft (223.528 m) above mean sea level. Prior to June 1, 1939, nonrecording gage at site 500 ft (150 m) downstream at same datum.

AVERAGE DISCHARGE.--54 years, 2,979 ft^3/s (84.37 m^3/s), 23.59 in/yr (599 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 47,300 ft^3/s (1,340 m^3/s) Jan. 11 (gage height, 19.96 ft or 6.084 m); minimum, 760 ft^3/s (21.5 m^3/s) Aug. 22, 27 (gage height, 3.01 ft or 0.917 m).
Period of record: Maximum discharge, 108,000 ft^3/s (3,060 m^3/s) Oct. 16, 1954 (gage height, 32.5 ft or 9.91 m, from floodmark); minimum observed, 57 ft^3/s (1.61 m^3/s) Sept. 29, 30, 1922.

REMARKS.--Records good. Flow regulated since 1925 by Deep Creek Reservoir and since 1943 by Youghiogheny River Lake 58 mi (93 km) upstream (see p. 270) and by several smaller reservoirs above station.

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1305: 1924, 1926 (M), 1931 (M). WSP 1435: 1935-36.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,400	3,470	5,110	6,320	3,810	3,280	2,960	1,490	6,070	8,180	1,460	2,020
2	1,230	3,620	5,460	5,600	3,460	4,800	3,010	1,370	6,410	7,850	1,350	3,280
3	1,620	2,700	5,020	5,110	3,360	5,370	3,810	1,430	6,820	4,320	1,330	3,290
4	1,660	2,070	4,710	8,110	3,150	5,130	5,180	2,770	6,910	3,350	1,380	4,590
5	1,390	1,690	4,550	6,620	2,820	4,220	6,540	3,300	6,110	3,010	1,440	2,820
6	1,130	1,520	3,650	5,910	2,570	4,050	5,870	3,090	5,480	4,040	1,230	1,920
7	1,210	1,400	3,210	5,310	2,950	3,950	5,220	2,100	2,880	3,380	986	1,940
8	1,140	1,350	2,610	4,660	3,050	3,550	4,590	1,660	2,410	2,690	960	2,270
9	1,130	1,460	2,640	4,500	2,870	3,870	5,130	1,580	2,270	2,000	1,000	1,950
10	1,190	1,470	3,360	8,580	2,580	4,800	6,290	1,600	2,110	1,750	1,060	1,440
11	1,260	1,390	3,210	33,400	2,510	5,240	5,750	1,510	1,980	2,750	985	1,160
12	1,160	1,310	2,870	30,100	2,440	4,480	5,370	3,990	1,920	1,920	985	1,380
13	1,110	1,250	2,930	11,400	2,160	3,950	5,260	9,090	1,820	1,510	1,310	1,690
14	1,070	1,260	5,380	8,370	2,030	3,440	5,750	5,560	1,700	1,310	1,050	3,600
15	1,030	1,280	4,800	8,150	2,220	3,080	5,420	3,860	1,650	1,360	970	3,120
16	1,030	1,920	3,890	7,690	2,030	3,280	4,840	3,060	2,180	1,310	912	2,160
17	1,020	3,270	3,350	8,110	1,920	3,780	4,270	2,570	2,820	1,180	946	1,680
18	1,020	2,640	2,950	7,650	1,850	3,360	3,840	4,750	2,570	1,050	933	1,460
19	989	2,200	2,640	8,200	1,760	3,130	3,570	5,220	1,680	1,050	936	1,320
20	960	2,320	2,760	6,290	2,070	2,880	3,300	4,050	1,230	1,040	919	1,280
21	950	2,300	8,350	6,660	2,350	3,910	3,050	3,850	1,490	995	874	2,690
22	940	2,170	7,010	9,990	2,540	6,850	2,960	3,520	2,280	928	831	2,990
23	920	2,070	5,220	8,480	3,440	5,200	4,550	4,080	6,680	1,030	813	2,130
24	920	1,990	5,070	7,760	3,440	4,180	3,630	5,250	16,300	1,500	795	1,760
25	910	2,670	4,640	6,950	3,100	3,500	2,820	4,200	8,390	1,570	788	1,490
26	890	3,620	5,420	6,390	3,160	2,730	2,470	3,240	5,890	1,430	782	1,370
27	880	3,820	14,100	5,160	2,950	2,500	2,940	2,840	6,610	1,480	773	1,270
28	880	6,460	12,500	4,860	2,960	2,250	3,220	2,240	6,700	1,640	927	1,230
29	1,430	8,630	8,130	6,030	------	2,150	2,360	2,010	4,810	1,520	962	1,390
30	7,490	5,710	7,380	5,730	------	2,160	1,680	3,130	4,170	1,730	1,730	1,420
31	4,280	------	6,980	5,050	------	2,410	------	3,390	------	1,600	2,450	------
TOTAL	44,239	79,030	159,900	263,140	75,550	117,480	125,650	101,800	130,340	70,473	33,867	62,110
MEAN	1,427	2,634	5,158	8,488	2,698	3,790	4,188	3,284	4,345	2,273	1,092	2,070
MAX	7,490	8,630	14,100	33,400	3,810	6,850	6,540	9,090	16,300	8,180	2,450	4,590
MIN	880	1,250	2,610	4,500	1,760	2,150	1,680	1,370	1,230	928	773	1,160
MEAN≠	1,198	2,992	5,551	8,689	2,788	4,230	4,428	3,505	4,448	1,849	560	1,640
CFSM≠	.70	1.74	3.24	5.07	1.63	2.47	2.58	2.04	2.59	1.08	.33	.96
IN.≠	.81	1.94	3.74	5.85	1.70	2.85	2.88	2.35	2.89	1.25	.38	1.07

CAL YR 1973 TOTAL 1,126,141 MEAN 3,085 MAX 18,800 MIN 742 MEAN≠ 3,112 CFSM≠ 1.81 IN.≠ 24.61
WTR YR 1974 TOTAL 1,263,579 MEAN 3,462 MAX 33,400 MIN 773 MEAN≠ 3,497 CFSM≠ 2.04 IN.≠ 27.71

≠ Adjusted for change in contents in Deep Creek Reservoir and Youghiogheny River Lake. Records of contents in Deep Creek Reservoir furnished by Pennsylvania Electric Co.

03084000 Abers Creek near Murrysville, Pa.

LOCATION.--Lat 40°27'01", long 79°42'50", Allegheny County, on right bank at downstream side of highway bridge, 30 ft (9 m) upstream from small tributary, 2 mi (3 km) northwest of Murrysville, and 5 mi (8 km) northwest of Export.

DRAINAGE AREA.--4.39 mi^2 (11.37 km^2).

PERIOD OF RECORD.--October 1948 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 936.73 ft (285.515 m) above mean sea level (Pennsylvania Department of Transportation bench mark). Prior to Oct. 1, 1950, water-stage recorder at site 800 ft (240 m) upstream at different datum.

AVERAGE DISCHARGE.--26 years, 5.15 ft^3/s (0.146 m^3/s), 15.93 in/yr (405 mm/yr).

EXTREMES.--Current year: Maximum discharge, 640 ft^3/s (18.1 m^3/s) June 30 (gage height, 5.46 ft or 1.664 m); minimum daily, 0.50 ft^3/s (0.014 m^3/s) Nov. 14, Aug. 22.
Period of record: Maximum discharge, 1,600 ft^3/s (45.3 m^3/s) July 5, 1950 (gage height, 7.72 ft or 2.353 m, from floodmarks at present site), from rating curve extended above 910 ft^3/s (26 m^3/s) on basis of contracted-opening measurement of peak flow; no flow at times during some years.

REMARKS.--Records good except those for periods of ice effect or no gage-height record, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	18	8.0	3.2	5.4	14	5.8	2.9	14	48	1.5	13
2	3.2	12	6.0	2.8	5.8	15	18	1.9	6.7	11	1.3	3.6
3	1.8	7.0	4.9	2.4	4.4	10	9.0	3.6	4.4	7.2	3.3	25
4	4.5	4.0	3.7	2.1	3.8	7.8	7.8	2.1	3.3	4.7	2.5	6.2
5	3.3	2.5	4.0	1.8	6.2	9.4	11	1.8	2.7	5.0	1.4	3.3
6	1.6	1.5	3.6	1.5	11	7.2	7.2	1.8	2.2	3.1	.84	2.2
7	1.2	1.2	3.2	1.4	14	6.2	5.4	1.5	1.9	2.4	.66	1.9
8	.95	.95	3.0	2.5	6.2	22	6.2	1.4	2.1	2.2	3.1	1.6
9	.95	.80	16	5.0	5.7	47	9.0	1.8	1.9	1.9	1.4	1.4
10	.95	.70	11	14	5.0	27	6.2	1.4	1.9	6.2	1.0	1.3
11	.87	.62	7.0	29	4.3	14	5.0	1.3	1.6	2.7	.78	1.2
12	.87	.58	5.6	11	3.6	10	4.7	33	1.8	1.9	.93	1.2
13	1.2	.54	17	10	3.6	6.7	6.7	12	1.3	1.5	.78	9.6
14	1.3	.50	17	5.5	3.1	5.0	5.0	5.8	1.2	1.4	.55	4.1
15	1.8	2.5	8.0	11	2.7	5.4	4.4	3.8	6.7	3.8	.66	2.0
16	1.5	12	5.4	10	3.1	16	3.8	2.9	9.6	1.5	.78	1.6
17	1.5	7.0	4.0	7.6	2.5	9.0	3.3	15	4.1	1.2	3.6	1.4
18	1.4	4.0	3.2	6.8	2.9	6.7	3.1	19	1.9	1.2	.78	2.2
19	1.4	3.0	2.7	20	3.3	7.2	2.9	6.2	1.8	1.1	.72	1.4
20	1.5	2.0	7.8	13	3.1	5.4	2.7	3.8	1.6	.84	.60	1.5
21	1.5	1.5	6.9	13	2.4	27	2.5	2.9	2.1	.66	.55	18
22	1.6	1.3	4.3	9.6	11	12	4.1	2.9	1.6	.60	.50	4.7
23	1.5	1.1	3.7	11	5.8	8.4	3.1	8.4	11	6.7	.93	2.9
24	1.2	3.0	3.3	8.4	4.4	6.2	2.9	2.9	2.9	1.9	.66	2.1
25	1.2	30	4.3	6.2	4.4	5.8	2.4	2.2	1.9	1.3	.60	1.9
26	1.2	11	9.3	7.2	7.8	4.7	2.1	1.9	4.1	1.1	.66	1.6
27	1.2	9.0	10	7.2	7.2	4.1	2.1	1.6	1.9	.93	4.7	1.5
28	3.9	27	5.9	13	3.1	3.8	1.9	1.4	1.5	16	5.8	1.9
29	16	19	5.0	9.6	------	4.7	1.8	23	1.6	4.7	5.8	2.7
30	8.0	10	4.4	7.8	------	3.8	3.8	13	39	2.5	9.0	1.6
31	5.0	------	3.9	6.7	------	3.8	------	19	------	1.8	2.2	------
TOTAL	75.69	194.29	202.1	260.3	145.8	335.3	153.9	202.2	140.3	147.03	58.58	124.6
MEAN	2.44	6.48	6.52	8.40	5.21	10.8	5.13	6.52	4.68	4.74	1.89	4.15
MAX	16	30	17	29	14	47	18	33	39	48	9.0	25
MIN	.87	.50	2.7	1.4	2.4	3.8	1.8	1.3	1.2	.60	.50	1.2
CFSM	.56	1.48	1.49	1.91	1.19	2.46	1.17	1.49	1.07	1.08	.43	.95
IN.	.64	1.65	1.71	2.21	1.24	2.84	1.30	1.71	1.19	1.25	.50	1.06

CAL YR 1973 TOTAL 1,854.50 MEAN 5.08 MAX 75 MIN .06 CFSM 1.16 IN 15.71
WTR YR 1974 TOTAL 2,040.09 MEAN 5.59 MAX 48 MIN .50 CFSM 1.27 IN 17.29

PEAK DISCHARGE (BASE, 200 CFS).--June 30 (2300) 640 cfs (5.46 ft); July 28 (1700) 269 cfs (3.83 ft).

NOTE.--No gage height record Oct. 29 to Dec. 4.

03085000 Monongahela River at Braddock, Pa.

LOCATION.--Lat 40°23'28", long 79°51'30", Allegheny County, near right bank on river guide wall 300 ft (90 m) upstream from dam at lock 2, at Braddock, 1,700 ft (520 m) downstream from Turtle Creek, and 11.2 mi (18.0 km) upstream from confluence with Allegheny River.

DRAINAGE AREA.--7,337 mi^2 (19,003 km^2).

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder and fixed-crest concrete dam control with streamward lock chamber usable as floodway during high flow since 1951. Datum of gage is 707.16 ft (215.542 m) above mean sea level. Prior to Aug. 13, 1951, at site 700 ft (210 m) upstream at same datum.

AVERAGE DISCHARGE.--36 years, 12,280 ft^3/s (347.8 m^3/s), 22.73 in/yr (577 mm/yr), adjusted for storage and diversion.

EXTREMES.--Current year: Maximum discharge, 142,000 ft^3/s (4,020 m^3/s) Jan. 12 (gage height, 24.82 ft or 7.565 m, result of floodway opening; minimum daily, 1,900 ft^3/s (53.8 m^3/s) Aug. 25.

Period of record: Maximum discharge, 201,000 ft^3/s (5,690 m^3/s) June 5, 1941 (gage height, 31.20 ft or 9.510 m); maximum gage height, 31.39 ft (9.568 m) June 24, 1972 (backwater from Allegheny River); minimum discharge, 559 ft^3/s (15.8 m^3/s) Sept. 20, 22, 23, 1946; minimum daily, 703 ft^3/s (19.9 m^3/s) Sept. 3, 4, 22, 1946; minimum gage height, 12.01 ft (3.661 m) Oct. 7-13, 1943.

Flood of Mar. 18, 1936 reached a stage of 38.8 ft (11.83 m) from floodmarks (discharge, 210,000 ft^3/s or 5,950 m^3/s).

REMARKS.--Records good. Flow regulated by locks and hydroelectric plants, since 1938 by Tygart Lake, since 1926 by Lake Lynn, since 1925 by Deep Creek Reservoir, and since 1943 by Youghiogheny River Lake (see p. 270) combined capacity, 704,300 acre-ft (868 hm^3). Figures of daily discharge include slight diversion from Beaver Run Reservoir in the Kiskiminetas River basin to the Borough of Jeannette in the Monongahela River basin. Records of water quality for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9,890	19,500	22,400	30,600	15,200	12,800	8,520	4,520	29,600	21,900	3,680	10,100
2	8,620	21,200	22,900	26,400	14,300	15,100	11,700	3,820	47,000	18,800	3,610	14,100
3	9,890	16,600	19,900	24,500	10,800	24,000	13,200	6,030	64,400	11,700	3,720	15,500
4	10,100	9,890	19,900	40,100	11,000	26,100	22,900	10,600	47,600	8,940	2,630	19,500
5	6,990	8,400	18,800	43,600	12,200	23,400	36,700	11,900	34,500	8,050	2,720	14,300
6	5,690	8,680	10,700	30,700	12,400	20,400	33,400	9,520	29,100	9,590	2,570	12,200
7	4,630	9,540	9,250	25,900	14,100	18,400	28,000	7,580	24,900	8,200	2,390	11,300
8	4,840	8,910	6,790	22,000	17,500	21,000	21,800	7,120	13,100	7,150	2,480	10,700
9	5,270	8,910	6,790	21,100	14,800	23,800	28,200	7,870	8,780	6,110	2,900	11,000
10	7,290	10,500	8,910	31,900	12,600	17,900	33,200	6,580	9,020	6,300	2,780	8,520
11	5,660	9,830	8,850	99,400	11,500	19,400	28,500	7,050	7,260	6,840	2,210	6,000
12	5,100	9,710	8,850	123,000	11,600	21,000	25,200	18,400	6,680	5,600	2,050	4,510
13	4,630	8,960	9,660	58,400	11,600	19,500	22,100	51,100	4,480	3,960	3,330	5,110
14	3,440	6,700	27,800	37,200	14,500	16,700	23,300	29,200	4,140	3,780	2,570	15,500
15	3,870	7,900	33,600	34,700	20,800	15,000	21,100	19,500	5,050	4,270	2,630	15,100
16	4,310	10,200	22,900	33,000	19,000	12,500	18,700	15,200	5,910	3,950	2,390	9,030
17	3,990	12,500	18,500	31,000	13,600	13,100	14,800	13,700	8,940	3,630	3,020	7,920
18	4,190	10,800	16,600	27,800	12,000	13,200	12,400	17,500	9,290	3,680	2,300	6,680
19	4,150	10,800	14,800	24,200	12,800	13,300	10,800	17,000	6,590	3,220	3,080	5,490
20	3,130	10,800	15,000	21,600	13,800	14,300	9,150	11,600	5,380	3,580	2,750	5,320
21	2,720	13,300	33,800	18,200	16,800	19,600	7,220	9,380	9,440	3,700	3,180	7,300
22	3,610	11,300	39,800	26,800	14,600	30,900	6,520	8,230	32,800	2,800	2,620	11,200
23	3,910	8,230	29,600	27,000	14,700	25,000	11,100	10,400	48,300	3,070	2,830	8,210
24	3,260	10,700	27,700	23,900	13,600	19,700	10,600	12,300	90,300	4,640	3,110	6,700
25	3,230	9,660	26,200	21,300	11,900	14,400	8,240	11,500	51,400	3,510	1,900	5,230
26	2,840	11,400	26,800	20,400	12,900	13,500	7,610	10,000	35,000	3,420	2,280	4,690
27	3,000	15,600	52,500	16,900	12,700	13,900	5,970	8,310	29,600	3,340	2,620	4,560
28	2,720	29,800	57,800	14,800	13,500	11,300	6,070	8,140	24,300	3,060	2,900	3,520
29	5,990	43,400	37,600	24,300	------	10,900	6,500	7,410	17,400	4,100	2,930	3,460
30	12,300	28,400	33,100	21,400	------	9,740	6,750	12,500	13,700	5,040	7,910	4,470
31	15,300	------	32,500	19,000	------	7,240	------	14,500	------	4,910	10,900	------
TOTAL	174,560	402,120	720,300	1,021,1M	386,800	537,080	500,250	388,460	723,960	190,840	98,990	267,220
MEAN	5,631	13,400	23,240	32,940	13,810	17,330	16,680	12,530	24,130	6,156	3,193	8,907
MAX	15,300	43,400	57,800	123,000	20,800	30,900	36,700	51,100	90,300	21,900	10,900	19,500
MIN	2,720	6,700	6,790	14,800	10,800	7,240	5,970	3,820	4,140	2,800	1,900	3,460
(/)	-512	+466	-69.5	-352	-152	+789	+1,150	+668	+14.4	-454	-671	-622
MEAN≠	5,119	13,870	23,170	32,590	13,660	18,120	17,830	13,200	24,140	5,702	2,522	8,285
CFSM≠	.70	1.89	3.16	4.44	1.86	2.47	2.43	1.80	3.29	.78	.34	1.13
IN.≠	.81	2.11	3.64	5.12	1.94	2.85	2.71	2.08	3.67	.90	.39	1.26

CAL YR 1973 TOTAL 4,603,340 MEAN 12,610 MAX 71,800 MIN 1,850 MEAN≠ 12,670 CFSM≠ 1.73 IN.≠ 23.42
WTR YR 1974 TOTAL 5,411,680 MEAN 14,830 MAX 123,000 MIN 1,900 MEAN≠ 14,850 CFSM≠ 2.02 IN.≠ 27.48

/ Change in contents in Tygart Lake, Lake Lynn, and Deep Creek Reservoir, and Youghiogheny River Lake, and diversion from Beaver Run Reservoir, equivalent in cubic feet per second. Records of contents in Lake Lynn, in Deep Creek Reservoir, and of diversion from Beaver Run Reservoir, furnished by Allegheny Power Service Corp., Pennsylvania Electric Co., and Municipal Authority of Westmoreland County, respectively.

≠ Adjusted for change in reservoir contents and diversion.

Lakes and reservoirs in Monongahela River basin

03055500 TYGART LAKE.--Lat 39°18'50", long 80°02'00", Taylor County, W. Va., at dam on Tygart Valley River, 2.2 mi (3.5 km) upstream from Threefork Creek, and 2.4 mi (3.9 km) upstream from Grafton, W. Va. Drainage area, 1,184 mi^2 (3,067 km^2). Period of record, April 1938 to current year. Prior to October 1960 published as "Tygart Reservoir". Water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 121,290 acre-ft (150 hm^3) Sept. 5 (elevation, 1,099.59 ft or 335.155 m); minimum, 14,880 acre-ft (18.3 hm^3) Mar. 16 (elevation, 1,015.31 ft or 309.466 m). Extremes for period of record: Maximum contents, 251,130 acre-ft (310 hm^3) June 25, 1972 (elevation, 1,155.22 ft or 352.111 m); minimum since October 1939, 8,330 acre-ft (10.3 hm^3) Jan. 25, 1940 (elevation, 1,005.15 ft or 306.370 m).

Lake is formed by concrete gravity dam completed and accepted February 1938, storage began May 15, 1938. Capacity, 285,000 acre-ft or 351 hm^3 (from sedimentation resurvey made in 1959) between elevations 991.5 ft or 302.21 m (sill of valves) and 1,167.0 ft or 355.70 m (crest of spillway) above mean sea level. Dead storage, 2,700 acre-ft (3.33 hm^3). Figures given herein represent total contents. Conservation pool elevation is 1,010.0 ft (307.85 m) and water below elevation 991.5 ft (302.21 m) cannot be withdrawn. Lake is used for flood control, for supplementary supply for navigation on Monongahela River during periods of low flow, and for recreation. Records furnished by Corps of Engineers.

03076000 DEEP CREEK RESERVOIR.--Lat 39°30'34", long 79°23'28", Garrett County, Md., on Deep Creek at dam, 1.8 mi (2.9 km) upstream from mouth, and 7 mi (11 km) north of Oakland, Md. Drainage area, 64.7 mi^2 (167.6 km^2). Period of record, July 1925 to current year. Prior to October 1950, monthend contents published in WSP 1305, and October 1950 to September 1955, monthend contents published in WSP 1385. Water-stage recorder at right end of spillway. Datum of gage is at mean sea level (unadjusted). Extremes for current year: Maximum contents, 91,100 acre-ft (112 hm^3) June 25, 26 (elevation, 2,461.50 ft or 750.265 m); minimum, 65,700 acre-ft (81.0 hm^3) Oct. 27, 28 (elevation, 2,454.40 ft or 748.101 m). Extremes for period of record: Maximum contents, 93,260 acre-ft (115 hm^3) July 24, 25, 1949 (elevation, 2,462.075 ft or 750.440 m); minimum observed, 11,760 acre-ft (14.5 hm^3) Sept. 30, 1925 (elevation, 2,433.45 ft or 741.716 m).

Reservoir is formed by an earthfill dam completed January 1925. Usable capacity, 92,975 acre-ft (115 hm^3) between elevations 2,425 ft or 739.1 m (top of intake to outlet tunnel) and 2,462 ft or 750.4 m (crest of spillway). Dead storage, 13,085 acre-ft (16.1 hm^3). Figures given herein represent usable contents. Reservoir is used for hydroelectric power. Records furnished by Pennsylvania Electric Co.

03077000 YOUGHIOGHENY RIVER LAKE.--Lat 39°47'56", long 79°22'06", Somerset County, remote control recorder at control house at dam, 1.2 mi (1.9 km) upstream from Confluence, Pa., since June 1951. Water-stage recorder and transmitter at lat 39°45'21", long 79°24'00" at bridge on U.S. Highway 40, 500 ft (150 m) upstream from Stuck Hollow Run, 0.6 mi (1.0 km) upstream from Tub Run, on Youghiogheny River, 7.5 mi (12.1 km) upstream from Youghiogheny River Dam, Pa. Drainage area, 434 mi^2 (1,124 km^2). Period of record, October 1943 to current year. Prior to October 1970 published as "Youghiogheny River Reservoir". Water-stage recorder. Datum of gage is at mean sea level. Prior to Mar. 9, 1948, nonrecording gage at dam at same datum. Mar. 9, 1948, to present, water-stage recorder also at transmitter site at same datum. Extremes for current year: Maximum contents, 182,130 acre-ft (225 hm^3) June 26 (elevation, 1,448.35 ft or 441.457 m); minimum, 60,140 acre-ft (74.2 hm^3) Oct. 29 (elevation, 1,397.50 ft or 425.958 m). Extremes for period of record: Maximum contents, 210,250 acre-ft (259 hm^3) May 16, 1967 (elevation, 1,457.23 ft or 444.164 m); minimum (after dam became fully operational), 7,730 acre-ft (9.53 hm^3) Jan. 9, 1954 (elevation, 1,349.00 ft or 411.175 m).

Lake is formed by a rock-faced earthfill dam with uncontrolled side channel spillway. Storage began during construction and lake acted as a retention basin from December 1942 to December 1947. Dam became fully operational in January 1948. Lake first reached minimum pool elevation, 1,344.0 ft or 409.65 m (capacity, 5,230 acre-ft (6.45 hm^3) in December 1942. Capacity 254,000 acre-ft (313 hm^3) between elevations 1,319.50 ft or 402.184 m (invert at intake to outlet tunnel) and 1,470.00 ft or 448.056 m (full pool). Winter low-water pool elevation is 1,419.0 ft (432.51 m), capacity, 103,000 acre-ft (127 hm^3). Summer pool normally occurs during period Mar. 15 to Apr. 15. Depletion of low-water storage for Youghiogheny River flow augmentation occurs normally during the period July through November. Figures given herein represent total contents. Lake is used for flood control, for low-flow augmentation of Youghiogheny River and downstream rivers, and for recreation. Records furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	0305550 Tygart Lake			03076000 Deep Creek Reservoir		
Sept. 30	1,080.57	89,190	-	2,455.10	68,000	-
Oct. 31	1,071.62	75,780	-218	2,454.90	67,400	-9.8
Nov. 30	1,076.95	83,600	+131	2,455.70	70,100	+45.4
Dec. 31	1,058.94	58,610	-406	2,458.20	78,900	+143
CAL YR 1973	-	-	+44.4	-	-	-3.0
Jan. 31	1,032.35	29,160	-479	2,459.90	85,200	+103
Feb. 28	1,018.92	17,600	-208	2,458.10	78,600	-119
Mar. 31	1,038.07	34,720	+278	2,458.00	78,200	-6.5
Apr. 30	1,081.13	90,080	+930	2,459.50	83,700	+92.4
May 31	1,096.58	115,810	+418	2,460.40	87,000	+53.7
June 30	1,094.47	112,070	-62.9	2,461.30	90,400	+57.1
July 31	1,093.19	109,850	-36.1	2,458.90	81,500	-145
Aug. 31	1,091.52	107,000	-46.4	2,457.00	74,700	-111
Sept. 30	1,082.83	92,770	-239	2,455.30	68,700	-101
WTR YR 1974	-	-	+4.9	-	-	+1.0

Lakes and reservoirs in Monongahela River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	03077000 Youghiogheny River Lake		
Sept. 30	1,407.89	79,280	-
Oct. 31	1,400.75	65,780	-220
Nov. 30	1,410.42	84,390	+313
Dec. 31	1,417.55	99,750	+250
CAL YR 1973	-	-	+30.1
Jan. 31	1,420.20	105,820	+98.7
Feb. 28	1,425.04	117,420	+209
Mar. 31	1,435.56	144,890	+447
Apr. 30	1,438.70	153,660	+147
May 31	1,442.28	163,960	+168
June 30	1,443.21	166,690	+45.9
July 31	1,437.25	149,520	-279
Aug. 31	1,427.50	123,580	-422
Sept. 30	1,419.42	104,010	-329
WTR YR 1974	-	-	+34.2

03085550 Chartiers Creek at Crafton, Pa.

LOCATION.--Lat 40°26'23", long 80°04'51", Allegheny County, near center of span on upstream side of bridge on West Steuben Street at Crafton, 2.8 mi (4.5 km) downstream from Whiskey Run, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--270 mi^2 (699 km^2).

PERIOD OF RECORD.--October 1971 to September 1974.

GAGE.--Nonrecording gage. Datum of gage is 725.99 ft (221.282 m) above mean sea level (Corps of Engineers bench mark).

EXTREMES.--Current year: Maximum discharge, 2,630 ft^3/s (74.5 m^3/s) July 10 (gage height, 5.60 ft or 1.707 m, from graph based on gage readings); minimum daily, 62 ft^3/s (1.76 m^3/s) Oct. 21, 22.
Period of record: Maximum discharge, 5,430 ft^3/s (154 m^3/s) June 23, 1972 (gage height, 8.42 ft or 2.566 m, from graph based on gage readings); minimum daily 59 ft^3/s (1.67 m^3/s) Sept. 12, 1973.
Flood of Sept. 2, 1912 reached a discharge of 20,000 ft^3/s (566 m^3/s) from Corps of Engineers.

REMARKS.--Records fair. Some regulation at low flow by mine drainage, reservoirs, and industrial usage above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	282	185	215	322	322	290	278	798	290	111	471
2	245	161	164	194	306	370	789	194	342	161	106	370
3	140	128	161	209	302	350	650	258	262	135	100	1,320
4	95	108	155	270	262	338	916	224	221	120	132	434
5	238	97	179	224	230	365	741	194	197	138	111	221
6	111	89	161	200	502	322	594	191	182	120	91	173
7	89	89	135	194	783	298	468	185	176	106	83	146
8	87	83	176	197	450	282	468	164	167	111	100	132
9	97	87	203	221	390	282	664	170	173	108	102	128
10	85	83	218	602	342	462	498	179	161	920	128	122
11	77	81	173	1,490	314	390	435	158	158	970	87	113
12	77	79	152	936	282	365	400	1,140	176	238	83	111
13	73	77	209	462	278	322	450	1,020	155	164	89	150
14	73	77	390	365	258	310	462	462	135	179	83	435
15	69	141	282	375	242	274	415	338	170	270	79	209
16	77	350	230	395	224	468	360	286	270	164	77	146
17	75	164	179	385	221	430	322	278	185	130	262	140
18	73	132	176	365	209	342	306	1,070	152	125	102	155
19	68	115	161	1,180	242	338	282	498	146	122	87	130
20	69	113	194	965	298	298	262	360	135	111	83	150
21	62	106	242	685	227	719	242	322	149	97	81	1,110
22	62	97	194	531	342	797	290	302	314	93	79	634
23	66	93	176	492	360	524	601	395	566	179	69	294
24	69	122	164	480	294	440	338	294	318	158	77	221
25	68	797	164	400	270	355	278	234	194	118	69	191
26	73	458	242	370	246	334	242	209	209	108	71	185
27	71	274	350	390	246	322	224	200	191	100	77	167
28	140	468	290	430	282	298	218	194	179	138	155	164
29	432	330	246	566	------	342	209	562	182	221	269	212
30	238	221	224	420	------	330	209	294	143	254	274	176
31	176	------	221	365	------	322	------	242	------	146	194	------
TOTAL	3,475	5,502	6,396	14,573	8,724	11,711	12,623	10,895	6,806	6,294	3,511	8,610
MEAN	112	183	206	470	312	378	421	351	227	203	113	287
MAX	432	797	390	1,490	783	797	916	1,140	798	970	274	1,320
MIN	62	77	135	194	209	274	209	158	135	93	69	111
CFSM	.41	.68	.76	1.74	1.16	1.40	1.56	1.30	.84	.75	.42	1.06
IN.	.48	.76	.88	2.01	1.20	1.61	1.74	1.50	.94	.87	.48	1.19

CAL YR 1973 TOTAL 114,131 MEAN 313 MAX 3,170 MIN 59 CFSM 1.16 IN 15.72
WTR YR 1974 TOTAL 99,120 MEAN 272 MAX 1,490 MIN 62 CFSM 1.01 IN 13.66

PEAK DISCHARGE (BASE, 2,500 CFS).--July 10 (2200) 2,630 cfs (5.60 ft).

03086000 Ohio River at Sewickley, Pa.

LOCATION.--Lat 40°31'53", long 80°11'21", Allegheny County, on left bank 200 ft (60 m) upstream from highway bridge at Sewickley, 0.5 mi (0.8 km) upstream from Narrows Run, 1.5 mi (2.4 km) upstream from Dashields Dam, and 11.8 mi (19.0 km) downstream from confluence of Allegheny and Monongahela Rivers.

DRAINAGE AREA.--19,500 mi^2 (50,500 km^2), approximately.

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

GAGE.--Water-stage recorder and fixed-crest concrete dam control 1.5 mi (2.4 km) downstream. Datum of gage is 690.41 ft (210.437 m) above mean sea level. Prior to Nov. 22, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--41 years, 32,220 ft^3/s (912.5 m^3/s), 22.44 in/yr (570 mm/yr), adjusted for storage since May 1938.

EXTREMES.--Current year: Maximum discharge, 167,000 ft^3/s (4,730 m^3/s) Jan. 12 (gage height, 11.36 ft or 3.463 m); minimum daily, 4,200 ft^3/s (119 m^3/s) Aug. 25.
Period of record: Maximum discharge, 574,000 ft^3/s (16,300 m^3/s) Mar. 18, 1936 (gage height, 34.75 ft or 10.592 m, from floodmark in gage house); minimum, 1,800 ft^3/s (51.0 m^3/s) Sept. 4, 1957 (gage height, 2.60 ft or 0.792 m).

REMARKS.--Records good. Some regulation by locks, and by many reservoirs above station (see pp. (245-247,270). Combined capacity of reservoirs and lakes excluding that of Chautauqua Lake but including Lake Lynn and Deep Creek Reservoir and 15 smaller reservoirs, 2,773,000 acre-ft (3,420 hm^3). Records of water quality for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1305: 1938-40 (adjusted monthly runoff). WSP 1435: 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20,900	47,100	52,000	79,000	53,200	34,900	42,000	21,900	43,800	55,200	8,700	23,000
2	20,400	50,200	50,100	69,800	45,600	43,800	53,200	23,400	59,200	67,600	7,700	26,900
3	21,300	48,500	45,400	61,200	42,000	53,200	59,200	26,600	81,400	53,200	7,700	35,000
4	22,000	38,300	43,500	69,800	38,400	59,200	72,000	26,600	65,400	51,300	6,700	46,700
5	19,300	31,200	40,200	72,000	38,400	63,200	86,200	28,200	49,400	40,200	6,700	43,800
6	19,900	30,300	27,300	57,200	34,900	63,200	86,200	26,600	42,000	36,600	6,700	36,200
7	17,100	29,100	24,200	49,400	38,400	63,200	83,800	25,000	34,900	31,500	7,700	30,300
8	16,500	26,000	21,600	43,800	38,400	65,400	72,000	23,400	20,400	26,600	7,700	24,100
9	15,800	21,600	21,200	40,200	36,600	83,800	74,200	25,000	16,100	23,400	8,700	21,200
10	15,700	23,300	26,200	49,400	34,900	114,000	81,400	25,000	16,100	21,900	8,700	17,600
11	13,300	21,100	30,700	114,000	31,500	107,000	74,200	25,000	12,100	20,400	7,700	14,200
12	12,600	20,800	29,100	157,000	31,500	96,200	72,000	42,500	13,400	17,500	7,700	13,000
13	11,100	19,900	30,100	86,200	29,800	88,600	65,400	112,000	9,800	13,400	9,800	15,000
14	10,600	16,900	50,600	59,200	33,200	74,200	63,200	98,800	10,900	10,900	7,700	26,200
15	10,300	18,500	60,300	57,200	38,400	65,400	61,200	72,000	12,100	10,900	7,700	26,600
16	10,800	22,500	47,700	59,200	38,400	51,300	61,200	63,200	14,700	10,900	7,700	18,800
17	10,200	24,400	40,200	63,200	31,500	57,200	55,200	59,200	20,400	10,900	8,700	17,700
18	10,200	23,200	36,300	63,200	25,000	57,200	51,300	63,200	25,000	9,800	7,700	15,700
19	10,400	27,200	31,200	81,400	26,600	51,300	45,600	59,200	21,900	8,700	5,800	14,800
20	9,370	27,800	29,300	96,200	28,200	49,400	42,000	49,400	16,100	9,800	6,700	14,800
21	8,870	28,300	50,900	72,000	28,200	51,300	36,600	42,000	16,800	8,700	7,700	19,100
22	8,660	25,300	72,200	86,200	29,800	65,400	31,500	33,200	38,400	7,700	5,800	26,500
23	9,080	20,400	65,800	93,600	42,000	57,200	33,200	33,200	53,600	7,700	5,800	23,100
24	8,830	23,400	61,200	88,600	51,300	47,500	31,500	33,200	98,800	8,700	6,700	21,300
25	8,790	27,000	56,400	83,800	42,000	42,000	31,500	31,500	65,400	7,700	4,200	18,300
26	7,680	36,300	56,200	79,000	42,000	42,000	29,800	26,600	47,500	7,700	5,000	16,600
27	8,770	47,000	91,300	72,000	36,600	43,800	28,200	23,400	38,400	7,700	5,800	16,300
28	8,220	64,100	118,000	63,200	33,200	34,900	25,000	21,900	34,900	7,700	8,700	12,400
29	16,500	78,200	95,400	72,000	------	31,500	20,400	21,900	28,200	8,700	12,100	12,500
30	30,300	60,400	89,100	67,600	------	34,900	23,400	25,000	25,000	9,800	19,800	12,400
31	39,300	------	83,100	61,200	------	36,600	------	26,600	------	8,700	23,300	------
TOTAL	452,770	978,300	1,576.8M	2,267.8M	1,020.0M	1,828.8M	1,592.6M	1,214.7M	1,032.1M	621,500	259,100	660,100
MEAN	14,610	32,610	50,860	73,150	36,430	58,990	53,090	39,180	34,400	20,050	8,358	22,000
MAX	39,300	78,200	118,000	157,000	53,200	114,000	86,200	112,000	98,800	67,600	23,300	46,700
MIN	7,680	16,900	21,200	40,200	25,000	31,500	20,400	21,900	9,800	7,700	4,200	12,400
(≠)	-1,530	+1,110	+1,820	-3,160	-2,320	+2,410	+4,240	+1,270	+278	-1,010	-1,180	-111
MEAN≠	13,080	33,720	52,680	69,990	34,110	61,400	57,330	40,450	34,680	19,040	7,178	21,890
CFSM≠	.67	1.73	2.70	3.59	1.75	3.15	2.94	2.07	1.78	.98	.37	1.12
IN.≠	.77	1.93	3.11	4.14	1.82	3.63	3.28	2.39	1.99	1.13	.43	1.25

CAL YR 1973 TOTAL 11,768,270 MEAN 32,240 MAX 118,000 MIN 4,610 MEAN≠ 32,530 CFSM≠ 1.67 IN.≠ 22.63
WTR YR 1974 TOTAL 13,504,570 MEAN 37,000 MAX 157,000 MIN 4,200 MEAN≠ 37,160 CFSM≠ 1.91 IN.≠ 25.87

≠ Change in contents, equivalent in cubic feet per second, in Allegheny Reservoir, Chautauqua and Tionesta Lakes, Union City Reservoir, Woodcock Creek, and East Branch Clarion River, Mahoning Creek, Crooked Creek, Yellow Creek, Conemaugh River, Loyalhanna, and Tygart Lakes, Lake Lynn, Deep Creek Reservoir, Youghiogheny River Lake, and 15 smaller reservoirs. Records of reservoir contents furnished by Pennsylvania Electric Co., Manufacturers Water Co., Greater Johnstown Water Authority, Latrobe Municipal Authority, Municipal Authority of Westmoreland County, and Allegheny Power Service Corp.

03086100 Big Sewickley Creek near Ambridge, Pa.

LOCATION.--Lat 40°36'27", long 80°09'49", Allegheny County, on left bank at downstream side of bridge, 1.3 mi (2.1 km) downstream from East Branch Big Sewickley Creek, and 3.5 mi (5.6 km) northeast of Ambridge.

DRAINAGE AREA.--15.6 mi^2 (40.4 km^2).

PERIOD OF RECORD.--Annual maximum and occasional discharge measurements, water years 1963-67. October 1967 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 810.93 ft (247.171 m) above mean sea level. Aug. 31, 1962, to Sept. 20, 1967, crest-stage gage at same site and at datum 10 ft (3.0 m) lower.

AVERAGE DISCHARGE.--7 years, 16.6 ft^3/s (0.470 m^3/s), 14.45 in/yr (367 mm/yr).

EXTREMES.--Current year: Maximum discharge, 844 ft^3/s (23.9 m^3/s) July 1 (gage height, 6.36 ft or 1.939 m), from rating curve extended as explained below; minimum, 0.38 ft^3/s (0.011 m^3/s) Oct. 22; minimum gage height, 2.89 ft (0.881 m) Oct. 22, 23.

Period of record: Maximum discharge, 990 ft^3/s (28.0 m^3/s) Mar. 4, 1963 (gage height, 6.67 ft or 2.033 m, present datum), from rating curve extended above 300 ft^3/s (8.5 m^3/s) on the basis of slope-area measurements at gage heights 5.50 ft (1.676 m) and 6.67 ft (2.033 m); maximum gage height, 7.22 ft (2.201 m) Jan. 29, 1968 (backwater from ice); no flow on many days.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	33	14	10	24	27	38	50	40	163	1.3	8.6
2	1.7	14	10	8.0	22	25	160	25	25	31	1.1	8.0
3	1.6	7.6	8.5	5.5	19	25	97	32	18	15	1.0	92
4	1.1	4.9	8.0	4.0	16	24	106	23	14	9.8	2.5	31
5	3.3	3.9	8.0	3.6	19	31	67	19	11	15	7.0	14
6	1.2	3.4	6.4	3.1	18	27	50	18	9.2	10	4.0	9.8
7	.80	3.1	5.2	3.1	40	25	37	15	8.0	7.1	2.0	8.3
8	.70	2.9	4.5	5.6	25	51	32	14	7.4	5.6	1.3	7.1
9	.70	2.7	11	8.4	24	139	65	14	8.9	4.7	8.0	6.2
10	.62	2.3	14	15	25	153	46	12	6.5	5.0	40	5.6
11	.57	2.1	10	24	21	88	39	11	5.0	4.7	5.0	5.3
12	.52	2.1	11	10	17	57	33	218	5.3	3.5	1.8	5.3
13	.52	1.9	19	20	16	36	30	123	4.4	2.7	2.0	7.1
14	.80	1.9	29	16	15	26	32	60	3.5	9.8	2.8	9.5
15	.62	6.0	21	32	13	24	31	37	5.6	6.8	1.1	6.2
16	.80	21	15	57	14	46	25	25	21	3.5	.98	5.3
17	.62	8.6	13	53	12	30	20	28	8.0	2.7	4.1	5.0
18	.57	6.0	11	45	11	25	18	148	5.6	2.7	1.9	5.9
19	.52	5.2	8.0	211	14	22	16	57	5.0	2.1	1.3	4.7
20	.52	3.9	15	112	21	18	15	33	6.2	1.7	1.1	7.7
21	.52	3.6	22	77	17	47	14	24	4.4	1.3	.90	31
22	.47	3.4	17	51	48	39	14	18	3.8	1.9	.82	19
23	.57	2.9	14	51	38	31	14	24	9.5	2.7	1.2	12
24	.52	3.9	10	43	30	26	13	18	5.9	1.9	1.1	9.2
25	.52	68	11	35	25	20	11	14	4.7	1.7	.82	8.3
26	.52	33	23	30	28	18	10	12	5.0	1.4	.82	7.7
27	.57	24	28	30	26	16	9.2	10	3.5	1.2	.74	6.8
28	3.1	46	21	36	18	15	8.9	8.9	2.5	1.7	7.4	6.5
29	25	30	18	38	------	22	8.9	92	4.4	2.2	11	7.1
30	35	20	14	31	------	32	32	170	39	1.9	47	6.2
31	20	------	12	28	------	50	------	67	------	1.5	8.3	------
TOTAL	106.17	371.3	431.6	1,096.3	616	1,215	1,092.0	1,419.9	300.3	325.8	170.38	366.4
MEAN	3.42	12.4	13.9	35.4	22.0	39.2	36.4	45.8	10.0	10.5	5.50	12.2
MAX	35	68	29	211	48	153	160	218	40	163	47	92
MIN	.47	1.9	4.5	3.1	11	15	8.9	8.9	2.5	1.2	.74	4.7
CFSM	.22	.79	.89	2.27	1.41	2.51	2.33	2.94	.64	.67	.35	.78
IN.	.25	.89	1.03	2.61	1.47	2.90	2.60	3.39	.72	.78	.41	.87

CAL YR 1973 TOTAL 6,315.71 MEAN 17.3 MAX 173 MIN 0 CFSM 1.11 IN 15.06
WTR YR 1974 TOTAL 7,511.15 MEAN 20.6 MAX 218 MIN .47 CFSM 1.32 IN 17.91

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 2	0400	5.09	372	5-30	0100	5.72	592
5-12	1245	5.98	692	7- 1	0030	6.36	844
5-18	0345	5.40	480				

03101500 Shenango River at Pymatuning Dam, Pa.

LOCATION.--Lat 41°29'53", long 80°27'37", Crawford County, on left bank 500 ft (150 m) downstream from Sugar Run, 900 ft (270 m) downstream from Pymatuning Dam, 1.5 mi (2.4 km) northwest of Jamestown, and at mile 84.9 (136.6 km).

DRAINAGE AREA.--167 mi^2 (433 km^2).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 970.00 ft (295.656 m) above mean sea level, adjustment of 1907.

AVERAGE DISCHARGE.--40 years, 198 ft^3/s (5.607 m^3/s), 16.10 in/yr (409 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 760 ft^3/s (21.5 m^3/s) Apr. 18, 19 (gage height, 6.40 ft or 1.951 m); minimum daily, 59 ft^3/s (1.67 m^3/s) May 27, 28, 31, June 3, 4.
Period of record: Maximum discharge, 1,540 ft^3/s (43.6 m^3/s) Sept. 4, 1937 (gage height, 9.2 ft or 2.80 m); minimum, 0.1 ft^3/s (0.003 m^3/s) June 30 to July 3, 1934.

REMARKS.--Records excellent. Flow regulated by Pymatuning Reservoir since 1933 (see p. 286).

REVISIONS (WATER YEARS).--WSP 823: 1934-36. WSP 1083: 1936 (M), 1937, 1940 (M), 1941-45. WSP 1335: 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	204	182	230	420	260	166	180	64	132	106	118
2	173	183	178	226	419	201	222	153	61	92	106	117
3	173	180	175	226	418	180	177	130	59	88	106	143
4	172	176	175	285	520	178	199	114	59	85	144	127
5	176	173	178	280	515	180	193	110	66	85	117	113
6	173	173	175	280	515	163	225	114	72	85	109	111
7	173	172	175	280	520	160	223	83	71	83	107	111
8	173	175	173	280	520	193	222	67	71	83	107	111
9	173	175	173	280	515	257	255	90	73	83	112	110
10	173	175	175	280	515	212	276	83	77	83	109	109
11	173	175	173	280	515	167	345	72	104	83	108	109
12	173	175	172	350	515	161	374	329	159	83	108	110
13	173	175	177	350	515	156	370	210	124	83	110	111
14	173	175	192	350	520	154	393	386	83	83	112	109
15	173	175	178	418	510	154	390	501	84	83	108	108
16	173	175	178	418	510	186	399	498	87	83	108	108
17	173	175	175	525	510	164	422	497	85	82	118	108
18	173	175	172	510	505	156	553	457	85	83	113	110
19	173	175	175	375	510	158	584	507	85	83	109	96
20	170	175	175	310	515	156	487	504	86	82	117	98
21	170	175	246	550	510	155	484	504	87	81	110	109
22	170	178	203	535	370	154	486	504	87	92	108	109
23	170	175	200	535	365	159	489	504	85	102	108	104
24	170	172	196	535	365	160	486	431	83	105	109	101
25	170	178	196	417	320	157	482	388	83	105	108	101
26	170	192	270	424	325	160	374	253	97	106	108	101
27	170	182	265	426	325	166	293	59	91	106	111	100
28	170	189	242	426	300	163	272	59	85	106	126	102
29	183	192	238	436	------	205	192	60	87	107	169	103
30	186	182	234	426	------	211	153	61	100	109	133	103
31	183	------	230	423	------	184	------	59	------	106	115	------
TOTAL	5,362	5,351	6,046	11,666	12,882	5,470	10,186	7,967	2,540	2,852	3,539	3,270
MEAN	173	178	195	376	460	176	340	257	84.7	92.0	114	109
MAX	186	204	270	550	520	260	584	507	159	132	169	143
MIN	164	172	172	226	300	154	153	59	59	81	106	96
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 75,629 MEAN 207 MAX 676 MIN 22 CFSM - IN. -
WTR YR 1974 TOTAL 77,131 MEAN 211 MAX 584 MIN 59 CFSM - IN. -

03102500 Little Shenango River at Greenville, Pa.

LOCATION.--Lat 41°25'19", long 80°22'35", Mercer County, on left bank 1,700 ft (520 m) downstream from Williamson Crossing Bridge, 1 mi (2 km) northeast of Greenville, and 2.0 mi (3.2 km) upstream from mouth.

DRAINAGE AREA.--104 mi^2 (269 km^2).

PERIOD OF RECORD.--October 1913 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 953.46 ft (290.615 m) above mean sea level, adjustment of 1912. Prior to Nov. 4, 1915, nonrecording gage; Nov. 4, 1915, to Sept. 30, 1918, water-stage recorder; Nov. 7, 1919, to Aug. 31, 1923, and Nov. 19, 1925, to June 20, 1934, nonrecording gage at site 1 mi (2 km) downstream at datum 8.96 ft (2.731 m) lower.

AVERAGE DISCHARGE.--61 years, 140 ft^3/s (3.965 m^3/s), 18.28 in/yr (464 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,790 ft^3/s (79.0 m^3/s) May 12 (gage height, 8.32 ft or 2.536 m); minimum daily, 14 ft^3/s (0.40 m^3/s) Aug. 26.

Period of record: Maximum discharge, 8,540 ft^3/s (242 m^3/s) Jan. 22, 1959 (gage height, 14.30 ft or 4.359 m), from rating curve extended above 3,200 ft^3/s (91 m^3/s) on basis of slope-area measurement at gage height 12.26 ft (3.737 m); minimum, 2.9 ft^3/s (0.082 m^3/s) July 31, 1934 (gage height, 0.58 ft or 0.177 m).

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

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1305: 1914, 1922-23, 1926-29. WSP 1335: 1923 (m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	230	126	163	157	536	437	425	82	456	22	75
2	36	241	95	120	134	630	704	244	84	192	18	84
3	48	138	82	115	121	694	760	181	61	199	17	161
4	38	124	74	100	101	506	623	182	49	119	116	226
5	42	95	82	95	89	488	429	134	43	100	86	107
6	47	63	81	122	90	414	317	136	39	83	38	73
7	34	48	69	90	99	299	270	145	37	54	27	58
8	27	46	59	70	80	338	231	119	37	42	21	48
9	23	41	56	74	70	1,080	227	160	50	37	25	42
10	20	41	76	80	64	1,470	225	211	43	33	32	32
11	19	44	81	78	60	724	330	166	36	30	30	27
12	18	49	63	70	70	425	270	1,390	32	27	22	25
13	17	73	78	62	81	295	227	2,150	30	25	39	28
14	21	98	367	70	142	240	201	925	28	25	35	36
15	31	79	285	80	113	227	391	425	29	26	25	31
16	25	73	134	113	86	420	306	311	58	27	20	27
17	21	76	96	232	83	446	225	246	88	23	27	24
18	20	60	84	280	75	288	175	210	72	21	41	28
19	20	54	86	1,400	72	262	156	177	47	20	29	27
20	20	49	105	1,420	106	250	138	147	54	18	22	29
21	21	45	518	780	111	204	118	120	50	17	18	53
22	21	55	375	634	283	190	113	109	52	16	16	75
23	22	52	219	518	508	217	153	141	45	17	15	53
24	22	46	159	651	264	246	131	142	40	19	15	39
25	24	110	142	378	214	210	112	119	36	18	15	33
26	25	267	511	260	166	204	94	96	103	16	14	30
27	26	147	846	280	151	270	71	80	157	16	20	27
28	29	154	670	268	250	259	79	67	77	15	42	32
29	73	240	330	305	------	382	84	69	70	21	124	58
30	166	189	262	248	------	828	118	93	150	52	178	88
31	157	------	190	196	------	640	------	71	------	33	85	------
TOTAL	1,153	3,027	6,401	9,352	3,840	13,682	7,715	9,191	1,779	1,797	1,234	1,676
MEAN	37.2	101	206	302	137	441	257	296	59.3	58.0	39.8	55.9
MAX	166	267	846	1,420	508	1,470	760	2,150	157	456	178	226
MIN	17	41	56	62	60	190	71	67	28	15	14	24
CFSM	.36	.97	1.98	2.90	1.32	4.24	2.47	2.85	.57	.56	.38	.54
IN.	.41	1.08	2.29	3.35	1.37	4.89	2.76	3.29	.64	.64	.44	.60

CAL YR 1973 TOTAL 53,624 MEAN 147 MAX 1,250 MIN 13 CFSM 1.41 IN 19.18
WTR YR 1974 TOTAL 60,847 MEAN 167 MAX 2,150 MIN 14 CFSM 1.61 IN 21.76

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	1900	7.04	2,020	5-12	2330	8.32	2,790
3-10	0845	6.35	1,680				

03102850 Shenango River near Transfer, Pa.

LOCATION.--Lat 41°21'13", long 80°23'53", Mercer County, on left bank at downstream side of covered wooden bridge, 200 ft (60 m) downstream from highway bridge, 0.6 mi (1.0 km) downstream from Big Run, 2.5 mi (4.0 km) northeast of Transfer, and at mile 71.8 (115.5 km).

DRAINAGE AREA.--337 mi^2 (873 km^2).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 913.94 ft (278.569 m) above mean sea level, (Pennsylvania Department of Transportation bench mark).

AVERAGE DISCHARGE.--9 years, 444 ft^3/s (12.57 m^3/s), 17.89 in/yr (454 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,720 ft^3/s (134 m^3/s) May 12 (gage height, 9.15 ft or 2.789 m); minimum, 98 ft^3/s (2.78 m^3/s) July 21, 22 (gage height, 2.26 ft or 0.689 m).
Period of record: Maximum discharge, 5,010 ft^3/s (142 m^3/s) Dec. 28, 1968 (gage height, 9.72 ft or 2.963 m); minimum, 33 ft^3/s (0.93 m^3/s) July 20-22, 1968 (gage height, 1.71 ft or 0.521 m).

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated since 1933 by Pymatuning Reservoir 13 mi (21 km) upstream (see p.286) and by mills above station.

REVISIONS (WATER YEARS).--WRD Pa. 1967: 1966 (M). WRD Pa. 1971: 1966, 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	698	386	480	804	1,280	872	897	184	1,040	140	246
2	216	594	330	420	774	1,300	1,580	538	184	320	135	250
3	235	410	308	410	700	1,230	1,260	433	156	320	135	495
4	235	364	292	370	660	1,010	1,250	393	139	214	509	509
5	265	308	314	340	620	1,050	838	311	131	195	300	262
6	260	270	308	380	672	807	725	331	134	174	177	204
7	230	250	281	350	718	639	656	317	128	145	150	186
8	220	240	265	370	680	891	586	236	150	133	148	174
9	212	235	265	380	640	2,570	612	327	171	125	168	165
10	208	235	303	400	600	2,590	685	407	148	121	159	153
11	204	240	292	390	580	1,240	926	307	146	117	156	145
12	204	250	265	380	610	805	912	3,340	191	110	148	145
13	208	276	342	380	677	595	831	3,470	223	108	171	150
14	216	314	874	480	797	497	821	1,630	131	108	186	165
15	225	298	636	564	724	477	1,150	1,210	131	121	153	150
16	216	298	370	690	674	982	968	1,030	169	112	140	143
17	212	303	300	1,020	669	852	895	946	202	108	180	140
18	212	276	300	1,020	639	583	886	850	185	106	192	168
19	208	265	295	3,510	658	543	1,030	850	162	106	174	145
20	208	260	581	2,450	722	521	870	818	168	104	168	145
21	208	255	1,380	1,800	668	467	832	786	174	101	145	218
22	204	276	781	1,490	1,060	447	830	770	174	101	138	246
23	204	265	549	1,460	1,190	509	885	856	162	117	138	192
24	204	260	461	1,530	785	553	851	802	151	117	150	162
25	204	452	480	1,110	683	494	815	658	185	115	135	150
26	200	634	1,290	959	603	497	718	578	367	115	130	145
27	200	434	1,730	990	579	628	507	180	393	115	186	140
28	216	494	1,200	966	720	587	440	171	215	115	310	171
29	325	618	784	1,070	------	985	406	171	217	150	660	234
30	488	488	657	956	------	1,670	355	188	408	192	502	270
31	488	------	542	871	------	1,250	------	177	------	156	250	------
TOTAL	7,343	10,560	17,161	27,986	19,906	28,549	24,992	23,978	5,679	5,281	6,433	6,068
MEAN	237	352	554	903	711	921	833	773	189	170	208	202
MAX	488	698	1,730	3,510	1,190	2,590	1,580	3,470	408	1,040	660	509
MIN	200	235	265	340	579	447	355	171	128	101	130	140
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 167,580 MEAN 459 MAX 2,500 MIN 90 CFSM - IN. -
WTR YR 1974 TOTAL 183,936 MEAN 504 MAX 3,510 MIN 101 CFSM - IN. -

03103500 Shenango River at Sharpsville, Pa.

LOCATION.--Lat 41°15'58", long 80°28'22", Mercer County, on left bank 800 ft (240 m) upstream from double highway bridge at Sharpsville, 0.7 mi (1.1 km) downstream from Shenango River Dam, 1.8 mi (2.9 km) upstream from McCullough Run, and at mile 55.1 (88.7 km).

DRAINAGE AREA.--584 mi^2 (1,513 km^2).

PERIOD OF RECORD.--March 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 861.57 ft (262.607 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 718 ft^3/s (20.33 m^3/s), 16.70 in/yr (424 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,400 ft^3/s (96.3 m^3/s) Jan. 30, Mar. 13 (gage height, 6.07 ft or 1.850 m); minimum daily, 130 ft^3/s (3.68 m^3/s) Mar. 28, 29.
Period of record: Maximum discharge, 15,700 ft^3/s (445 m^3/s) Jan. 22, 1959 (gage height, 15.97 ft or 4.868 m); minimum daily, 43 ft^3/s (1.22 m^3/s) Sept. 3, 1941.
Flood of Mar. 26, 1913, reached at stage of 19.3 ft (5.88 m), from Pymatuning survey profile map (discharge not determined).

REMARKS.--Records good. Flow regulated by Pymatuning Reservoir since 1933 and by Shenango River Lake, 0.7 mi (1.1 km) upstream, since 1967 (see p. 286).

COOPERATION.--Four discharge measurements furnished by Corps of Engineers.

REVISIONS.--WRD Pa. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	370	1,910	1,930	3,210	1,730	410	340	321	390	262	721
2	284	370	1,870	1,900	3,100	2,030	860	609	321	735	257	860
3	284	390	1,840	1,870	2,970	2,150	883	907	280	883	257	868
4	284	444	1,800	1,840	2,370	2,250	1,110	907	235	883	262	868
5	288	444	1,750	1,800	1,620	2,250	2,150	899	235	749	262	868
6	288	486	1,100	1,760	1,590	2,230	2,770	899	235	596	262	860
7	288	575	512	1,730	1,550	2,160	2,810	899	235	462	262	860
8	288	568	511	1,680	1,520	1,720	2,760	891	235	311	262	860
9	288	568	511	1,290	1,480	1,870	2,710	883	231	293	262	852
10	316	561	505	813	1,250	2,570	2,180	876	231	275	262	844
11	355	561	505	701	844	2,690	1,660	876	231	275	262	836
12	355	561	505	694	644	2,990	1,650	907	231	266	262	836
13	355	554	504	694	651	3,290	1,650	956	231	266	262	701
14	355	554	511	694	956	3,180	1,640	1,540	226	266	262	433
15	355	554	524	694	1,760	2,570	1,650	2,330	226	266	262	289
16	355	554	524	694	1,520	1,970	1,460	2,640	226	266	262	289
17	355	554	756	708	792	1,950	860	2,310	244	266	262	289
18	355	554	989	728	799	1,130	596	1,910	266	266	262	289
19	355	554	980	498	799	284	852	2,140	266	263	262	289
20	355	547	972	307	891	192	1,130	2,380	266	262	262	293
21	355	547	708	1,160	989	174	1,130	2,360	271	262	262	293
22	355	547	644	2,070	1,060	177	1,130	2,340	271	262	262	293
23	355	547	899	2,090	1,330	181	876	2,310	271	262	262	293
24	355	547	1,030	2,110	1,450	188	602	2,280	271	262	262	293
25	355	547	1,030	2,650	1,490	192	602	2,250	271	262	257	293
26	355	547	1,040	3,170	1,520	196	602	2,220	271	262	257	293
27	355	694	785	3,120	1,480	163	609	1,680	271	262	257	298
28	360	820	828	3,070	1,450	130	609	876	271	262	262	302
29	360	956	1,380	3,000	------	130	602	735	271	262	262	298
30	365	1,580	1,820	3,170	------	142	474	728	275	262	370	302
31	365	------	1,950	3,320	------	146	------	589	------	262	589	------
TOTAL	10,377	17,655	31,193	51,955	41,085	43,025	39,027	44,467	7,686	11,121	8,532	15,963
MEAN	335	589	1,006	1,676	1,467	1,388	1,301	1,434	256	359	275	532
MAX	365	1,580	1,950	3,320	3,210	3,290	2,810	2,640	321	883	589	868
MIN	284	370	504	307	644	130	410	340	226	262	257	289
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 278,026 MEAN 762 MAX 2,060 MIN 234 CFSM - IN. -
WTR YR 1974 TOTAL 322,086 MEAN 882 MAX 3,320 MIN 130 CFSM - IN. -

03104760 Harthegig Run near Greenfield, Pa.

LOCATION.--Lat 41°11'10", long 80°19'38", Mercer County, on right bank at upstream end of wingwall of culvert on Legislative Route 43010 overpass of U.S. Interstate Highway 80, 1.3 mi (2.1 km) upstream from mouth, 2 mi (3 km) southeast of Greenfield, and 6 mi (10 km) southwest of Mercer.

DRAINAGE AREA.--2.26 mi^2 (5.85 km^2).

PERIOD OF RECORD.--Annual maximum, water years 1965-68. October 1968 to current year. Prior to October 1968, published as Little Neshannock Creek tributary near Greenfield and as Hathagig Run near Greenfield, October 1968 to September 1969.

GAGE.--Water-stage recorder, crest-stage gage, and culvert control. Datum of gage is 1,121.16 ft (341.730 m) above mean sea level (Pennsylvania Department of Transportation bench mark). July 14, 1964, to Oct. 4, 1968, crest-stage gage at same site at datum 8.00 ft (2.438 m) lower.

AVERAGE DISCHARGE.--6 years, 3.28 ft^3/s (0.0929 m^3/s), 19.71 in/yr (501 mm/yr).

EXTREMES.--Current year: Maximum discharge, 253 ft^3/s (7.16 m^3/s) Jan. 19 (gage height, 3.06 ft or 0.933 m), from rating curve extended above 30 ft^3/s (0.85 m^3/s) as explained below; minimum discharge, 0.12 ft^3/s (0.003 m^3/s) July, 13, 14, 16, 17, 18, 19, 20, 21, 22; minimum gage height 1.03 ft (0.314 m) July 13, 14, 16, 17, 18, 19, 20, 21, 22, Aug. 23, 25, 26, 27.

Period of record: Maximum discharge, 253 ft^3/s or 7.16 m^3/s Jan. 19, 1974 (gage height, 3.06 ft or 0.933 m), from rating curve extended above 30 ft^3/s (0.85 m^3/s) on basis of computation of peak flow through culvert at gage height, 3.06 ft (0.933 m); minimum discharge, 0.02 ft^3/s (0.001 m^3/s) Aug. 17, 19, 1971; minimum gage height, 1.02 ft (0.311 m) July 6, 14, 15, 17, Aug. 17, 19, 1971.

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

WRD PA Water Year	Date	Discharge (cfs)	Gage Height (feet)
1969	Dec. 28, 1968	about 126	-
1970	June 26, 1970	109	2.06
1971	Feb. 20, 1971	97	1.98
1972	Apr. 15, 1972	251	2.94

REMARKS.--Records good below 10 ft^3/s (0.28 m^3/s) and fair at best above and during winter periods.

REVISIONS.--Some figures of peak discharge for water years 1969-70, 1972 have been revised as shown in the following lists. They supersede figures published in WRD Pa. 1970, 1972.

REVISED PEAK DISCHARGE.--1969: Dec. 28 (unknown) about 126 ft^3/s; Jan. 18 (unknown) 104 ft^3/s (2.03 ft); Jan. 30 (unknown) 108 ft^3/s (2.05 ft); Apr. 5 (1230) 106 ft^3/s (2.04 ft).

1970: Apr. 2 (0700) 91 ft^3/s (1.94 ft); June 26 (1630) 109 ft^3/s (2.06 ft).

1972: Dec. 30 (1215) 133 ft^3/s (2.22 ft); Mar. 1 (about 1800) 115 ft^3/s (2.10 ft); Apr. 15 (0730) 251 ft^3/s (2.94 ft); Apr. 16 (1515) 88 ft^3/s (1.92 ft); Apr. 20 (0930) 85 ft^3/s (1.90 ft); May 2 (2300) 202 ft^3/s (2.65 ft); June 23 (0900) 98 ft^3/s (1.99 ft); July 16 (0945) 80 ft^3/s (1.87 ft).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	10	2.2	1.9	1.3	11	5.9	5.5	.44	13	.13	1.2
2	1.0	3.9	1.8	1.5	1.0	12	19	2.0	.27	1.3	.13	1.2
3	1.0	2.4	1.6	1.2	.70	7.0	11	2.4	.22	.44	.14	9.4
4	1.2	1.8	1.6	1.4	.54	7.4	12	1.2	.22	.27	.20	2.8
5	4.5	1.4	2.6	.70	.40	9.0	3.2	.80	.20	.24	.14	.70
6	1.6	1.0	1.6	.40	.45	4.7	2.8	1.4	.20	.20	.14	.37
7	.84	1.0	1.0	.58	.50	4.7	2.0	1.2	.20	.16	.14	.27
8	.72	.84	.84	.35	.40	4.7	2.0	.70	.32	.14	.14	.22
9	.60	.84	1.8	.45	.30	19	2.8	1.3	.20	.14	.14	.20
10	.50	.84	2.6	.66	.25	13	3.8	1.3	.18	.14	.14	.18
11	.41	1.0	1.4	.50	.18	4.7	4.1	.70	.16	.13	.14	.18
12	.33	1.4	1.0	.35	.15	3.2	2.4	80	.20	.13	.24	.37
13	1.2	1.6	11	.26	.30	2.0	1.8	8.6	.18	.13	.20	.44
14	2.2	1.2	12	1.2	.52	1.8	2.6	2.6	.18	.13	.16	.27
15	.84	1.4	3.6	2.8	.80	1.4	2.4	1.2	.20	.14	.14	.20
16	.60	2.0	2.0	11	.60	11	1.4	1.0	.27	.13	.13	.18
17	.50	1.6	1.0	9.9	.52	4.1	.90	.70	.70	.13	1.1	.18
18	.41	1.2	.35	32	.48	2.0	.80	.44	.24	.13	.20	1.1
19	.41	1.2	.60	67	.60	2.8	.70	.27	.18	.13	.18	.32
20	.33	1.0	11	8.2	.80	2.2	.90	.24	.18	.13	.16	12
21	.33	1.2	11	12	1.3	3.0	.60	.22	2.4	.13	.14	11
22	.33	1.4	3.6	6.6	1.4	3.8	1.2	9.8	.70	.13	.14	3.5
23	.25	1.0	2.4	16	1.8	5.0	1.3	15	1.4	.14	.14	1.1
24	.25	2.2	2.0	7.0	2.6	3.8	1.0	5.3	.44	.14	.14	.60
25	.25	14	3.9	4.7	2.2	7.7	.80	1.3	.22	.13	.14	.44
26	.25	6.2	14	3.5	1.8	3.8	.70	.90	1.4	.13	.13	.32
27	.25	6.9	29	5.0	2.2	4.7	.60	.52	.90	.13	2.4	.27
28	1.0	9.1	8.3	3.8	5.0	3.5	.60	.37	.24	.13	7.0	1.4
29	11	6.5	4.7	3.8	------	10	.52	3.0	.70	.18	9.4	1.3
30	14	3.2	3.6	3.0	------	12	3.9	1.6	14	.14	3.2	1.1
31	10	------	2.4	2.2	------	9.4	------	.90	------	.14	.90	------
TOTAL	58.50	89.32	146.49	209.95	29.09	194.4	93.72	152.46	27.34	18.86	27.82	52.81
MEAN	1.89	2.98	4.73	6.77	1.04	6.27	3.12	4.92	.91	.61	.90	1.76
MAX	14	14	29	67	5.0	19	19	80	14	13	9.4	12
MIN	.25	.84	.35	.26	.15	1.4	.52	.22	.16	.13	.13	.18
CFSM	.84	1.32	2.09	3.00	.46	2.77	1.38	2.18	.40	.27	.40	.78
IN.	.96	1.47	2.41	3.46	.48	3.20	1.54	2.51	.45	.31	.46	.87

CAL YR 1973 TOTAL 1,276.71 MEAN 3.50 MAX 67 MIN .07 CFSM 1.55 IN 21.01
WTR YR 1974 TOTAL 1,100.76 MEAN 3.02 MAX 80 MIN .13 CFSM 1.34 IN 18.12

PEAK DISCHARGE (BASE, 100 CFS).--Jan. 19 (0045) 253 cfs (3.06 ft); May 12 (0245) 205 cfs (2.88 ft).

03105500 Beaver River at Wampum, Pa.

LOCATION.--Lat 40°53'19", long 80°20'14", Lawrence County, on right bank at downstream side of bridge on State Highway 288 at Wampum, 2.9 mi (4.7 km) upstream from Connoquenessing Creek, and at mile 15.4 (24.8 km).

DRAINAGE AREA.--2,235 mi^2 (5,789 km^2).

PERIOD OF RECORD.--July 1914 to September 1918, August 1932 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "at Newport" 1914-18.

GAGE.--Water-stage recorder. Datum of gage is 736.24 ft (224.406 m) above mean sea level (Penn Central Railroad bench mark). Prior to Sept. 20, 1914, nonrecording gage at site 500 ft (150 m) downstream at datum 0.76 ft (0.232 m) lower. Oct. 1, 1914, to Sept. 30, 1918, nonrecording gage at site 1 mi (2 km) upstream at datum 0.84 ft (0.256 m) higher. Aug. 26, 1932, to Nov. 16, 1938, nonrecording gage at present site and datum. Since 1932, auxiliary gage 10 mi (16 km) downstream at station at Beaver Falls which is used during periods of backwater from Connoquenessing Creek.

AVERAGE DISCHARGE.--46 years (1914-18, 1932-74), 2,355 ft^3/s (66.69 m^3/s), 14.31 in/yr (363 mm/yr), adjusted for storage since 1932.

EXTREMES.--Current year: Maximum discharge, 23,700 ft^3/s (671 m^3/s) May 13; maximum gage height, 15.51 ft or 4.727 m May 13 (backwater from Connoquenessing Creek); minimum discharge, 830 ft^3/s (23.5 m^3/s) Oct. 25, 26, 27 (gage height, 3.23 ft or 0.985 m).

Period of record: Maximum discharge, 50,100 ft^3/s (1,420 m^3/s) May 28, 1946, from slope-rating curve extended above 28,000 ft^3/s (790 m^3/s) on basis of contracted-opening measurement at gage height 21.44 ft (6.535 m); maximum gage height, 24.86 ft (7.577 m) Jan. 22, 1959 (backwater from Connoquenessing Creek); minimum discharge observed, 74 ft^3/s (2.10 m^3/s) July 30, 1933 (gage height, 1.70 ft or 0.518 m); minimum daily, 97 ft^3/s (2.75 m^3/s) July 22, Aug. 23, 1933.

Maximum stage since 1912, 29.9 ft (9.114 m) Mar. 26, 1913, from floodmark (discharge, about 87,000 ft^3/s or 2,460 m^3/s).

REMARKS.--Records good. Flow regulated since 1942 by Berlin Lake, since 1916 by Milton Reservoir, since 1966 by Michael J. Kirwan Reservoir, since 1943 by Mosquito Creek Lake, since 1929 by Meander Creek Reservoir, since 1933 by Pymatuning Reservoir, and since 1967 by Shenango River Lake 40 mi (64 km) upstream (see p.285).

REVISIONS (WATER YEARS).--WSP 728: Drainage area. WSP 1385: 1933-40, 1946, 1951-52. WSP 1725: 1960 (adjusted runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,670	3,700	3,700	4,090	6,480	4,970	6,320	3,880	2,040	9,490	970	2,640
2	1,340	2,880	3,230	4,090	6,160	6,440	9,360	3,070	1,580	3,810	1,000	2,930
3	1,510	2,270	3,040	4,020	5,720	7,060	8,740	2,820	1,490	3,470	1,020	3,900
4	1,270	1,790	2,880	3,970	5,360	6,480	10,000	2,640	1,510	2,930	1,540	4,360
5	1,720	1,520	2,950	3,890	4,210	7,020	7,500	2,400	1,440	2,740	1,570	3,320
6	1,460	1,380	2,840	3,880	3,540	6,560	7,320	2,350	1,380	2,250	1,280	2,760
7	1,270	1,380	1,800	3,800	3,390	5,720	7,040	2,320	1,340	1,600	1,150	2,710
8	1,120	1,350	1,510	3,520	3,170	5,520	6,880	2,210	1,470	1,290	1,280	2,640
9	1,070	1,290	1,540	3,280	2,990	7,740	7,240	2,250	1,650	1,180	1,660	2,540
10	990	1,250	1,960	2,740	2,800	16,100	7,180	2,650	1,280	1,240	1,500	2,510
11	1,060	1,270	1,870	2,470	2,450	13,200	6,680	2,730	1,200	1,110	1,360	2,650
12	1,040	1,280	1,780	2,370	2,010	8,720	5,960	12,800	1,190	1,100	1,360	2,700
13	1,030	1,290	1,840	2,180	1,890	7,060	5,440	21,600	1,100	1,080	1,550	2,800
14	1,450	1,280	3,880	2,200	2,190	6,540	5,140	12,400	1,040	1,100	1,340	2,670
15	1,270	1,280	2,960	2,460	2,640	6,220	5,920	6,320	1,050	1,470	1,140	1,890
16	1,170	1,510	2,280	3,460	3,190	7,280	5,540	5,960	1,330	1,380	1,080	1,450
17	1,050	1,400	1,760	5,140	2,310	7,680	4,560	5,720	1,270	1,210	1,340	1,180
18	1,010	1,350	1,850	4,820	1,880	6,720	3,100	5,320	1,190	1,010	1,250	1,350
19	970	1,360	1,880	19,200	1,870	5,540	2,370	5,000	1,150	990	1,190	1,420
20	920	1,290	2,850	16,500	2,120	4,060	2,540	5,320	1,100	980	1,170	1,410
21	880	1,250	7,220	8,700	2,270	3,860	2,530	5,180	1,280	960	1,110	2,240
22	880	1,360	5,080	7,020	3,460	3,700	2,510	4,700	1,450	960	1,210	2,180
23	880	1,310	3,830	7,320	4,860	3,890	2,680	5,560	1,410	1,150	1,190	1,720
24	890	1,400	3,100	8,820	4,210	3,980	2,150	5,400	1,220	1,160	1,240	1,420
25	850	3,140	2,930	7,520	3,580	3,840	1,870	4,940	1,200	990	1,190	1,240
26	841	4,050	4,930	7,080	3,190	3,860	1,750	4,420	2,060	940	1,190	1,150
27	841	3,460	9,110	7,280	3,010	4,620	1,660	4,080	1,880	900	1,510	1,070
28	940	3,840	6,380	7,200	3,150	4,220	1,610	2,960	1,460	940	4,280	1,210
29	2,530	3,630	4,950	7,070	------	4,240	1,580	2,880	1,440	980	4,310	1,290
30	4,060	3,420	4,480	6,840	------	6,660	1,870	2,880	2,560	1,050	4,190	1,360
31	3,740	------	4,220	6,760	------	7,580	------	2,730	------	980	3,230	------
TOTAL	41,722	58,980	104,630	179,690	94,100	197,080	145,040	155,490	42,760	52,440	50,400	64,710
MEAN	1,346	1,966	3,375	5,796	3,361	6,357	4,835	5,016	1,425	1,692	1,626	2,157
MAX	4,060	4,050	9,110	19,200	6,480	16,100	10,000	21,600	2,560	9,490	4,310	4,360
MIN	841	1,250	1,510	2,180	1,870	3,700	1,580	2,210	1,040	900	970	1,070
MEAN≠/	1,133	2,252	3,965	5,843	2,684	7,887	4,822	5,266	1,198	1,217	1,519	1,536
CFSM≠	.51	1.01	1.77	2.61	1.20	3.53	2.16	2.36	.54	.54	.68	.69
IN.≠	.59	1.13	2.04	3.01	1.25	4.07	2.41	2.72	.60	.62	.78	.77

CAL YR 1973 TOTAL 1,074,141 MEAN 2,943 MAX 16,300 MIN 841 MEAN≠ 2,994 CFSM≠ 1.34 IN.≠ 18.18
WTR YR 1974 TOTAL 1,187,042 MEAN 3,252 MAX 21,600 MIN 841 MEAN≠ 3,290 CFSM≠ 1.47 IN.≠ 19.99

≠ Adjusted for change in contents in Berlin Lake, Milton Reservoir, Michael J. Kirwan Reservoir, Mosquito Creek Lake, Meander Creek Reservoir, Pymatuning Reservoir, and Shenango River Lake.

03106000 Connoquenessing Creek near Zelienople, Pa.

LOCATION.--Lat 40°49'01", long 80°14'33", Beaver County, on right bank at downstream side of highway bridge at Hazen, 0.3 mi (0.5 km) upstream from Brush Creek, 4 mi (6 km) southeast of Ellwood City, and 6 mi (10 km) west of Zelienople.

DRAINAGE AREA.--356 mi^2 (922 km^2).

PERIOD OF RECORD.--October 1919 to current year. Monthly discharge only for some periods, published in WSP 1305. June 1915 to September 1919 (gage heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania. Published as "at Hazen" 1915-16, 1929-63, and as "near Hazen" 1917-28.

GAGE.--Water-stage recorder. Datum of gage is 852.31 ft (259.784 m) above mean sea level, adjustment of 1912. Prior to June 23, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--55 years, 466 ft^3/s (13.20 m^3/s), 17.78 in/yr (452 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,500 ft^3/s (382 m^3/s) July 1 (gage height, 13.93 ft or 4.246 m); minimum, 62 ft^3/s (1.76 m^3/s), Aug. 27 (gage height, 1.21 ft or 0.369 m).
Period of record: Maximum discharge, 23,000 ft^3/s (651 m^3/s) June 29, 1924 (gage height, 16.66 ft or 5.078 m), from rating curve extended above 18,000 ft^3/s (510 m^3/s); minimum observed, 6.0 ft^3/s (0.17 m^3/s) July 21-23, 1936; minimum gage height, 0.76 ft (0.232 m) Aug. 8, Sept. 16-17, 1966.

REMARKS.--Records good except those for winter periods, which are fair. Some regulation by mills above station.

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 893: 1937-38, 1939 (M). WSP 1305: 1922-26, 1928. WSP 1335: 1920-21, 1924 (M). WSP 1385: 1952.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	1,880	895	618	650	710	1,070	646	465	10,200	92	953
2	294	1,470	693	476	572	740	2,990	436	362	2,720	83	846
3	413	998	580	417	525	890	2,400	450	285	1,150	78	1,920
4	311	698	503	392	445	854	2,360	537	238	722	149	2,080
5	531	530	482	311	333	908	1,600	419	205	692	265	1,100
6	495	430	425	280	250	860	1,240	399	181	590	130	735
7	316	349	331	240	240	722	1,010	378	164	388	102	566
8	241	297	279	210	230	1,100	873	322	149	305	95	433
9	200	268	303	340	220	3,280	1,140	317	174	254	123	345
10	172	250	624	300	210	4,420	1,000	370	151	460	368	292
11	149	232	477	260	210	2,500	971	296	132	854	186	258
12	131	217	401	230	270	1,620	897	2,170	124	357	126	236
13	122	212	450	220	320	1,120	839	2,990	120	260	140	276
14	163	198	1,100	300	406	861	783	1,510	106	214	402	552
15	158	195	920	410	333	733	916	983	99	271	164	356
16	129	520	772	560	289	1,030	718	713	240	247	120	263
17	118	430	590	740	301	926	589	546	214	180	123	227
18	104	333	440	950	264	748	507	820	147	153	149	247
19	98	313	410	4,830	268	711	450	537	121	144	114	243
20	93	282	513	3,650	445	626	385	388	149	133	95	203
21	91	257	1,010	2,060	378	725	337	317	133	116	84	469
22	85	264	699	1,510	830	1,070	318	285	184	106	77	1,020
23	82	241	570	1,260	1,240	840	363	474	290	106	77	594
24	82	235	492	1,360	956	773	319	477	268	134	74	448
25	80	1,050	443	1,070	830	643	277	368	168	122	74	368
26	77	1,720	712	932	662	560	245	281	253	102	66	323
27	77	1,640	1,400	926	602	505	224	238	279	93	85	281
28	90	2,310	1,200	818	614	445	206	208	173	107	2,350	250
29	861	1,740	1,000	998	------	536	194	489	164	179	3,030	235
30	1,790	1,180	893	854	------	1,250	204	1,200	524	138	3,340	252
31	1,650	------	716	764	------	1,230	------	653	------	107	1,750	------
TOTAL	9,639	20,739	20,323	28,286	12,893	33,936	25,425	20,217	6,262	21,604	14,111	16,371
MEAN	311	691	656	912	460	1,095	848	652	209	697	455	546
MAX	1,790	2,310	1,400	4,830	1,240	4,420	2,990	2,990	524	10,200	3,340	2,080
MIN	77	195	279	210	210	445	194	208	99	93	66	203
CFSM	.87	1.94	1.84	2.56	1.29	3.08	2.38	1.83	.59	1.96	1.28	1.53
IN.	1.01	2.17	2.12	2.96	1.35	3.55	2.66	2.11	.65	2.26	1.47	1.71

CAL YR 1973 TOTAL 202,326 MEAN 554 MAX 6,090 MIN 52 CFSM 1.56 IN 21.14
WTR YR 1974 TOTAL 229,806 MEAN 630 MAX 10,200 MIN 66 CFSM 1.77 IN 24.01

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	1600	9.60	6,470	5-12	2200	8.53	5,190
3-10	0600	8.47	5,170	7- 1	1230	13.93	13,500

03106300 Muddy Creek near Portersville, Pa.

LOCATION.--Lat 40°57'47", long 80°07'41", Butler County, on left bank at upstream side of highway bridge on blacktop road at Portersville Station, 0.1 mi (0.2 km) north of U.S. Highway 422, 0.5 mi (0.8 km) downstream from Lake Arthur Dam, and 3 mi (5 km) north of Portersville.

DRAINAGE AREA.--51.2 mi^2 (132.6 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,155.20 ft (352.105 m) above mean sea level. Prior to Apr. 8, 1963, nonrecording gage at site 1,000 ft (300 m) downstream at different datum. Apr. 8 to May 1, 1963, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--11 years, 72.2 ft^3/s (2.045 m^3/s), 19.15 in/yr (486 mm/yr) adjusted for storage since May 1969.

EXTREMES.--Current year: Maximum discharge, 300 ft^3/s (8.50 m^3/s) Dec. 21 (gage height, 3.52 ft or 1.073 m); minimum daily, 7.5 ft^3/s (0.21 m^3/s) Aug. 3, 12.

Period of record: Maximum discharge, 1,640 ft^3/s (46.4 m^3/s) Mar. 10, 1964 (gage height, 8.18 ft or 2.493 m), from rating curve extended above 820 ft^3/s (23 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.4 ft^3/s (0.011 m^3/s) Sept. 17, 1966; minimum gage height, 1.09 ft (0.332 m) Sept. 26, 1972.

REMARKS.--Records good. Some regulation from October 1966 to May 1969 and completely regulated thereafter by Lake Arthur 0.5 mi (0.8 km) upstream (see p. 286).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	220	88	260	15	79	154	63	81	243	11	78
2	64	190	93	260	16	87	210	69	74	258	9.5	77
3	68	185	88	260	15	94	250	63	65	238	7.5	89
4	65	174	116	260	15	97	285	60	59	210	9.5	102
5	65	152	167	258	15	101	285	59	55	190	9.5	100
6	64	139	147	258	15	109	275	57	50	168	9.5	93
7	60	129	136	258	16	108	263	56	47	146	8.5	84
8	55	117	125	106	16	116	248	57	44	124	8.5	77
9	51	105	116	11	16	133	235	57	51	108	10	68
10	46	101	113	12	17	176	218	57	46	95	10	62
11	43	95	105	39	17	190	210	58	37	83	10	57
12	39	90	101	70	17	192	198	144	37	68	7.5	56
13	37	85	102	70	30	157	185	248	33	58	9.5	56
14	38	83	103	70	42	164	185	290	28	51	23	62
15	35	89	105	70	64	168	203	275	29	51	21	56
16	31	73	102	72	64	174	192	255	40	45	18	48
17	28	73	93	71	63	164	176	225	41	40	18	42
18	25	73	89	73	63	164	162	200	38	35	18	42
19	24	72	85	83	63	162	150	176	35	29	16	42
20	22	72	188	76	64	152	138	154	33	25	15	38
21	21	72	288	147	64	152	126	134	30	20	14	42
22	20	72	278	208	65	154	100	124	29	17	12	50
23	19	72	268	244	67	150	58	136	34	17	12	50
24	19	73	264	244	72	138	57	132	31	16	11	46
25	18	81	264	244	72	136	56	120	28	15	10	42
26	17	93	266	242	74	124	54	110	47	13	8.0	38
27	17	81	264	244	75	122	53	96	55	12	14	37
28	22	48	262	244	75	117	49	87	52	13	69	35
29	43	68	262	244	------	124	47	92	54	16	92	30
30	71	82	260	244	------	138	53	95	83	15	93	30
31	150	------	260	106	------	140	------	90	------	13	86	------
TOTAL	1,348	3,059	5,198	5,048	1,207	4,282	4,875	3,839	1,366	2,432	670.5	1,729
MEAN	43.5	102	168	163	43.1	138	163	124	45.5	78.5	21.6	57.6
MAX	150	220	288	260	75	192	285	290	83	258	93	102
MIN	17	48	85	11	15	79	47	56	28	12	7.5	30
CFSM	-	-	-	-	-	-	-	-	-	-	-	-
IN.	-	-	-	-	-	-	-	-	-	-	-	-

CAL YR 1973 TOTAL 29,202.6 MEAN 80.0 MAX 342 MIN 1.5 CFSM - IN. -
WTR YR 1974 TOTAL 35,053.5 MEAN 96.0 MAX 290 MIN 7.5 CFSM - IN. -

03106500 Slippery Rock Creek at Wurtemburg, Pa.

LOCATION.--Lat 40°53'02", long 80°14'02", Lawrence County, on left bank at downstream side of highway bridge at Camp Allegheny, 2 mi (3 km) north of Wurtemburg, and 2.8 mi (4.5 km) upstream from mouth.

DRAINAGE AREA.--398 mi^2 (1,031 km^2).

PERIOD OF RECORD.--October 1911 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 832.06 ft (253.612 m) above mean sea level. Jan. 1, 1912, to Sept. 30, 1922, nonrecording gage at site 1.5 mi (2.4 km) downstream at datum 13.77 ft (4.197 m) lower and Oct. 1, 1922, to Sept. 30, 1940, nonrecording gage at site 2 mi (3 km) downstream at datum 18.92 ft (5.767 m) lower.

AVERAGE DISCHARGE.--63 years, 561 ft^3/s (15.89 m^3/s), 19.14 in/yr (486 mm/yr), adjusted for storage since May 1969.

EXTREMES.--Current year: Maximum discharge, 8,160 ft^3/s (231 m^3/s) June 30 (gage height, 7.63 ft or 2.326 m); minimum, 59 ft^3/s (1.67 m^3/s) Aug. 27 (gage height, 0.35 ft or 0.107 m).
Period of record: Maximum discharge, 19,000 ft^3/s (538 m^3/s) Jan. 25, 1937 (gage height, 12.05 ft or 3.673 m, from floodmark, site and datum then in use), from rating curve extended above 14,000 ft^3/s (400 m^3/s); minimum observed, 16 ft^3/s (0.45 m^3/s) Sept. 13, 1932.

REMARKS.--Records good except those for winter periods, which are fair. Some regulation since May, 1969 by Lake Arthur 13 mi (21 km) upstream (see p. 286).

REVISIONS (WATER YEARS).--WSP 743: Drainage area. WSP 1305: 1914-18, 1920-22, 1923-24 (M), 1925-28, 1930. WSP 1385: 1932, 1935, 1936 (M), 1937-39. WSP 1625: 1955.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	552	2,170	908	875	582	1,200	1,530	1,570	398	3,290	112	302
2	344	1,710	729	746	518	1,530	2,710	1,350	352	1,380	99	265
3	1,020	1,210	628	703	487	1,650	2,300	829	313	833	90	679
4	825	863	596	668	427	1,430	2,720	712	288	567	118	933
5	793	670	708	550	327	1,510	2,160	582	273	468	146	551
6	771	561	695	470	300	1,440	1,610	555	259	408	129	340
7	486	489	577	380	280	1,080	1,370	596	248	349	106	268
8	350	444	504	320	260	1,020	1,170	525	251	294	93	231
9	297	408	522	270	250	1,590	1,230	536	374	260	97	207
10	260	387	798	220	240	3,330	1,200	664	280	347	97	186
11	231	384	704	250	230	2,330	1,310	564	234	272	98	171
12	209	380	547	280	290	1,540	1,160	4,020	224	220	94	165
13	200	383	618	320	360	1,150	1,020	6,540	218	193	140	207
14	297	384	1,370	350	500	914	1,030	3,260	208	177	186	283
15	364	390	1,220	440	470	810	1,510	1,820	207	211	130	231
16	261	597	777	731	378	1,330	1,330	1,300	400	205	103	185
17	211	626	564	1,220	362	1,470	1,030	999	481	178	113	158
18	192	511	441	1,250	325	1,040	843	825	338	156	118	185
19	182	460	482	5,700	335	876	739	676	256	147	105	213
20	172	437	738	5,980	600	836	657	567	240	138	93	191
21	163	402	1,870	2,820	580	907	581	491	228	125	82	397
22	156	415	1,580	2,120	1,110	1,180	547	482	250	112	76	710
23	148	404	1,090	1,910	1,600	1,020	633	817	262	117	69	457
24	146	420	870	2,110	1,070	873	590	943	240	133	70	286
25	139	1,520	818	1,630	782	776	501	710	225	126	67	227
26	134	2,100	1,620	1,270	613	711	441	526	768	119	63	200
27	133	1,640	2,530	1,240	545	697	395	439	781	109	143	182
28	154	1,640	2,140	1,290	639	653	361	380	408	113	1,230	173
29	798	1,500	1,450	1,190	------	789	341	498	355	157	1,200	187
30	2,050	1,200	1,170	1,050	------	1,690	409	638	1,400	131	768	209
31	2,320	------	977	832	------	1,720	------	490	------	125	451	------
TOTAL	14,358	24,705	30,241	39,185	14,460	39,092	33,428	34,904	10,759	11,460	6,486	8,979
MEAN	463	824	976	1,264	516	1,261	1,114	1,126	359	370	209	299
MAX	2,320	2,170	2,530	5,980	1,600	3,330	2,720	6,540	1,400	3,290	1,230	933
MIN	133	380	441	220	230	653	341	380	207	109	63	158
MEAN≠	471	822	906	1,290	541	1,281	1,110	1,130	380	330	229	284
CFSM≠	1.18	2.07	2.28	3.24	1.36	3.22	2.79	2.84	.95	.83	.58	.71
IN.≠	1.36	2.31	2.63	3.74	1.42	3.71	3.11	3.27	1.06	.96	.67	.79

CAL YR 1973 TOTAL 253,463 MEAN 694 MAX 4,430 MIN 82 MEAN≠ 705 CFSM≠ 1.77 IN.≠ 24.05
WTR YR 1974 TOTAL 268,057 MEAN 734 MAX 6,540 MIN 63 MEAN≠ 733 CFSM≠ 1.84 IN.≠ 25.03

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-20	0400	7.33	7,560	5-13	1130	7.16	7,220
3- 9	2400	5.15	3,600	6-30	2200	7.63	8,160

≠ Adjusted for change in contents in Lake Arthur.

03107500 Beaver River at Beaver Falls, Pa.

LOCATION.--Lat 40°45'48", long 80°18'55", Beaver County, on left bank at Beaver Falls, 200 ft (60 m) upstream from pumping plant of Beaver Falls Municipal Authority, 7.0 mi (11.3 km) downstream from Connoquenessing Creek, and at mile 5.5 (8.8 km).

DRAINAGE AREA.--3,106 mi^2 (8,045 km^2).

PERIOD OF RECORD.--October 1935 to current year (fragmentary records only prior to October 1956). Gage-height records collected at same site since 1908 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder and concrete dam control. Datum of gage is 727.48 ft (221.736 m) above mean sea level, (Corps of Engineers bench mark). Prior to Dec. 3, 1941, nonrecording gage at site 200 ft (60 m) downstream at same datum.

AVERAGE DISCHARGE.--18 years (1956-74), 3,450 ft^3/s (97.70 m^3/s), 15.08 in/yr (383 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 33,200 ft^3/s (940 m^3/s) May 13 (gage height, 10.42 ft or 3.176 m); minimum daily, 1,100 ft^3/s (31.2 m^3/s) July 27.

Period of record: Maximum discharge, 69,900 ft^3/s (1,980 m^3/s) Jan. 22, 1959 (gage height, 14.42 ft or 4.395 m); minimum not determined.

Flood of Mar. 27, 1913 reached a stage of 17.4 ft or 5.30 m (discharge, 103,000 ft^3/s or 2,920 m^3/s, from rating curve extended above 60,000 ft^3/s or 1,700 m^3/s).

REMARKS.--Records good above 2,000 ft^3/s (57 m^3/s) and fair below except those below 1,200 ft^3/s (34 m^3/s), which are poor. Pumpage from gage pool (averaging 3.4 ft^3/s or 0.096 m^3/s in 1935 and 6.0 ft^3/s or 0.17 m^3/s at present) for local water supply returns to river 2 mi (3 km) downstream; information furnished by Beaver Falls Municipal Authority. Flow regulated since 1942 by Berlin Lake, since 1916 by Milton Reservoir, since 1966 by Michael J. Kirwan Reservoir, since 1943 by Mosquito Creek Lake, since 1929 by Meander Creek Reservoir, since 1933 by Pymatuning Reservoir, since 1967 by Shenango River Lake, (all over 50 mi or 80 km upstream), and since 1969 by Lake Arthur 29 mi (47 km) upstream (see pp. 285, 286).

REVISIONS (WATER YEARS).--WSP 1725: 1960 (adjusted runoff).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,870	7,630	5,560	5,620	7,570	6,180	8,930	5,560	3,050	22,200	1,170	4,130
2	2,110	6,200	4,750	5,310	7,070	8,080	15,000	4,950	2,380	9,750	1,180	4,200
3	2,820	4,550	4,320	5,060	6,560	9,270	14,000	4,070	2,050	5,860	1,190	5,900
4	2,490	3,460	4,070	4,940	6,020	8,350	15,400	3,980	1,950	4,550	1,800	7,900
5	2,840	2,820	4,160	4,670	4,800	8,940	11,700	3,490	1,820	4,100	1,980	5,270
6	2,840	2,430	4,010	4,740	4,100	8,680	10,400	3,310	1,720	3,610	1,540	4,040
7	2,220	2,270	2,870	4,610	4,380	7,280	9,450	3,310	1,650	2,590	1,370	3,670
8	1,800	2,130	2,390	4,070	4,180	7,540	8,840	3,100	1,750	2,030	1,470	3,400
9	1,650	2,030	2,410	3,830	3,730	12,400	9,600	3,100	2,240	1,690	1,880	3,160
10	1,580	1,980	3,370	3,400	3,340	23,200	9,450	3,640	1,710	2,040	1,970	3,020
11	1,540	1,920	3,160	3,340	3,050	18,400	8,980	3,640	1,570	2,240	1,640	3,100
12	1,490	1,900	2,800	3,360	2,690	12,500	7,990	15,000	1,540	1,680	1,580	3,100
13	1,450	1,900	2,890	2,820	2,610	9,550	7,240	30,600	1,440	1,530	1,830	3,250
14	1,820	1,900	6,160	2,920	3,020	8,300	6,920	18,000	1,350	1,490	1,930	3,580
15	1,870	1,870	5,330	3,350	3,390	7,490	8,260	9,450	1,360	1,950	1,430	2,680
16	1,650	2,540	4,090	5,190	3,770	9,200	7,540	7,940	2,030	1,830	1,300	2,030
17	1,560	2,540	3,110	8,010	3,030	9,900	6,200	7,120	2,110	1,570	1,570	1,680
18	1,490	2,240	2,800	7,500	2,480	8,210	4,590	6,920	1,700	1,320	1,520	1,770
19	1,430	2,160	2,860	25,600	2,460	6,840	3,610	6,160	1,630	1,280	1,400	1,950
20	1,360	2,080	3,770	25,600	3,060	5,450	3,610	6,050	1,630	1,250	1,360	1,800
21	1,300	1,950	10,000	14,200	3,260	5,160	3,490	5,820	1,700	1,200	1,280	2,930
22	1,250	2,050	7,500	10,900	4,830	5,900	3,400	5,310	1,870	1,180	1,350	4,070
23	1,210	2,000	5,680	10,300	7,640	5,520	3,670	6,480	2,030	1,370	1,340	2,990
24	1,190	2,030	4,660	12,400	6,320	5,410	3,220	6,640	1,870	1,430	1,380	2,300
25	1,170	5,070	4,320	10,300	5,240	5,090	2,760	5,860	1,680	1,240	1,330	1,950
26	1,150	8,140	6,880	9,180	4,450	4,850	2,540	5,090	2,990	1,160	1,320	1,770
27	1,140	6,800	12,800	9,240	4,070	5,520	2,380	4,650	3,160	1,100	1,740	1,650
28	1,140	8,080	9,970	9,140	4,220	5,130	2,240	3,580	2,190	1,160	7,320	1,700
29	3,460	7,240	7,450	9,130	------	5,160	2,190	3,880	2,000	1,310	8,930	1,770
30	7,630	6,090	6,580	8,620	------	9,160	2,400	5,020	3,580	1,320	8,350	1,850
31	7,760	------	5,950	8,230	------	10,800	------	4,040	------	1,220	5,970	------
TOTAL	67,280	106,000	156,670	245,580	121,340	263,460	206,000	205,760	59,750	88,250	71,420	92,610
MEAN	2,170	3,533	5,054	7,922	4,334	8,499	6,867	6,637	1,992	2,847	2,304	3,087
MAX	7,760	8,140	12,800	25,600	7,640	23,200	15,400	30,600	3,580	22,200	8,930	7,900
MIN	1,140	1,870	2,390	2,820	2,460	4,850	2,190	3,100	1,350	1,100	1,170	1,650
MEAN≠	1,965	3,817	5,574	7,995	3,682	10,050	6,851	6,891	1,786	2,332	2,217	2,451
CFSM≠	.63	1.23	1.79	2.57	1.19	3.24	2.21	2.22	.58	.75	.71	.79
IN.≠	.73	1.37	2.06	2.96	1.24	3.74	2.47	2.56	.65	.86	.82	.88

CAL YR 1973 TOTAL 1,560,630 MEAN 4,276 MAX 24,600 MIN 1,110 MEAN≠ 4,338 CFSM≠ 1.40 IN.≠ 18.93
WTR YR 1974 TOTAL 1,684,120 MEAN 4,614 MAX 30,600 MIN 1,100 MEAN≠ 4,651 CFSM≠ 1.50 IN.≠ 20.34

≠ Adjusted for change in contents in Berlin Lake, Milton Reservoir, Michael J. Kirwan Reservoir, Mosquito Creek Lake, Meander Creek Reservoir, Pymatuning Reservoir, Shenango River Lake, and Lake Arthur.

Lakes and reservoirs in Beaver River basin

03090000 BERLIN LAKE.--Lat 41°02'46", long 81°00'10", in T. 1 N., R. 6 W., Portage County, Ohio, at dam on Mahoning River, 3.2 mi (5.1 km) northwest of Berlin Center, Ohio. Drainage area, 248 mi^2 (642 km^2). Period of record, December 1942 to current year. Prior to October 1970 published as "Berlin Reservoir". Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 72,860 acre-ft (89.8 hm^3) May 14 (elevation, 1,028.32 ft or 313.432 m); minimum, 27,890 acre-ft (34.4 hm^3) Sept. 30 (elevation, 1,012.78 ft or 308.695 m). Extremes for period of record: Maximum contents, 91,150 acre-ft (112 hm^3) July 8, 1943 (elevation, 1,032.0 ft or 314.55 m); minimum, 1,540 acre-ft (1.90 hm^3) Jan. 10, 1944 (elevation, 978.82 ft or 298.344 m).

Lake is formed by earthfill dam with concrete spillway. Storage began in December 1942. Usable capacity 91,150 acre-ft (112 hm^3) between elevations 956.5 ft or 291.54 m (invert in lowest outlet) and 1,032.0 ft or 314.55 m (top of Tainter gates on controlled section) of which 1,800 acre-ft (2.22 hm^3) is in the conservation pool (elevation, 980.0 ft or 298.70 m). No dead storage. Flow is normally controlled by sluiceways through dam but additional releases can be made through gages on controlled section of spillway. Lake is used for flood control and to augment flow of Mahoning River during periods of low flow. Water used for industrial purposes in vicinity of Warren and Youngstown, Ohio. Records furnished by Corps of Engineers.

03091000 MILTON RESERVOIR.--Lat 41°07'38", long 80°58'40", in T. 2 N., R. 5 W., Mahoning County, Ohio, at dam on Mahoning River, 0.8 mi (1.3 km) southwest of Pricetown, Ohio. Drainage area, 273 mi^2 (707 km^2). Period of record, December 1923 to current year. Monthend contents for some periods, published in WSP 1305. Water-stage recorder. Datum of gage is at mean sea level (levels by city of Youngstown, Ohio). Prior to Oct. 7, 1941, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 27,500 acre-ft (33.9 hm^3) Dec. 17, 18, 19 (elevation, 950.15 ft or 289.606 m); minimum, 11,590 acre-ft (14.3 hm^3) Jan. 17 (elevation, 939.40 ft or 286.329 m). Extremes for period of record: Maximum contents, 35,020 acre-ft (43.2 hm^3) June 29, 1924 (elevation, 953.8 ft or 290.72 m); minimum, 1,220 acre-ft (1.50 hm^3) Jan. 23, 1954 (elevation, 924.27 ft or 281.717 m, from graph based on gage readings).

Reservoir is formed by earthfill dam with concrete spillway. Storage began in 1916. Usable capacity 29,150 acre-ft (35.9 hm^3) between elevations 906.0 ft or 276.15 m (bottom of gates) and 951.0 ft or 289.86 m (top of gates). No dead storage. Flow is regulated by two 16-in (40.6 cm) and four 36-in (91.4 cm) gates on spillway. Reservoir is used to augment flow of Mahoning River during periods of low flow. Water used for industrial purposes in vicinity of Warren and Youngstown, Ohio. Capacity table computed from base data furnished by city of Youngstown, Ohio, Division of Water.

03092450 MICHAEL J. KIRWAN RESERVOIR.--Lat 41°09'24", long 81°04'47", in T. 3 N., R. 6 W., Portage County, Ohio, at dam on West Branch Mahoning River, 0.5 mi (0.8 km) southwest of Wayland, Ohio. Drainage area, 80.5 mi^2 (208.5 km^2). Period of record, December 1966 to current year. Prior to October 1969 published as "West Branch Reservoir". Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 66,850 acre-ft (82.4 hm^3) May 14 (elevation, 989.16 ft or 301.496 m); minimum, 42,330 acre-ft (52.2 hm^3) Oct. 28 (elevation, 979.65 ft or 298.597 m). Extremes for period of record: Maximum contents, 66,940 acre-ft (82.5 hm^3) Apr. 18, 1972 (elevation, 989.19 ft or 301.505 m); minimum, 5,370 acre-ft (6.62 hm^3) Jan. 5, 1967 (elevation, 953.50 ft or 290.627 m).

Reservoir is formed by earthfill dam with concrete spillway. Storage began in December 1966. Usable capacity 78,660 acre-ft (97.0 hm^3) between elevations 936.8 ft or 285.54 m (lowest outlet) and 993.0 ft or 302.67 m (crest of spillway) of which 3,740 acre-ft (4.61 hm^3) is in conservation pool. Dead storage below elevation 936.8 ft or 285.54 m, 85 acre-ft (105,000 m^3). Figures given herein represent usable contents. Flow is controlled by gates in concrete conduits in dam. Reservoir is used for flood control and to augment flow of Mahoning River during periods of low flow. Records furnished by Corps of Engineers.

03095000 MOSQUITO CREEK LAKE.--Lat 41°17'58", long 80°45'31", T. 5 N., R. 3 W., Trumbull County, Ohio, at dam on Mosquito Creek, 3 mi (5 km) southwest of Cortland, Ohio. Drainage area, 97.5 mi^2 (252.5 km^2). Period of record, October 1943 to current year. Prior to October 1970 published as "Mosquito Creek Reservoir". Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Extremes for current year: Maximum contents, 93,120 acre-ft (115 hm^3) May 14 (elevation, 902.96 ft or 275.222 m); minimum, 55,860 acre-ft (68.9 hm^3) Oct. 27, 28 (elevation, 897.97 ft or 273.701 m). Extremes for period of record: Maximum contents, 99,100 acre-ft (122 hm^3) June 3, 1947 (elevation, 903.65 ft or 275.433 m); minimum, 8,600 acre-ft (10.6 km^3) Nov. 16, 1944 (elevation, 886.97 ft or 270.348 m).

Lake is formed by earthfill dam. A natural wasteway (elevation, 903.5 ft or 275.39 m) discharges into the Grand River basin. Storage began in October 1943. Usable capacity 102,200 acre-ft (126 hm^3) between elevations 881.0 ft or 268.53 m (lowest outlet) and 904.00 ft or 275.539 m (reservoir-full level). Dead storage below 881.0 ft (268.53 m), 2,000 acre-ft (2.47 hm^3). Figures given herein represent usable contents. Flow is controlled by gates in concrete conduits through dam. Reservoir is used for flood control and to augment flow of Mahoning River during periods of low flow. Water is used for industrial purposes in vicinity of Warren and Youngstown, Ohio, and for municipal supply of city of Warren, Ohio. Records furnished by Corps of Engineers.

03097000 MEANDER CREEK RESERVOIR.--Lat 41°09'12", long 80°46'45", in T. 3 N., R. 3 W., Trumbull County, Ohio, on right side of spillway near center of dam on Meander Creek, 0.8 mi (1.3 km) northwest of Mineral Ridge, Ohio. Drainage area, 83.9 mi^2(217.3 hm^2). Period of record, November 1929 to current year. Monthend contents for some periods, published in WSP 1305. Water-stage recorder. Datum of gage is at mean sea level (levels by Mahoning Valley Sanitary District). Extremes for current year: Maximum contents, 37,900 acre-ft (46.7 hm^3) May 12 (elevation, 907.59 ft or 276.633 m); minimum, 20,640 acre-ft (25.4 hm^3) Nov. 23 (elevation, 898.15 ft or 273.756 m). Extremes for period of record: Maximum contents, 41,800 acre-ft (51.5 hm^3) Jan. 21, 1959 (elevation, 909.25 ft or 277.139 m); minimum, 9,370 acre-ft (11.6 hm^3) Feb. 28, 1954 (elevation, 888.78 ft or 270.900 m).

Reservoir is formed by earthfill dam with concrete spillway. Storage began in 1929. Capacity at spillway level (elevation, 905 ft or 275.8 m), 32,410 acre-ft (40.0 hm^3). No dead storage. Figures given herein represent usable contents. Water used for municipal supply of cities of Niles and Youngstown, Ohio. Gage-height record furnished by Corps of Engineers. Capacity table computed from base data furnished by Mahoning Valley Sanitary District.

Lakes and reservoirs in Beaver River basin--Continued

03100500 PYMATUNING RESERVOIR.--Lat 41°29'54", long 80°27'47", Crawford County, in gatehouse at Pymatuning Dam on Shenango River, 1.8 mi (2.9 km) northwest of Jamestown, Pa., and at mile 85.1 (136.9 km). Drainage area, 158 mi^2 (409 km^2). Period of record, October 1932 to current year. Contents prior to October 1938 published in WSP 1305. Water-stage recorder. Datum of gage is at mean sea level, adjustment of 1907. Prior to Nov. 20, 1934, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 198,590 acre-ft (245 hm^3) May 15 (elevation, 1,008.72 ft or 307.458 m); minimum, 152,550 acre-ft (188 hm^3) Feb. 21 (elevation, 1,005.46 ft or 306.464 m). Extremes for period of record: Maximum contents, 210,680 acre-ft (260 hm^3) June 26, 1972 (elevation, 1,009.53 ft or 307.705 m); minimum (after first filling), 110,570 acre-ft (136 hm^3) Dec. 4, 1953 (elevation, 1,002.17 ft or 305.461 m).

Reservoir is formed in two parts. The main dam is earthfill with stone facing, provided with regulating gates (outlet gate sill elevation at 975.3 ft or 297.27 m), and a spillway with crest elevation at 1,008.0 ft (307.24 m). An auxiliary dam 15 mi (24 km) upstream from the main dam with spillway elevation at 1,010 ft (307.8 m) has a fixed crest weir section in the earthfill causeway. Storage began Jan. 23, 1934 when all regulating gates were closed. Capacity, 188,040 acre-ft (232 hm^3) between elevations 975.3 ft (297.27 m) and 1,008.0 ft (307.24 m) was reached in March 1936. Dead storage 10,150 acre-ft or 12.5 hm^3 (93 acre-ft or 115,000 m^3 behind main dam below elevation 975.3 ft or 297.27 m and 10,060 acre-ft or 12.4 hm^3 behind upstream dam below elevation 1,010 ft or 307.8 m). Upstream pool was filled (all dead storage accumulated) on March 5, 1934. Figures given herein represent usable contents. Reservoir is used to regulate flow in Shenango River, for flood control, and for recreation. Dams built by Pennsylvania Department of Forests and Waters and now maintained by Pennsylvania Department of Environmental Resources.

03103400 SHENANGO RIVER LAKE.--Lat 41°15'54", long 80°27'47", Mercer County, at control house at right end of Shenango River Dam on Shenango River, at Sharpsville, Pa., 2.5 mi (4.0 km) upstream from McCullough Run and at mile 55.8 (89.8 km). Drainage area, 583 mi^2 (1,510 km^2). Period of record, January 1967 to current year. Prior to October 1970 published as "Shenango River Reservoir". Water-stage recorder. Datum of gage is at mean sea level, datum of Corps of Engineers, which is 0.67 ft (0.204 m) above mean sea level. Extremes for current year: Maximum contents, 72,550 acre-ft (89.5 hm^3) May 15 (elevation, 903.55 ft or 275.402 m); minimum, 7,880 acre-ft (9.72 hm^3) Mar. 18 (elevation, 883.16 ft or 269.187 m). Extremes for period of record: Maximum contents, 72,550 acre-ft (89.5 hm^3) May 15, 1974 (elevation, 903.55 ft or 275.402 m); minimum (after first filling), 5,070 acre-ft (6.25 hm^3) Dec. 20, 1971 (elevation, 881.16 ft or 268.578 m).

Lake is formed by a concrete gravity dam with a fixed crest spillway. Fully controlled storage began in January 1967. Flow is controlled by gates in conduits through spillway section. Capacity of lake at full pool (elevation, 919.0 ft or 280.11 m) is 191,360 acre-ft (236 hm^3). Minimum pool first reached 11,080 acre-ft or 13.7 hm^3 (elevation, 885.0 ft or 269.75 m) in March 1967. Winter low-water pool elevation is normally at minimum pool; normally, summer low-water pool elevation is 896.0 ft or 273.10 m (capacity, 41,000 acre-ft or 50.6 hm^3). Storage to summer pool normally occurs during period Mar. 15 to Apr. 30. Figures given herein represent total contents. Lake is used for flood control, low-flow augmentation, water-quality control of Shenango River and downstream rivers, and recreation. Records furnished by Corps of Engineers.

03106280 LAKE ARTHUR.--Lat 40°57'45", long 80°07'17", Butler County, in gatehouse at left end of spillway of Lake Arthur Dam on Muddy Creek, at Moraine State Park, 3 mi (5 km) northeast of Portersville, Pa. Drainage area, 50.8 mi^2 (131.6 km^2). Period of record, May 1969 to current year. Water-stage recorder. Datum of gage is at mean sea level (Pennsylvania Department of Environmental Resources bench mark). Prior to Aug. 23, 1969, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 41,170 acre-ft (50.8 hm^3) May 14 (elevation, 1,191.11 ft or 363.050 m); minimum, 34,040 acre-ft (42.0 hm^3) Jan. 8 (elevation, 1,188.80 ft or 362.346 m). Extremes for period of record: Maximum contents, 44,060 acre-ft (54.3 hm^3) June 26, 1972 (elevation, 1,191.96 ft or 363.309 m); minimum (after first filling), revised, 21,940 acre-ft (27.1 hm^3) Jan. 16, 1973 (elevation, 1,184.14 ft or 360.926 m).

Lake is formed by an earthfill dam with concrete spillway. Storage began May 15, 1969. Usable capacity, 37,000 acre-ft (45.6 hm^3) between elevations 1,160 ft or 353.6 m (sill of 6-ft or 1.8-m outlet gate) and 1,189.8 ft or 362.65 m (spillway crest). No dead storage. Figures given herein represent usable contents. Lake is used for recreation. Dam built by Pennsylvania Department of Forests and Waters and now maintained by Pennsylvania Department of Environmental Resources.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	03090000 Berlin Lake			03091000 Milton Reservoir		
Sept. 30	1,016.19	34,540	-	942.07	14,740	-
Oct. 31	1,016.30	34,780	+3.9	942.01	14,660	-1.3
Nov. 30	1,019.10	41,330	+110	944.30	17,680	+50.7
Dec. 31	1,019.68	42,840	+24.6	948.09	23,680	+97.6
CAL YR 1973	-	-	+5.9	-	-	+15.4
Jan. 31	1,022.48	50,870	+131	941.32	13,830	-160
Feb. 28	1,022.22	50,060	-14.6	941.72	14,310	+8.6
Mar. 31	1,026.09	63,500	+219	940.70	13,090	-19.8
Apr. 30	1,024.80	58,660	-81.3	940.40	12,730	-6.1
May 31	1,027.22	68,090	+153	942.35	15,100	+38.5
June 30	1,026.20	63,940	-69.7	942.40	15,160	+1.0
July 31	1,025.44	61,030	-47.3	941.49	14,030	-18.4
Aug. 31	1,021.36	47,490	-220	942.82	15,700	+27.2
Sept. 30	1,012.78	27,890	-329	943.38	16,440	+12.4
WTR YR 1974	-	-	-9.2	-	-	+2.3

Lakes and reservoirs in Beaver River basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)	Elevation (feet)	Contents (acre-feet)	Change in contents (equivalent in cfs)
	03092450 Michael J. Kirwin Reservoir			03095000 Mosquito Creek Lake		
Sept. 30	981.85	47,430	-	898.40	58,710	-
Oct. 31	980.27	43,730	-60.2	898.13	56,920	-29.1
Nov. 30	981.29	46,100	+39.8	898.34	58,310	+23.4
Dec. 31	982.74	49,590	+56.8	899.62	67,090	+143
CAL YR 1973	-	-	+2.7	-	-	-1.6
Jan. 31	981.60	46,830	-44.9	900.45	73,150	+98.6
Feb. 28	982.00	47,780	+17.1	900.38	72,620	-9.5
Mar. 31	986.07	58,170	+169	901.90	84,360	+191
Apr. 30	985.64	57,030	-19.2	901.60	81,990	-39.8
May 31	986.57	59,530	+40.7	901.49	81,130	-14.0
June 30	985.64	57,030	-42,0	901.18	78,680	-41.2
July 31	984.07	52,920	-66.8	900.20	71,280	-120
Aug. 31	984.10	53,000	+1.3	900.32	72,170	+14.5
Sept. 30	982.50	49,000	-67.2	899.95	69,430	-46.0
WTR YR 1974	-	-	+2.2	-	-	+14.8
	03097000 Meander Creek Reservoir			03100500 Pymatuning Reservoir		
Sept. 30	899.95	23,400	-	1,006.24	163,160	-
Oct. 31	899.14	22,130	-20.7	1,005.85	157,830	-86.7
Nov. 30	899.21	22,240	+1.8	1,006.12	161,510	+61.8
Dec. 31	901.96	26,750	+73.3	1,006.78	170,650	+149
CAL YR 1973	-	-	-12.0	-	-	+13.6
Jan. 31	905.94	34,310	+123	1,006.57	167,720	-47.7
Feb. 28	905.34	33,100	-21.8	1,005.66	155,250	-225
Mar. 31	906.12	34,690	+25.9	1,007.73	184,140	+470
Apr. 30	905.63	33,680	-17.0	1,007.86	186,010	+31.4
May 31	906.39	35,270	+25.9	1,008.07	189,060	+49.6
June 30	905.16	32,730	-42.7	1,007.85	185,870	-53.6
July 31	904.28	31,010	-28.0	1,007.44	179,980	-95.8
Aug. 31	903.72	29,950	-17.2	1,007.41	179,550	-7.0
Sept. 30	902.95	28,510	-24.2	1,007.15	175,860	-62.0
WTR YR 1974	-	-	+7.1	-	-	+17.5
	03103400 Shenango River Lake			03106280 Lake Arthur		
Sept. 30	894.15	34,690	-	1,190.40	38,880	-
Oct. 31	893.80	33,550	-18.5	1,190.55	39,360	+7.8
Nov. 30	893.77	33,460	-1.5	1,190.51	39,230	-2.2
Dec. 31	894.63	36,280	+45.9	1,189.11	34,930	-69.9
CAL YR 1973	-	-	+27.2	-	-	+10.8
Jan. 31	893.64	33,040	-52.7	1,189.65	36,550	+26.3
Feb. 28	883.86	9,030	-432	1,190.10	37,920	+24.7
Mar. 31	895.14	38,010	+471	1,190.48	39,140	+19.8
Apr. 30	897.13	45,110	+119	1,190.41	38,910	-3.9
May 31	896.39	42,410	-43.9	1,190.48	39,140	+3.7
June 30	896.74	43,680	+21.3	1,190.87	40,380	+20.8
July 31	895.03	37,620	-98.6	1,190.10	37,920	-40.0
Aug. 31	896.67	43,420	+94.3	1,190.49	39,170	+20.3
Sept. 30	894.90	37,180	-105	1,190.22	38,300	-14.6
WTR YR 1974	-	-	+3.4	-	-	-.8

03108000 Raccoon Creek at Moffatts Mill, Pa.

LOCATION.--Lat 40°37'40", long 80°20'16", Beaver County, on left bank at downstream side of highway bridge at Moffatts Mill, 1.4 mi (2.2 km) downstream from Gums Run, 4 mi (6 km) south of Vanport, and 4.2 mi (6.8 km) upstream from mouth.

DRAINAGE AREA.--178 mi^2 (461 km^2).

PERIOD OF RECORD.--September 1941 to current year. May 1915 to July 1932 (gage heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania or Pennsylvania Department of Forests and Waters.

GAGE.--Water-stage recorder. Datum of gage is 719.16 ft (219.200 m) above mean sea level (Corps of Engineers bench mark). May 27, 1915 to July 31, 1932, and Sept. 2 to Dec. 3, 1941, nonrecording gages at same site and datum.

AVERAGE DISCHARGE.--33 years, 186 ft^3/s (5.268 m^3/s), 14.19 in/yr (360 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,880 ft^3/s (81.6 m^3/s) May 13 (gage height, 5.78 ft or 1.762 m); minimum, 26 ft^3/s (0.74 m^3/s) Aug. 27, 28 (gage height, 1.58 ft or 0.482 m).

Period of record: Maximum discharge, 8,590 ft^3/s (243 m^3/s) Jan. 27, 1952 (gage height, 9.71 ft or 2.960 m); minimum, 4.5 ft^3/s (0.13 m^3/s) Aug. 24, 25, 1965; minimum gage height, 1.28 ft (0.390 m) Aug. 26, 1962.

Flood of Apr. 15, 1922, reached a stage of 9.80 ft or 2.987 m (discharge, 10,000 ft^3/s or 283 m^3/s). Flood of Mar. 5, 1920, also reached a stage of 9.80 ft or 2.987 m (backwater from ice).

REMARKS.--Records good. Normally no regulation from Raccoon Creek Lake. Diversion out of the basin from Cherry Valley and Service Creek Reservoirs upstream increased from an average of 4.0 ft^3/s (0.11 m^3/s) at the close of 1957 to 6.8 ft^3/s (0.19 m^3/s) for the present year; diversion began with 2.0 ft^3/s (0.057 m^3/s) for September 1957. Published records do not include diversion. Records of diversion furnished by Western Pennsylvania Water Company and Ambridge Water Authority.

REVISIONS (WATER YEARS).--WSP 1385: 1941-43.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	338	234	192	254	270	292	302	164	734	52	150
2	34	242	195	148	234	286	1,290	213	136	278	47	300
3	34	160	174	148	223	322	936	262	118	185	42	600
4	29	118	164	151	195	298	1,080	242	105	136	60	350
5	254	98	160	115	157	318	747	202	93	171	48	250
6	100	85	145	139	164	310	578	192	85	154	40	181
7	60	72	120	118	425	282	450	167	78	108	35	142
8	48	68	110	78	350	318	380	148	78	90	45	120
9	46	64	118	136	278	728	626	151	266	78	50	105
10	38	60	160	181	227	1,190	530	142	123	83	56	95
11	35	54	133	400	238	747	445	125	93	250	42	85
12	33	50	113	334	206	560	395	1,160	78	113	34	80
13	32	50	133	230	202	410	370	1,760	78	83	62	92
14	35	48	274	210	199	322	346	728	68	72	44	397
15	35	52	242	220	164	282	425	465	68	120	34	167
16	33	270	206	520	148	455	330	334	602	98	30	120
17	32	157	164	572	154	415	286	274	258	68	70	105
18	30	115	128	470	130	342	258	984	160	60	92	110
19	31	103	154	1,810	139	314	230	572	123	58	50	92
20	29	88	174	1,440	238	278	206	378	133	52	40	100
21	29	78	322	859	199	360	188	294	113	46	34	248
22	29	78	250	626	290	475	181	246	103	44	33	335
23	29	70	220	542	360	375	213	262	234	48	32	195
24	30	70	192	560	298	334	178	230	213	74	30	154
25	30	450	178	450	282	274	154	188	142	56	28	133
26	30	650	246	380	223	258	139	164	130	42	29	118
27	30	350	390	375	220	230	130	139	125	35	28	105
28	42	548	334	319	216	213	125	125	103	60	50	98
29	202	435	286	380	------	238	118	234	108	82	130	100
30	455	302	250	322	------	270	145	258	113	130	115	95
31	306	------	216	294	------	326	------	181	------	70	100	------
TOTAL	2,224	5,323	6,185	12,719	6,413	11,800	11,771	11,122	4,291	3,678	1,582	5,222
MEAN	71.7	177	200	410	229	381	392	359	143	119	51.0	174
MAX	455	650	390	1,810	425	1,190	1,290	1,760	602	734	130	600
MIN	29	48	110	78	130	213	118	125	68	35	28	80
CFSM	.40	.99	1.12	2.30	1.29	2.14	2.20	2.02	.80	.67	.29	.98
IN.	.46	1.11	1.29	2.66	1.34	2.47	2.46	2.32	.90	.77	.33	1.09

CAL YR 1973 TOTAL 74,283 MEAN 204 MAX 1,920 MIN 16 CFSM 1.15 IN 15.52
WTR YR 1974 TOTAL 82,330 MEAN 226 MAX 1,810 MIN 28 CFSM 1.27 IN 17.21

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-19	1730	5.46	2,560	5-13	0200	5.78	2,880
4- 2	1230	4.72	1,830	+ 9- 3	Unknown	*4.82	1,920

+ Probably.
* From peak-stage indicator.

03111150 Brush Run near Buffalo, Pa.

LOCATION.--Lat 40°11'54", long 80°24'28", Washington County, on right bank at upstream side of highway bridge, 2.2 mi (3.5 km) upstream from Dunkle Run, 3.0 mi (4.8 km) upstream from mouth, 3.2 mi (5.1 km) southwest of Buffalo, and 8 mi (13 km) west of Washington.

DRAINAGE AREA.--10.3 mi^2 (26.7 km^2).

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 965.02 ft (294.138 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 8.84 ft^3/s (0.250 m^3/s), 11.65 in/yr (296 mm/yr).

EXTREMES.--Current year: Maximum discharge, 268 ft^3/s (7.59 m^3/s) July 10 (gage height, 4.94 ft or 1.506 m); minimum, 0.17 ft^3/s (0.005 m^3/s) Aug. 27 (gage height, 1.70 ft or 0.518 m).
Period of record: Maximum discharge, 1,180 ft^3/s (33.4 m^3/s) Feb. 13, 1966 (gage height, 7.73 ft or 2.356 m), from rating curve extended above 210 ft^3/s (5.9 m^3/s) on basis of slope-area measurement at gage height 7.26 ft (2.213 m); maximum gage height, 7.93 ft (2.417 m) Mar. 4, 1963 (backwater from ice); no flow on many days.

REMARKS.--Records good above 1 ft^3/s (0.028 m^3/s) and fair below.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	9.4	5.5	6.7	13	12	9.4	6.5	11	1.3	1.9	37
2	1.7	4.0	4.4	6.2	13	14	49	4.8	6.5	.97	1.5	16
3	1.7	2.3	3.8	6.7	11	14	33	8.0	5.0	.77	1.5	37
4	1.9	1.6	3.6	8.5	9.4	13	57	5.2	4.0	.65	2.4	19
5	14	1.4	4.6	9.4	8.2	15	34	4.6	3.5	.59	1.6	11
6	1.9	1.1	3.8	6.7	11	14	25	4.4	3.0	.59	1.1	7.7
7	1.1	.90	3.0	5.5	25	14	19	4.0	2.7	.54	.90	6.5
8	.77	.90	2.9	7.7	20	13	18	3.6	3.0	.54	.97	5.0
9	.65	.90	4.2	13	15	14	27	4.0	3.3	.54	.97	4.2
10	.54	.77	5.5	28	13	23	21	3.5	2.3	42	.77	3.8
11	.46	.71	4.2	67	12	17	17	3.2	1.9	15	.65	3.4
12	.38	.77	4.4	27	11	15	15	97	2.9	4.4	.65	3.2
13	.34	.71	7.5	22	11	12	19	82	1.9	2.7	.97	4.8
14	.42	.65	17	14	9.7	11	16	63	1.6	2.0	.71	9.1
15	.34	3.2	10	19	8.2	10	14	43	1.7	4.6	.54	4.6
16	.34	10	7.5	19	8.2	22	12	23	3.8	2.0	.54	3.5
17	.34	3.8	7.5	17	7.7	17	10	14	2.0	1.5	.59	3.0
18	.26	2.6	7.0	16	7.2	14	9.1	27	1.6	1.2	.59	3.0
19	.23	2.1	4.8	63	8.0	14	8.5	10	1.4	1.6	.59	2.7
20	.21	1.6	6.7	34	13	11	7.7	7.5	1.7	1.2	.54	3.3
21	.21	1.5	8.0	27	9.4	82	7.2	6.2	2.6	.83	.46	45
22	.21	1.4	8.0	22	17	45	10	5.7	1.9	.71	.38	18
23	.21	1.1	5.5	22	17	25	13	6.7	7.7	1.1	.30	9.9
24	.23	1.3	4.8	20	13	19	8.5	5.5	3.6	1.2	.26	7.4
25	.21	17	5.2	17	12	14	7.5	4.6	2.3	.83	.21	6.5
26	.21	12	10	16	13	13	6.7	4.2	3.2	.65	.19	5.4
27	.21	8.0	15	16	12	11	6.2	3.6	2.0	.59	.30	4.4
28	1.4	21	10	19	9.4	10	5.7	3.3	1.5	8.0	1.5	4.0
29	5.7	11	8.8	21	------	12	5.2	9.7	2.0	8.8	2.9	4.4
30	3.3	7.2	7.5	17	------	11	5.2	6.5	1.4	6.0	8.2	3.7
31	4.0	------	7.5	15	------	10	------	8.5	------	2.7	2.7	------
TOTAL	44.23	130.91	208.2	608.4	337.4	541	495.9	482.8	93.0	116.10	37.38	296.5
MEAN	1.43	4.36	6.72	19.6	12.1	17.5	16.5	15.6	3.10	3.75	1.21	9.88
MAX	14	21	17	67	25	82	57	97	11	42	8.2	45
MIN	.21	.65	2.9	5.5	7.2	10	5.2	3.2	1.4	.54	.19	2.7
CFSM	.14	.42	.65	1.90	1.17	1.70	1.60	1.51	.30	.36	.12	.96
IN.	.16	.47	.75	2.20	1.22	1.95	1.79	1.74	.34	.42	.14	1.07

CAL YR 1973 TOTAL 3,525.10 MEAN 9.66 MAX 21 MIN 0 CFSM .94 IN 12.73
WTR YR 1974 TOTAL 3,391.82 MEAN 9.29 MAX 97 MIN .19 CFSM .90 IN 12.25

PEAK DISCHARGE (BASE, 170 CFS).--May 12 (1345) 211 cfs (4.63 ft); July 10 (1815) 268 cfs (4.94 ft).

04213000 Conneaut Creek at Conneaut, Ohio

LOCATION.--Lat 41°55'37", long 80°36'15", Ashtabula County, on right bank at downstream side of Keefus Road bridge at Conneaut, and 6.4 mi (10.3 km) upstream from mouth.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--July 1922 to December 1935, March 1950 to September 1961 (published as "at Amboy"), October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 610.30 ft (186.019 m) above mean sea level, unadjusted. Prior to Aug. 17, 1924, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--37 years, 255 ft^3/s (7.222 m^3/s), 19.79 in/yr (503 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,920 ft^3/s (168 m^3/s) May 13 (gage height, 7.86 ft or 2.396 m); minimum daily, 7.0 ft^3/s (0.20 m^3/s) Aug. 26, 27, Sept. 15, 20.
Period of record: Maximum discharge, 17,000 ft^3/s (481 m^3/s) Jan. 22, 1959 (gage height, 11.70 ft or 3.566 m); maximum gage height, 12.94 ft (3.944 m) Mar. 4, 1934 (backwater from ice); minimum discharge, 0.2 ft^3/s (0.006 m^3/s) July 31, Aug. 1, 1933, Aug. 1, 2, 1934.

REMARKS.--Records good. Records of water quality for the current year are published in Part 2 of the Ohio Annual Report.

REVISIONS (WATER YEARS).--WSP 714: 1926. WSP 784: 1933. WSP 1437: 1923-25(M), 1926-30, 1931-32(M), 1933, 1935(M). WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	509	352	201	234	863	674	132	81	2,230	26	17
2	44	1,140	218	140	130	994	1,090	168	74	4,020	17	13
3	29	504	162	110	95	753	2,050	189	59	992	12	25
4	39	262	139	90	75	1,130	1,480	198	48	628	13	21
5	73	162	130	75	65	2,000	1,500	183	41	205	20	58
6	314	114	136	65	60	1,530	557	191	36	120	21	41
7	131	93	128	55	55	481	603	325	32	86	21	24
8	74	77	107	48	55	798	1,030	271	28	66	20	18
9	52	66	96	46	50	2,200	790	277	28	52	16	13
10	40	62	108	46	50	2,160	468	749	27	63	22	10
11	32	61	147	50	50	1,050	746	446	27	40	20	8.7
12	27	62	100	50	55	395	680	1,670	23	35	28	8.1
13	24	76	130	50	70	266	402	4,620	22	31	21	7.7
14	23	175	589	60	100	194	307	1,730	22	26	13	7.4
15	20	157	945	90	180	160	631	362	28	24	11	7.0
16	27	172	326	180	130	377	575	221	41	21	9.8	13
17	25	409	191	250	90	889	320	171	50	19	15	11
18	23	388	110	500	80	384	226	145	56	17	14	9.3
19	21	236	100	1,300	90	257	202	122	42	17	26	7.9
20	21	197	316	1,980	150	320	214	102	36	16	21	7.0
21	22	155	1,800	1,240	300	292	179	88	38	16	13	13
22	22	132	1,880	987	1,200	221	166	83	176	16	8.9	22
23	20	147	414	522	2,310	247	267	80	238	16	8.1	45
24	20	133	254	684	827	324	374	89	98	16	7.5	41
25	19	217	213	420	330	287	277	94	58	15	7.5	23
26	19	905	1,020	257	200	257	204	84	43	15	7.0	16
27	19	552	1,980	240	180	292	162	70	34	15	7.0	12
28	23	971	1,230	360	230	409	137	60	34	14	8.1	14
29	40	1,660	546	580	------	508	125	69	38	54	15	11
30	160	1,060	337	664	------	1,500	126	80	401	33	29	25
31	277	------	266	336	------	1,200	------	104	------	39	17	------
TOTAL	1,762	10,854	14,470	11,676	7,441	22,738	16,562	13,173	1,959	8,957	494.9	549.1
MEAN	56.8	362	467	377	266	733	552	425	65.3	289	16.0	18.3
MAX	314	1,660	1,980	1,980	2,310	2,200	2,050	4,620	401	4,020	29	58
MIN	19	61	96	46	50	160	125	60	22	14	7.0	7.0
CFSM	.32	2.07	2.67	2.15	1.52	4.19	3.15	2.43	.37	1.65	.09	.10
IN.	.37	2.31	3.08	2.48	1.58	4.83	3.52	2.80	.42	1.90	.11	.12

CAL YR 1973 TOTAL 99,131.0 MEAN 272 MAX 2,140 MIN 10 CFSM 1.55 IN 21.07
WTR YR 1974 TOTAL 110,636.0 MEAN 303 MAX 4,620 MIN 7.0 CFSM 1.73 IN 23.52

PEAK DISCHARGE (BASE, 2,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3- 9	2400	6.15	2,930	7- 2	0600	7.66	5,520
5-13	1800	7.86	5,920				

04213040 Raccoon Creek near West Springfield, Pa.

LOCATION.--Lat 41°56'42", long 80°26'51", Erie County, on right bank 12 ft (3 m) upstream from highway bridge on Sanford Road, 1.4 mi (2.2 km) east of West Springfield, 4.4 mi (7.1 km) upstream from mouth, and 7 mi (11 km) southwest of Girard.

DRAINAGE AREA.--2.53 mi^2 (6.55 km^2).

PERIOD OF RECORD.--Annual maximum, water years 1962-68. October 1968 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control installed Aug. 2, 1973. Altitude of gage is 715 ft or 218 m (from topographic map). May 9, 1961, to Oct. 2, 1968, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--6 years, 4.18 ft^3/s (0.118 m^3/s), 22.44 in/yr (570 mm/yr).

EXTREMES.--Current year: Maximum discharge, 152 ft^3/s (4.30 m^3/s) probably Apr. 2 (gage height, 4.11 ft or 1.253 m), from magnet; minimum daily, 0.03 ft^3/s (0.001 m^3/s) July 27.
Period of record: Maximum discharge, 408 ft^3/s (11.6 m^3/s) Dec. 28, 1968 (gage height, 6.06 ft or 1.847 m), from rating curve extended above 76 ft^3/s (2.2 m^3/s) on basis of computation of flow through culvert at gage height 5.39 ft (1.643 m); no flow on many days.

REMARKS.--Records good except those for periods of ice effect and those below a gage height of 1.3 ft (0.40 m), which are poor.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for the water year 1973, superseding figures published in WRD Pa. 1973 are given below.

Date	Discharge
Sept. 29	1.6
Sept. 30	.89

Month	CFS-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches
September 1973	4.87	1.6	.02	.16	.06	.07
WTR YR 1973	1268.86	50	.01	3.48	1.38	18.66

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	7.9	2.8	3.0	2.7	24	6.3	1.3	.40	14	.07	.09
2	.44	2.5	2.0	2.7	2.5	14	56	.96	.35	19	.04	.09
3	.37	2.4	1.7	2.4	2.2	11	10	4.2	.35	11	.07	.13
4	.31	1.3	1.6	2.1	2.0	47	50	2.9	.30	1.6	.09	.10
5	2.4	1.0	1.9	1.9	1.8	30	12	2.0	.26	.88	.30	.09
6	.79	.83	1.6	1.6	1.7	10	8.0	7.9	.22	.48	.16	.09
7	.52	.75	1.5	1.4	1.6	8.1	24	3.5	.22	.35	.09	.09
8	.44	.70	1.4	1.2	1.5	51	15	2.6	.19	.26	.30	.09
9	.37	.62	1.9	1.1	1.4	32	9.0	6.7	.30	.13	.26	.09
10	.31	.72	2.9	1.0	1.3	21	7.0	5.7	.35	.10	.13	.07
11	.31	.79	2.0	.95	1.2	8.4	12	3.1	.30	.10	.09	.06
12	.31	.92	1.7	.90	1.5	3.5	9.0	78	.22	.10	.08	.06
13	.31	1.2	6.0	.80	1.8	3.5	5.0	21	.19	.09	.09	.08
14	.52	1.0	13	1.5	2.2	2.7	13	6.0	.16	.09	.09	.09
15	.31	1.8	5.3	3.1	1.8	6.0	5.5	2.9	.64	.08	.06	.08
16	.24	5.6	2.9	10	1.5	14	3.3	1.9	1.6	.07	.12	.07
17	.31	3.4	2.3	13	1.3	7.0	2.3	1.6	.88	.06	.13	.09
18	.44	1.8	1.9	9.4	1.0	3.5	1.8	1.4	1.4	.07	.09	.07
19	.52	1.4	1.6	31	3.0	5.7	4.5	1.0	.80	.09	.08	.06
20	.44	1.1	27	18	7.3	3.9	2.6	.72	1.5	.07	.06	.09
21	.31	1.2	20	20	7.1	2.9	1.8	.64	1.0	.06	.06	.16
22	.31	1.2	6.5	9.1	43	3.2	3.1	1.0	.80	.05	.06	1.9
23	.31	1.0	3.7	11	13	5.7	6.0	1.1	.40	.07	.06	.40
24	.31	2.1	2.6	8.1	5.8	5.4	3.3	1.2	.35	.09	.05	.19
25	.31	9.2	10	4.8	4.7	3.9	2.1	.80	.30	.06	.04	.10
26	.31	6.1	24	3.7	3.7	3.7	1.5	.64	.30	.04	.05	.10
27	.24	8.9	18	7.8	3.6	3.5	1.2	.48	.30	.03	.10	.09
28	.60	16	8.4	6.6	9.3	4.5	1.0	.40	.19	.13	.10	.10
29	3.3	15	5.6	15	------	13	1.0	.96	.30	.30	.10	.10
30	1.7	5.3	4.9	6.0	------	27	1.2	.88	13	.35	.09	.56
31	4.1	------	3.6	4.0	------	11	------	.64	------	.10	.09	------
TOTAL	21.98	103.73	190.3	203.15	131.5	390.1	278.5	164.12	27.57	49.90	3.20	5.38
MEAN	.71	3.46	6.14	6.55	4.70	12.6	9.28	5.29	.92	1.61	.10	.18
MAX	4.1	16	27	31	43	51	56	78	13	19	.30	1.9
MIN	.24	.62	1.4	.80	1.0	2.7	1.0	.40	.16	.03	.04	.06
CFSM	.28	1.37	2.43	2.59	1.86	4.98	3.67	2.09	.36	.64	.04	.07
IN.	.32	1.53	2.80	2.99	1.93	5.74	4.09	2.41	.41	.73	.05	.08

CAL YR 1973 TOTAL 1,174.89 MEAN 3.22 MAX 33 MIN .01 CFSM 1.27 IN 17.28
WTR YR 1974 TOTAL 1,569.43 MEAN 4.30 MAX 78 MIN .03 CFSM 1.70 IN 23.08

PEAK DISCHARGE (BASE, 100 CFS).--Probably Apr. 2 (unknown) 152 cfs (4.11 ft); May 12 (1230) 147 cfs (4.05 ft).

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

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1974

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements: Date	Measurements: Discharge (cfs)
		Delaware River basin				
01428800	West Branch Lackawaxen River at Aldenville, Pa.	Lat 41°38'38", long 75°21'36", Wayne County, at bridge on State Highway 170, 0.3 mile southeast of Aldenville, 4.5 miles north of Prompton.	48.9	1970-74	6- 6-74	44
01432500	Shohola Creek near Shohola, Pa.	Lat 41°27'20, long 74°55'25", Pike County, 1.4 miles above mouth and 1.4 miles south of Shohola.	83.6	1920-28/ 1957 1959-67 1969-74	10- 9-73 4-24-74 5-31-74 7-16-74	46 203 102 34
01439400	Toms Creek at Egypt Mills near Bushkill, Pa.	Lat 41°07'29", long 74°57'14", Pike County, at bridge on U.S. Highway 209 at Egypt, 0.3 mile upstream from mouth and 3 miles northwest of Bushkill.	3.34	1970-74	4-26-74	15
01440250	Shawnee Creek at Shawnee on Delaware, Pa.	Lat 41°00'42", long 75°06'40", Monroe County, at bridge on State Highway 945, in village of Shawnee on Delaware, 0.6 mile upstream from mouth and 3 miles east of East Stroudsburg.	4.58	1970-74	4-26-74	8.7
01440500	Paradise Creek at Henryville, Pa.	Lat 41°06'00", long 75°15'05", Monroe County, at bridge on State Highway 191, 200 ft upstream from Cranberry Creek, and 0.5 mile northwest of Henryville.	30.2	1970-74	6- 6-74	36
01441000	McMichaels Creek at Stroudsburg, Pa.	Lat 40°58'45", long 75°12'05", Monroe County, at dismantled railroad bridge 0.2 mile upstream from Little Pocono Creek and 0.8 mile southwest of Stroudsburg.	65.3	1911-38/ 1970-74	6- 5-74	80
01441500	Pocono Creek near Stroudsburg, Pa.	Lat 40°59'10", long 75°13'35", Monroe County, at bridge on Bridge Street, 1.3 miles west of Stroudsburg.	41.0	1911-19/ 1970-74	6- 6-74	50
01443100	Jacoby Creek at Portland, Pa.	Lat 40°55'00", long 75°06'19", Northampton County, at county highway bridge, 0.6 mile southwest of Portland and 0.7 mile upstream from mouth.	6.17	1970-74	4-26-74	15

/ Operated as a continuous-record gaging station.

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Delaware River basin--Continued				
01446650	Martins Creek below Little Martins Creek at Martins Creek, Pa.	Lat 40°47'02", long 75°11'08", Northampton County, at bridge on U.S. Highway 611 in village of Martins Creek and 0.9 mile upstream from mouth.	43.4	1932 1970-74	4-26-74	93
01446900	Bushkill Creek near Easton, Pa.	Lat 40°42'38", long 75°14'46", Northampton County, at bridge just west of Bushkill Drive at Coilton, 0.8 mile downstream from Schoeneck Creek and 2 miles north of Easton.	72.0	1970-74	5-29-74 7-18-74 9-26-74	84 77 91
01448100	Sandy Run near White Haven, Pa.	Lat 41°00'31", long 75°46'08", Luzerne County, at bridge on L.R. 40118, 800 ft upstream from Pond Creek and 3.8 miles south of White Haven.	10.9	1970-74	6- 7-74	9.5
01449355	Middle Creek at Kresgeville, Pa.	Lat 40°54'03", long 75°29'50", Monroe County, at bridge on U.S. Highway 209, at Kresgeville, 0.5 mile downstream from Dotters Creek and 0.5 mile upstream from mouth.	18.6	1970-74	5-29-74	29
01451110	Hockendauqua Creek near Northampton, Pa.	Lat 40°42'50", long 75°29'45", Northampton County, at bridge on county road, 1.7 miles north of Northampton and 3.3 miles upstream from mouth.	38.1	1970-74	5-29-74	33
01451165	Catasauqua Creek at Catasauqua, Pa.	Lat 40°38'52", long 75°28'06", Lehigh County, at bridge on North Dauphin Street, Catasauqua, 0.1 mile upstream from mouth.	15.7	1970-74	5-29-74	9.7
01457790	Cooks Creek at Durham Furnace, Pa.	Lat 40°34'56", long 75°12'20", Bucks County, on east side of Red Brick Road, 0.1 mile north of State Highway 212, 0.5 mile upstream from mouth and Durham Furnace.	29.4	1934 1944 1949-50 1970-74	5-22-74	38
*01458900	Tinicum Creek near Ottsville, Pa.	Lat 40°28'14", long 75°08'13", Bucks County, at concrete bridge on gravel road, 0.9 mile below confluence of Rapp Creek and Beaver Creek, 1.5 miles east of Ottsville and 5.3 miles above mouth.	14.7	1971-74	4-26-74 8-29-74	7.8 2.1
01459150	Tohickon Creek near Quakertown, Pa.	Lat 40°26'26", long 76°18'42", Bucks County, 1,000 ft downstream from highway bridge and mouth of Morgan Creek and 1 mile east of Quakertown.	27.5	1970-74	-	-
01462300	Jericho Creek at Washington Crossing, Pa.	Lat 40°18'40", long 74°54'23", Bucks County, at bridge on State Highway 32, 0.3 mile upstream from mouth and 2.5 miles northwest of Washington Crossing.	9.52	1971-74	4-26-74	6.6
01470758	Moselem Creek near Shoemakersville, Pa.	Lat 40°30'10", long 75°52'47", Berks County, at bridge on county road, 0.4 mile upstream from mouth, 2.8 miles west of Moselem Springs and 5 miles east of Shoemakersville.	13.5	1970-74	6- 4-74	18
*01471800	Pine Creek near Manatawny, Pa.	Lat 40°24'43", long 75°44'02", Berks County, at steel bridge on macadam road, at Lobachsville, 0.5 mile upstream from mouth, 0.5 mile below West Branch Pine Creek and 2 miles north of Manatawny.	15.6	1970-74	5-22-74	13
01475850	Crum Creek near Newtown Square, Pa.	Lat 39°58'35", long 75°26'13", Delaware County, at Castle Rock Bridge on State Highway 3, 0.6 mile upstream from Preston Run, 0.8 mile upstream from Geist Reservoir and 2 miles west of Newtown Square.	15.8	1932 1949 1970-74	5-22-74	20

* Also a crest-stage partial-record station.

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Delaware River basin--Continued				
01478150	East Branch White Clay Creek at Landenberg, Pa.	Lat 30°46'40", long 75°46'18", Chester County, at county highway bridge at Landenberg, 1.4 miles downstream from Egypt River and 4 miles southeast of West Grove.	25.6	1970-74	5-21-74	12
01479700	West Branch Red Clay Creek near Kennett Square, Pa.	Lat 39°48'39", long 75°42'19", Chester County, at county highway bridge on Kaolin Road, 1 mile upstream from East Branch Red Clay Creek, 1.4 miles east of Kaolin and 2.5 miles south of Kennett Square.	17.0	1970-74	5-21-74	20
		Susquehanna River basin				
01516300	Tioga River at Covington, Pa.	Lat 41°44'42", long 77°04'49", Tioga County, at bridge on L.R. 58060, 0.1 mile west of Covington.	105	1970-74	5-22-74	121
01530850	Bentley Creek at Ridgebury, Pa.	Lat 41°58'25", long 76°43'12", Bedford County, at bridge on L.R. 08068, at Ridgebury and 300 ft downstream from Three Falls Glen.	47.2	1970-74	5-22-74	13
01533100	Sugar Run Creek at Sugar Run, Pa.	Lat 41°38'31", long 76°13'55", Bedford County, at bridge on rural road, 0.3 mile east of Sugar Run and 0.4 mile upstream from mouth.	56.6	1970-74	6- 4-74	18
01533840	Tunkhannock Creek at Glenwood, Pa.	Lat 41°39'03", long 75°43'15", Susquehanna County, at bridge on State Highway 374 at Glenwood and 0.4 mile upstream from East Branch Tunkhannock Creek.	107	1970-74	6- 6-74	107
01533960	South Branch Tunkhannock Creek near East Benton, Pa.	Lat 41°34'23", long 75°40'00", Lackawanna County, at bridge on county road, 0.4 mile south of East Benton and 0.6 mile upstream from Cordner Pond tributary.	29.3	1970-74	6- 6-74	13
01534170	East Branch Lackawanna River at Uniondale, Pa.	Lat 41°43'08", long 75°28'49", Susquehanna County, at bridge on L.R. 57041, 0.3 mile east of intersection of State Highway 171 and L.R. 57041 and 0.7 mile east of Uniondale.	17.3	1951 1970-74	6- 6-74	20
01535540	Spring Brook near Spring Brook, Pa.	Lat 41°17'07", long 75°35'33", Lackawanna County, at bridge on private road, 1.5 miles south of Spring Brook and 1.8 miles upstream of Watres Reservoir dam.	8.98	1970-74	6- 7-74	5.9
01536200	Abrahams Creek near Dallas, Pa.	Lat 41°20'41", long 75°54'00", Luzerne County, at culvert on L.R. 40131, 1.7 miles upstream from Frances Slocum State Park dam and 3 miles east of Dallas.	2.79	1970-74	6- 7-74	1.2
01537900	Little Wapwallopen Creek near Wapwallopen, Pa.	Lat 41°05'43", long 76°07'18", Luzerne County, at bridge on State Highway 239, 1 mile downstream from Pond Creek and 2 miles north of Wapwallopen.	39.4	1970-74	6- 7-74	16
01538520	Little Nescopeck Creek at Sybertsville, Pa.	Lat 41°00'12", long 76°04'25", Luzerne County, at bridge on county road, at Sybertsville and 0.6 mile upstream from mouth.	13.8	1970-74	6- 7-74	.27
01538970	Fishing Creek at Forks, Pa.	Lat 41°06'27", long 76°21'44", Columbia County, at bridge on L.R. 19068, at Forks, 0.2 mile upstream from Huntingdon Creek.	114	1970-74	11-20-73 5-21-74	77 189

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Susquehanna River basin--Continued				
01540350	Catawissa Creek at Catawissa, Pa.	Lat 40°57'00", long 76°27'56", Columbia County, at bridge on Second Street, at Catawissa and 0.2 mile upstream from mouth.	149	1949-50 1970-74	11-20-73 5-21-74	79 264
01541250	Anderson Creek at Curwensville, Pa.	Lat 40°58'20", long 78°31'20", Clearfield County, at bridge on State Highway 453, at Curwensville, 800 ft upstream from mouth.	77.8	1945 1960 1963-64 1970-74	5-21-74	102
01541325	Clearfield Creek at Flinton, Pa.	Lat 40°43'05", long 78°31'38", Cambria County, at bridge on L.R. 11063, 0.2 mile upstream from Beaverdam Run and 0.5 mile northwest of Flinton.	98.1	1970-74	6-10-74	57
01541331	Killbuck Run near St. Augustine, Pa.	Lat 40°39'42", long 78°34'55", Cambria County, 800 ft upstream from mouth and 3.3 miles north of St. Augustine.	7.13	1968-74	6-10-74	2.6
01542330	Black Moshannon Creek near Philipsburg, Pa.	Lat 40°52'43", long 78°04'36", Centre County, at bridge on Shirk Road, 0.5 mile southeast of Black Moshannon State Airport and 6 miles east of Philipsburg.	2.33	1970-74	5-21-74	4.6
01543700	First Fork Sinnemahoning Creek at Wharton, Pa.	Lat 41°31'08", long 78°01'40", Potter County, at bridge on State Highway 872, 0.8 mile southwest of Wharton and 1 mile downstream from East Fork Sinnemahoning Creek.	182	1970-74	5-22-74	223
01545610	Left Branch Young Womans Creek near Renovo, Pa.	Lat 41°22'19", long 77°42'01", Clinton County, at bridge on L.R. 18022, 400 ft upstream from mouth and 4 miles northeast of Renovo.	35.9	1970-74	5- 8-74	66
01545680	Tangascootack Creek near Lock Haven, Pa.	Lat 41°10'32", long 77°32'53", Clinton County, at bridge on State Highway 120, 600 ft upstream from mouth and 7 miles northwest of Lock Haven.	36.5	1970-74	5- 8-74	50
01547280	Antis Run near MIlesburg, Pa.	Lat 40°58'35", long 77°44'42", Centre County, at bridge on U.S. Highway 220, at Curtin, 500 ft upstream from mouth and 3.7 miles east of Milesburg.	1.56	1956-57 1970-74	5-21-74	1.1
01547600	Romola Branch near Howard, Pa.	Lat 41°03'27", long 77°41'10", Centre County, at bridge on L.R. 14009, at Romola, 200 ft upstream from mouth and 3.4 miles northwest of Howard.	5.05	1956-57 1970-74	5-21-74	5.9
01549550	Little Pine Creek near English Center, Pa.	Lat 41°24'46", long 77°19'19", Lycoming County, at bridge on L.R. 41021, 2.4 miles southwest of English Center.	135	1970-74	5-21-74	165
01549790	Larrys Creek at Larrys Creek, Pa.	Lat 41°13'10", long 77°13'12", Lycoming County, at bridge on U.S. Highway 220, at Larrys Creek, 0.2 mile upstream from mouth.	89.0	1970-74	5-21-74	106
01551830	Loyalsock Creek near Forksville, Pa.	Lat 41°28'10", long 76°35'05", Sullivan County, at bridge on State Highway 154, at Worlds End, 1.8 miles southeast of Forksville.	131	1970-74	5-28-74 6- 4-74	113 94
01553110	White Deer Hole Creek at Allenwood, Pa.	Lat 41°06'14", long 76°53'54", Union County, at bridge on county road 0.9 mile upstream from mouth and 0.4 mile south of Allenwood.	66.4	1970-74	11-21-73 5-21-74	57 81
01553480	Buffalo Creek at Lewisburg, Pa.	Lat 40°58'19", long 76°53'30", Union County, at bridge on U.S. Highway 15, at Lewisburg and 0.6 mile upstream from mouth.	134	1970-74	11-21-74 5-21-74	92 152

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Susquehanna River basin--Continued				
01555250	Mahanoy Creek at Dornsife, Pa.	Lat 40°44'40", long 76°47'28", Northumberland County, at bridge on State Highway 225 at Dornsife, 1.9 miles upstream from Schwaben Creek.	117	1949-50 1970-74	5-20-74	284
01555570	Wiconisco Creek near Elizabethville, Pa.	Lat 40°33'40", long 76°48'30", Dauphin County, at bridge on State Highway 225 and 1 mile north of Elizabethville.	79.2	1949-50 1970-74	5-21-74	148
01555780	Frankstown Branch Juniata River at East Freedom, Pa.	Lat 40°21'23", long 78°25'41", Blair County, at bridge on State Highway 164, 400 ft upstream from South Dry Run and 0.2 mile east of East Freedom.	47.4	1970-74	6-10-74	29
01559750	Raystown Branch Juniata River near Manns Choice, Pa.	Lat 40°01'03", long 78°37'07", Bedford County, at bridge on State Highway 31, 0.3 mile upstream from Shawnee Branch and 2 miles northwest of Manns Choice.	50.8	1952-53 1970-74	6-14-74	35
01559756	Shawnee Branch at Schellsburg, Pa.	Lat 40°02'17", long 78°39'16", Bedford County, at covered bridge, 0.3 mile upstream from mouth and 0.9 mile southwest of Schellsburg.	18.6	1968-74	6-10-74	10
01564550	Blacklog Creek near Orbisonia, Pa.	Lat 40°13'55", long 77°52'25", Huntingdon County, at bridge on U.S. Highway 522, 0.5 mile downstream from Shade Creek and 1.4 miles southeast of Orbisonia.	65.0	1970-74	5-22-74 9-27-74	51 4.6
01566900	Buffalo Creek near Newport, Pa.	Lat 40°29'37", long 77°08'20", Perry County, at bridge on L.R. 50013, 0.4 mile upstream from mouth and 1.2 miles north of Newport.	69.5	1958 1970-74	5-20-74	59
01571110	Yellow Breeches Creek near Walnut Bottom, Pa.	Lat 40°05'47", long 77°23'34", Cumberland county, at bridge on State Highway 174, 0.7 mile northeast of Walnut Bottom.	16.4	1970-74	5-21-74 9-26-74	12 .41
01571185	Mountain Creek at Pine Grove Furnace, Pa.	Lat 40°01'51", long 77°18'18", Cumberland County, at bridge on county road, 0.2 mile south of Pine Grove Furnace and 0.5 mile upstream from Toms Run.	13.9	1970-74	5-21-74 9-26-74	22 4.6
01571190	Mountain Creek near Mount Holly Springs, Pa.	Lat 40°05'36", long 77°11'14", Cumberland County, 0.6 mile upstream from reservoir dam and 2 miles south of Mount Holly Springs.	37.4	1970-74	5-21-74 9-26-74	56 9.5
01571820	Swatara Creek at Ravine, Pa.	Lat 40°34'57", long 76°24'25", Schuylkill County, at bridge on State Highway 125, at Ravine and 0.5 mile downstream from Lower Rauch Creek.	43.3	1962-63 1965 1970-74	5-22-74	90
01572950	Swatara Creek tributary near Harper Tavern, Pa.	Lat 40°26'28", long 76°36'00", Lebanon County, at bridge just west of State Highway 443 in Indiantown Gap Military Reservation, 1.9 miles upstream from State Memorial Lake dam and 2.5 miles north of Harper Tavern.	5.48	1970-74	5-21-74	21
01573940	Beaver Creek at Rossville, Pa.	Lat 40°04'39", long 76°54'56", York County, at bridge on Squire Gratz Road 4,000 ft upstream from mouth and 1 mile north of Rossville.	8.21	1968-74	5-21-74 9-25-74	4.4 .95
01578360	East Branch Octoraro Creek near Mt. Vernon, Pa.	Lat 39°49'50", long 76°01'05", Lancaster County, at county bridge, 0.2 mile downstream from Muddy Run, 1 mile upstream from Octoraro Lake and 1.5 miles north of Mt. Vernon.	75.6	1970-74	5-21-74	89

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Susquehanna River basin-Continued				
01578440	West Branch Octoraro Creek at White Rock, Pa.	Lat 39°49'29", long 76°05'25", Lancaster County, at county highway bridge at White Rock 1 mile upstream from Octoraro Lake, 1.2 miles downstream from Kings Run and 4 miles west of Mt. Vernon.	39.6	1970-74	5-21-74	44
		Potomac River basin				
01600400	Shaffers Run near Fairhope, Pa.	Lat 39°50'57", long 78°47'53", Somerset County, at bridge on L.R. 05012, 0.8 mile upstream from mouth and 1 mile north of Fairhope.	9.77	1970-74	6-11-74	4.9
*01600700	Little Wills Creek at Bard, Pa.	Lat 39°55'35", long 78°39'40", Bedford County, at bridge on State Highway 96, at Bard.	10.2	1970-74	3-26-74	8.7
01608900	Town Creek at Chaneysville, Pa.	Lat 39°48'31", long 78°29'46", Bedford County, at ford on county road, 1.2 miles downstream from confluence of Elk Lick and Wilson Run and 1.2 miles south of Chaneysville.	36.3	1970-74	6-11-74	14
01610130	West Branch Sideling Hill Creek at Purcell, Pa.	Lat 39°47'11", long 78°21'53", Bedford County, at bridge on L.R. 05009, 0.2 mile south of Purcell, and 0.4 mile upstream from mouth.	21.3	1970-74	5-22-74	9.8
01613080	Little Tonoloway Creek at Warfordsburg, Pa.	Lat 39°45'30", long 78°11'19", Fulton County, at bridge on U.S. Highway 522, 0.2 mile upstream from Cove Run, and 0.5 mile north of Warfordsburg.	44.8	1968-74	5-22-74	27
01613450	Licking Creek near Hustontown, Pa.	Lat 40°00'54", long 78°02'33", Fulton County, 200 ft downstream from Fortune Teller Creek and 2.8 miles south of Hustontown.	20.4	1970-74	5-22-74 9-27-74	16 1.2
01614140	Back Creek near Chambersburg, Pa.	Lat 39°53'36", long 77°44'30", Franklin County, bridge on L.R. 28052, 1.2 miles west of Turkey Foot and 5 miles southwest of Chambersburg.	63.0	1968-74	5-22-74 9-27-74	41 7.5
*01638900	White Run near Gettysburg, Pa.	Lat 39°47'45", long 77°11'50", Adams County, at concrete bridge on U.S. Highway 140, 1 mile upstream from mouth and 2.5 miles southeast of Gettysburg.	12.4	1970-74	5-21-74 9-25-74	1.1 .10
		Browns Run basin				
03012580	Browns Run at Warren, Pa.	Lat 41°49'21", long 79°06'33", Warren County, at site 300 ft below Morrison Run, and 0.5 mile southeast of Warren borough limit.	24.1	1970-74	4-18-74 9-26-74	61.0 13.2
		West Hickory Creek basin				
03016100	West Hickory Creek near West Hickory, Pa.	Lat 41°32'32", long 79°26'20", Forest County, at highway bridge 1.5 miles above mouth, and 1.6 miles northwest of West Hickory.	18.0	1970-74	4-18-74 9-25-74	47.9 12.4

*Also a crest-stage partial-record station.

Discharge measurements made at low-flow partial-recrod stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Tionesta Creek basin				
*03017800	Minister Creek near Truemans, Pa.	Lat 41°37'17", long 79°09'12", Forest County, in Allegheny National Forest, at bridge on State Highway 666, 0.4 mile above mouth, and 1 mile west of Truemans.	10.8	1970-74	4-18-74 4-26-74 9-24-74	32.5 25.0 10.9
		French Creek basin				
03021400	West Branch French Creek near Hornby, Pa.	Lat 42°06'08", long 79°49'20", Erie County, at bridge on State Highway 89, 2.4 miles southeast of Hornby, and 10 miles above mouth.	43.7	1970-74	4-25-74 9-26-74	175 9.7
03022800	Cussewago Creek at Crossingville, Pa.	Lat 41°49'52", long 80°14'28", Crawford County, at highway bridge at Crossingville, and 0.3 mile above West Branch	12.6	1970-74	4-15-74 4-25-74 9-26-74	59.4 24.8 1.2
		Clarion River basin				
03028900	Elk Creek at Ridgway, Pa.	Lat 41°25'31", long 78°43'38", Elk County, at bridge on State Highway 120 at Ridgway, and 0.6 mile above mouth.	61.2	1970-74	4- 8-74 9-26-74	201 52.0
*03029200	Clear Creek near Sigel, Pa.	Lat 41°19'17", long 79°04'39", Jefferson County, at bridge on State Highway 949 in Clear Creek State Park, 1,500 ft upstream from Phyllis Run, and 4 miles northeast of Sigel.	8.67	1971-74	4-19-74 9-23-74	16.4 5.9
03030600	Piney Creek at Piney, Pa.	Lat 41°10'12", long 79°28'20", Clarion County, at bridge on State Highway 854 at Piney, 0.1 mile above mouth, and 4 miles northwest of Reidsburg.	72.2	1933 1970-74	4-26-74 9-27-74	74.5 28.4
		Redbank Creek basin				
03031620	Laborde Branch near Du Bois, Pa.	Lat 46°06'18", long 78°42'51", Clearfield County, at highway bridge, 0.6 mile downstream from Luthersburg Branch and 2 miles east of Maple Street Hospital in Du Bois.	15.0	1971-74	4-19-74 9-26-74	29.6 13.3
03031650	Kyle Run near Falls Creek, Pa.	Lat 41°09'37", long 78°51'51", Jefferson County, at highway bridge, 0.6 mile upstream from Kyle Lake, and 3.2 miles west of the Falls Creek water tower.	2.09	1971-74	4-19-74 9-26-74	4.1 1.7
		Pine Creek basin				
03036300	North Fork Pine Creek near Mosgrove, Pa.	Lat 40°52'38", long 79°24'00", Armstrong County, at bridge on State Highways 28 and 66 at Slabtown (Baum), 4 miles east of Mosgrove, and 4.6 miles upstream from mouth.	3.42	1971-74	5- 1-74 9-27-74	10.2 2.4
		Kiskiminetas River basin				
03039700	Dark Shade Creek at Central City, Pa.	Lat 40°06'18", long 78°47'55", Somerset County, at highway bridge at Central City, and 3.4 miles above clear Shade Creek.	8.51	1970-74	4-16-74 9-23-74	21.9 2.9

*Also a crest-stage partial-record station.

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Kiskiminetas River basin--continued				
03045300	McCune Run at Keystone State Park, Pa.	Lat 40°22'26", long 79°22'25", Westmoreland County, at culvert in Keystone State Park, 200 ft above head of Keystone Lake, and 3 miles southeast of New Alexandria.	1.72	1970-74	4-18-74 9-23-74	2.6 4.6
03048300	Beaver Run near Slickville, Pa.	Lat 40°26'25", long 70°32'39", Westmoreland County, at highway bridge, 0.2 mile above Beaver Run Reservoir and 2 miles southwest of Slickville.	19.1	1970-74	4-17-74 9-25-74	21.2 17.2
		Bull Creek basin				
03049610	Bull Creek at Tarnetum, Pa.	Lat 40°36'54", long 79°45'36", Allegheny County, at bridge on dirt road, 0.3 mile above Little Bull Creek, and 0.9 mile north of Tarentum.	36.8	1970-74	4-18-74 9-24-74	40.8 29.4
		Pucketa Creek basin				
03049630	Pucketa Creek at New Kensington, Pa.	Lat 40°33'05", long 79°45'03", Allegheny County, at bridge 0.7 mile above mouth, 1 mile southeast of New Kensington.	25.4	1970-74	4-18-74 9-24-74	31.4 17.4
		Pine Creek basin				
03049810	Pine Creek at Etna, Pa.	Lat 40°29'42", long 79°56'26", Allegheny County, at highway bridge on ramp leading to 62nd Street Bridge at Etna, and 0.8 mile above mouth.	66.8	1950-52 1970-74	4-18-74 9-24-74	87.4 47.5
		Monongahela River basin				
03072700	Whiteley Creek at Kirby, Pa.	Lat 39°48'08, long 80°07'02", Greene County, at bridge on U.S. Highway 19 at Kirby, and 1.4 miles above Dyers Fork.	8.74	1939 1949-51 1970-74	4-17-74 9-23-74	7.6 14.5
03072830	Daniels Run at Marianna, Pa.	Lat 40°01'37", long 80°05'26", Washington County, at Penn Central Railroad bridge, 0.2 mile above mouth, and 0.5 mile northeast of Marianna.	17.3	1948-51 1970-74	4-16-74 9-23-74	21.4 19.8
03075040	Pigeon Creek at Monongahela, Pa.	Lat 40°11'26", long 79°55'50", Washington County, at bridge east of State Highway 481, 0.8 mile south of Monongahela, and 1.1 miles above mouth.	58.4	1951 1970-74	4-16-74 9-25-74	94.0 47.7
03075090	Peters Creek at Large, Pa.	Lat 40°17'31", long 79°54'56", Allegheny County, at bridge on State Highway 51 at Large, and 3 miles above mouth.	42.6	1966-67 1970-74	4-16-74 9-25-74	86.8 31.9
03079600	Laurel Hill Creek near Bakersville, Pa.	Lat 40°00'32", long 79°14'04", Somerset County, at bridge at head of Laurel Lake, 2.3 miles southwest of Bakersville, and 3.3 miles below Kooser Run.	38.2	1970-74	9-17-74 9-23-74	88.8 22.8
03083100	Jacobs Creek at Jacobs Creek Pa.	Lat 40°07'23", long 79°44'14", Westmoreland County, 0.3 mile above Highway bridge at Jacobs Creek, and 0.4 mile above mouth.	94.9	1950 1965-67 1970-74	4-16-74 9-25-74	203 107

Discharge measurements made at low-flow partial-record stations during water year 1974--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Beaver River basin				
03099900	Paden Creek near Pennline, Pa.	Lat 41°44'16", long 80°28'17", Crawford County, at bridge on road west of Steamburg, 2.7 miles northeast of Pennline, and 4.7 miles upstream from mouth.	6.55	1971-74	4-15-74 4-25-74 9-27-74	33.0 10.0 0.99
03106030	Slippery Rock Creek at Boyers, Pa.	Lat 41°06'34", long 79°54'30", Butler County, at bridge 0.5 mile above Blacks Creek, and 0.5 mile west of Boyers.	28.4	1967-74	4-18-74 8-19-74 9-27-74	74.8 5.5 11.4
		Raccoon Creek basin				
03107700	Traverse Creek at Raccoon Creek State Park, Pa.	Lat 40°30'04", long 80°25'17", Beaver County, at highway bridge 0.2 mile southeast of Raccoon Creek State Park Headquarters, 1.8 miles northeast of Frankfort Springs, and 3.5 miles above mouth.	14.7	1970-74	4-17-74 9-25-74	26.0 9.5
		Beaver Creek basin				
03109300	North Fork Little Beaver Creek at Darlington, Pa.	Lat 40°48'22", long 80°25'22", Beaver County, at bridge on State Highway 551 at Darlington, and 12 miles below Honey Creek.	88.7	1949-51 1970-74	4-17-74 9-25-74	149 46.9

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

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Delaware River basin					
01427650	N.B. Calkins Creek near Damascus, Pa.	Lat 41°42'00", long 75°10'00", at concrete bridge on State Highway 371 at West Damascus, 4.0 miles west of Damascus, 4.8 miles above Sunny Brook, and 8.0 miles above mouth.	7.02	1962-64 1965-73≠ 1974	2-22-74	7.35	430
01430000	Lackawaxen River near Honesdale, Pa.	Lat 41°33'43", long 75°14'54", at Lemnitzer Bridge in Honesdale, Wayne County, on U.S. Highway 6, and 1.2 miles downstream from Dyberry Creek.	164	1949-69≠ 1974	1-29-74	4.38	2,430
01431000	Middle Creek near Hawley	Lat 41°29'05", long 75°13'20", Wayne County, at bridge on L.R. 63022, 0.1 mile below Red Shale Brook, 2 miles northwest of Hawley, and 2.5 miles above mouth.	78.4	1945-60≠ 1961-74	12-21-73	4.42	1,210
01431680	Mill Brook near Paupack, Pa.	Lat 41°23'15", long 75°14'20", Pike County, at culvert on State Highway 507, 400 ft above mouth, 1.8 miles south of Paupack. Datum of gage is 1,183.84 ft above mean sea level.	4.84	1960-74	8-16-73 12-21-73	6.64 5.95	a553 285
01438300	Vandermark Creek at Milford, Pa.	Lat 41°19'35", long 74°47'50", Pike County, at stone bridge on Broad Street in Milford, and 0.4 mile above mouth. Datum of gage is 490.50 ft above mean sea level.	5.36	1962-74	12-21-73	3.40	270
01440300	Mill Creek at Mountainhome, Pa.	Lat 41°09'50", long 75°16'00", Monroe County, at stone-arch bridge on macadam road 0.5 mile east of Mountainhome, and 1.5 miles above mouth.	5.84	1961-74	2-22-74	7.25	290
01452300	East Branch Monocacy Creek near Bath, Pa.	Lat 40°43'10", long 75°22'10", Northampton County, on left bank 25 ft downstream from bridge on L.R. 40863, 1.5 miles southeast of Bath, and 2.5 miles upstream from mouth. Datum of gage is 372.06 ft above mean sea level.	5.35	1962-68≠ 1969-74	12-21-73	4.82	224
01454600	Polk Valley Run at Hellertown, Pa.	Lat 40°34'05", long 75°19'45", Northampton County, at concrete bridge on L.R. 48093, 0.7 mile above mouth, and 1.5 miles southeast of Hellertown.	2.14	1963-74	12-21-73	3.48	21

≠ Operated as a continuous-record station.
a Revised.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Delaware River basin--continued					
*01458900	Tinicum Creek near Ottsville, Pa.	Lat 40°28'14", long 75°08'13", Bucks County, at concrete bridge on gravel road, 0.9 mile below confluence of Rapp Creek, 1.5 miles east of Ottsville, and 5.3 miles above mouth.	14.7	1962-74	12-21-73	5.15	1,160
01465780	Poquessing Creek above Byberry Creek at Philadelphia, Pa.	Lat 40°14'10", long 74°58'33", Philadelphia County, on left bank 2,200 ft upstream from Byberry Creek, Philadelphia. Datum of gage is 17.26 ft above mean sea level.	13.2	1965-70≠ 1971-74	12-21-73	6.81	1,350
01465795	Byberry Creek at Grant Avenue, Philadelphia, Pa.	Lat 40°03'45", long 74°59'47", Philadelphia County, on left bank 120 ft upstream from Grant Avenue Bridge, 1,300 ft west of Frankford Avenue, Philadelphia. Datum of gage is 26.17 ft above mean sea level.	7.13	1964-70≠ 1971-74	12-21-73	2.78	/
01467043	Stream "A" at Philadelphia, Pa.	Lat 40°05'27", long 75°03'50", Philadelphia County, at concrete-box culvert on Bloomfield Avenue in Philadelphia, Pa.	1.20	1965-74	8- 2-74	14.72	322
01467045	Pennypack Creek below Verree Road, Philadelphia, Pa.	Lat 40°05'04", long 75°03'34", Philadelphia County, on left bank 600 ft downstream from Verree Road and 1 mile downstream from Rockledge Branch, Philadelphia. Datum of gage is 67.26 ft above mean sea level.	42.8	1964-70≠ 1971-74	12-21-73	10.58	2,890
*01471800	Pine Creek near Manatawny, Pa.	Lat 40°24'43", long 75°44'02", Berks County, at steel bridge on macadam road, 0.5 mile above mouth, 0.5 mile below West Branch Pine Creek, and 2 miles north of Manatawny.	15.6	1961-74	12-21-73	4.69	21
01473100	Zacharias Creek near Skippack, Pa.	Lat 40°12'26", long 75°21'57", Montgomery County, at concrete weir 1.2 miles above mouth, and 2.2 miles southeast of Skippack.	7.27	1960-74	12-21-73	8.25	2,200
01473880	Pine Run tributary at Fort Washington, Pa.	Lat 40°08'13", long 75°11'21", Montgomery County at corrugated half-round culvert on Delaware Road in Fort Washington Industrial Park at Fort Washington, and 300 ft above mouth.	2.01	1962-74	12-21-73	7.40	152
01473900	Wissahickon Creek at Fort Washington, Pa.	Lat 40°07'26", long 75°13'13", Montgomery County, on concrete bridge on State Highway 73, 0.5 mile downstream from Sandy Run, and 1 mile south of Fort Washington.	40.8	1961-68≠ 1969-74	12-21-73	11.40	3,120
01473980	Wissahickon Creek at Livezey Lane Philadelphia, Pa.	Lat 40°02'59", long 75°12'52", Philadelphia County, on left bank 300 ft upstream from Green Valley Boat Club, 500 ft downstream from Chreshiem Creek in Philadelphia. Datum of gage is 78.55 ft above mean sea level.	59.2	1965-70≠ 1971-74	12-21-73	-	b4,200

* Also low-flow partial-record station.
/ Not determined.
≠ Operated as a continuous-record station.
b Estimated.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Delaware River basin--continued					
01478200	Middle Branch White Clay Creek near Landenberg, Pa.	Lat 39°46'54", long 75°48'03" Chester County, at bridge on L.R. 15017, 1.4 miles above mouth, and 1.8 miles west of Landenberg.	12.7	1960-74	12-21-73	7.39	874
01480610	Sucker Run near Coatesville, Pa.	Lat 39°58'20", long 75°51'06", Chester County, at concrete bridge on South Park Avenue at State Highway 372, 1.6 miles above mouth, and 2 miles west of Coatesville.	2.57	1964-74	12-21-73	4.45	195
		Susquehanna River basin					
01516800	Manns Creek near Mansfield, Pa.	Lat 41°49'19", long 77°05'50", Tioga County, at bridge on gravel road, 0.5 mile above mouth, and 1.8 miles northwest of Mansfield.	3.01	1960-74	12-20-73	5.02	297
01531250	North Branch Sugar Creek tributary near Columbia Cross Roads, Pa.	Lat 41°50'25", long 76°49'38", Bradford County, at bridge on secondary road, 14 miles upstream from mouth and 1.5 miles west of Columbia Cross Roads.	8.83	1962-68≠ 1969-74	-	c	≠
01532200	South Branch Towanda Creek at New Albany, Pa.	Lat 41°35'25", long 76°26'00", Bradford County, at bridge on gravel road, 0.1 mile below French Creek, 0.7 mile above Beaver Run and 0.8 mile south of New Albany.	13.3	1963-74	12-21-73	6.04	844
01533250	Tuscarora Creek near Silvara, Pa.	Lat 41°42'25", long 76°07'10", Bradford County, at culvert on gravel road, 1 mile northeast of Silvara, 1.1 miles above Mill Creek, and 4.6 miles above mouth.	11.8	1963-74	4- 3-74	d4.68	412
01538800	Huntington Creek near Pikes Creek, Pa.	Lat 41°18'40", long 76°08'50", Luzerne County, at bridge on State Highway 118, 1.5 miles above Mitchler Run, and 2.8 miles west of Pikes Creek.	4.94	1960-74	8-27-74	7.37	339
01542720	Wilson Run at Penfield, Pa.	Lat 41°12'58", long 78°35'00", Clearfield County, at wooden bridge, 200 ft north of State Highway 153, 0.8 mile northwest of Penfield, and 0.7 mile above mouth.	8.34	1962-74	4- 4-74	4.22	391
01544450	Germania Branch at Germania, Pa.	Lat 41°38'49", long 77°39'22", Potter County, at concrete bridge on private road, 50 ft below Baders Hollow, 0.3 mile east of Germania and 4.6 miles above mouth.	2.40	1964-74	-	e	e
01548020	Bull Run near Loganton, Pa.	Lat 41°00'30", long 77°19'35", Clinton County, at pipe culvert on State Route 477, and 2 miles southeast of Loganton.	1.99	1963-74	11- 8-72 1-21-74	5.90 6.85	a33 119
01552100	Mill Creek near Warrensville, Pa.	Lat 41°20'10", long 76°57'45", Lycoming County, at bridge on L.R. 41044, 1.2 miles northwest of Warrensville, and 6 miles above mouth.	11.9	1961-74	12-21-73	2.59	338

≠ Not determined.
≠ Operated as a continuous-record station.
a Revised.
c Gage out of commission temporarily.
d Using auxiliary gage.
e Peak did not get above base.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Susquehanna River basin--continued					
01553050	White Deer Hole Creek near Elimsport, Pa.	Lat 41°07'05", long 77°04'00", Lycoming County, at bridge on L.R. 41001, 2.5 miles west of Elimsport, and 12.5 miles above mouth. Datum of gage is 650.84 ft above mean sea level.	18.2	1961-74	10-29-73	6.95	418
01555800	McDonald Run near East Freedom, Pa.	Lat 40°22'35", long 78°25'55", Blair County, at concrete culvert on U.S. Highway 220, 0.4 mile above mouth, and 1.5 miles north of East Freedom. Datum of gage is 1,014.18 ft above mean sea level.	1.54	1959-74	3-10-74	2.76	53
01556400	Sandy Run near Bellwood, Pa.	Lat 40°33'47", long 78°20'35", Blair County, at bridge on private road, 0.6 mile above mouth, and 2.5 miles south of Bellwood.	5.58	1962-74	3-10-74	3.71	123
01556500	Little Juniata River at Tipton, Pa.	Lat 40°37'40", long 78°17'38", Blair County, at Tipton, 100 ft below bridge on State Highway 220, and 150 ft below Tipton Run. Datum of gage is 946.76 ft above mean sea level.	93.7	1946-62≠ 1963-74	4- 4-74	5.34	1,790
01557100	Schell Run at Tyrone, Pa.	Lat 40°40'00", long 78°15'00", Blair County, 0.2 mile above U.S. Highway 220 between 5th Street and Shippen Street, Tyrone. Datum of gage is 919.11 ft above mean sea level.	1.68	1958-62≠ 1963-74	9- 1-74	2.33	114
01563800	Elders Branch near Hustontown, Pa.	Lat 40°05'20", long 78°02'55", Fulton County, at timber bridge on gravel road, 2.2 miles above mouth, and 5 miles northeast of Hustontown.	3.46	1960-74	10-29-73	5.99	141
01565920	Lick Run near East Waterford, Pa.	Lat 40°21'15", long 77°38'55", Juniata County, at culvert on L.R. 34070, 0.7 mile above mouth, and 1.5 miles southwest of East Waterford.	8.38	1962-74	2-24-62 3- 5-64 3- 3-65 3- 6-67 5-29-68 4- 2-70 11-23-70 6-16-74	7.65 6.60 6.68 6.92 6.43 6.8 7.38 5.38	a315 a224 a227 a237 a217 a232 a261 127
01569340	Newburg Run at Newburg, Pa.	Lat 40°07'40", long 77°32'50", Cumberland County, at concrete bridge on State Highway 696, 0.4 mile above mouth, and 0.8 mile south of Newburg.	5.29	1964-74	6-16-74	5.26	243
01571000	Paxton Creek near Penbrook, Pa.	Lat 40°18'30", long 76°51'00", on right bank, 93 ft upstream from culvert on North Progress Ave. and 2 miles north of Penbrook, Dauphin County.	11.2	1974	10-29-73	5.53	636
01572900	Reeds Creek near Ono, Pa.	Lat 40°24'25", long 76°33'15", Lebanon County, at concrete culvert on U.S. Highway 22, 1 mile west of Ono, and 1.1 miles above mouth. Datum of gage is 367.72 ft above mean sea level.	8.63	1962-74	8- 2-74	8.0	2,010

≠ Operated as a continuous-record station.
a Revised.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Susquehanna River basin--continued					
01576320	Stony Run at Reamstown, Pa.	Lat 40°12'44", long 76°07'30", Lancaster County, at double-arch bridge, 0.1 mile southeast of U.S. Highway 222, 0.1 mile northwest of Reamstown, and 0.7 mile above mouth.	3.55	1964-74	8-17-74	4.26	372
01578200	Conowingo Creek near Buck, Pa.	Lat 39°50'35", long 76°11'45", Lancaster County, at concrete bridge on L.R. 36135, 2 miles above Jackson Run, and 2.5 miles southeast of Buck.	8.71	1963-74	12-20-73	5.86	427
		Potomac River basin					
*01600700	Little Wills Creek at Bard, Pa.	Lat 39°55'35", long 78°39'40", Bedford County, at bridge on State Highway 96 at Bard. Datum of gage is 1,264.2 ft above mean sea level.	10.2	1961-74	10-29-73	7.70	300
*01638900	White Run near Gettysburg, Pa.	Lat 39°47'45", long 77°11'50", Adams County, at concrete bridge on U.S. Highway 140, 1 mile above mouth, and 2.5 miles southeast of Gettysburg. Datum of gage is 414.65 ft above mean sea level.	12.4	1961-74	9-14-73 12-27-73	d8.19 d7.95	a1,200 1,080
		Conewango Creek basin					
03015080	Akeley Run near Russell, Pa.	Lat 41°55'55", long 79°05'38", Warren County, at highway bridge 1.1 miles upstream from Middlefield Run, and 2.5 miles east of Russell. Datum of gage is 1,367.84 ft above mean sea level.	9.64	1962-74	6-30-74	5.71	f1,000
		Brokenstraw Creek basin					
03015390	Hare Creek near Corry, Pa.	Lat 41°56'29", long 79°38'41", Erie County, at concrete dam of Corry Water Co., 1.1 miles above Bear Creek, and 1.5 miles north of Corry.	12.3	1964-74	5-12-74	5.63	744
		Tionesta Creek basin					
*03017800	Minister Creek near Truemans, Pa.	Lat 41°37'17", long 79°09'12", Forest County, in Allegheny National Forest, at bridge at State Highway 666, 0.4 mile above mouth, and 1 mile west of Truemans.	10.8	1961-74	6-30-74	4.50	f860

* Also low-flow partial-record station.
a Revised.
d Using auxiliary gage.
f Indirect measurement.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (cfs)
		Oil Creek basin					
03020440	West Branch Caldwell Creek near Grand Valley, Pa.	Lat 41°45'31", long 79°34'08", Warren County, at bridge 2 miles above Three Bridge Run, and 3 miles northwest of Grand Valley.	4.37	1964-74	5-12-74	7.98	236
		Richey Run basin					
03026400	Richey Run at Emlenton, Pa.	Lat 41°10'53", long 79°41'25", Clarion County, at highway bridge 1 mile east of Emlenton, and 1.2 miles above mouth.	5.88	1963-74	1-19-74	3.58	547
		Clarion River basin					
*03029200	Clear Creek near Sigel, Pa.	Lat 41°19'17", long 79°04'39", Jefferson County, at bridge on State Highway 949, in Clear Creek State Park, 1,500 ft above Phyllis Run, and 4 miles northeast of Sigel.	8.67	1960-74	3-8-74	5.01	288
		Redbank Creek basin					
03031780	Mill Creek near Brockway, Pa.	Lat 41°14'53", long 78°50'08", Jefferson County, at culvert on State Highway 28, and 2 miles west of Brockway.	2.12	1965-74	3- 9-74	5.43	133
		Kiskiminetas River basin					
03042170	Stoney Run at Indiana, Pa.	Lat 40°36'31", long 79°09'49", Indiana County, at southwest edge of Indiana, 300 ft west of U.S. Highway 119, and 0.1 mile below Marsh Run.	4.39	1964-74	6-30-74	g8.38	/
		Buffalo Creek basin					
03049100	Little Buffalo Creek at Cabot, Pa.	Lat 40°45'57", long 79°46'01", Butler County, at highway bridge at Cabot, 500 ft above main bridge, and 3.5 miles above Sarver Run.	4.66	1959-74	8-30-74	4.44	229
		Monongahela River basin					
03072880	Browns Creek near Nineveh, Pa.	Lat 39°56'27", long 80°17'21", Greene County, at highway bridge just below Patterson Run, 1.8 miles southeast of Nineveh, Pa. Datum of gage is 975.60 ft above mean sea level.	17.5	1963-74	6-30-74	d12.1	3,500
03083600	Gillespie Run near Sutersville, Pa.	Lat 40°13'59", long 79°49'06", Allegheny County, at upstream highway bridge at Mustard, 0.4 mile above mouth, and 0.7 mile west of Sutersville.	4.04	1959-74	1-24-74	1.45	/

* Also a low-flow partial-record station.
/ Not determined.
d Using auxiliary gage.
g Affected by backwater.

Annual maximum discharge at crest-stage partial-record stations--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (cfs)
		Streams tributary to Lake Erie					
04213200	Mill Creek at Erie, Pa.	Lat 42°05'54", long 80°04'35", Erie County, at bridge on West 38th Street, 100 ft west of State Highway 505, at Erie.	9.16	1964-74	5-12-74	10.20	345

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a square (¤).

Discharge measurements made at miscellaneous sites during water year 1974

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Delaware River Basin				
Wallenpaupack Creek	Lackawaxen River	Lat 41°20'10", long 75°20'25", Wayne County, at bridge on secondary road, 0.8 mi north of East Sterling	70.7	1944-57 1973	10-15-73 11-14-73 12-11-73 1-17-74 2-21-74 4-17-74	*30 *56 372 *136 125 292
West Branch Wallenpaupack Creek	Wallenpaupack Creek	Lat 41°22'25", long 75°23'28", Wayne County, at bridge on State Highway 196, 2.2 mi south of Hamlin.	47.0	1959-69 1973	10-15-73 11-14-73 1-17-74 2-21-74 4-17-74	*11 *21 *95 54 123
West Branch Wallenpaupack Creek	Wallenpaupack Creek	Lat 41°21'34", long 75°21'04", Wayne County, 0.3 mi upstream from confluence of East Branch Wallenpaupack Creek, 1.4 mi southwest of Ledgedale.	67.2	-	12-11-73	359
Sawkill Creek	Delaware River	Lat 41°19'19", long 74°48'17", Pike County, at private bridge in Milford and 0.8 mile upstream from mouth.	24.0	-	10-18-72 11-30-72 4-12-73 6-20-73 11- 8-73	9.6 87 139 44 19
Raymondskill Creek	Delaware River	Lat 41°17'40", long 74°50'48", Pike County, on county road bridge, 1.0 mi upstream from mouth and 3.0 miles southwest of Milford, Pa.	23.1	-	10-18-72 11-30-72 4-12-73 6-20-73 11- 8-73	8.5 100 144 36 24
Dingman's Creek	Delaware River	Lat 41°13'30", long 74°52'49", Pike County, at highway bridge on road to Dingman's Falls, 1.1 mi upstream from mouth, 1.0 mi northwest of Dingman's Ferry.	15.2	1955 1958-68	10-18-72 11-30-72 4-12-73 6-20-73 11- 8-73	3.4 56 79 11 14
Little Bush Kill	Bush Kill	Lat 41°05'52", long 75°00'15", at highway bridge on Sugar Hill Road 0.5 mi upstream from mouth and 0.3 mi northwest of Bushkill Post Office.	32.6	-	10-17-72 11-30-72 7-24-73 11- 8-73	10 153 69 43
Marshall Creek	Brodhead Creek	Lat 40°59'50", long 75°08'30", Monroe County, at bridge on rural road at Minisink Hills, 600 ft upstream from mouth.	26.8	1958-73	12-27-73 12-27-73	254 240
Jordan Creek	Little Lehigh Creek	Lat 40°39'55", long 75°41'19", Lehigh County, at bridge on rural road, 1.3 mi south of Pleasant Corners.	14.3	1973	11-21-73 4- 4-74 9-12-74	*3.7 159 *7.8
Jordan Creek	Little Lehigh Creek	Lat 40°39'27", long 75°41'06", Lehigh County, at bridge on Stage Highway 100 at Lowhill.	23.0	-	7-23-74	*4.1
Switzer Creek	Jordan Creek	Lat 40°39'34", long 75°41'33", Lehigh County, at bridge on rural road, 0.25 mi upstream from mouth and 1.7 mi south of Pleasant Corners.	8.43	1967 1973	11-21-73 4- 4-74	*3.3 73
Lyon Creek	Jordan Creek	Lat 40°37'30", long 75°40'27", Lehigh County, at bridge on rural road 0.4 mi southwest of Lyon Valley.	7.52	1973	11-20-73 4- 4-74 9-12-74	*2.9 71 *8.6

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Delaware River basin--Continued				
Mill Creek	Jordan Creek	Lat 40°40'35", long 75°38'25", Lehigh County, at bridge on State Highway 309, 2.0 mi west of Schnecksville.	5.19	1973	11-21-73	*1.4
					4- 4-74	43
					9-12-74	5.6
Jordan Creek	Little Lehigh Creek	Lat 40°37'50", long 75°32'31", Lehigh County, 400 ft downstream from Reading Railroad bridge, 1.2 mi south of Meyersville.	71.8	1969	7-23-74	*2.1
Tulpehocken Creek	Schuylkill River	Lat 40°22'29", long 76°11'21", Lebanon County, 150 ft downstream from bridge on State Highway 419, 0.8 mi north of Womelsdorf.	84.8	1944	5-29-73	580
				1946-49	11-23-73	*64
				1951	2-27-74	*129
				1953-55	4- 2-74	290
				1957		
				1973		
Northkill Creek	Tulpehocken Creek	Lat 40°25'50", long 76°06'51", Berks County, 0.4 mi upstream from mouth, 0.2 mi south of Bernville.	42.0	1944	11-23-73	*9.4
				1946-49	4- 2-74	200
				1951		
				1953-55		
				1957		
				1973		
Licking Creek	Tulpehocken Creek	Lat 40°24'34", long 76°03'44", Berks County, at culvert on dirt road, 0.8 mi upstream from mouth, and 3.3 mi southeast of Bernville.	2.81	1973	11-23-73	*.94
					2-26-74	*4.6
					4- 2-74	13
Spring Creek	Tulpehocken Creek	Lat 40°23'24", long 76°04'40", Berks County, at bridge on county road, 1.5 mi upstream from mouth, and 3.8 mi southeast of Bernville.	30.5	1973	11-23-73	*15
					2-26-74	*46
					4- 2-74	100
					9-11-74	*14
Pigeon Creek	Schuylkill River	Lat 40°12'03", long 75°37'10", Chester County, at bridge on Ellis Woods Road, 1.8 mi west of Parker Ford and 3.0 mi upstream from mouth.	12.0	1970-72	10- 4-72	3.9
					10-28-72	27
					11- 3-72	4.4
					11-14-72	452
					12- 7-72	25
					2-15-73	39
					10-18-73	3.8
					1-28-74	25
					3- 8-74	13
					4-12-74	43
					5-17-74	18
					6-21-74	8.5
		Susquehanna River basin				
Tioga River	Susquehanna River	Lat 41°50'30", long 77°06'13", Tioga County, at bridge at Lambs Creek, 3.0 mi northwest of Mansfield.		1973	10- 9-73	*73
					11- 8-73	*149
					12-13-73	392
					4- 2-74	1,250
					5- 1-74	285
					5-22-74	*160
					6-12-74	96
					7-21-74	40
					8-14-74	*29
					9-12-74	*29
Mill Creek	Tioga River	Lat 41°52'55", long 77°07'15", Tioga County, at bridge on U.S. Highway 15 at Mill Creek, and 2.0 mi south of Tioga.	76.4	1938-40≠	10-11-73	*10
				1973	11- 7-73	*25
					12-13-73	113
					3-13-74	*104
					4- 2-74	473
					5- 1-74	86
					6-12-74	28
					7-21-74	*6.5
					8-14-74	*6.9
					9-12-74	*7.2

≠ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Susquehanna River basin--Continued				
Crooked Creek	Tioga River	Lat 41°50'35", long 77°16'30", Tioga County, at bridge at Middlebury Center, 0.15 mi downstream from Catlin Hollow.	-	1973	10-10-73	*16
					11- 7-73	*39
					12-12-73	146
					3-15-74	*69
					4- 4-74	453
					5- 3-74	*50
					6-14-74	*8.0
					7-21-74	*6.9
					8-16-74	*3.3
Cowanesque River	Tioga River	Lat 41°54'55", long 77°34'17", Tioga County, at bridge on rural road, 0.25 mi downstream from Crance Brook, and 2.0 mi west of Westfield.	-	1973	10-10-73	*7.6
					11- 7-73	*28
					12-12-73	63
					3-14-74	*77
					4- 3-74	272
					5- 2-74	*51
					6-13-74	*8.0
					8-15-74	*3.1
Mill Creek	Cowanesque River	Lat 41°55'15", long 77°32'07", Tioga County, at bridge on State Highway 49, at Westfield.	-	1973	10-10-73	*4.2
					11- 7-73	*9.5
					12-12-73	18
					3-14-74	*23
					4- 3-74	59
					5- 2-74	*9.5
					6-13-74	*1.2
					7-21-74	*2.0
					8-15-74	*2.0
Cowanesque River	Tioga River	Lat 41°55'33", long 77°31'18", Tioga County, at bridge on State Highway 49, 0.7 mi northeast of Westfield.	-	1973	10-10-73	*16
					11- 7-73	*50
					12-12-73	117
					3-14-74	*170
					4- 3-74	540
					5- 2-74	*76
					6-13-74	*12
					7-21-74	*12
					8-15-74	*7.6
Troups Creek	Cowanesque River	Lat 41°58'05", long 77°26'55", Tioga County, at bridge on State Highway 249, 0.8 mi northwest of Knoxville.	66.5	1938-41✱ 1973	10-10-73	*5.3
					11- 7-73	*22
					12-13-73	44
					3-14-74	*109
					4- 3-74	312
					5- 2-74	*39
					6-13-74	*5.6
					7-21-74	*3.7
					8-15-74	*2.6
Cowanesque River	Tioga River	Lat 41°58'25", long 77°14'35", Tioga County, at bridge at Nelson and 0.75 mi upstream, from Cummings Creek.	266	1938-41✱ 1973	10-10-73	*48
					11- 7-73	*129
					12-12-73	317
					3-14-74	*319
					4- 3-74	1,430
					5- 2-74	*190
					6-13-74	*32
					8-15-74	*17
Applemans Run	Fishing Creek	Lat 41°01'53", long 76°25'13", Columbia County, at culvert on State Highway 487, at Light Street.	1.72	-	10-14-71	*.28
					11- 3-71	.45
					11-15-71	.90
					11-29-71	14
					12- 7-71	9.7
					12-29-71	*.74
					1-25-72	*2.9
					2-13-72	22
					6-22-72	¤560
					7-13-72	*.74
					7-27-72	*.50
					8-17-72	*.52
					8-27-72	.42
					9-28-72	*.25
					10- 3-72	*.30
					10-16-72	*.19
					11- 8-72	10
					11-13-72	*.35
					12-13-72	*3.1

✱ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Susquehanna River basin--Continued				
Applemans Run (Con't)					12-27-72	*3.3
					2- 1-73	*.82
					2-28-73	*.57
					3-17-73	8.4
					3-22-73	*1.3
					4- 5-73	5.4
					5-30-73	*1.4
					6-20-73	*.48
					7-18-73	*.50
					8-21-73	*.27
					9-26-73	*.86
					10-30-73	.91
					12- 4-73	*.46
					1- 4-74	*1.4
					1-16-74	1.3
					2- 5-74	*1.1
					3-20-74	*.97
					4- 1-74	21
					4- 9-74	7.7
					5- 6-74	*.64
					6- 5-74	*.38
Applemans Run	Fishing Creek	Lat 41°01'55", long 76°25'39", Columbia County, at culvert on Papermill Road, at Light Street.	1.99	-	10-25-71	.53
					11- 3-71	.60
					11-15-71	1.6
					11-29-71	17
					12- 7-71	12
					12-29-71	*.76
					1-25-72	*3.9
					2-13-72	26
					3- 1-72	23
					3- 2-72	14
					3-16-72	28
					4-20-72	19
					5-18-72	*1.5
					10- 3-72	*.43
					10-16-72	*.20
					11- 8-72	18
					11-13-72	*.63
					11-14-72	22
					12-13-72	*3.6
					12-27-72	*2.6
					2- 2-73	*.79
					3- 6-73	1.2
					3-17-73	2.4
					3-17-73	11
					3-22-73	*1.6
					4- 5-73	6.0
					5-30-73	*1.8
					6-20-73	*.76
					7-18-73	*.68
					7-30-73	*.63
					8-21-73	*.48
					9-26-73	*1.2
					10-30-73	1.4
					12- 4-73	*.65
					1- 3-74	*1.8
					2- 5-74	*1.4
					3-20-74	*1.2
					4- 1-74	22
					4- 9-74	9.4
					5- 6-74	*.90
					6- 6-74	*.51
West Branch Susquehanna River	Susquehanna River	Lat 40°43'34", long 78°48'20", Indiana County, at bridge on State Highway 580, at Cherry Tree.	58.8	1970-73	11- 7-73	*56
					12-21-73	376

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Susquehanna River basin--Continued				
Mosquito Creek	West Branch Susquehanna River	Lat 40°07'03", long 78°06'35", Clearfield County, at mouth, at Karthaus.	71.2	1940-73	10- 1-73	*27
					10-24-73	*50
					12-12-73	231
					1-22-74	633
					3- 5-74	*196
					4-24-74	*164
					5-28-74	*86
Fishing Creek	Bald Eagle Creek	Lat 40°58'49", long 77°29'00", Clinton County, at bridge on macadam road, 3.1 miles west of Tylersville.	55.8	1971-73	10-30-73	409
Unnamed Tributary	Blockhouse Creek	Lat 41°34'04", long 77°06'06", Tioga County, on gravel road, 100 ft upstream from mouth, at Liberty.	1.08	-	10- 2-72	*.11
					10-17-72	*.07
					11- 8-72	3.2
					11-30-72	*2.1
					12-28-72	*3.3
					1-18-73	*.53
					2- 7-73	*2.0
					3-17-73	9.6
					3-17-73	66
					3-17-73	43
					3-20-73	*4.9
					3-27-73	*1.9
					4-17-73	*1.1
					5-23-73	*3.1
					6-26-73	*.46
					7- 2-73	*.47
					7-10-73	*.19
					7-30-73	*.30
					8-29-73	*.54
					9- 4-73	*.37
					10- 9-73	*.64
					10-23-73	*.42
					11- 5-73	*1.5
					1-21-74	8.5
					3- 4-74	2.3
					4- 2-74	3.5
					4-15-74	5.0
					4-29-74	*.88
					5-28-74	*.57
					7- 1-74	2.7
					8- 6-74	*.11
					9-10-74	*.39
Blockhouse Creek	Little Pine Creek	Lat 41°29'43", long 77°09'02", Lycoming County, 100 ft upstream from confluence with Steam Valley Run, at Buttonwood.	22.3	-	10- 2-72	*2.7
					10-16-72	*1.7
					10-24-72	3.8
					11- 8-72	101
					12- 1-72	32
					1-18-73	*12
					2- 7-73	55
					3-13-73	41
					3-18-73	219
					3-20-73	94
					3-28-73	*26
					4-17-73	*23
					5-22-73	77
					7- 3-73	*7.6
					7- 3-73	*7.1
					7-24-73	*4.2
					8- 7-73	*2.9
					8-29-73	*11
					9-12-73	*7.6
					10-16-73	*8.3
					11-28-73	74
					1- 8-74	*21
					2-19-74	*12
					3- 4-74	58
					3-27-74	*24
					4- 2-74	209
					4- 8-74	*55
					4-15-74	112
					4-29-74	*20
					5-28-74	*12
					6-10-74	*4.7
					7- 1-74	40
					8- 6-74	*2.7
					9- 4-74	28

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Susquehanna River basin--Continued				
Steam Valley Run	Blockhouse Creek	Lat 41°29'39", long 77°09'03", Lycoming County, at bridge on State Highway 284, 500 ft upstream from mouth, at Buttonwood.	5.33	-	10- 2-72	*0.61
					10-16-72	*.46
					10-24-72	.92
					11- 1-72	*.82
					11- 9-72	13
					12- 1-72	12
					12-28-72	20
					1-18-73	*4.4
					2- 7-73	18
					3-13-73	*16
					3-17-73	44
					3-18-73	90
					3-20-73	31
					3-28-73	*9.2
					4-17-73	*9.9
					5-22-73	28
					7- 3-73	*3.0
					7-24-73	*2.0
					8- 7-73	*1.9
					8-29-73	*4.6
					9-12-73	*2.0
					9-19-73	9.8
					10-10-73	*2.9
					10-16-73	*2.5
					11-28-73	21
					1- 8-74	*7.4
					2-19-74	*4.5
					3- 4-74	12
					3-27-74	*6.8
					4-12-74	28
					4-15-74	34
					4-29-74	7.2
					5-28-74	5.3
					7- 1-74	12
					8- 6-74	1.2
					9- 4-74	5.9
Antes Creek	West Branch Susquehanna River	Lat 41°07'20", long 77°14'00", Clinton County, at bridge on L.R. 18019, at Rauchtown.	12.6	1959-69 1973	2-12-74	*15
					4-18-74	26
Quenshukeny Run	West Branch Susquehanna River	Lat 41°15'43", long 77°08'49", Lycoming County, at bridge on county road, 0.25 mi downstream from Jobes Run and 2.2 mi north of Linden.	7.1	-	2-13-74	*3.2
Bottle Run	Lycoming Creek	Lat 41°15'34", long 77°03'47", Lycoming County, at bridge on Mill Lane, 0.9 mi northwest of Garden View.	3.42	-	2-13-74	*1.9
White Deer Creek	West Branch Susquehanna River	Lat 41°03'17", long 77°04'31", Union County, at bridge on White Deer Creek Road, 1500 ft upstream from Sand Spring Run and 11.3 mi west of White Deer.	17.8	1968-73≠	10- 4-73	*12
					10-16-73	*9.5
White Deer Creek	West Branch Susquehanna River	Lat 41°04'18", long 76°56'03", Union County, at bridge on Legislative Route 59045, and 3.2 mi west of White Deer.	40.0	1968-73≠	10- 1-73	*21
					10-17-73	*39
Bloody Run	Raystown Branch Juniata River	Lat 40°00'55", long 78°22'26", Bedford County, at bridge on Third Street, Everett, and 0.4 mi upstream from mouth.	-	1969-73	10-29-73	23
					5- 2-74	*1.0
Three Springs Creek	Aughwick Creek	Lat 40°12'48", long 77°55'34", Huntingdon County, at mouth and 3.5 miles northeast of Three Springs.	31.4	1940-73a	1-25-74	70

≠ Operated as a continuous-record gaging station.
a Most years during period.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Potomac River basin				
Little Marsh Creek	Marsh Creek	Lat 39°49'49", long 77°19'04", Adams County, at bridge on L.R. 01002, 6,000 ft upstream, from mouth and 4.6 mi west of Gettysburg.	20.5	1971-72	4- 6-73 6-25-73 11- 1-73	76 *17 48
Toms Creek	Monocacy Creek	Lat 39°46'05", long 77°26'01", Adams County, at bridge on macadam road 200 ft upstream from Copper Run, and 3.7 miles southwest of Fairfield.	4.80	1971-73	11- 1-73	5.5
		Allegheny River basin				
South Branch State Line Run	State Line Run	Lat 41°59'48", long 78°59'05", Warren County, in Allegheny National Forest, at bridge on L.R. 61037 just south of PA-NY border.	-	-	10-26-73 11-13-73 4-19-74	.83 8.8 15
Willow Creek	Allegheny Reservoir	Lat 41°59'00", long 78°54'03", McKean County, in Allegheny National Forest, at bridge on State Highway 346, 0.8 mi northwest of junction with State Highway 321.	-	-	10-26-73 11-13-73 4-19-74	2.0 34 82
Sugar Run	Allegheny Reservoir	Lat 41°52'28", long 78°52'45", McKean County, in Allegheny National Forest, at bridge at mouth on unimproved road just south of State Highway 321.	-	-	10-25-73 11-13-73 4-18-74	4.3 17 59
North Branch Sugar Run	Sugar Run	Lat 41°53'30", long 78°53'20", McKean County, in Allegheny National Forest, at mouth at bridge on State Highway 321.	-	-	10-25-73 11-12-73 4-19-74	1.1 8.5 46
Chappel Fork	Allegheny Reservoir	Lat 41°48'50", long 78°51'59", McKean County, in Allegheny National Forest, adjacent to L.R. 42003, 0.3 mi west of junction with L.R. T558.	-	-	10-25-73 11-12-73 4-18-74	4.2 13 50
Kinzua Creek	Allegheny Reservoir	Lat 41°46'52", long 78°49'34", McKean County, in Allegheny National Forest, adjacent to secondary road, approximately 2.5 mi west of Westline, Pa.	-	-	10-25-73 11-12-73 4-18-74	22 74 236
South Branch Kinzua Creek	Kinzua Creek	Lat 41°45'10", long 78°51'58", McKean County, in Allegheny National Forest, at bridge on secondary road, 0.2 mi east of junction with State Highway 321.	-	-	10-25-73 11-12-73 4-18-74	8.7 28 133
Allegheny River	Head of Ohio River	Lat 41°49'28", long 79°07'09", Warren County, at bridge on U.S. Highway 6 at Warren, 1,500 ft upstream from Glade Run, 6.9 miles downstream from Kinzua Dam, and at mile 191.2.	2,223	1935-73≠	12-12-73	3,990
		Oil Creek basin				
West Shreve Run	Canadohta Lake	Lat 41°49'40", long 79°50'40", Crawford County, at bridge on L.R. 20139, 1.25 mi north of Lakeville, Pa.	-	-	10-12-73 11-12-73 4-15-74	.05 .54 11
East Shreve Run	Canadohta Lake	Lat 41°49'02", long 79°49'57", Crawford County, at bridge on secondary road near mouth.	-	-	10-12-73 11-12-73 4-15-74	.31 .91 11
Oil Creek	Canadohta Lake	Lat 41°48'11", long 79°50'33", Crawford County, at bridge on L.R. 20031, 0.4 mi downstream from Canadohta Lake.	-	-	10-12-73 11-12-73 4-15-74	4.6 9.7 39

≠ Operated as a continuous record-gaging station.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Oil Creek basin--Continued				
Oil Creek	Allegheny River	Lat 41°44'38", long 79°46'36", Crawford County, 0.9 mi upstream above confluence with E. Br. Oil Creek, approximately 0.2 mi upstream of West Centerville corporate boundary.	-	-	9-24-74	*11
Britton Run	Oil Creek	Lat 41°46'28", long 79°43'48", Crawford County, 0.3 mi upstream from Oil Creek and approximately 1.8 mi downstream from Britton Run, Pa. at bridge 1.5 mi south of PA-77.	-	-	9-24-74	*2.4
Oil Creek	Allegheny River	Lat 41°39'59", long 79°45'11", Crawford County, 2.5 mi above Thompson Creek, at bridge approximately 0.5 mi downstream Mystic Park, Pa.	-	-	9-24-74	*52
McLaughlin Creek	Thompson Creek	Lat 41°40'18", long 79°42'48", Crawford County, 1.0 mi upstream confluence with Thompson Creek at first bridge upstream located in Bog Hollow.	-	-	9-25-74	*4.7
Shirley Run	Thompson Creek	Lat 41°42'11", long 79°39'55", Crawford County, approximately 0.4 mi downstream Dolly Run, at bridge 3.3 mi south of Buell Corners on PA-89.	-	-	9-24-74	*5.3
Oil Creek	Allegheny River	Lat 41°37'46", long 79°42'10", Crawford County, approximately 2.2 mi below Thompson Creek on bridge approximately 0.9 mi west of Titusville corporate boundary on PA-27.	-	-	9-25-74	*64
Oil Creek	Allegheny River	Lat 41°37'25", long 79°39'57", Crawford County, on Brown St. Bridge, 0.4 mi downstream from PA-8, approximately 0.8 mi upstream from Pine Creek, approximately 0.2 mi above Church Run.	-	-	9-23-74	*110
Church Run	Oil Creek	Lat 41°38'11", long 79°40'31", Crawford County, just upstream from north corporate boundary at PA-89.	-	-	9-25-74	*1.5
		French Creek basin				
Unnamed Creek	Conneaut Lake	Lat 41°36'49", long 80°18'31", Crawford County, at bridge on secondary road, 0.5 mi north of Conneaut Lake, Pa.	-	-	10-10-73 11- 8-73 4-16-74	.02 .80 4.1
Inlet Run	Conneaut Lake	Lat 41°39'09", long 80°18'47", Crawford County, at bridge on State Highway 618, 0.7 mi northeast of Conneaut Lake Park.	-	-	10-10-73 11- 8-73 4-16-74	1.6 3.7 18
Conneaut Outlet	Conneaut Lake	Lat 41°36'11", long 80°17'58", Crawford County, at bridge at outlet on State Highway 6, just east of Conneaut Lake, Pa.	-	-	10-10-73 11- 8-73 4-16-74	24 50 91
		Clarion River basin				
Fivemile Run	E. Br. Clarion River	Lat 41°38'18", long 78°34'33", McKean County, at bridge 0.5 mi upstream from mouth and 4.6 miles south of Hazel Hurst.	6.33	-	4- 9-74	*23
Swamp Creek	E. Br. Clarion River	Lat 41°35'30", long 78°35'46", Elk County, at bridge 1.8 miles southeast of Rasselas and 1.8 miles upstream from mouth.	3.61	-	4- 9-74	*6.2
Crooked Creek	E. Br. Clarion River	Lat 41°32'15", long 78°36'49", Elk County, at Highway bridge in Glen Hazel, 0.3 mi upstream from mouth.	9.71	-	4-10-74	*28

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Clarion River basin--Continued				
Johnson Run	E. Br. Clarion River	Lat 41°34'11", long 78°37'14", Elk County, 2.1 miles north of Ketner and at Streights and 2.2 miles north of Glen Hazel.	4.38	-	4- 9-74	*12
Johnson Run	E. Br. Clarion River	Lat 41°32'23", long 78°37'34", Elk County, at bridge 0.2 mile east of Ketner and 4.0 miles northeast of Johnsonburg.	8.32	-	4- 10-74	*24
East Branch Clarion River	Clarion River	Lat 41°29'38", long 78°40'22", Elk County, at bridge 0.4 mile upstream from confluence with West Branch Clarion River.	108	-	4-10-74	653
Wilson Run	W. Br. Clarion River	Lat 41°35'56", long 78°43'35", Elk County, at bridge 0.1 mile west of Dahoga and 0.1 mile upstream from Hoffman Run.	20.0	-	4-10-74	42
Powers Run	Clarion River	Lat 41°28'45", long 78°40'12", Elk County, at bridge 0.1 mile upstream from mouth and 1.0 mile south of Johnsonburg.	11.8	-	4- 8-74	*46
Riley Run	Clarion River	Lat 41°28'08", long 78°42'00", Elk County, at bridge 2 miles southwest of Johnsonburg and 1.3 miles upstream from mouth (Clarion River).	1.03	-	4- 8-74	*5.7
Laurel Run	Elk Creek	Lat 41°25'07", long 78°36'18", Elk County, at bridge on State Highway 120, 0.1 mile above mouth, and 2.3 miles west of St. Marys.	8.53	-	4- 8-74	*24
Daguscahonda Creek	Elk Creek	Lat 41°25'09", long 78°38'32", Elk County, at bridge on State Highway 120, 0.2 mile upstream from mouth, and 0.7 mile east of Daguscahonda.	13.4	1973	4- 8-74	*38
Clarion River	Allegheny River	Lat 41°25'15", long 78°44'10", Elk County, at bridge on State Highway 948 in Ridgway 50 ft downstream from Elk Creek.	303	1940-53≠ 1954-73	10-15-73 11-13-73 1- 7-74 2- 4-74 3-11-74 4-17-74 5-20-74 6-25-74 7-29-74	217 318 613 823 2,180 1,010 719 304 267
Little Toby Creek	Clarion River	Lat 41°20'40", long 78°36'45", Elk County, at bridge 0.1 mile west of Coal Hollow and 0.7 mile south of Dagus Mines.	.77	1973	4- 9-74	4.6
Limestone Run	Little Toby Creek	Lat 41°19'40", long 78°37'28", Elk County, 0.3 mile above Little Toby Creek and 0.4 mile east of Toby.	.92	-	4- 9-74	*2.2
Kyler Run	Little Toby Creek	Lat 41°19'37", long 78°38'01", Elk County, at bridge, 500 ft upstream from mouth, 0.2 mile west of Toby, and 0.7 mile east of Kylers Corners.	2.12	1973	4- 9-74	*13
Unnamed Tributary	Little Toby Creek	Lat 41°19'09", long 78°38'29", Elk County, at bridge at Kylers Corners, 0.1 mile upstream from mouth.	.70	1973	4- 9-74	*3.0
Little Toby Creek	Clarion River	Lat 41°19'05", long 78°38'26", Elk County, at bridge at Kylers Corners 0.7 mile below Kyler Run.	6.44	1973	4- 9-74	*35

≠ Operated as a continuous record-gaging station.

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Clarion River basin--Continued				
Brandy Camp Creek	Little Toby Creek	Lat 41°17'10", long 78°41'22", Elk County, at bridge on rural road 0.1 mile from junction with State Highway 219 at Challenge, 0.3 mile upstream from mouth, and 1.1 miles south of Elbon.	13.4	1973	4- 9-74	*48
Bear Run	Little Toby Creek	Lat 41°16'24", long 78°41'38", Elk County, 1.5 miles east of Elbon and 0.4 mile above mouth.	6.16	1973	4-10-74	*19
Little Toby Creek	Clarion River	Lat 41°15'46", long 78°42'16", Elk County, at bridge on secondary road, 0.5 mile northeast of Brockport, and 0.5 mile upstream from Mead Run.	41.5	1973	4-10-74	*133
Mead Run	Little Toby Creek	Lat 41°15'38", long 78°43'33", Elk County, at bridge on State Highway 219 at Brockport and 500 feet upstream from mouth.	8.09	1973	4-10-74	23
Boggy Run	Little Toby Creek	Lat 41°15'16", long 78°42'49", Elk County, 0.8 mile east of Brockport and 0.8 mile above mouth.	3.15	1973	4-10-74	*7.9
Whetstone Branch	Little Toby Creek	Lat 41°15'06", long 78°44'10", Elk County, 0.7 mile southwest of Brockport and 0.2 mile above mouth.	5.07	1973	4-10-74	*13
Rattlesnake Run	Rattlesnake Creek	Lat 41°13'02", long 78°46'36", Jefferson County, at bridge 200 feet upstream from McEwen Run, and 1.4 miles south of confluence with Little Toby Creek.	5.84	1973	4-11-74	*22
Rattlesnake Creek	Little Toby Creek	Lat 41°13'13", long 78°46'25", Jefferson County, at bridge 0.2 mile downstream from McEwen Run and 1.3 miles south of confluence with Little Toby Creek.	5.87	1973	4-11-74	*47
Little Toby Creek	Clarion River	Lat 41°15'09", long 78°47'48", Jefferson County, at railroad bridge, 0.2 mile north of State Highway 28. Published as "Toby Creek" 1946-54.	54.0	1946-54 1972-73	4-10-74	*263
Little Toby Creek	Clarion River	Lat 41°21'53", long 78°49'22", Elk County, at railroad bridge 0.1 mile above State Highway 949 and 0.8 mile south of Portland Mills.	126	1972-73	4-11-74 8-22-74	*414 *31
Spring Creek	Clarion River	Lat 41°24'59", long 78°56'52", Elk County, in Allegheny National Forest, at bridge 1.5 miles north of Hallton, and 1.6 miles upstream from mouth.	86.0	1972-73	4-12-74	*285
Toms River	Clarion River	Lat 41°23'38", long 79°14'22", Clarion County, at bridge on secondary road, 0.9 mi west of North Pine Grove and 1.3 miles southwest of Vowinckel.	-	-	4-10-74	*4.4
Browns Run	Toms Run	Lat 41°21'40", long 79°13'59", Clarion County, at bridge on Toms Run Road, 400 ft above mouth and 2.3 mi northwest of Cooksburg.	-	-	4- 8-74	*6.0
Toms Run	Clarion River	Lat 41°21'39", long 79°14'05", Clarion County, just west of Toms Run Road and 100 ft above Browns Run.	-	-	4- 8-74	*13
Mill Creek	Clarion River	Lat 41°14'25", long 79°14'06", Clarion County, at bridge 100 ft downstream from McCanna Run, 0.5 mile upstream from Little Mill Creek, and 5.5 miles northeast of Strattonville.	28.5	-	4-10-74	*62

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Clarion River basin--Continued				
Mill Creek	Clarion River	Lat 41°14'15", long 79°17'11", Clarion County, at bridge 1.9 miles upstream from mouth, and 3.2 miles north of Strattonville.	66.1	1972-73	4- 9-74	*161
Toby Creek	Clarion River	Lat 41°15'29", long 79°22'06", Clarion County, at bridge 1.5 miles west of Miola, 2.1 miles east of Paint Mills and 2.5 miles above mouth.	29.6	1972-73	4-12-74	*97
Piney Creek	Clarion River	Lat 41°08'44", long 79°21'49", Clarion County, 2.2 miles northwest of Limestone and 0.7 mile below Little Piney Creek.	38.3	-	4-12-74	*118
Canoe Creek	Clarion River	Lat 41°14'12", long 79°31'21", Clarion County, at bridge 0.8 mile east of Knox.	7.06	-	4- 8-74	*17
Beaver Creek	Clarion River	Lat 41°13'49", long 79°34'48", Clarion County, at bridge on State Highway 208 and 2.3 miles west of Knox.	4.70	-	4- 8-74	*11
Beaver Creek	Clarion River	Lat 41°10'53", long 79°33'41", Clarion County, at bridge at Blairs Corners 1.6 miles upstream from mouth and 2.7 miles east of Turkey City.	14.3	-	4- 8-74	*36
Licking Creek	Clarion River	Lat 41°07'25", long 79°34'06", Clarion County, at bridge 0.5 mile west of Callensburg and 0.6 mile upstream from mouth.	51.9	1972-73	4- 9-74	*133
Clarion River	Allegheny River	Lat 41°08'57", long 79°39'37", Clarion County, on right bank at downstream side of highway bridge, 1 mile south of St. Petersburg, 1.6 miles downstream from Turkey Run, and 4.5 miles upstream from mouth.	1,246	1940-41 1942-53≠ 1967-69 1972-73	8-20-74	*340
		Redbank Creek basin				
Sandy Lick Creek	Allegheny River	Lat 41°09'20", long 79°03'12", Jefferson County, at bridge on State Highway 236, 0.1 mile above mouth, and 1.4 miles east of Brookville.	158	1972-73	4-12-74	*511
Fivemile Run	Sandy Lick Creek	Lat 41°08'39", long 79°04'42", Jefferson County, at bridge 0.4 mile upstream from mouth, 1.0 mile south of Brookville.	18.2	-	4-12-74	*52
Beaver Run	Redbank Creek	Lat 41°05'25", long 79°10'52", Jefferson County, at bridge at Heathville, 0.1 mile upstream from mouth.	6.76	1973	4-12-74	*30
Little Sandy Creek	Redbank Creek	Lat 41°01'58", long 79°11'05", Jefferson County, at bridge 0.4 mile west of Langville, 1.3 miles north of North Freedom, and 2.6 miles upstream from mouth.	67.2	1972-73	4-10-74	*159
Unnamed Trib.	Pine Creek	Lat 41°04'49", long 79°14'15", Clarion County, at bridge at Shannondale and 0.1 mile upstream from mouth.	2.66	-	4-10-74	*17
Leatherwood Creek	Redbank Creek	Lat 41°04'09", long 79°22'17", Clarion County, 0.8 mile southwest of Brinkerton and 5.1 miles northwest of New Bethlehem.	6.09	1973	4-11-74	*20
West Fork	Leatherwood Creek	Lat 41°03'15", long 79°23'09", Clarion County, 1.0 mile north of Rockville and 3.7 miles northwest of New Bethlehem.	3.49	-	4-11-74	*13
Jack Run	Leatherwood Creek	Lat 41°02'15", long 79°22'50", Clarion County, at bridge 0.2 mile southeast of Rockville and 3.5 miles northwest of New Bethlehem.	3.37	-	4-11-74	*11

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Discharge measurements made at miscellaneous sites during water year 1973--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Redbank Creek basin--Continued				
Leatherwood Creek	Redbank Creek	Lat 41°01'12", long 79°23'14", Clarion County, at bridge 0.7 mile south of Leatherwood, and 3.0 miles west of New Bethlehem.	18.1	-	4-11-72	*67
		Kiskiminetas River basin				
Unnamed Creek	Lake Stonycreek	Lat 40°01'23", long 78°52'12", Somerset County, at bridge on township road, 0.25 mi below Indian Lake Dam.	-	-	10-24-73 11-14-73 4-16-74	.17 .47 .79
Boone Run	Lake Stonycreek	Lat 40°00'33", long 78°51'20", Somerset County, at bridge on state highway 160, 0.25 mi east of Boone, Pa.	-	-	10-24-73 11-14-73 4-16-74	1.3 7.2 11
Rhoads Creek	Indian Lake	Lat 40°00'55", long 78°54'07", Somerset County, at bridge at Shanksville, Pa.	-	-	10-24-73 11-14-73 4-16-74	4.3 22 56
Beaver Run	Beaver Run Reservoir	Lat 40°26'26", long 79°32'39", Westmoreland County, below confluence of Beaver Run and Porters Run, 1.5 mi southwest of Slickville, Pa.	-	-	10-24-73 11-14-73 4-17-74	1.9 5.5 20
Poke Run	Beaver Run Reservoir	Lat 40°29'22", long 79°35'47", Westmoreland County, at bridge at Poke Run, Pa.	-	-	10-24-73 11-14-73 4-17-74	.19 .72 3.0
Beaver Run	Beaver Run Reservoir	Lat 40°30'49", long 79°33'05", Westmoreland County, at bridge on state highway 380 just below Beaver Run Dam.	-	-	10-24-73 11-14-73 4-17-74	2.9 3.0 37
		Crawford Run basin				
Crawford Run	Allegheny River	Lat 40°35'13", long 79°47'14", Allegheny County, about 0.2 mi above Clarks Run and 0.8 mi above mouth.	-	-	6-30-74	¤314
		Pine Creek basin				
Little Pine Creek	Allegheny River	Lat 40°31'49", long 79°55'24", Allegheny County, 2.2 mi above mouth.	4.21	-	6-30-74	¤1,930
		Monongahela River basin				
Dunlap Creek	Monongahela River	Lat 39°55'35", long 79°47'49", Fayette County, point of junction of the upper forks of Dunlap Creek, approximately 1.0 mi above Burnt Cabin Branch.	-	-	10- 2-74	*.17
Dunlap Creek	Monongahela River	Lat 39°55'04", long 79°48'50", Fayette County, 400 ft below Burnt Cabin Branch, approximately 0.8 mi east of New Salem, upstream from coke ovens.	-	-	10- 2-74	*.80
Catfish Run	Piney Fork	Lat 40°17'19", long 79°59'29", Allegheny County, 300 ft upstream from mouth, and 2.1 miles southwest of Bruceton, Pa.	3.88	-	7-10-74	¤703
Hen Run	Youghiogheny River	Lat 39°48'12", long 79°22'05", Fayette County, at mouth, below outlet of Youghiogheny River Dam.	1.67	1953	3-19-74	2.7
Sawmill Run	Ohio River	Lat 40°22'12", long 80°00'43", Allegheny County, along Port Authority Transit tracks 1,000 ft northeast of Sleepy Hollow Road, 1,200 ft northeast of Linden Grove at Castle Shannon, Pa.	3.72	-	7-10-74	¤1,600

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Chartiers Creek basin				
Unnamed Creek	Chartiers Creek	Lat 40°11'54", long 80°13'24", Washington County, at bridge on Berry Road, 0.8 mi downstream from U.S. Highway 19, 1.6 mi upstream from (relocated) mouth, and 1.4 mi northeast of Washington city line, Pa.	-	-	6- 8-74	1.6
Brush Run	Chartiers Creek	Lat 40°16'41", long 80°04'26", Washington County, in field just upstream from confluence with unnamed tributary north of Valley Brook Road, 1,500 ft downstream from Bebout Road, 0.6 mi east of McMurray, Pa., and 3.3 miles upstream from mouth.	-	-	10-20-73 10-27-73	*.14 *.12
Unnamed Creek	Brush Run	Lat 40°16'40", long 80°04'26", Washington County, at mouth in field north of Valley Brook Road, 400 feet west of Bebout Road, 0.6 mile east of McMurray, Pa.	-	-	10-20-73 10-27-73	*.06 *.06
Brush Run	Chartiers Creek	Lat 40°16'52", long 80°05'23", Washington County, off Valley Brook Road, 100 ft upstream from mine-water treatment plant, 0.4 miles west of McMurray, Pa., and 2.3 miles upstream from mouth.	4.85	1972-73	10-11-73 10-20-73 5-28-74	*.46 *.25 *2.8
Unnamed Creek	Brush Run	Lat 40°16'52", long 80°05'38", Washington County, 15 ft upstream from mouth, 400 ft south of Valley Brook Road, and 0.5 mile west of McMurray, Pa. and 0.5 mile downstream from East McMurray Road.	-	-	10-24-73	*.12
Brush Run	Chartiers Creek	Lat 40°17'23", long 80°17'23", Washington County, off Valley Brook Road, 25 ft upstream from unnamed tributary at Old Washington Road, 0.2 mile southeast of Thompsonville, 1.2 miles upstream from mouth, and 1.4 miles northwest of McMurray, Pa.	7.00	-	10-20-73	.53
Unnamed Creek	Brush Run	Lat 40°17'25", long 80°06'20", Washington County, at bridge on Valley Brook Road, 25 ft upstream from mouth, 0.2 mile southeast of Thompsonville, and 1.4 miles northwest of McMurray, Pa.	-	-	10-20-73	*.14
Brush Run	Chartiers Creek	Lat 40°18'06", long 80°06'44", Washington County, off Valley Brook Road, 200 ft upstream from mouth, 0.5 mile southeast of Lawrence, and 2.1 miles northwest of McMurray, Pa.	-	-	10-22-73 5-28-74	*3.9 10
Coal Run	Chartiers Creek	Lat 40°20'10", long 80°08'24", Allegheny County, just upstream from bridge on Coal Pit Run Road, 1.2 miles south of Morgan, 1.9 miles upstream from mouth, and 2.2 miles southwest of Bridgeville, Pa.	2.01	1972-73	10-11-73	*.05
McLaughlin Run	Chartiers Creek	Lat 40°21'36", long 80°06'35", Allegheny County, just above forking of main stem and about 1,200 ft above confluence with Chartiers Creek.	-	-	4-19-74	4.3
Painter Run	Chartiers Creek	Lat 40°21'42", long 80°05'40", Allegheny County, 1,000 ft above confluence with Chartiers Creek.	-	-	4-19-74	1.3
Campbells Run	Chartiers Creek	Lat 40°24'29", long 80°05'27", Allegheny County, along Chartiers Ave., 600 ft above mouth at Carnegie, Pa.	5.55	-	7-10-74	1,170¤

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Beaver River basin				
Unnamed Creek	Pymatuning Reservoir	Lat 41°34'20", long 80°22'20", Crawford County, at bridge on emergency road in state game lands, 1.5 mi northeast of Hartstown, Pa.	-	-	10-11-73 11- 8-73 4-16-74	.60 2.2 13
Linesville Creek	Pymatuning Reservoir	Lat 41°39'22", long 80°25'15", Crawford County, at bridge on State Highway 6 in Linesville, Pa.	-	-	10-10-73 11- 8-73 4-15-74	4.0 5.6 35
Bennett Run	Pymatuning Reservoir	Lat 41°36'49", long 80°26'28", Crawford County, at bridge on secondary road 1 mi northeast of North Shenango, Pa.	-	-	10-10-73 11- 9-73 4-16-74	.70 2.8 14
Paden Creek	Pymatuning Reservoir	Lat 41°41'27", long 80°29'28", Crawford County, at bridge on State Highway 6 near junction with Hall Road	-	-	10-10-73 11- 8-73 4-15-74	3.8 7.2 53
Gravel Run	Pymatuning Reservoir	Lat 41°37'25", long 80°32'31", Ashtabula County, at bridge on Pymatuning Lake Road, 0.1 mi north of Fenkell Road.	-	-	10-11-73 11- 9-73 4-16-74	.58 .64 13
Unnamed Creek	Pymatuning Reservoir	Lat 41°36'28", long 80°32'31", Ashtabula County, at bridge on Pymatuning Lake Road, 1.2 mi east of Andover, Ohio.	-	-	10-11-73 11- 9-73 4-16-74	.63 .93 7.6
Black Creek	Pymatuning Reservoir	Lat 41°35'10", long 80°32'30", Ashtabula County, at bridge on Pymatuning Lake Road, 0.4 mi south of junction with Gibbs Road.	-	-	10-11-73 11- 9-73 4-16-74	0 0 8.5
Unnamed Creek	Pymatuning Reservoir	Lat 41°33'46", long 80°29'30", Crawford County, at bridge on secondary road, 0.8 mi northwest of Westford, Pa.	-	-	10-11-73 11- 9-73 4-16-74	.20 1.2 4.0
McMichael Creek	Pymatuning Reservoir	Lat 41°32'25", long 80°32'01", Ashtabula County, at bridge on Pymatuning Lake Road, 0.5 mi north of Simons, Ohio.	-	-	10-11-73 11- 9-73 4-16-74	.12 .81 12
Shenango River	Shenango River Lake	Lat 41°17'05", long 80°19'15", Mercer County, at bridge on L.R. 43082 at Big Bend, Pa.	-	-	10- 9-73 11-15-73 4-17-74	200 310 925
Lackawannock Creek	Shenango River Lake	Lat 41°16'53", long 80°19'10", Mercer County, at bridge on L.R. T584 at Big Bend, Pa.	-	-	10- 9-73 11-15-73 4-17-74	2.5 3.9 14
Daley Run	Shenango River Lake	Lat 41°16'47", long 80°21'05", Mercer County, at bridge on State Highway 58, 4 mi east of Clark, Pa.	-	-	10- 9-73 11-15-73 4-17-74	.27 .81 3.0
Magargee Run	Shenango River Lake	Lat 41°16'58", long 80°23'21", Mercer County, at bridge on State Highway 258, 1.2 mi east of Clark, Pa.	-	-	10- 9-73 11-15-73 4-17-74	.74 1.4 9.5
Golden Run	Shenango River Lake	Lat 41°16'58", long 80°24'50", Mercer County, at bridge on State Highway 258, just east of Clark, Pa.	-	-	10- 9-73 11-15-73 4-17-74	.16 .47 4.6
Brush Run	Shenango River Lake	Lat 41°18'03", long 80°26'02", Mercer County, at bridge on L.R. T587, 0.5 mi west of State Highway 18.	-	-	10- 9-73 11-15-73 4-17-74	.38 .98 4.0
Booth Run	Pymatuning Creek	Lat 41°20'32", long 80°30'58", Mercer County, at bridge on L.R. 43037 at northeast corner of Orangeville, Pa.	-	-	10- 9-73 11-15-73 4-17-74	.25 2.2 11
Pine Hollow Run	Shenango River Lake	Lat 41°15'31", long 80°27'28", Mercer County, at bridge on State Highway 518 just west of Lamonts Corners, Pa.	-	-	10- 9-73 11-15-73 4-17-74	.29 .74 4.4

Discharge measurements made at miscellaneous sites during water year 1974--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Harmon Creek basin				
Harmon Creek	Ohio River	Lat 40°22'45", long 80°26'09", Washington County, approximately 0.3 mi downstream from supply reservoir, just upstream from unnamed tributary at bridge.	-	-	10- 1-74	*1.5
Harmon Creek	Ohio River	Lat 40°22'09", long 80°28'01", Washington County, just upstream from Ward Run, 1.4 mi downstream from Station 1 at bridge.	-	-	10- 1-74	*4.9
Harmon Creek	Ohio River	Lat 40°20'07", long 80°29'34", Washington County, 7,000 ft downstream from station 2 at R.R. bridge, 0.1 mi upstream from unnamed tributary.	-	-	10- 1-74	*7.6
Harmon Creek	Ohio River	Lat 40°22'08", long 80°31'10", Washington County, where creek crosses state boundary, 0.1 mi downstream from Paris Run, 1.9 mi downstream from Station 3.	-	-	10- 1-74	*10

Jordan Creek seepage investigations - Lowhill to Allentown, Pa.

Five series of measurements were made during the 1973-74 water years, Aug. 25, 1973, Oct. 16, 17, 1973, Mar. 13, 14, 1974, Apr. 17, 18, 1974, and July 31 to Aug. 1, 1974, on Jordan Creek and Hassen Creek in Pennsylvania, to study channel gains and losses. The reach is 22.4 miles in length and extends from a partial-record station at Lowhill (01451703) to the gaging station at Allentown (01452000). The measurements were made during periods of constant base flow of the streams; for three days before the investigations no measurable precipitation had fallen. Tributary flow was considered a contribution and not a gain. Indicated gains or losses may be substantially in error as affected by small inaccuracies in open-channel measurements. The data for the 1973 water year has not previously been published.

Jordan Creek mile	Stream	Drainage area	Location	Discharge, in cubic feet per second									
				Meas. disch.	Gain or loss	Meas. disch.	Gain or loss	Meas. disch.	Gain or loss	Meas. disch.	Gain or loss	Meas. disch.	Gain or loss
				Aug. 25, 1973		Oct. 16, 17, 1973		Mar. 13, 14, 1974		Apr. 17, 18, 1974		July 31 to Aug. 1, 1974	
26.8	Jordan Creek	23.0	U.S. Highway 309 at Lowhill	-	-	5.15	-	39.7	-	95.4	-	5.21	-
18.8	....do.....	53.0	Gaging station near Schnecksville	13.6	-	13.9	+8.75	148	+108.3	209	+113.6	13.1	+ 7.89
15.4	....do.....	55.4	At Kernsville-Lowhill Rd nr Kernsville	14.1	+ .5	15.5	+1.6	151	+ 3	216	+ 7	17.7	+ 4.6
14.5	....do.....	57.2	At Kernsville	14.0	- .1	14.7	- .8	151	0	214	- 2	10.6	- 6.9
14.0	....do.....	57.4	110 ft upstream from Hassen Creek nr Kernsville	14.0	0	14.3	- .4	147	- 4	215	+ 1	12.2	+ 1.6
-	Hassen Creek	7.70	At mouth	1.68	-	1.55	-	20.6	-	13.7	-	.98	-
12.1	Jordan Creek	68.8	At old Mill Dam nr Guthsville	10.3	-5.38	10.3	-5.55	165	- 2.6	189	- 39.7	7.83	- 5.35
10.1	....do.....	71.8	At Cedar Crest Boulevard nr Myersville	8.01	-2.29	6.28	-4.02	145	- 20	185	- 4	5.18	- 2.65
7.1	....do.....	74.2	At 15th Street at Scherersville	9.00	+ .99	6.56	+ .28	136	- 9	211	+ 26	5.90	+ .72
4.4	....do.....	75.8	Gaging station at Allentown	16.8	+7.8	14.1	+7.54	173	+ 37	204	- 7	26.5	+20.6
	Net gain or loss:		Mile 26.8 to 4.4	-	-		+8.95		+133.3		+108.6		+21.3
			Mile 18.8 to 4.4		+3.2		+ .2		+ 25		- 5		+13.4

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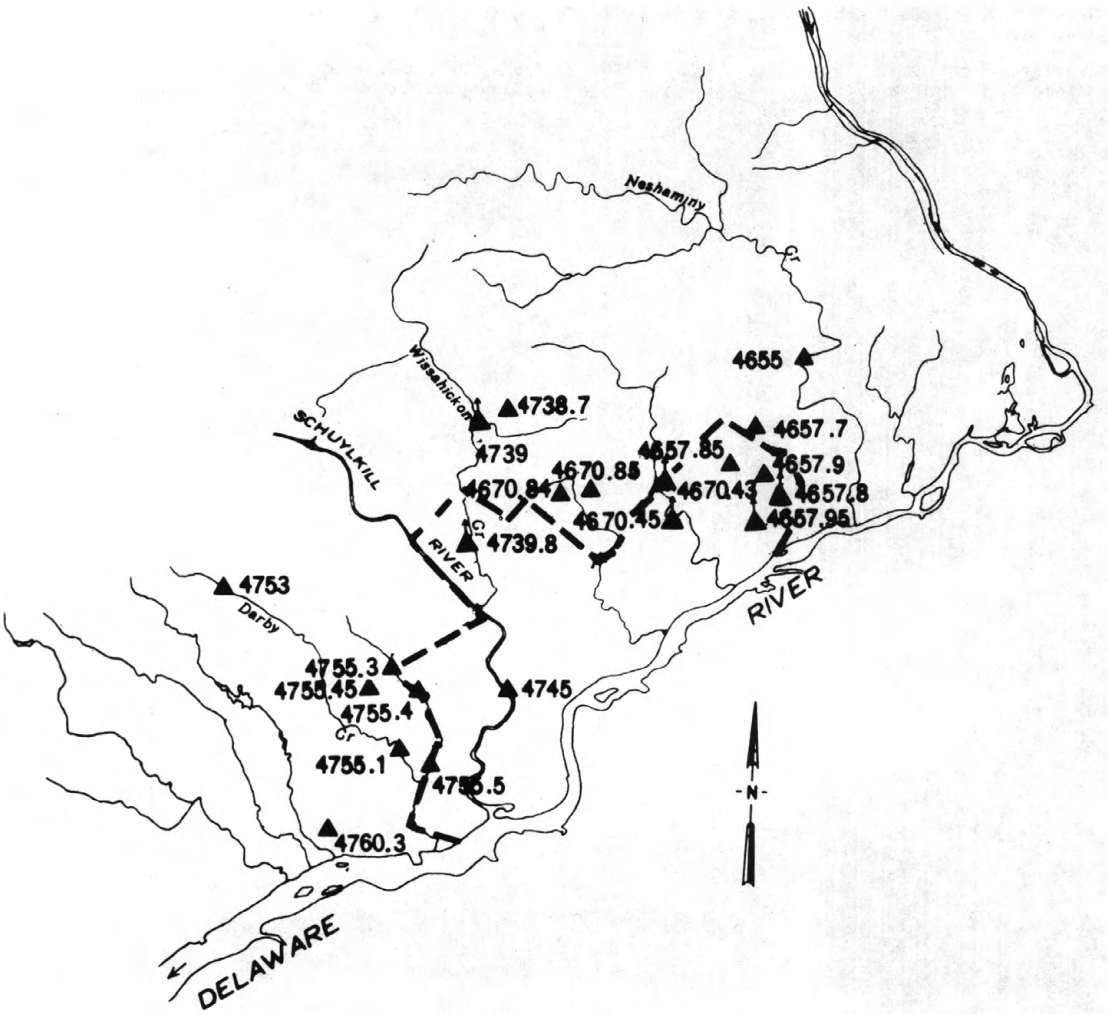

EXPLANATION

▲ Continuous-record station
▲ Crest-stage station

Figure 3.--Map showing location of Philadelphia area gaging stations.

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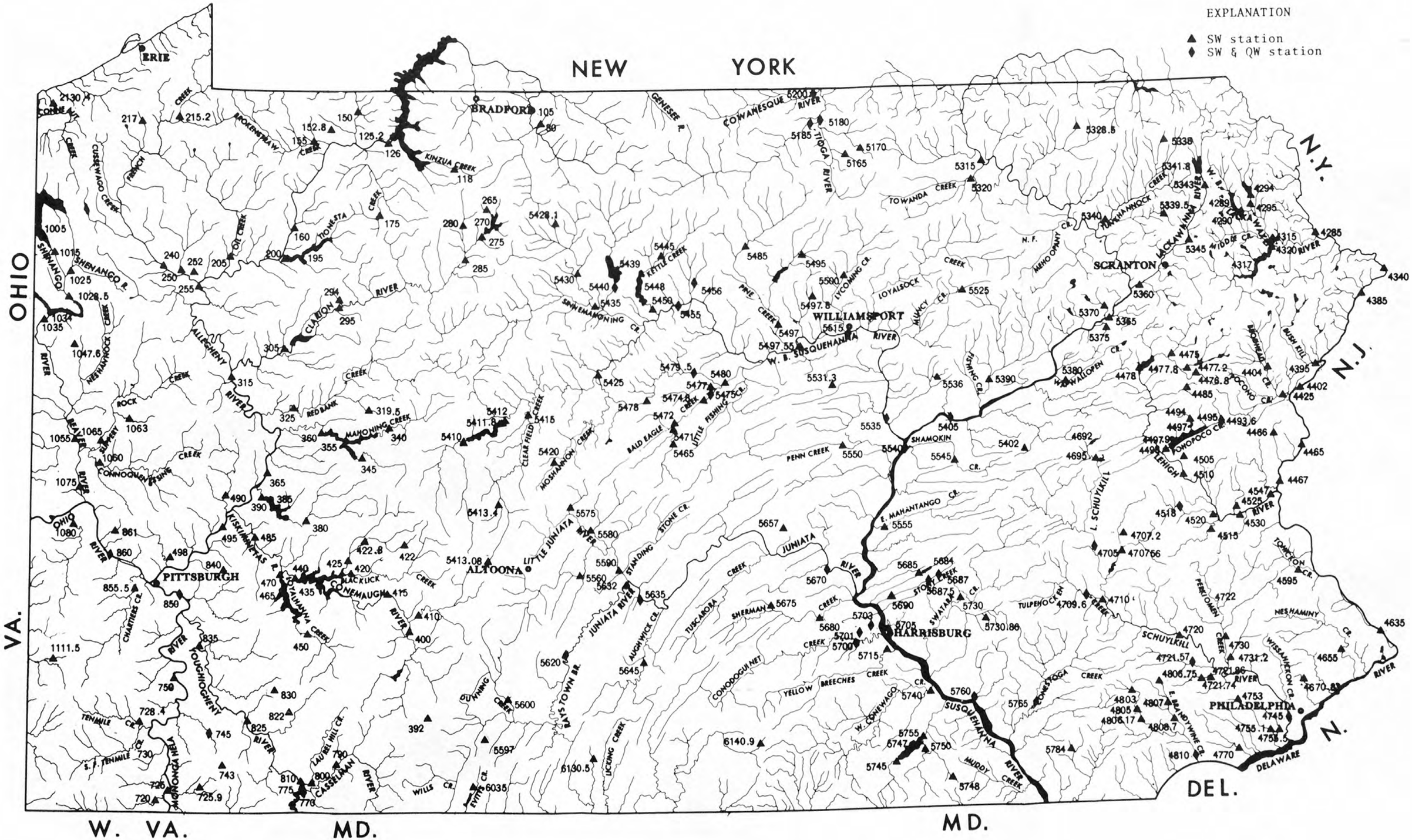

Figure 4.--Map showing location of gaging stations.

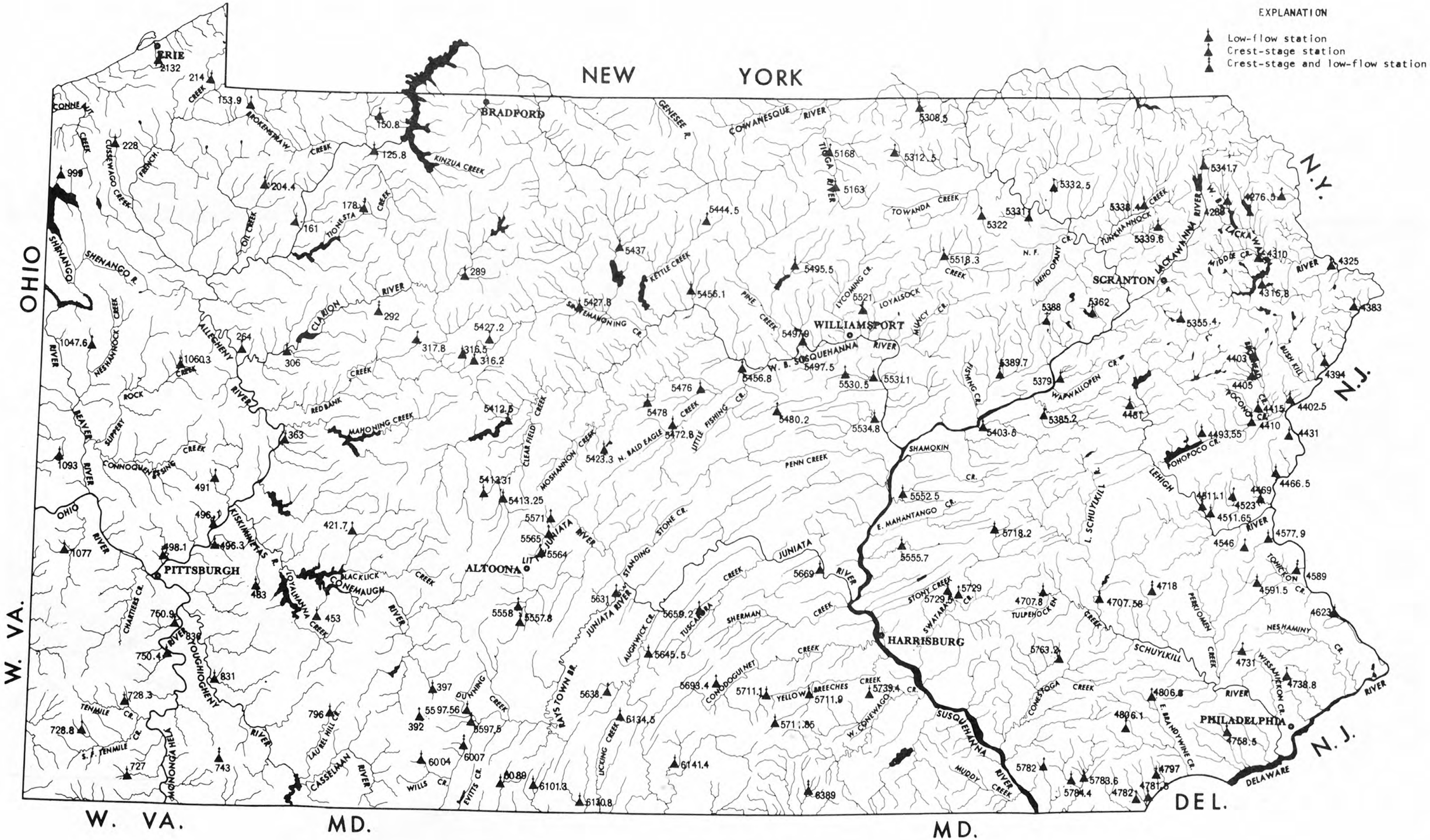

Figure 5.--Map showing location of partial-record stations.

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