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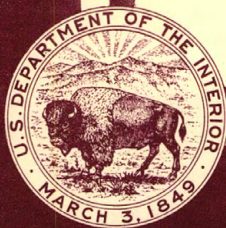
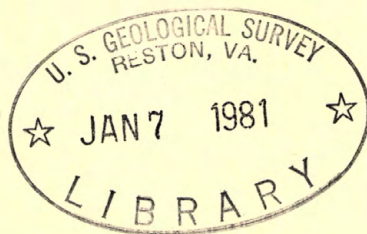
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West Virginia
1973

Water Resources Data for West Virginia

Part 1. Surface Water Records

Part 2. Water Quality Records

Part 3. Ground Water Records



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

Prepared in cooperation with the State of West Virginia
and with other agencies

CALENDAR FOR WATER YEAR 1973

1972

OCTOBER

S	M	T	W	T	F	S
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JUNE

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Prepared in cooperation with

West Virginia Department of Natural Resources,
Division of Water Resources

West Virginia State Department of Highways

West Virginia Geologic and Economic Survey

Clarksburg Water Board

Corps of Engineers, U.S. Army

Morgantown Water Commission

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
3303 Federal Building
Charleston, West Virginia 25301

1974

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- Part 1. Surface-Water Records
- Part 2. Water-Quality Records
- Part 3. Ground-Water Records

INTRODUCTION

Water resources data for the 1973 water year for West Virginia including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, records of water-quality data on the chemical and physical characteristics of surface water, and records of ground-water levels at index wells are given in this report. In Part 1, records are included for 126 gaging stations of which 119 are streamflow discharge stations, 1 is stage only streamflow station, and 6 are reservoir or lake stations; also included are records for 2 low-flow partial-record stations, 39 crest-stage partial-record stations and 7 miscellaneous sites. Locations of gaging stations are shown in Figure 1, and location of partial-record stations are shown in Figure 2. In Part 2, data on the quality of surface water (chemical, temperature, and sediment) were collected from designated sampling sites at predetermined intervals, such as once daily, weekly, monthly, or less frequently, and at some sites data were recorded on punched paper tape at 15-, 30-, or 60-minute intervals. Records are given for 28 sampling stations of which 18 are continuous record stations, and 10 are partial-record stations. Locations of water-quality stations are shown in Figure 1. A few pertinent stations (not included above) in bordering States are also included in this report. In Part 3, records are included for 46 observation wells of which 8 are equipped with water-level recorders that give a continuous graph of the fluctuations, 3 are equipped with digital recorders that punch the water level on a tape at hourly intervals, at 35 manual reading are made with a steel tape by observers on the days indicated. Locations of index wells are shown in Figure 2. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of Edwin E. Harris, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in West Virginia.

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 headings "Publications" on page 21. Records of ground water levels are published in a series of water supply papers entitled, "Ground-water Levels in the United States". Through 1955 these were in an annual series but are now in a 5-year series. More information is given under the heading "Publications" on page 22.

COOPERATION

The U.S. Geological Survey and organizations of the State of West Virginia have had cooperative agreements for the systematic collection of streamflow records since 1895. Periodic measurement of water levels in selected wells in West Virginia began in 1941. Organizations that assisted in collecting data through cooperative agreements with the survey are:

West Virginia Department of Natural Resources,
Ira S. Latimer, Jr., Director, through Division
of Water Resources, E. N. Henry, Chief.

West Virginia State Department of Highways,
William S. Ritchie, Jr., Commissioner.

West Virginia Geological and Economic Survey,
Dr. Robert B. Erwin, Director.

Clarksburg Water Board, G. S. Pritchard, Secretary
and General Manager.

Morgantown Water Commission, T. E. Urquhart, Manager.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 80 gaging stations.

Assistance was also furnished by the National Weather Service of the U.S. Department of Commerce.

The following organizations aided in collecting records:

Appalachian Power Company and Monongahela Power Company.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined as follows:

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.

Bed material is the shifting portion of fragmented material of which the streambed is composed.

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, and represents a runoff of approximately 0.0372 inch from 1 square mile.

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

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

Cubic 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 (ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, 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. The elevation of the water surface above mean sea level may be determined by adding the gage height to the datum of the 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.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

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

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

Micrograms per liter ($\mu\text{g/l}$, UG/L) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (mg/l , MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to millequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 6. Concentration of suspended sediment also is expressed in mg/l , and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentration may be converted to parts per million by using the factors in table 2, page 6.

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.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter.

<u>Ion</u>	<u>Multi- ply by</u>	<u>Ion</u>	<u>Multi- ply by</u>
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1} ...	.05544	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*.....	.03406
Chloride (Cl^{-1}).....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*..	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3})..	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*.....	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*
(All values calculated to three significant figures)

<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>	<u>Range of concentration in 1000 mg/l</u>	<u>Di- vide by</u>
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

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

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

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subject to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

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

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

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

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

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

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

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

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

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

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

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperatures of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

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

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

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

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

WRD is used as an abbreviation for "Water-Resources Data" in the 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.

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 lists of gaging stations and water-quality 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, partial-record station, and water-quality 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. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. 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 03183500, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "183500." 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, New York to York River) and Part 3 (Ohio 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.

WELL NUMBER

The well-numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The first 6 digits denote the degrees, minutes, and seconds of latitude followed by a letter denoting north or south. Seven digits following the letter denote degrees, minutes, and seconds of longitude. The last digit is a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well.

The local well-number is a unique number based on the West Virginia county magisterial system. This number is being replaced as a means of well identification by the latitude and longitude number. However, the local number is retained in this report for the sake of brevity and convenience in cross referencing between this report and earlier reports in which the local number is the sole means of well identification.

SURFACE-WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from 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 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 on the measurements of stream discharge. (See selected references). Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curve 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 distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

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

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. 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 recorder 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. 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 station 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) correspond to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at gaging stations, 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 spillways, 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" gives 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 discharge for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-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.

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; "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 adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

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 West Virginia for the period October 1960 to September 1965 are in Water-Supply Papers 1903, 1907, and 1908, the period October 1965 to September 1970 are in Water-Supply Papers 2103, 2107, and 2108.

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 records 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 month-end storage of 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 West Virginia 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 station, such as discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-stations records are available in computer-usable form and many statistical analyses have been made.

WATER-QUALITY RECORDS

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment discharge in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical quality, water temperatures, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properities or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended-sediment and bed materials.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperature were reported in degrees Fahrenheit (°F). In October 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per liter (mg/l) and water temperatures in degrees Celsius (centigrade, °C). In water with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/m., values in parts per million should be multiplied by the density to convert to milligrams per liter. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using the table on page

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (see "Definition of Terms," P. 5 and table for converting English Units to SI Units, P.25).

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

The daily chemical-quality data in this report generally represent equal-volume composites for 2- to 30- day periods; the composite periods are selected on the basis of specific conductance of the daily samples and fluctuation of water discharge.

At chemical quality stations where monitors are installed, the records consist of daily maximum, minimum, and mean values for each constituent measured. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Table 3.--Degress Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the sub-divided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume

that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples are collected, daily discharge of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment discharge for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

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

Publications

The annual series of water-supply papers that contain information on quality of surface waters in West Virginia are listed below.

<u>Water year</u>	<u>WSP No.</u>	<u>Water year</u>	<u>WSP No.</u>
1941	942	1955	1400
1942	950	1956	1450
1943	970	1957	1520
1944	1022	1958	1571
1945	1030	1959	1641, 1642
1946	1050	1960	1741, 1742
1947	1102	1961	1881, 1882
1948	1132	1962	1941, 1942
1949	1162	1963	1947, 1948
1950	1186	1964	1954, 1955
1951	1197	1965	1961, 1962
1952	1250	1966	1991, 1992
1953	1290	1967	2011, 2012
1954	1350	1968	2092, 2093

GROUND-WATER RECORDS

Collection and reporting of data

Water-level measurements in this report are given in feet (ft) and meters (m) with reference to land surface datum (lsd). Unless otherwise indicated, all water levels are below land surface. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The heights of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and at the end of each month (eom).

Publications

The numbers of water supply papers containing records of water levels in West Virginia are listed below:

<u>Calendar year</u>	<u>WSP No.</u>	<u>Calendar year</u>	<u>WSP No.</u>
1941	937	1950	1166
1942	945	1951	1192
1943	987	1952	1222
1944	1017	1953	1266
1945	1024	1954	1322
1946	1072	1955	1405
1947	1097	1956-58	1538
1948	1127	1959-63	1803
1949	1157	1964-68	1978

HYDROLOGIC CONDITIONS

Streamflow averaged well above median for the year throughout the state. Runoff was slightly above to well above median most months except March and September when runoff was slightly below median.

Ground-water levels in the State were generally average or above throughout the year. The December water level at the State index well, in Gilmer County near the center of the State, was equal to the maximum monthly high for period of record.

SELECTED REFERENCES

- American Public Health Association, and others 1971, Standard methods for the examination of water and wastewater, 13th ed.: Am. Public Health Assoc., New York, 874 p.
- Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.
- 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.
- Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U. S. Geol. Survey Bull. 1181-A, 47 p.
- Colby, B. R. and Hembree, C. H., 1955, Computations of total sediment discharge, Niobrara River near Cody, Nebraska: U.S. Geol. Survey Water-Supply Paper 1357, 187 p.
- Colby, B. R. and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 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.
- Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.
- _____, 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 58 p.
- Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

- Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water - Revised edition; U.S. Geol. Survey Water-Supply Paper 1473, 363 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.
- Porterfield, George, 1972, Computations of fluvial sediment discharges: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C3, 66 p.
- Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap C3, 33 p.
- Stallman, R. W., 1968, Aquifer test, design, observation, and data analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. B1, 35 p.
- U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation. A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.
- ____ 1941, Methods of analyzing sediment samples: Rept. 4.
- ____ 1953, Accuracy of sediment size analyses made by the bottom-withdrawal-tube method: Rept. 10.
- ____ 1957, The development and calibration of visual-accumulation tube: Rept. 11.
- ____ 1957, Some fundamentals of particle size analysis: Rept. 12.
- ____ 1959, Federal inter-agency sedimentation instruments and reports: Rept. AA.
- ____ 1961, The single stage sampler for suspended sediment: Rept. 13.
- ____ 1963, Determinations of fluvial sediment discharge: Rept. 14.

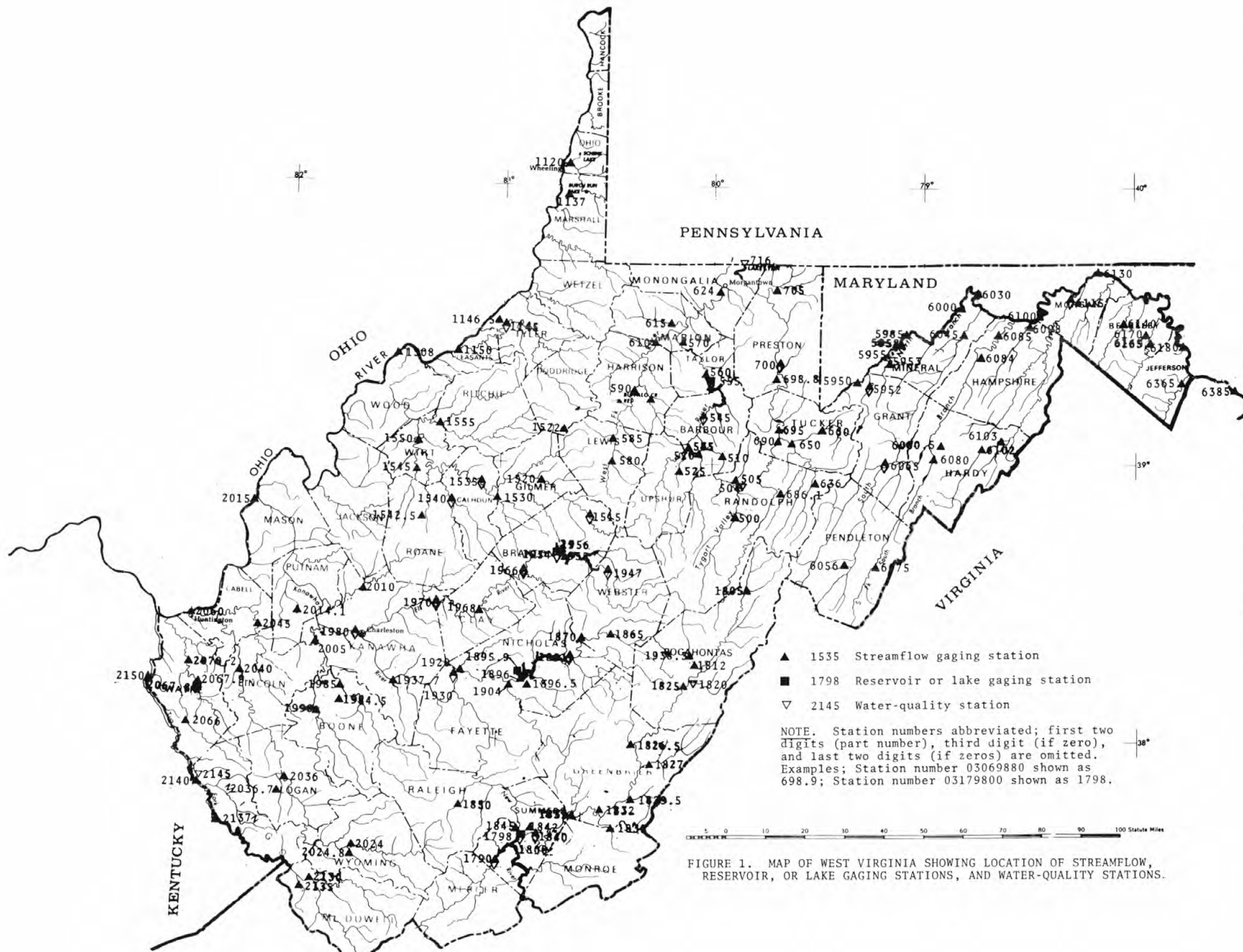
Table 4.--Factors for converting English Units to International System (SI) units

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	millimetres (mm)
feet (ft)	.0254	metres (m)
yards (yd)	.3048	metres (m)
rods	.9144	metres (m)
miles (mi)	5.0292	metres (m)
	1.609	kilometres (km)
Area		
acres	4047	square metres (m ²)
	.4047	*hectares (ha)
	.4047	square hectometre (hm ²)
	.004047	square kilometres (km ²)
square miles (mi ²)	2.590	square kilometres (km ²)
Volume		
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm ³)
million gallons (10 ⁶ gal)	3.785x10 ⁻³	cubic metres (m ³)
	3785	cubic metres (m ³)
	3.785x10 ⁻³	cubic hectometres (hm ³)
cubic feet (ft ³)	28.32	cubic decimetres (dm ³)
	.02832	cubic metres (m ³)
cfs-day (ft ³ /s-day)	2447	cubic metres (m ³)
	2.447x10 ⁻³	cubic hectometres (hm ³)
acre-feet (acre-ft)	1233	cubic metres (m ³)
	1.233x10 ⁻³	cubic hectometres (hm ³)
	1.233x10 ⁻⁶	cubic kilometres (km ³)
Flow		
cubic feet per second (ft ³ /s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm ³ /s)
	.02832	cubic metres per second (m ³ /s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm ³ /s)
	6.309x10 ⁻⁵	cubic metres per second (m ³ /s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm ³ /s)
	.04381	cubic metres 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 litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.



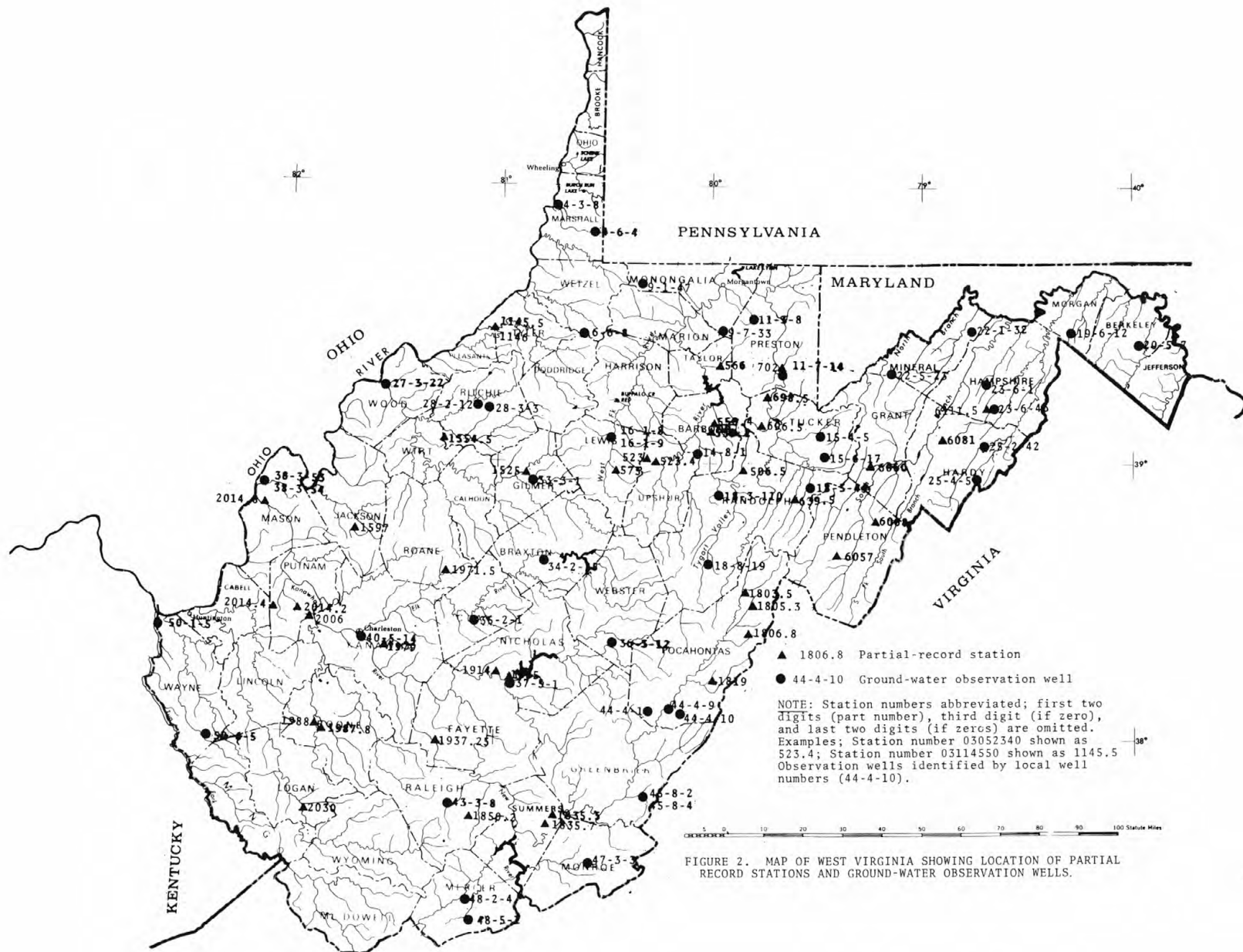


FIGURE 2. MAP OF WEST VIRGINIA SHOWING LOCATION OF PARTIAL RECORD STATIONS AND GROUND-WATER OBSERVATION WELLS.

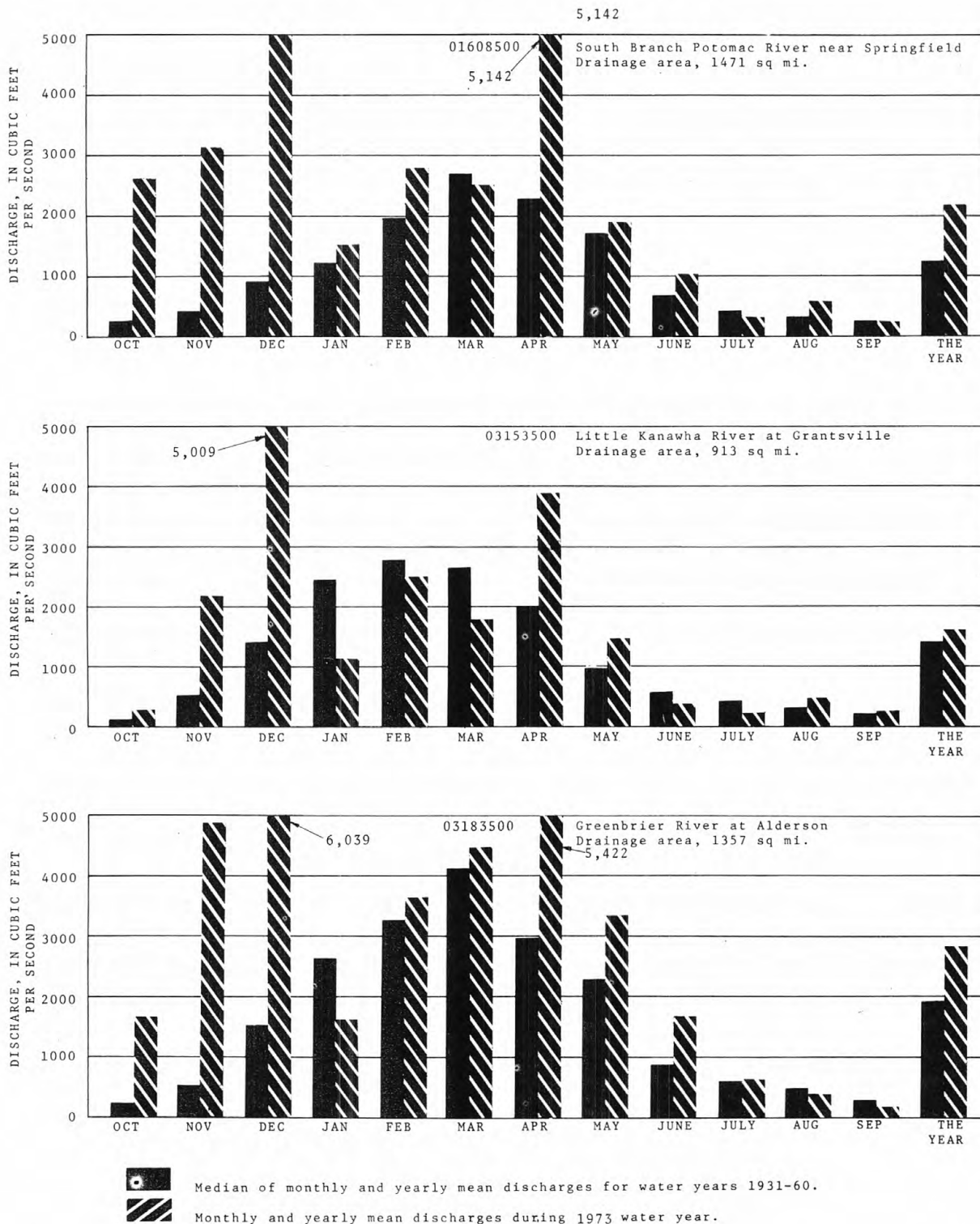


FIGURE 3.--RUNOFF DURING 1973 WATER YEAR COMPARED WITH MEDIAN RUNOFF FOR PERIOD 1931-60 FOR THREE REPRESENTATIVE GAGING STATIONS.

PART 1. SURFACE WATER RECORDS

NORTH ATLANTIC SLOPE BASINS

POTOMAC RIVER BASIN

01595000 North Branch Potomac River at Steyer, Md.

LOCATION.--Lat 39°18'07", long 79°18'26", Garrett County, on left bank 0.3 mi (0.5 km) southeast of Steyer, 0.4 mi (0.6 km) downstream from Steyer Run, 2.0 mi (3.2 km) northeast of Gorman, and at mile 81.8 (131.6 km).

DRAINAGE AREA.--73.0 mi² (189.1 km²).

PERIOD OF RECORD.--July 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,276.01 ft (693.728 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 167 ft³/s (4.729 m³/s), 31.07 in/yr (789 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,420 ft³/s (125 m³/s) Dec. 9, gage height, 7.87 ft (2.399 m); minimum, 13 ft³/s (0.37 m³/s) Sept. 12, gage height, 2.21 ft (0.674 m).
 Period of record: Maximum discharge, 6,240 ft³/s (177 m³/s) Mar. 5, 1963, gage height, 9.13 ft (2.783 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s); minimum, 2.9 ft³/s (0.082 m³/s) Sept. 10, 1965, gage height, 2.03 ft (0.619 m).
 Flood of Oct. 15, 1954, reached a stage of 13.0 ft (3.96 m), from floodmarks.

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

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	30	150	211	120	140	140	231	384	122	63	248	27
2	24	300	180	107	450	196	533	298	103	56	204	24
3	18	250	201	97	480	478	372	281	89	49	97	22
4	16	200	301	331	340	510	614	238	89	43	64	21
5	250	150	372	204	250	418	553	198	167	47	56	21
6	700	120	553	167	220	341	404	165	127	44	35	41
7	1,600	105	525	131	200	274	326	144	156	38	30	30
8	540	550	425	110	230	235	574	141	108	34	25	21
9	350	540	2,330	96	230	195	415	481	87	33	22	20
10	200	370	1,700	90	130	168	470	319	79	31	20	20
11	150	300	977	80	110	151	371	283	67	29	25	17
12	170	240	575	76	98	139	314	231	60	29	27	13
13	150	200	440	60	94	123	269	196	116	26	27	14
14	120	670	340	66	100	107	291	168	70	22	70	245
15	75	733	531	70	200	101	409	145	56	28	120	112
16	65	411	569	64	160	98	476	129	52	40	64	47
17	60	305	377	64	140	147	506	118	219	31	110	38
18	52	233	305	64	130	153	471	108	858	23	450	139
19	54	305	248	90	140	145	380	92	259	19	150	85
20	48	733	460	130	130	139	361	104	165	22	120	51
21	46	415	520	84	122	149	440	114	125	40	100	39
22	44	322	1,560	94	114	130	301	90	294	120	90	33
23	42	256	707	100	107	133	349	82	168	94	74	74
24	46	204	455	86	102	182	509	94	126	74	60	74
25	44	183	340	76	98	237	560	118	106	33	66	46
26	40	420	280	80	94	309	610	99	92	31	56	36
27	38	322	233	230	107	322	856	91	113	29	46	33
28	44	268	187	280	99	229	1,060	245	124	24	40	31
29	52	248	157	230	-----	190	791	246	89	28	35	32
30	60	218	142	170	-----	205	521	177	73	26	32	150
31	50	-----	139	150	-----	184	-----	145	-----	21	29	-----
TOTAL	5,178	9,721	16,340	3,797	4,815	6,528	14,337	5,724	4,359	1,227	2,592	1,556
MEAN	167	324	527	122	172	211	478	185	145	39.6	83.6	51.9
MAX	1,600	733	2,330	331	480	510	1,060	481	858	120	450	245
MIN	16	105	139	60	94	98	231	82	52	19	20	13
CFSM	2.29	4.44	7.22	1.67	2.36	2.89	6.55	2.53	1.99	.54	1.15	.71
IN.	2.64	4.95	8.33	1.93	2.45	3.33	7.31	2.92	2.22	.63	1.32	.79

CAL YR 1972 TOTAL 93,126.6 MEAN 254 MAX 2,330 MIN 9.0 CFSM 3.48 IN 47.46

WTR YR 1973 TOTAL 76,174.0 MEAN 209 MAX 2,330 MIN 13 CFSM 2.86 IN 38.82

PEAK DISCHARGE (BASE, 2,200 CFS)--Dec.9 (0130) 4,420 cfs (7.87 ft).

NOTE.--No gage-height record Oct. 1 to Nov. 13, and Aug. 1 to Sept. 6.

01595200 Stony River near Mt. Storm, W. Va.

LOCATION---Lat 39°16'10", long 79°15'45", Grant County, on left bank 100 ft (30 m) downstream from highway bridge on U.S. Highway 50, 1.0 mi (1.6 km) west of Mt. Storm, and at mile 6.4 (10.3 km).

DRAINAGE AREA--48.8 mi² (126.4 km²).

PERIOD OF RECORD--October 1961 to current year.

GAGE---Water-stage recorder. Datum of gage is 2,554.54 ft (778.624 m) above mean sea level.

AVERAGE DISCHARGE--12 years, 94.2 ft³/s (2.668 m³/s), 26.21 in/yr (666 mm/yr), unadjusted.

EXTREMES---Current year: Maximum discharge, 1,470 ft³/s (41.6 m³/s) Oct. 8, gage height, 6.26 ft (1.908 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s); minimum, 7.5 ft³/s (0.21 m³/s) July 19, 20; minimum gage height, 2.79 ft (0.850 m) July 13, 14; minimum daily discharge, 8.1 ft³/s (0.23 m³/s) July 19. Period of record: Maximum discharge, 3,120 ft³/s (88.4 m³/s) Mar. 19, 1963, from rating curve extended above 1,000 ft³/s (28.3 m³/s); maximum gage height, 8.41 ft (2.563 m) Mar. 5, 1963, ice jam; minimum discharge, 1.8 ft³/s (0.051 m³/s) July 13, 1968, gage height, 1.98 ft (0.604 m).

REMARKS---Records fair. Flow regulated by Stony River Reservoir, 14.0 mi (22.5 km) upstream from station, capacity, 1,948,000,000 gal (7.373 hm³), of which 1,681,000,000 gal (6.363 hm³) is controlled above minimum pool. Since 1963, minor regulation by Virginia Electric and Power Company dam 4.0 mi (6.4 km) upstream from station. Records of water temperatures for the current year are published in Part 2 of this report.

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	60	95	122	130	66	63	108	349	102	40	56	19
2	56	97	115	154	190	74	203	304	97	36	43	17
3	54	73	122	146	157	149	150	283	93	32	24	17
4	54	64	151	229	125	164	202	260	91	27	19	16
5	252	59	177	176	118	185	238	235	149	26	17	18
6	441	56	232	151	120	193	220	207	146	24	16	20
7	528	56	219	133	120	441	203	185	164	22	14	16
8	739	214	551	122	135	421	534	179	135	20	12	18
9	488	149	744	111	130	232	412	200	125	19	11	13
10	130	113	755	96	118	89	400	115	115	18	11	13
11	197	108	587	80	106	95	344	113	106	18	14	13
12	243	104	475	66	100	97	305	104	214	17	13	13
13	206	102	404	58	95	93	275	97	179	16	13	13
14	108	277	343	51	100	93	267	91	120	16	20	48
15	47	291	313	45	127	91	283	85	102	16	29	29
16	50	229	276	44	113	91	276	78	91	12	22	20
17	55	209	239	44	97	120	256	70	111	14	29	18
18	50	193	216	44	84	151	242	63	321	9.2	84	26
19	51	219	197	55	76	226	224	58	158	8.1	48	21
20	48	449	268	56	69	193	194	60	135	12	47	19
21	47	409	302	51	63	174	132	54	122	18	44	18
22	44	347	744	50	59	154	125	47	125	20	36	18
23	42	295	546	50	56	130	149	44	106	33	31	27
24	42	253	392	47	54	64	188	46	89	19	28	24
25	41	165	113	47	53	79	238	54	74	15	30	21
26	41	165	118	44	56	85	272	52	65	16	26	21
27	39	138	122	125	56	83	555	50	60	15	25	19
28	45	135	122	113	56	73	631	130	61	12	24	19
29	48	133	122	95	-----	70	500	120	54	15	21	23
30	48	127	127	80	-----	73	407	106	47	12	20	35
31	47	-----	130	72	-----	73	-----	106	-----	15	19	-----
TOTAL	4,341	5,324	9,344	2,765	2,699	4,319	8,533	3,945	3,557	592.3	846	612
MEAN	140	177	301	89.2	96.4	139	284	127	119	19.1	27.3	20.4
MAX	739	449	755	229	190	441	631	349	321	40	84	48
MIN	39	56	113	44	53	63	108	44	47	8.1	11	13
(f)	1,152	1,184	1,170	1,159	1,170	1,202	1,375	1,285	1,297	1,383	1,466	1,443

CAL YR 1972 TOTAL 55,649.0 MEAN 152 MAX 2,020 MIN 24 CFSM 3.11 IN 42.41

WTR YR 1973 TOTAL 46,877.3 MEAN 128 MAX 755 MIN 8.1 CFSM 2.62 IN 35.72

† Month-end contents, in millions of gallons, in Stony River Reservoir, furnished by West Virginia Pulp and Paper Co.

01595300 Abram Creek at Oakmont, W. Va.

LOCATION.--Lat 39°22'00", long 79°10'45", Mineral County, on downstream side of right wingwall of highway bridge, 0.5 mi (0.8 km) east of Oakmont, 1.2 mi (1.9 km) downstream from Emory Run, 1.8 mi (2.9 km) southwest of Elk Garden, and at mile 1.9 (3.1 km).

DRAINAGE AREA.--47.3 mi² (122.5 km²).

PERIOD OF RECORD.--August 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,840 ft (560.8 m), from topographic map.

AVERAGE DISCHARGE.--17 years, 65.4 ft³/s (1.852 m³/s), 18.78 in/yr (477 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,570 ft³/s (44.5 m³/s) Dec. 8, gage height, 7.00 ft (2.134 m), from rating curve extended as explained below; minimum, 6.6 ft³/s (0.19 m³/s) Sept. 13, 14, gage height, 2.26 ft (0.689 m).

Period of record: Maximum discharge, 2,120 ft³/s (60.0 m³/s) Mar. 5, 1963, gage height, 7.78 ft (2.371 m), from rating curve extended above 1,200 ft³/s (34.0 m³/s) on basis of contracted-opening measurement at gage height 9.82 ft (2.993 m); minimum, 0.2 ft³/s (0.006 m³/s) Sept. 13-19, 1959, Sept. 14-18, 1964; minimum gage height, 1.48 ft (0.451 m) Sept. 16, 1959.

Flood of Aug. 18, 1955, reached a stage of 9.82 ft (2.993 m), from floodmarks, discharge, 3,830 ft³/s (108 m³/s), from rating curve extended as explained above.

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

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	13	60	94	62	60	73	166	168	72	27	87	11
2	9.7	130	80	66	232	87	272	140	60	24	64	10
3	8.2	110	89	61	193	193	178	135	53	23	27	9.3
4	7.4	86	130	158	128	225	261	119	47	20	20	9.0
5	182	64	160	109	110	218	228	100	95	23	15	9.3
6	532	51	220	83	101	224	184	84	119	19	13	18
7	559	47	193	63	96	195	187	72	168	17	12	11
8	180	240	520	55	120	172	402	72	85	15	11	8.8
9	111	182	708	51	113	147	231	149	66	14	9.8	8.0
10	81	134	534	47	85	127	179	100	54	13	9.5	8.3
11	68	116	323	43	70	113	170	87	44	13	11	7.8
12	61	98	231	40	61	104	150	77	70	12	11	7.1
13	57	87	186	35	65	93	130	68	137	11	9.6	6.8
14	49	288	150	32	66	84	140	60	68	9.9	48	97
15	42	253	252	35	81	77	180	55	49	13	54	44
16	38	162	270	32	83	83	220	49	43	15	25	20
17	35	134	160	31	55	132	240	46	78	15	20	15
18	30	113	130	31	70	127	220	43	374	12	87	34
19	33	146	110	41	62	113	180	39	134	10	34	24
20	29	310	190	56	58	114	180	44	97	13	37	17
21	26	230	230	46	54	124	210	42	77	18	37	15
22	23	150	560	44	50	107	140	34	70	36	33	14
23	22	110	430	47	46	106	180	33	58	39	26	20
24	23	95	220	39	45	125	210	42	46	26	24	20
25	24	83	160	34	44	140	228	61	38	16	33	15
26	22	180	130	34	54	137	277	54	36	19	24	14
27	20	150	110	155	60	122	609	53	42	17	20	12
28	22	120	84	120	58	102	500	174	83	13	17	11
29	25	110	71	93	-----	95	315	137	46	12	15	14
30	28	100	64	66	-----	100	218	97	33	11	14	34
31	23	-----	61	63	-----	98	-----	92	-----	10	12	-----
TOTAL	2,383.3	4,139	6,850	1,872	2,320	3,957	6,985	2,526	2,442	535.9	859.9	544.4
MEAN	76.9	138	221	60.4	82.9	128	233	81.5	81.4	17.3	27.7	18.1
MAX	559	310	708	158	232	225	609	174	374	39	87	97
MIN	7.4	47	61	31	44	73	130	33	33	9.9	9.5	6.8
CFSM	1.63	2.92	4.67	1.28	1.75	2.71	4.93	1.72	1.72	.37	.59	.38
IN.	1.87	3.26	5.39	1.47	1.82	3.11	5.49	1.99	1.92	.42	.68	.43
CAL YR 1972	TOTAL 39,431.7	MEAN 108	MAX 900	MIN 6.1	CFSM 2.28	IN 31.01						
WTR YR 1973	TOTAL 35,414.5	MEAN 97.0	MAX 708	MIN 6.8	CFSM 2.05	IN 27.85						

PEAK DISCHARGE (BASE, 700 CFS)

NOTE.--No gage-height record Dec. 16 to Jan. 2.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 7	0030	6.39	1,170	4-27	1700	6.26	1,100
12- 8	2130	7.00	1,570	6-18	0400	5.72	805
12-22	unknown	-	unknown				

01595500 North Branch Potomac River at Kitzmiller, Md.

LOCATION.--Lat 39°23'38", long 79°10'55", Garrett County, on left bank 0.6 mi (1.0 km) downstream from bridge on State Highway 38 in Kitzmiller, 1.5 mi (2.4 km) downstream from Wolfden Run, and at mile 68.9 (110.9 km).

DRAINAGE AREA.--225 mi² (583 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,572.26 ft (479.225 m) above mean sea level. Prior to Oct. 15, 1954, at site 0.3 mi (0.5 km) upstream at datum 7.58 ft (2.310 m) higher. Oct. 15, 1954, to Nov. 20, 1955, nonrecording gage at bridge 0.5 mi (0.8 km) upstream at datum 21.51 ft (6.556 m) higher.

AVERAGE DISCHARGE.--24 years 440 ft³/s (12.46 m³/s), 26.56 in/yr (675 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 14,800 ft³/s (419 m³/s) Dec. 8, gage height, 9.06 ft (2.761 m); minimum, 27 ft³/s (0.76 m³/s) Sept. 13, gage height, 2.42 ft (0.738 m).
Period of record: Maximum discharge, 33,400 ft³/s (946 m³/s) Oct. 15, 1954, gage height, 13.73 ft (4.185 m), from floodmarks, present site and datum; minimum, 4.6 ft³/s (0.13 m³/s) Oct. 3-7, 1953.

REMARKS.--Records good except those for winter months, which are fair. Regulation at low flow by Stony River Reservoir, 30 mi (48.3 km) upstream from station (see sta 01595200).

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	91	460	626	516	396	371	719	1,310	420	158	480	70
2	70	745	572	495	1,270	510	1,400	1,080	363	140	451	62
3	58	549	632	445	1,280	1,130	1,020	992	325	124	195	58
4	49	525	873	1,020	873	1,380	1,450	896	300	108	128	54
5	668	358	1,120	720	752	1,240	1,480	758	500	110	98	54
6	2,130	307	1,370	580	700	1,190	1,170	642	442	98	80	89
7	3,320	277	1,430	470	656	1,220	960	565	626	84	70	68
8	1,560	1,570	3,510	420	758	1,170	2,120	532	411	76	58	51
9	1,070	1,540	7,060	380	758	920	1,550	1,060	344	68	54	48
10	598	1,040	4,520	360	596	626	1,610	765	304	64	50	48
11	449	831	2,880	330	500	572	1,340	670	264	65	59	44
12	495	693	2,020	311	435	532	1,160	585	318	59	64	38
13	457	596	1,590	233	425	475	992	510	626	53	64	36
14	354	1,570	1,290	220	430	430	968	446	325	48	170	399
15	211	1,830	1,050	240	550	405	1,160	399	248	64	297	325
16	187	1,170	1,200	233	500	384	1,260	359	219	94	160	128
17	178	936	1,000	220	400	544	1,140	322	415	72	258	87
18	158	784	900	230	350	596	1,090	304	1,700	57	1,000	236
19	161	824	800	263	392	650	936	264	694	47	374	195
20	154	2,090	1,290	366	354	608	808	274	495	51	284	118
21	142	1,470	1,500	227	338	632	984	293	394	100	261	91
22	137	1,170	4,520	260	311	560	724	236	521	248	225	78
23	134	968	2,480	270	299	522	765	216	411	208	185	124
24	143	810	1,750	227	277	554	1,210	242	311	156	158	172
25	135	700	1,130	202	256	680	1,310	322	261	86	170	106
26	125	1,060	952	208	274	745	1,740	284	228	77	143	86
27	117	928	838	638	322	778	2,600	270	255	76	122	74
28	135	784	726	771	284	602	3,000	718	359	62	106	70
29	158	752	638	650	-----	522	2,260	779	242	72	94	71
30	182	662	590	465	-----	538	1,630	565	190	70	84	318
31	153	-----	572	415	-----	505	-----	495	-----	57	77	-----
TOTAL	13,979	27,999	51,429	12,385	14,736	21,591	40,556	17,153	12,511	2,852	6,019	3,398
MEAN	451	933	1,659	400	526	696	1,352	553	417	92.0	194	113
MAX	3,320	2,090	7,060	1,020	1,280	1,380	3,000	1,310	1,700	248	1,000	399
MIN	49	277	572	202	256	371	719	216	190	47	50	36
CAL YR 1972	TOTAL 264,190	MEAN 722	MAX 7,060	MIN 49	CFSM 3.21	IN 43.67						
WTR YR 1973	TOTAL 224,608	MEAN 615	MAX 7,060	MIN 36	CFSM 2.73	IN 37.13						

PEAK DISCHARGE (BASE, 3,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	0215	7.57	6,380	4-27	1915	7.26	4,590
12-8	2315	9.06	14,800	6-18	0515	6.79	3,420
12-22	0615	7.48	5,890				

01595800 North Branch Potomac River at Barnum, W. Va.

LOCATION.--Lat 39°26'44" long 79°06'39", Garrett County, Md., on left bank at bridge at Barnum, 0.4 mi (0.6 km) upstream from Folly Run, and 4.0 mi (6.4 km) southwest of Piedmont.

DRAINAGE AREA.--266 mi² (689 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,151.93 ft (351.108 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 526 ft³/s (14.90 m³/s), 26.85 in/yr (682 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,800 ft³/s (362 m³/s) Dec. 8, gage height, 9.86 ft (3.005 m); minimum, 40 ft³/s (1.13 m³/s) Sept. 14, gage height, 2.10 ft (0.640 m).
Period of record: Maximum discharge, 12,800 ft³/s (362 m³/s) Dec. 8, 1972, gage height, 9.86 ft (3.005 m); minimum, 10 ft³/s (0.28 m³/s) Oct. 2, 3, 1968, gage height, 1.69 ft (0.515 m).

REMARKS.--Records good. Regulation at low flow by Stony River Reservoir, 39 mi (63 km) upstream from station (see sta 01595200).

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	105	438	738	526	444	360	752	1,530	532	185	474	74
2	81	895	674	500	1,330	532	1,480	1,270	450	160	601	69
3	66	657	737	444	1,510	1,170	1,110	1,160	392	144	226	64
4	59	500	1,010	1,050	1,000	1,550	1,570	1,050	414	126	144	61
5	723	414	1,340	829	850	1,370	1,670	895	636	122	110	61
6	2,580	350	1,570	671	775	1,340	1,290	752	552	119	92	79
7	3,810	310	1,700	526	722	1,310	1,070	664	858	105	81	81
8	1,680	1,890	2,370	468	812	1,260	2,470	636	545	92	72	61
9	1,140	1,760	7,270	398	858	1,010	1,900	1,260	438	88	64	53
10	657	1,200	4,760	392	664	678	1,940	944	376	83	62	52
11	456	966	3,040	350	552	615	1,600	812	325	83	64	52
12	526	805	2,070	335	474	573	1,380	692	320	79	61	47
13	486	688	1,640	254	462	512	1,180	615	880	70	70	42
14	392	1,730	1,300	266	474	456	1,120	512	414	66	112	398
15	223	2,150	1,200	274	664	426	1,320	462	306	66	365	474
16	198	1,320	1,400	254	580	404	1,460	409	266	108	188	150
17	191	1,080	1,200	246	444	566	1,300	360	480	90	208	97
18	172	900	1,020	250	420	671	1,290	345	1,900	77	1,220	242
19	172	878	906	266	432	692	1,090	302	883	64	456	258
20	172	2,410	1,230	398	392	657	936	302	608	61	320	139
21	158	1,700	1,510	238	365	692	1,140	335	462	99	279	110
22	155	1,330	5,250	274	330	615	865	274	566	279	246	105
23	152	1,110	2,680	288	320	559	858	238	506	221	194	139
24	160	933	1,880	250	306	594	1,460	262	360	160	160	208
25	158	801	1,190	205	274	715	1,500	370	288	130	163	144
26	147	1,180	997	223	292	760	2,200	335	246	96	141	119
27	139	1,110	874	643	350	828	3,110	320	254	92	122	101
28	147	918	749	872	310	636	3,560	865	462	80	99	92
29	182	890	652	730	-----	538	2,620	1,070	297	90	90	101
30	205	778	599	519	-----	559	1,900	745	223	86	81	330
31	175	-----	581	444	-----	519	-----	615	-----	75	77	-----
TOTAL	15,667	32,091	54,137	13,383	16,406	23,167	47,141	20,401	15,239	3,396	6,642	4,003
MEAN	505	1,070	1,746	432	586	747	1,571	658	508	110	214	133
MAX	3,810	2,410	7,270	1,050	1,510	1,550	3,560	1,530	1,900	279	1,220	474
MIN	59	310	581	205	274	360	752	238	223	61	61	42

CAL YR 1972 TOTAL 289,452 MEAN 791 MAX 7,270 MIN 52 CFSM 2.97 IN 40.37
WTR YR 1973 TOTAL 251,673 MEAN 690 MAX 7,270 MIN 42 CFSM 2.59 IN 35.21

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	0215	8.13	7,040	12-22	0700	7.86	6,340
12-8	2315	9.86	12,800	4-27	2015	7.51	5,420

01598500 North Branch Potomac River at Luke, Md.

LOCATION.--Lat 39°28'45", long 79°03'55", Mineral County, W. Va., on right bank 0.2 mi (0.3 km) downstream from Savage River, 0.5 mi (0.8 km) northwest of Luke, and at mile 53.3 (85.8 km).

DRAINAGE AREA.--404 mi² (1,046 km²).

PERIOD OF RECORD.--June 1899 to July 1906 (published as "at Piedmont, W. Va."), October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 946.25 ft (288.417 m) above mean sea level, adjustment of 1912. June 27, 1899, to July 15, 1906, nonrecording gage at bridge 1.1 mi (1.8 km) downstream at datum about 35 feet (11 m) lower.

AVERAGE DISCHARGE.--30 years (1899-1905, 1949-1973), 695 ft³/s (19.68 m³/s), 23.36 in/yr (593 mm/yr), adjusted for storage since 1949.

EXTREMES.--Current year: Maximum discharge, 12,500 ft³/s (354 m³/s) Dec. 8, gage height, 10.47 ft (3.191 m); minimum, 77 ft³/s (2.18 m³/s) Sept. 3, gage height, 1.09 ft (0.332 m).

Period of record: Maximum discharge, 39,400 ft³/s (1,120 m³/s) Oct. 15, 1954, gage height, 17.15 ft (5.227 m); minimum daily, 6 ft³/s (0.17 m³/s) Sept. 4, 1904.

REMARKS.--Records good. Flow regulated since 1913 by Stony River Reservoir, 45 mi (72.4 km) upstream from station (see sta 01595200), and since December 1950, by Savage River Reservoir, 5 mi (8.0 km) upstream from station. Some regulation at low flow by West Virginia Pulp and Paper Company at site used 1899-1906.

REVISIONS (WATER YEARS).--WSP 192: 1899-1904. WSP 1432: 1905-6, drainage area at former site.

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	174	461	997	858	835	488	795	2,120	729	272	459	370
2	149	930	932	810	1,830	618	1,560	1,640	624	231	621	368
3	134	703	974	658	2,450	1,210	1,210	1,450	549	203	286	84
4	136	574	1,110	1,140	1,860	1,720	1,740	1,300	534	179	188	142
5	608	493	1,580	976	1,650	1,820	2,290	1,100	721	175	147	164
6	2,560	434	1,930	790	1,410	2,180	2,080	934	643	162	136	160
7	3,960	398	2,910	644	1,040	2,340	1,810	808	934	141	134	148
8	1,700	1,920	3,830	591	1,130	2,400	3,350	764	621	127	137	115
9	1,260	2,100	8,190	520	1,180	1,850	2,970	1,540	507	120	141	118
10	1,030	1,760	6,400	520	913	1,290	3,080	1,470	438	121	154	131
11	1,040	1,490	5,690	600	664	1,210	2,520	1,230	379	129	176	145
12	980	1,320	4,790	560	592	1,030	1,820	1,040	383	124	184	140
13	585	1,190	3,700	410	600	854	1,350	898	906	120	163	134
14	510	2,150	1,980	380	600	696	1,260	762	499	123	166	387
15	344	2,760	1,760	420	782	581	1,510	676	367	124	478	575
16	308	1,890	1,960	390	717	561	1,600	603	328	161	285	228
17	299	1,600	1,370	360	540	708	1,530	544	483	150	177	166
18	282	1,460	1,410	372	460	817	1,520	507	2,050	137	1,400	292
19	279	1,420	1,490	380	500	818	1,200	448	1,050	125	661	307
20	280	2,680	1,610	504	640	796	1,040	448	718	132	390	176
21	261	1,970	1,690	355	452	808	1,230	471	576	169	331	137
22	258	1,800	5,570	371	388	711	972	388	662	325	277	121
23	254	1,630	4,460	391	393	638	913	351	608	212	215	147
24	255	1,360	3,460	352	376	648	1,500	385	451	258	182	247
25	250	1,170	2,670	292	348	761	1,590	495	373	147	189	197
26	238	1,480	1,670	300	363	795	3,470	446	323	130	169	165
27	229	1,340	1,030	649	419	876	4,640	438	313	136	143	149
28	236	976	911	1,190	407	677	6,450	933	546	127	133	141
29	272	1,050	793	1,270	-----	591	4,240	1,380	448	121	130	142
30	289	1,030	846	1,040	-----	607	2,840	1,030	337	161	137	364
31	274	-----	916	979	-----	575	-----	881	-----	151	128	-----
TOTAL	19,434	41,539	78,629	19,072	23,539	31,674	64,080	27,480	18,100	4,993	8,517	6,160
MEAN	627	1,385	2,536	615	841	1,022	2,136	886	603	161	275	205
MAX	3,960	2,760	8,190	1,270	2,450	2,400	6,500	2,120	2,050	325	1,400	575
MIN	134	398	793	292	348	488	795	351	313	120	128	84
CAL YR 1972	TOTAL 408,238	MEAN 1,115	MAX 8,190	MIN 120	CFSM 2.76	IN 37.46						
WTR YR 1973	TOTAL 343,217	MEAN 940	MAX 8,190	MIN 84	CFSM 2.33	IN 31.58						

01600000 North Branch Potomac River at Pinto, Md.

LOCATION.--Lat 39°33'59", long 78°50'25", Mineral County, W. Va., on right bank at downstream side of Western Maryland Railway bridge at Pinto, 2.8 mi (4.5 km) downstream from Mill Run, and at mile 32.6 (52.4 km).

DRAINAGE AREA.--596 mi² (1,544 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 648.23 ft (197.581 m) above mean sea level, Corps of Engineers bench mark. Prior to Dec. 10, 1938, nonrecording gage at highway bridge 250 ft (76 m) downstream at same datum.

AVERAGE DISCHARGE.--35 years, 869 ft³/s (24.61 m³/s), 19.80 in/yr (503 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 16,500 ft³/s (467 m³/s) Dec. 9, gage height, 15.44 ft (4.706 m); minimum, 98 ft³/s (2.78 m³/s) Sept. 4, gage height, 1.77 ft (0.539 m).

Period of record: Maximum discharge, 37,000 ft³/s (1,050 m³/s) Oct. 16, 1954, gage height, 23.23 ft (7.081 m); minimum, 31 ft³/s (0.88 m³/s) Dec. 18, 1943, gage height, 1.37 ft (0.418 m), result of freezeup.

Flood of Mar. 29, 1924, reached a stage of about 24 ft (7.3 m), discharge, about 55,000 ft³/s (1,560 m³/s). Flood of Mar. 17, 1936, reached a stage of about 23.5 ft (7.16 m), from floodmarks, discharge, about 50,000 ft³/s (1,420 m³/s).

REMARKS.--Records good. Some regulation at low flow by Stony River Reservoir, 66 mi (106 km) upstream from station (see sta 01595200), and since December 1950, by Savage River Reservoir.

REVISIONS (WATER YEARS).--WSP 1332: 1943.

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	227	352	1,320	1,130	1,220	661	1,070	2,740	1,100	405	845	294
2	192	1,040	1,260	1,060	2,200	796	2,000	2,190	940	342	973	424
3	166	874	1,310	957	3,530	1,180	1,760	1,900	820	297	518	295
4	152	716	1,460	1,480	2,570	2,160	2,130	1,750	761	267	319	125
5	340	596	2,000	1,500	2,170	2,100	3,060	1,490	979	242	236	199
6	2,430	521	2,340	1,200	1,940	2,620	2,670	1,280	1,060	235	193	208
7	4,660	470	3,570	1,010	1,520	2,660	2,290	1,130	1,710	203	185	204
8	1,960	2,160	3,640	900	1,590	2,790	4,140	1,050	1,120	183	174	149
9	1,630	2,370	11,800	794	1,690	2,360	3,960	1,620	857	168	180	143
10	1,150	2,080	7,960	799	1,420	1,730	4,050	1,830	714	156	176	148
11	1,150	1,730	6,770	902	1,090	1,580	3,360	1,520	613	181	212	168
12	1,180	1,540	5,390	862	900	1,440	2,630	1,350	558	170	216	172
13	713	1,380	4,070	580	880	1,190	2,000	1,190	1,180	154	222	163
14	619	2,240	2,560	535	900	1,060	1,840	1,050	830	154	206	326
15	469	3,420	2,410	580	1,080	877	1,940	950	594	154	513	917
16	370	2,300	2,840	552	1,080	841	1,990	866	502	170	432	369
17	356	1,910	1,980	518	690	1,080	1,840	792	511	213	252	237
18	337	1,720	1,760	526	620	1,290	1,950	735	2,180	177	1,210	400
19	334	1,630	1,880	532	693	1,200	1,590	666	1,510	159	1,030	497
20	333	3,280	1,870	667	1,320	1,200	1,410	628	1,030	158	678	292
21	314	2,550	2,030	579	738	1,210	1,490	657	830	174	655	213
22	304	2,180	6,930	513	596	1,100	1,300	598	766	366	476	179
23	301	1,970	5,630	548	586	993	1,180	518	879	339	357	194
24	303	1,690	4,020	537	567	955	1,750	524	636	329	291	286
25	297	1,440	3,130	474	530	1,010	1,720	698	520	230	275	278
26	283	1,870	2,290	418	521	1,070	4,300	675	454	181	264	225
27	270	1,940	1,500	701	587	1,140	5,710	648	429	193	222	200
28	279	1,390	1,320	1,630	577	963	9,480	1,410	673	174	192	185
29	308	1,390	1,150	1,690	-----	836	5,590	2,090	717	151	180	178
30	322	1,360	1,110	1,400	-----	833	3,590	1,560	511	161	176	310
31	330	-----	1,190	1,280	-----	832	-----	1,350	-----	185	172	-----
TOTAL	22,079	50,109	98,490	26,854	33,805	41,757	83,790	37,455	25,984	6,671	12,030	7,978
MEAN	712	1,670	3,177	866	1,207	1,347	2,793	1,208	866	215	388	266
MAX	4,660	3,420	11,800	1,690	3,530	2,790	9,480	2,740	2,180	405	1,210	917
MIN	152	352	1,110	418	521	661	1,070	518	429	151	172	125
CAL YR 1972	TOTAL 509,429	MEAN 1,392	MAX 11,800	MIN 138	CFSM 2.34	IN 31.71						
WTR YR 1973	TOTAL 447,002	MEAN 1,225	MAX 11,800	MIN 125	CFSM 2.06	IN 27.90						

01603000 North Branch Potomac River near Cumberland, Md.

LOCATION.--Lat 39°37'16", long 78°46'24", Allegany County, on left bank at downstream side of Wiley Ford Bridge, 2.1 mi (3.4 km) downstream from Wills Creek, 2.0 mi (3.2 km) south of Cumberland, and at mile 19.6 (31.5 km).

DRAINAGE AREA.-- 875 mi² (2,266 km²).

PERIOD OF RECORD.--May 1929 to current year. Gage-height records collected at various sites about 2.0 mi (3.2 km) upstream from September 1901 to December 1932 and thereafter at present site, are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 585.22 ft (178.375 m) above mean sea level, Corps of Engineers bench mark. Prior to June 18, 1929, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 1,225 ft³/s (34.69 m³/s), 19.01 in/yr (483 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 19,400 ft³/s (549 m³/s) Dec. 9, gage height, 15.66 ft (4.773 m); minimum, 147 ft³/s (4.16 m³/s) Sept. 4, gage height, 2.24 ft (0.683 m).
 Period of record: Maximum discharge, 88,200 ft³/s (2,500 m³/s) Mar. 17, 1936, gage height, 29.1 ft (8.87 m), from rating curve extended above 33,000 ft³/s (935 m³/s) on basis of slope-area measurement of peak flow; minimum (river only), 12 ft³/s (0.34 m³/s) Sept. 22, 1932, gage height, 2.38 ft (0.725 m); minimum daily (including flow in canal), 38 ft³/s (1.08 m³/s) Sept. 24, 1932.
 Flood of June 1, 1889, reached a stage of 29.2 ft (8.90 m), discharge, about 89,000 ft³/s (2,520 m³/s). Flood of Mar. 29, 1924, reached a stage of 28.4 ft (8.66 m), discharge, about 82,000 ft³/s (2,320 m³/s).

REMARKS.--Records good. Regulation by Stony River Reservoir, about 79 mi (127 km) upstream from station (see sta 01595200), and since December 1950, by Savage River Reservoir. Prior to July 1957, small amount of inflow from industrial wastes and sewage from city of Cumberland from water diverted from Evitts Creek, mouth of which is downstream from station. Diversion to Chesapeake and Ohio Canal prior to 1935.

REVISIONS (WATER YEARS).--WSP 726: Drainage area. WSP 781: 1932(M).

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	311	402	1,960	1,580	1,870	930	1,490	4,240	1,820	579	1,190	230
2	257	932	1,850	1,450	3,960	1,100	2,970	3,390	1,500	498	1,630	490
3	229	968	1,920	1,340	6,970	1,590	3,060	2,910	1,270	448	890	490
4	205	824	2,150	1,950	4,670	3,360	3,900	2,650	1,170	408	538	170
5	402	689	3,000	2,220	3,580	3,350	5,970	2,230	1,280	378	402	242
6	2,440	616	3,950	1,710	3,100	4,100	4,590	1,890	1,390	366	325	278
7	5,450	560	5,790	1,440	2,490	4,030	3,650	1,640	2,370	318	297	266
8	2,470	2,820	5,480	1,260	2,520	4,190	6,080	1,510	1,620	284	284	225
9	1,810	3,260	14,700	1,120	2,630	3,630	7,090	2,300	1,200	254	266	181
10	1,200	2,710	11,800	1,060	2,220	2,780	6,800	2,890	1,010	242	260	192
11	1,190	2,090	10,200	1,230	1,760	2,430	5,650	2,430	880	254	284	203
12	1,190	1,800	7,690	1,170	1,460	2,240	4,420	2,150	780	254	311	219
13	851	1,560	5,960	910	1,300	1,830	3,360	1,850	1,380	230	304	208
14	698	2,710	4,150	810	1,360	1,640	2,960	1,610	1,120	214	332	420
15	576	5,160	3,600	880	1,530	1,350	2,830	1,430	780	219	579	1,090
16	450	3,400	4,610	840	1,510	1,290	2,870	1,270	700	230	588	538
17	423	2,700	3,270	780	980	1,760	2,610	1,170	800	284	390	353
18	402	2,300	2,730	780	900	2,110	2,750	1,090	2,790	248	1,110	642
19	396	2,210	2,820	800	960	1,970	2,280	1,000	1,840	225	1,410	730
20	396	4,320	2,700	940	1,430	1,910	1,970	950	1,260	214	990	455
21	382	3,740	3,000	830	1,350	1,850	1,970	970	1,040	248	1,000	346
22	364	3,150	7,930	800	900	1,700	1,790	880	980	434	720	284
23	364	2,780	8,950	960	850	1,510	1,630	770	1,050	506	538	290
24	364	2,340	6,180	890	830	1,400	2,300	810	800	408	441	384
25	358	1,960	4,730	780	780	1,410	2,320	1,050	670	366	408	402
26	352	2,800	3,610	730	780	1,510	5,900	1,020	588	290	390	339
27	334	3,120	2,400	1,450	840	1,560	7,360	1,020	660	278	339	290
28	346	2,300	2,060	2,840	840	1,340	14,200	2,450	1,040	248	297	266
29	364	2,110	1,760	2,960	-----	1,170	8,940	3,640	1,050	219	266	260
30	382	2,040	1,580	2,360	-----	1,180	5,650	2,790	730	197	248	304
31	396	-----	1,670	2,050	-----	1,190	-----	2,320	-----	248	248	-----
TOTAL	25,352	68,371	144,200	40,920	54,370	63,410	129,360	58,320	35,568	9,589	17,275	10,787
MEAN	818	2,279	4,652	1,320	1,942	2,045	4,312	1,881	1,186	309	557	360
MAX	5,450	5,160	14,700	2,960	6,970	4,190	14,200	4,240	2,790	579	1,630	1,090
MIN	205	402	1,580	730	780	930	1,490	770	588	197	248	170

CAL YR 1972 TOTAL 763,050 MEAN 2,085 MAX 14,700 MIN 191 CFSM 2.38 IN 32.35
 WTR YR 1973 TOTAL 657,522 MEAN 1,801 MAX 14,700 MIN 170 CFSM 2.06 IN 27.94

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1115	15.66	19,400	4-28	0645	14.03	16,600
12-23	0300	10.52	10,800				

01604500 Patterson Creek near Headsville, W. Va.

LOCATION.--Lat 39°26'35", long 78°49'20", Mineral County, on right bank 100 ft (30 m) downstream from Hazel Run, 1.0 mi (1.6 km) downstream from Cabin Run, 4.0 mi (6.4 km) northeast of Headsville, 8.0 mi (12.9 km) east of Keyser, and at mile 12.5 (20.1 km).

DRAINAGE AREA.--219 mi² (567 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 624.90 ft (190.470 m) above mean sea level, Corps of Engineers bench mark. Prior to Oct. 11, 1946, nonrecording gage on bridge 1.0 mi (1.6 km) upstream at datum 6.14 ft (1.871 m) higher. Oct. 11-23, 1946, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--35 years, 163 ft³/s (4.616 m³/s), 10.11 in/yr (257 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,230 ft³/s (120 m³/s) Apr. 27, gage height, 10.00 ft (3.048 m); minimum, 18 ft³/s (0.51 m³/s) Oct 4, 5; minimum gage height, 2.65 ft (0.808 m) Oct. 5.
Period of record: Maximum discharge, 16,000 ft³/s (453 m³/s) Aug. 18, 1955, gage height, 12.20 ft (3.719 m), from rating curve extended above 4,900 ft³/s (139 m³/s) on basis of contracted-opening measurement at gage height 11.53 ft (3.514 m); minimum, 1.2 ft³/s (0.034 m³/s) Sept. 10-12, 1965; minimum gage height, 2.02 ft (0.616 m) Oct. 2, 1953.

REMARKS.--Records good. The flow from 109 mi² (282 km²) upstream from station is partially controlled, but not diverted, by several floodwater detention reservoirs with a total combined detention capacity of 18,500 acre-ft (22.8 hm³).

REVISIONS (WATER YEARS).--WSP 951: 1939-40.

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	25	42	309	299	225	145	236	680	218	51	36	44
2	23	80	345	260	974	148	572	574	193	45	61	39
3	20	83	417	235	1,200	173	447	536	167	42	62	34
4	18	72	387	748	727	232	798	477	155	38	48	32
5	45	62	369	572	572	286	970	414	189	35	39	30
6	228	54	429	445	491	397	686	369	264	35	33	32
7	574	51	540	358	481	373	568	330	630	32	28	41
8	321	634	952	302	583	349	1,000	297	336	30	25	38
9	228	417	2,670	270	566	311	966	375	252	28	22	34
10	189	279	2,050	260	460	276	1,160	300	205	27	22	32
11	163	220	1,420	240	385	250	890	261	175	61	34	28
12	139	185	882	206	325	231	742	225	159	42	25	26
13	113	157	707	184	281	209	683	199	185	34	23	22
14	91	652	586	172	257	194	680	181	165	29	47	79
15	76	711	1,340	144	248	181	588	165	141	28	321	127
16	62	417	1,350	138	246	174	518	151	115	34	167	83
17	51	324	762	133	213	534	477	147	113	35	125	61
18	45	261	597	130	198	582	459	141	167	28	585	63
19	43	297	545	135	178	432	423	131	155	26	378	51
20	43	1,250	502	144	168	373	384	131	133	24	363	43
21	40	672	489	128	164	337	333	125	105	26	420	39
22	37	477	2,170	127	159	307	294	115	96	40	378	35
23	35	399	1,460	138	152	266	300	110	86	37	273	40
24	34	339	904	135	147	235	333	119	77	37	211	38
25	32	297	701	126	140	219	536	185	70	35	179	34
26	30	616	600	121	138	212	1,150	155	58	49	147	32
27	29	529	522	282	138	198	2,130	149	55	58	117	30
28	32	426	460	480	137	179	2,800	574	70	42	91	28
29	35	363	405	408	-----	164	1,340	592	93	35	72	28
30	33	324	365	309	-----	162	862	348	69	31	59	38
31	32	-----	334	255	-----	159	-----	288	-----	27	50	-----
TOTAL	2,866	10,690	25,569	7,884	9,953	8,288	23,325	8,844	4,896	1,121	4,441	1,281
MEAN	92.5	356	825	254	355	267	778	285	163	36.2	143	42.7
MAX	574	1,250	2,670	748	1,200	582	2,800	680	630	61	585	127
MIN	18	42	309	121	137	145	236	110	55	24	22	22
CFSM	.42	1.63	3.77	1.16	1.62	1.22	3.55	1.30	.74	.17	.65	.20
IN.	.49	1.82	4.34	1.34	1.69	1.41	3.96	1.50	.83	.19	.75	.22

CAL YR 1972 TOTAL 113,170 MEAN 309 MAX 2,670 MIN 16 CFSM 1.41 IN 19.22
WTR YR 1973 TOTAL 109,158 MEAN 299 MAX 2,800 MIN 18 CFSM 1.37 IN 18.54

01605600 Friends Run near Franklin, W. Va.

LOCATION.--38°39'23", long 79°23'31", Pendleton County, on right bank 50 ft (15 m) upstream from culvert on Secondary State Route 5/9, 300 ft (91 m) from intersection with U.S. Highway 33, 3.4 mi (5.5 km) west of Franklin, and at mile 4.5 (7.2 km).

DRAINAGE AREA.--4.55 mi² (11.78 km²).

PERIOD OF RECORD.--May 1969 to current year.

GAGE.--Water-stage and rainfall recorders and culvert control. Concrete dam since June 9, 1970. Altitude of gage is 2,200 ft (671 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 187 ft³/s (5.30 m³/s) Oct. 5, gage height, 4.08 ft (1.244 m), from rating curve extended as explained below; minimum, 0.14 ft³/s (0.004 m³/s) Oct. 5, gage height, 1.18 ft (0.360 m).

Period of record: Maximum discharge recorded, 187 ft³/s (5.30 m³/s) Oct. 5, 1972, gage height, 4.08 ft (1.244 m), from rating curve extended above 40 ft³/s (1.13 m³/s) on basis of culvert rating computation; no flow at times most years.

REMARKS.--Records good. Rainfall records collected at site since May 1969 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	2.4	8.8	4.7	4.3	3.4	6.0	11	6.8	1.2	.32	.29
2	.22	2.4	7.4	4.2	30	3.5	6.1	9.6	5.5	1.2	.36	.28
3	.18	2.6	6.6	4.2	39	4.8	6.0	9.1	5.0	.96	.32	.27
4	.16	2.6	5.9	5.9	26	6.5	7.4	7.8	5.5	.76	.30	.27
5	37	2.6	5.9	5.0	17	9.3	7.4	6.8	4.9	.63	.28	.27
6	57	2.4	9.3	5.0	13	12	7.4	6.1	4.6	.58	.47	.26
7	32	2.2	11	4.7	11	12	7.7	5.4	4.5	.57	.44	.25
8	17	6.6	18	4.4	11	11	19	5.0	4.2	.51	.35	.23
9	9.8	6.3	25	3.9	10	10	23	5.3	3.8	.47	.33	.23
10	7.0	6.3	25	3.5	9.1	9.3	22	4.6	3.5	1.8	.34	.25
11	5.9	5.3	24	3.2	7.8	8.5	17	4.5	3.3	1.7	.35	.24
12	5.0	4.2	18	3.0	6.8	7.2	15	4.4	3.0	.62	.30	.21
13	4.2	3.7	13	2.8	6.2	6.0	12	4.2	2.8	.47	.32	.17
14	3.7	8.8	11	2.6	6.4	5.6	10	4.0	2.6	.40	1.1	.85
15	3.1	8.8	12	2.8	7.2	5.4	9.6	3.8	2.3	.42	.95	.36
16	2.6	8.8	11	2.4	5.5	5.3	9.8	3.7	2.2	.43	.41	.26
17	2.4	7.4	10	2.4	5.0	23	9.8	3.9	2.1	.40	.38	.22
18	2.2	5.9	9.8	2.2	4.6	24	9.0	3.5	2.6	.39	1.6	.23
19	2.8	7.8	8.8	2.7	4.4	16	8.1	3.3	2.1	.36	.53	.22
20	2.2	13	7.8	2.3	4.2	13	7.2	3.2	1.9	.36	.49	.20
21	2.0	15	8.8	2.0	3.9	11	6.4	3.1	1.8	.36	.52	.20
22	2.0	13	23	3.1	4.0	9.6	5.8	2.8	2.2	.50	.51	.20
23	2.0	9.8	22	2.8	3.7	8.5	5.5	2.9	1.9	.59	.43	.27
24	2.0	8.3	17	2.7	3.4	7.7	5.1	3.8	1.6	.47	.40	.23
25	2.0	7.8	13	2.7	3.1	7.8	8.4	4.0	1.4	.37	.96	.20
26	1.8	15	11	2.7	3.1	8.0	14	4.1	1.2	.36	.48	.20
27	1.6	15	9.3	4.5	3.2	7.4	36	4.7	1.4	.35	.40	.19
28	2.4	13	7.4	4.6	3.3	6.8	37	14	2.6	.31	.36	.18
29	2.0	11	6.3	5.1	-----	6.4	21	15	2.3	.30	.34	.20
30	2.0	9.8	5.6	4.5	-----	6.0	14	11	1.5	.29	.32	.30
31	1.8	-----	5.3	4.4	-----	6.0	-----	8.9	-----	.28	.30	-----
TOTAL	216.34	227.8	377.0	111.0	256.2	281.0	372.7	183.5	91.1	18.41	14.96	7.73
MEAN	6.98	7.59	12.2	3.58	9.15	9.06	12.4	5.92	3.04	.59	.48	.26
MAX	57	15	25	5.9	39	24	37	15	6.8	1.8	1.6	.85
MIN	.16	2.2	5.3	2.0	3.1	3.4	5.1	2.8	1.2	.28	.28	.17
CFSM	1.53	1.67	2.68	.79	2.01	1.99	2.73	1.30	.67	.13	.11	.06
IN./	1.77	1.86	3.08	.91	2.09	2.30	3.05	1.50	.74	.15	.12	.06
IN./	-	3.85	-	-	3.19	3.13	5.63	3.35	3.20	3.75	4.64	2.33

CAL YR 1972 TOTAL 2,172.35 MEAN 5.94 MAX 57 MIN .15 CFSM 1.31 IN/ 17.76
WTR YR 1973 TOTAL 2,157.74 MEAN 5.91 MAX 57 MIN .16 CFSM 1.30 IN/ 17.64

PEAK DISCHARGE (BASE, 40 CFS)

/ Runoff.
// Rainfall.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	2145	4.08	187	4-27	1600	2.13	48
2- 3	0030	2.20	54				

01606500 South Branch Potomac River near Petersburg, W. Va.

LOCATION.--Lat 38°59'34", long 79°10'26", Grant County, on right bank 1.2 mi (1.9 km) downstream from North Fork South Branch Potomac River, 2.5 mi (4.0 km) west of Petersburg, and at mile 72.6 (116.8 km).

DRAINAGE AREA.--642 mi² (1,663 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 962.00 ft (293.218 m) above mean sea level, adjustment of 1912. Prior to Dec. 4, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 694 ft³/s (19.65 m³/s), 14.68 in/yr (373 mm/yr).

EXTREMES.--Current year: maximum discharge, 32,100 ft³/s (909 m³/s) Oct. 6, gage height, 16.16 ft (4.926 m), from rating curve extended as explained below; minimum, 93 ft³/s (2.63 m³/s) Sept. 13, 14, gage height, 1.30 ft (0.396 m).

Period of record: Maximum discharge, 62,000 ft³/s (1,760 m³/s) June 17, 1949, gage height, 22.83 ft (6.959 m), from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of slope-area measurement of peak flow; minimum, 42 ft³/s (1.19 m³/s) Sept. 28, 29, 1959, Sept. 11-12 1966; minimum gage height, 0.94 ft (0.287 m) Sept. 28, 29, 1959; minimum daily discharge, 43 ft³/s (1.22 m³/s) Sept. 27-29, 1959, Sept. 11, 12, 1966.

Flood in 1877 reached a stage of 21.2 ft (6.46 m), from floodmarks.

REMARKS.--Records good. Occasional low-flow regulation from power plant 800 ft (244 m) upstream. Records of water temperatures and instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 951: 1939-41. WSP 1141: 1932, 1933(M), 1936-38.

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	227	433	1,360	842	930	669	1,370	2,290	1,260	237	154	125
2	181	841	1,200	751	4,330	771	2,370	1,800	1,020	234	157	120
3	149	898	1,110	689	6,830	1,020	2,050	1,570	863	256	157	113
4	133	820	1,090	1,110	3,800	1,790	2,220	1,470	792	216	146	113
5	2,240	723	1,270	1,220	2,510	2,080	2,790	1,250	1,010	203	135	113
6	16,200	626	1,520	1,120	1,920	2,450	2,210	1,100	792	190	128	118
7	7,040	555	2,690	975	1,660	2,120	1,810	983	758	178	154	118
8	3,450	1,810	3,000	870	1,780	1,910	4,020	907	669	166	193	110
9	2,020	2,490	9,100	790	1,930	1,730	4,160	1,020	579	157	151	104
10	1,350	1,910	6,240	700	1,610	1,500	3,990	991	511	151	146	104
11	1,020	1,490	4,990	630	1,340	1,320	3,120	945	456	227	157	102
12	830	1,170	3,310	570	1,160	1,210	2,470	915	427	213	154	98
13	745	966	2,450	530	1,080	1,060	2,070	842	444	175	154	95
14	634	2,040	1,850	520	1,010	960	1,940	771	394	154	203	125
15	542	3,040	2,000	550	1,190	892	1,890	709	348	154	302	216
16	477	2,240	2,760	530	1,240	863	1,910	655	320	175	237	187
17	433	1,730	2,060	480	870	3,350	1,910	623	320	193	184	143
18	395	1,370	1,690	468	770	4,100	1,920	662	399	169	297	130
19	422	1,260	1,530	468	710	2,620	1,680	572	422	149	338	125
20	499	3,980	1,440	554	758	2,100	1,430	536	324	143	245	120
21	416	3,170	1,510	456	709	1,830	1,240	530	352	146	241	113
22	389	2,390	5,900	462	669	1,590	1,100	486	388	160	230	110
23	378	1,830	4,700	878	636	1,400	999	462	405	196	210	120
24	373	1,440	3,120	764	604	1,320	968	492	311	237	200	130
25	360	1,220	2,300	675	554	1,370	1,090	737	271	206	297	133
26	343	2,300	1,840	629	566	1,540	2,530	806	252	241	271	120
27	329	2,450	1,550	892	623	1,730	5,900	806	237	234	206	113
28	338	1,980	1,300	1,540	610	1,530	8,120	2,610	245	181	178	108
29	419	1,680	1,100	1,430	-----	1,330	4,530	3,560	306	154	157	110
30	413	1,470	968	1,140	-----	1,200	3,050	2,290	297	157	146	216
31	392	-----	907	1,010	-----	1,090	-----	1,650	-----	151	135	-----
TOTAL	43,137	50,322	77,855	24,243	42,399	50,445	76,857	35,040	15,172	5,803	6,063	3,752
MEAN	1,392	1,677	2,511	782	1,514	1,627	2,562	1,130	506	187	196	125
MAX	16,200	3,980	9,100	1,540	6,830	4,100	8,120	3,560	1,260	256	338	216
MIN	133	433	907	456	554	669	968	462	237	143	128	95
CFSM	2.17	2.61	3.91	1.22	2.36	2.53	3.99	1.76	.79	.29	.31	.19
IN.	2.50	2.92	4.51	1.40	2.46	2.92	4.45	2.03	.88	.34	.35	.22

CAL YR 1972 TOTAL 484,632 MEAN 1,324 MAX 16,200 MIN 111 CFSM 2.06 IN 28.08
WTR YR 1973 TOTAL 431,088 MEAN 1,181 MAX 16,200 MIN 95 CFSM 1.84 IN 24.98

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	0315	16.16	32,100	2- 3	0030	8.43	8,750
12- 9	0715	9.35	10,800	3-17	1745	7.83	7,490
12-22	1200	7.74	7,330	4-27	2200	9.37	10,900

01607500 South Fork South Branch Potomac River at Brandywine, W. Va.

LOCATION.--Lat 38°37'53", long 79°14'38", Pendleton County, on left bank 50 ft (15 m) upstream from bridge on U.S. Highway 33, 0.1 mi (0.2 km) upstream from Hawes Run, 0.4 mi (0.6 km) north of Brandywine, 0.9 mi (1.4 km) downstream from Broad Run, and at mile 42.9 (69.0 km).

DRAINAGE AREA.--102 mi² (264 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,558.35 ft (474.985 m) above mean sea level, adjustment of 1912. Prior to Sept. 24, 1956, nonrecording gage at highway bridge 50 ft (15 m) downstream at same datum.

AVERAGE DISCHARGE.--30 years, 97.6 ft³/s (2.764 m³/s), 12.99 in/yr (330 mm/yr).

EXTREMES.--Current year: Maximum discharge, 22,200 ft³/s (629 m³/s) Oct. 5, gage height, 12.45 ft (3.795 m), from rating curve extended as explained below; minimum, 9.6 ft³/s (0.27 m³/s) Sept. 13, gage height, 1.45 ft (0.442 m).

Period of record: Maximum discharge, 41,200 ft³/s (1,170 m³/s) June 17, 1949, gage height, 14.6 ft (4.45 m), from floodmarks, from rating curve extended above 5,300 ft³/s (150 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.3 ft³/s (0.008 m³/s) Dec. 1, 10, 1958, result of freezeup; minimum gage height observed, 0.95 ft (0.290 m) Aug. 10, 14, 15, 1950.

REMARKS.--Records good. The flow from 24.0 mi² (62.2 km²) upstream from station is partially controlled, but not diverted, by several floodwater detention reservoirs with a total combined detention capacity of 4,880 acre-ft (6.02 hm³).

REVISIONS (WATER YEARS).--WSP 1141: 1945(M), 1947(M).

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	28	61	160	108	142	56	147	242	116	26	12	20
2	22	78	132	96	1,620	56	180	188	92	26	15	19
3	20	89	119	89	1,120	64	175	167	76	24	14	18
4	20	87	114	142	532	102	191	147	66	21	12	19
5	1,400	80	110	165	345	157	210	126	100	20	11	15
6	3,610	69	330	160	264	196	186	108	71	20	12	15
7	2,150	61	552	140	226	196	172	94	64	18	12	15
8	1,100	674	540	121	253	223	504	89	55	17	12	14
9	656	476	1,080	100	267	259	544	100	49	16	12	14
10	515	291	638	92	234	226	600	89	44	15	12	12
11	202	204	436	82	185	191	468	89	40	17	18	11
12	145	147	327	75	147	160	348	81	36	13	14	11
13	80	110	256	68	128	130	276	74	34	12	14	10
14	64	638	196	63	121	112	239	68	31	12	28	20
15	55	560	411	66	157	104	207	62	28	19	38	26
16	46	339	572	59	165	98	178	59	27	15	24	17
17	43	239	357	56	120	348	167	61	26	14	18	15
18	39	175	250	53	100	425	152	61	52	12	210	15
19	49	202	199	56	90	297	135	53	36	12	85	14
20	50	697	160	61	94	220	123	50	30	12	56	12
21	41	436	145	50	85	191	110	47	29	16	44	12
22	38	315	1,030	66	80	160	102	43	35	16	41	12
23	35	234	710	157	74	142	96	41	29	20	35	14
24	34	175	453	170	71	135	92	44	36	19	28	13
25	32	145	336	142	64	142	114	49	27	15	112	12
26	31	401	267	121	61	199	262	43	26	15	81	12
27	30	415	223	165	59	250	1,220	41	25	14	52	12
28	38	297	183	276	56	231	1,200	381	29	13	40	12
29	52	220	147	264	-----	196	512	384	36	12	30	12
30	55	180	126	199	-----	172	327	239	27	12	27	16
31	52	-----	116	167	-----	147	-----	162	-----	11	26	-----
TOTAL	10,532	8,095	10,675	3,629	6,860	5,585	9,234	3,482	1,376	504	1,145	439
MEAN	340	270	344	117	245	180	308	112	45.9	16.3	36.9	14.6
MAX	3,610	697	1,080	276	1,620	425	1,220	384	116	26	210	26
MIN	20	61	110	50	56	56	92	41	25	11	11	10
CFSM	3.35	2.65	3.37	1.15	2.40	1.76	3.02	1.10	.45	.16	.36	.14
IN.	3.84	2.95	3.89	1.32	2.50	2.04	3.37	1.27	.50	.18	.42	.16

CAL YR 1972 TOTAL 66,759 MEAN 182 MAX 3,610 MIN 14 CFSM 1.78 IN 24.35

WTR YR 1973 TOTAL 61,559 MEAN 169 MAX 3,610 MIN 10 CFSM 1.66 IN 22.45

01608000 South Fork South Branch Potomac River near Moorefield, W. Va.

LOCATION.--Lat 39°00'44", long 78°57'23", Hardy County, on right bank 0.2 mi (0.3 km) downstream from Stony Creek, 3.5 mi (5.6 km) south of Moorefield, and at mile 6.0 (9.7 km).

DRAINAGE AREA.--283 mi² (733 km²).

PERIOD OF RECORD.--June 1928 to September 1935, August 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 861.51 ft (262.588 m) above mean sea level, Corps of Engineers bench mark. Prior to Mar. 11, 1940, nonrecording gage at Harness Ford Bridge 2.0 mi (3.2 km) upstream at datum about 31 ft (9.45 m) higher.

AVERAGE DISCHARGE.--42 years, 212 ft³/s (6.004 m³/s), 10.17 in/yr (258 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,000 ft³/s (510 m³/s) Oct. 6, gage height, 11.56 ft (3.523 m), from rating curve extended as explained below; minimum, 25 ft³/s (0.71 m³/s) Oct. 4, gage height, 1.13 ft (0.344 m).

Period of record: Maximum discharge, 39,000 ft³/s (1,100 m³/s) June 18, 1949, gage height, 16.1 ft (4.91 m), from rating curve extended above 7,000 ft³/s (198 m³/s) on basis of slope-area measurement of peak flow; minimum, 4.4 ft³/s (0.12 m³/s) Sept. 10, 11, 1965, Sept. 9-11, 1966, gage height, 0.92 ft (0.280 m).

REMARKS.--Records good. The flow from 75.4 mi² (195.3 km²) upstream from station is partially controlled, but not diverted, by several floodwater detention reservoirs with a total combined detention capacity of 15,870 acre-ft (19.6 hm³).

REVISIONS (WATER YEARS).--WSP 1141: 1933(M), 1940, 1942-43, 1945, 1948(M). WSP 1302: 1931(M), 1935(M).

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	27	127	399	279	330	139	295	672	298	95	41	65
2	32	166	354	256	1,000	137	399	529	244	80	42	58
3	30	197	311	233	2,490	144	416	460	207	72	40	52
4	27	204	291	283	1,300	168	413	426	235	66	40	48
5	248	197	283	349	831	228	490	374	547	61	38	46
6	9,940	179	287	354	627	316	464	323	424	56	35	44
7	5,470	163	695	328	545	369	420	287	310	53	35	42
8	2,540	786	851	295	517	388	822	263	251	49	54	39
9	1,170	1,110	2,300	271	552	437	1,280	263	205	46	42	37
10	735	695	1,630	244	522	451	1,380	253	172	47	39	35
11	436	504	1,100	226	450	408	1,170	230	148	45	46	34
12	341	389	833	210	378	369	862	215	129	46	40	33
13	265	311	673	193	338	323	688	199	116	42	40	31
14	204	712	548	179	309	286	624	183	104	39	44	41
15	173	1,340	533	176	315	265	550	172	93	42	69	47
16	149	827	1,050	166	332	249	489	160	86	45	101	51
17	130	594	845	156	292	295	460	157	82	48	75	47
18	118	460	625	145	256	596	453	161	96	42	100	43
19	121	412	523	144	255	550	414	150	104	38	237	38
20	124	1,310	450	153	235	445	386	142	96	36	175	36
21	118	1,100	399	143	220	391	354	135	90	37	158	36
22	106	780	1,520	133	209	358	320	124	138	43	135	35
23	100	599	1,730	157	192	312	299	118	145	51	118	38
24	95	470	1,100	228	181	286	283	119	108	56	112	38
25	92	394	804	232	166	281	314	130	96	51	167	35
26	87	538	641	215	153	307	790	126	83	88	218	34
27	84	845	543	244	148	361	1,800	117	74	77	170	33
28	89	679	455	449	145	383	3,340	192	70	56	129	33
29	95	538	380	525	-----	356	1,430	666	143	46	105	32
30	106	446	328	442	-----	328	895	522	124	43	87	44
31	115	-----	299	377	-----	304	-----	391	-----	39	74	-----
TOTAL	23,405	17,072	22,780	7,785	13,288	10,230	22,300	8,259	5,018	1,635	2,804	1,225
MEAN	755	569	735	251	475	330	743	266	167	52.7	90.5	40.8
MAX	9,940	1,340	2,300	525	2,490	596	3,340	672	547	95	237	65
MIN	27	127	283	133	145	137	283	117	70	36	35	31
CFSM	2.67	2.01	2.60	.89	1.68	1.17	2.63	.94	.59	.19	.32	.14
IN,	3.08	2.24	2.99	1.02	1.75	1.34	2.93	1.09	.66	.21	.37	.16

CAL YR 1972 TOTAL 148,099 MEAN 405 MAX 9,940 MIN 20 CFSM 1.43 IN 19.47
 WTR YR 1973 TOTAL 135,801 MEAN 372 MAX 9,940 MIN 27 CFSM 1.31 IN 17.85

01608050 Fort Run near Moorefield, W. Va.

LOCATION.--Lat 39°03'56", long 78°54'49", Hardy County, on right bank 16 ft (5 m) upstream from culvert on Secondary State Route 23/2, 3.0 mi (4.8 km) east of Moorefield, and at mile 4.6 (7.4 km).

DRAINAGE AREA.--4.92 mi² (12.74 km²).

PERIOD OF RECORD.--May 1969 to current year.

GAGE.--Water-stage and rainfall recorders and culvert control. Concrete dam since June 10, 1970. Altitude of gage is 1,050 ft (320 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 163 ft³/s (4.62 m³/s) Apr. 27, gage height, 4.39 ft (1.338 m), from rating curve extended as explained below; no flow Oct. 1-5, Sept. 7-10.

Period of record: Maximum discharge, 888 ft³/s (25.1 m³/s) June 23, 1972, gage height, 8.49 ft (2.588 m), from floodmarks, from rating curve extended above 40 ft³/s (1.13 m³/s) on basis of slope-area measurement of peak flow; no flow at times each year.

REMARKS.--Records fair except those below 50 ft³/s (1.42 m³/s), which are poor. Rainfall records collected at this site since May 1969 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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	0	3.5	8.1	8.6	6.3	.61	3.5	20	4.8	.17	.15	.02
2	0	7.4	7.4	6.9	38	.61	34	16	3.5	.11	.15	.02
3	0	6.3	7.8	6.3	50	.96	21	11	1.9	.09	.13	.02
4	0	4.9	7.8	29	26	1.9	18	6.4	1.0	.07	.13	.03
5	11	3.5	7.8	27	16	3.2	19	5.5	.80	.07	.11	.02
6	59	2.6	8.6	23	12	5.5	13	4.8	.61	.09	.09	.01
7	52	2.1	9.3	18	10	6.7	10	4.1	.56	.11	.09	.01
8	23	49	36	11	13	6.9	56	3.8	.45	.11	.05	0
9	13	22	89	8.8	15	7.1	36	3.8	.36	.11	.15	0
10	8.6	12	43	6.6	13	6.7	65	3.2	.24	1.0	.17	.04
11	4.0	9.3	29	5.2	9.8	6.2	32	2.9	.20	.61	.13	.04
12	1.9	7.1	21	4.5	8.3	5.2	16	2.4	.96	.22	.11	.03
13	.88	4.9	15	3.9	6.4	3.8	8.8	1.9	2.7	.17	.09	.03
14	.74	23	11	3.5	5.2	3.5	7.6	1.5	.61	.13	.09	.02
15	.57	23	22	4.3	5.2	2.9	6.4	1.1	.45	.09	.20	.07
16	.42	14	27	8.6	3.8	2.7	5.2	.96	.33	.11	.20	.02
17	.49	10	17	1.5	2.8	4.8	5.8	1.1	.33	.45	.17	.02
18	.42	7.6	12	1.3	2.0	4.4	6.2	1.0	.36	.20	.66	.02
19	.57	12	9.1	1.5	1.7	3.8	6.7	.88	.36	.17	.56	.02
20	.39	39	6.9	1.3	1.3	3.5	5.8	.96	.33	.13	.96	.02
21	.27	21	7.8	1.1	1.1	2.9	3.5	.96	.26	.19	2.2	.02
22	.22	14	87	1.1	1.0	2.7	2.7	.80	.22	.33	1.3	.02
23	.22	9.9	59	1.3	.96	2.4	2.4	.73	.19	.66	.80	.02
24	.27	7.8	41	1.1	.80	1.7	2.7	.96	.15	.56	.45	.02
25	.27	6.7	32	1.1	.66	1.7	13	1.0	.11	.39	.25	.02
26	.22	17	26	1.1	.61	2.2	36	.96	.09	.33	.14	.02
27	.22	16	22	13	.61	1.9	88	1.0	.45	.26	.08	.02
28	.57	13	17	21	.61	1.3	80	8.5	.52	.20	.05	.02
29	.61	10	13	16	-----	1.1	40	8.0	.29	.19	.03	.02
30	.67	8.8	11	11	-----	1.3	27	6.4	.20	.17	.02	.19
31	.74	-----	10	8.3	-----	1.3	-----	6.2	-----	.15	.02	-----
TOTAL	181.26	387.4	720.6	256.9	252.15	101.48	671.3	128.81	23.33	7.64	9.73	.83
MEAN	5.85	12.9	23.2	8.29	9.01	3.27	22.4	4.16	.78	.25	.31	.028
MAX	59	49	89	29	50	7.1	88	20	4.8	1.0	2.2	.19
MIN	0	2.1	6.9	1.1	.61	.61	2.4	.73	.09	.07	.02	0
CFSM	1.19	2.62	4.72	1.69	1.83	.66	4.55	.85	.16	.05	.06	.006
IN./	1.37	2.93	5.45	1.94	1.91	.77	5.08	.97	.18	.06	.07	.006
IN./f	5.86	4.66	3.86	1.56	1.85	1.40	4.94	2.58	3.02	3.89	3.29	2.26

CAL YR 1972 TOTAL 3,403.84 MEAN 9.30 MAX 450 MIN 0 CFSM 1.89 IN./ 25.74
WTR YR 1973 TOTAL 2,741.43 MEAN 7.51 MAX 89 MIN 0 CFSM 1.53 IN./ 20.73

PEAK DISCHARGE (BASE, 80 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 7	0130	3.33	82	12-22	1115	3.86	123
11- 8	0600	3.63	90	4-10	0315	3.56	85
12- 8	1945	4.30	154	4-27	1530	4.39	163

/ Runoff.
// Rainfall.

01608400 Buffalo Creek near Romney, W. Va.

LOCATION.--Lat 39°22'18", long 78°43'51", Hampshire County, on right bank 15 ft (5 m) upstream from culvert on Secondary State Route 28/1, 0.7 mi (1.1 km) upstream from mouth, and 2.5 mi (4.0 km) northeast of Romney.

DRAINAGE AREA.--4.37 mi², (11.32 km²).

PERIOD OF RECORD.--August 1969 to current year.

GAGE.--Water-stage and rainfall recorders and culvert control. Concrete dam since Aug. 12, 1970. Altitude of gage is 680 ft (207 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 183 ft³/s (5.18 m³/s) Dec. 8, gage height, 3.91 ft (1.192 m); no flow Oct. 1-7.

Period of record: Maximum discharge, 438 ft³/s (12.4 m³/s) June 22, 1972, gage height, 7.15 ft (2.179 m), from rating curve extended above 190 ft³/s (5.38 m³/s) on basis of computations of flow through culvert and flow-over-road measurement at gage height 8.00 ft (2.438 m); no flow at times each year.

Flood of July 29, 1969, reached a stage of 8.00 ft (2.438 m), from floodmark, discharge, 550 ft³/s (15.6 m³/s), from rating curve extended as explained above.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Rainfall records collected at site since August 1969 are contained in files of the U.S. Geological Survey with only monthly totals published in this report.

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	0	.02	2.8	2.6	4.4	1.9	10	7.8	1.9	.32	.09	.76
2	0	.02	3.6	2.2	27	1.9	31	5.6	1.5	.26	.09	.64
3	0	.18	5.8	2.1	33	2.3	15	4.5	5.4	.22	.07	.58
4	0	.39	5.4	19	14	2.7	24	4.1	15	.19	.07	.52
5	0	.39	3.8	12	8.2	3.4	20	3.3	21	.17	.03	.52
6	.01	.34	6.9	7.9	6.4	4.4	10	2.7	14	.15	.03	.46
7	2.0	.34	9.9	5.4	6.4	4.6	7.2	2.3	6.6	.14	.01	.41
8	.88	15	46	4.0	9.5	4.2	20	2.0	3.5	.13	.01	.33
9	.44	3.6	105	3.0	11	3.9	17	3.1	2.1	.12	.01	.29
10	.34	2.2	72	2.4	8.2	3.6	37	2.4	1.5	.25	.90	.29
11	.29	1.5	45	2.0	6.0	3.3	18	2.3	1.2	.10	.98	.22
12	.29	1.2	27	1.7	4.6	3.1	9.7	2.0	1.0	.09	.37	.11
13	.18	1.4	18	1.5	3.9	2.9	7.9	1.8	2.0	.09	.33	.11
14	.08	28	12	1.4	3.6	2.6	6.6	1.6	1.2	.07	7.2	1.1
15	.02	17	60	1.5	3.9	2.2	5.6	1.4	.85	.05	8.2	1.4
16	.02	5.4	59	1.6	3.3	2.0	4.9	1.3	.67	.07	3.0	.64
17	.02	2.8	28	1.4	2.7	3.7	5.1	1.3	.57	.07	2.0	.52
18	.02	2.0	16	1.4	2.4	3.9	5.1	1.5	1.3	.07	2.7	.46
19	.02	7.2	8.0	1.5	2.1	3.7	4.7	1.2	1.0	.07	2.7	.41
20	.02	34	4.1	1.9	2.4	3.3	4.6	1.1	.80	.10	7.7	.37
21	.02	11	5.4	1.3	2.4	3.0	4.6	1.2	.66	.11	21	.33
22	.02	5.4	59	1.3	2.3	2.7	4.2	.98	.61	.12	16	.33
23	.02	3.0	23	1.9	2.2	2.3	5.1	.83	.66	.14	7.9	.29
24	.02	2.3	12	1.9	2.0	2.0	6.4	.83	.74	.12	4.9	.25
25	.02	1.8	7.9	1.8	1.8	2.0	20	1.9	.43	.16	3.4	.22
26	.02	8.6	6.4	1.9	1.8	2.0	35	1.7	.32	.16	2.3	.19
27	.02	6.9	5.2	7.4	1.8	1.9	57	1.6	.27	.16	1.6	.19
28	.02	4.7	4.2	9.7	1.8	1.8	49	6.2	.30	.16	1.2	.16
29	.02	3.2	3.4	8.7	-----	1.7	20	8.0	.70	.14	.98	.16
30	.02	2.8	3.1	6.4	-----	1.9	12	4.2	.52	.11	.90	.16
31	.02	-----	2.9	5.1	-----	2.0	-----	2.6	-----	.09	.76	-----
TOTAL	4.85	172.68	670.8	123.9	179.1	86.9	476.7	83.34	88.30	4.20	97.43	12.42
MEAN	.16	5.76	21.6	4.00	6.40	2.80	15.9	2.69	2.94	.14	3.14	.41
MAX	2.0	34	105	19	33	4.6	57	8.0	21	.32	21	1.4
MIN	0	.02	2.8	1.3	1.8	1.7	4.2	.83	.27	.05	.01	.11
CFSM	.04	1.32	4.94	.92	1.46	.64	3.64	.62	.67	.03	.72	.09
IN./	.04	1.47	5.71	1.05	1.52	.74	4.06	.71	.75	.04	.83	.11
IN./f	3.37	4.41	5.06	1.92	2.06	1.44	6.12	2.26	-	-	6.99	2.73

CAL YR 1972 TOTAL 2,724.72 MEAN 7.44 MAX 232 MIN 0 CFSM 1.70 IN/ 23.19
WTR YR 1973 TOTAL 2,000.62 MEAN 5.48 MAX 105 MIN 0 CFSM 1.25 IN/ 17.03

PEAK DISCHARGE (BASE, 40 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 8	0430	2.64	43	4- 2	0030	2.71	42
11-14	0800	2.66	45	4- 4	1215	2.74	45
11-19	2130	3.05	97	4-10	0300	2.83	53
12- 8	1730	3.91	183	4-27	1700	3.53	123
12-15	1315	3.21	122	6- 5	1630	3.09	79
12-22	0700	3.12	82	8-14	2300	2.73	44
2- 2	1945	2.93	63	8-21	1315	2.74	45

f Runoff.

ff Rainfall.

NOTE.--No gage-height record
June 7 to July 11.

01608500 South Branch Potomac River near Springfield, W. Va.

LOCATION.--Lat 39°26'49", long 78°39'16", Hampshire County, on left bank at highway bridge, 2.0 mi (3.2 km) east of Springfield, and at mile 13.4 (21.6 km).

DRAINAGE AREA.--1,471 mi² (3,810 km²).

PERIOD OF RECORD.--June 1894 to February 1896 (fragmentary), June 1899 to February 1902, August 1903 to July 1906, August 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 562.02 ft (171.304 m) above mean sea level. June 1894 to February 1896, nonrecording gage at Baltimore & Ohio Railroad bridge 11.2 mi (18.0 km) upstream at different datum. June 26, 1899, to Feb. 2, 1902, nonrecording gage at bridge 10.0 mi (16.1 km) upstream at different datum. Aug. 28, 1903, to July 14, 1906, nonrecording gage at present site at different datum. Aug. 8 to Sept. 24, 1928, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--49 years (1899-1901, 1903-5, 1928-73), 1,264 ft³/s (35.80 m³/s), 11.67 in/yr (296 mm/yr).

EXTREMES.--Current year: Maximum discharge, 46,100 ft³/s (1,310 m³/s) Oct. 6, gage height, 21.11 ft (6.434 m), from rating curve extended as explained below; minimum, 190 ft³/s (5.38 m³/s) Sept. 13, 14, gage height, 1.52 ft (0.463 m).

Period of record: Maximum discharge, 143,000 ft³/s (4,050 m³/s) Mar. 18, 1936, gage height, 34.2 ft (10.42 m), from rating curve extended above 18,000 ft³/s (510 m³/s) on basis of measurement made about 10 mi (16 km) upstream from station, adjusted for storage and inflow and slope-area measurement at gage height 29.84 ft (9.095 m); minimum, 29 ft³/s (0.82 m³/s) Jan. 28, 1956, result of freezeup, July 30, 1966, result of temporary dam; minimum gage height, 0.39 ft (0.119 m) July 30, 1966.

Flood in November 1877 reached a stage of about 34 ft (10.4 m), from floodmarks, discharge, 140,000 ft³/s (3,960 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1552: 1903-6, 1929-30(M), 1932-33(M), 1935(M), 1937-40(M), 1942-43(M), 1945(M).

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	220	617	2,540	1,660	1,840	988	1,920	4,780	2,340	526	258	281
2	248	837	2,420	1,500	3,090	1,060	4,420	3,740	1,810	425	331	257
3	266	1,300	2,290	1,340	13,700	1,210	4,260	3,140	1,490	379	367	238
4	235	1,310	2,080	2,730	8,950	1,840	4,110	2,990	1,300	397	318	228
5	258	1,180	2,070	3,080	5,430	2,680	5,430	2,550	1,920	365	280	215
6	18,500	1,040	2,290	2,580	4,000	3,420	4,400	2,190	2,300	340	251	222
7	24,600	915	3,600	2,190	3,460	3,530	3,540	1,910	2,260	318	232	222
8	10,300	2,700	4,930	1,820	3,470	3,220	5,010	1,710	1,520	301	223	222
9	5,280	5,210	15,300	1,590	3,810	3,020	9,000	1,770	1,200	285	276	214
10	3,340	3,950	13,300	1,400	3,420	2,770	9,190	1,820	994	278	281	208
11	2,300	2,970	9,970	1,200	2,860	2,470	7,500	1,640	852	317	281	201
12	1,720	2,320	6,640	1,100	2,360	2,210	5,440	1,540	755	293	272	197
13	1,410	1,820	4,920	1,000	2,050	1,980	4,460	1,430	1,390	334	265	193
14	1,190	2,600	3,820	983	1,900	1,730	4,160	1,310	1,080	293	274	241
15	989	6,440	4,550	1,050	1,860	1,570	3,680	1,200	773	270	621	347
16	849	4,850	6,670	984	2,200	1,470	3,440	1,100	653	277	609	323
17	752	3,540	4,870	909	1,860	2,070	3,350	1,040	607	295	513	338
18	684	2,770	3,670	851	1,420	6,630	3,460	1,020	638	313	2,310	287
19	646	2,290	3,180	834	1,300	4,810	3,190	1,010	674	287	1,180	257
20	673	7,540	2,850	871	1,390	3,630	2,820	921	687	256	1,210	235
21	725	7,080	2,740	893	1,290	3,090	2,460	866	581	246	1,240	222
22	647	4,930	9,300	797	1,210	2,820	2,150	814	601	274	1,050	216
23	604	3,740	12,100	868	1,140	2,440	1,990	761	669	298	697	219
24	581	2,930	7,330	1,290	1,080	2,160	2,010	746	682	343	547	219
25	560	2,370	5,190	1,190	1,010	2,070	2,130	906	544	382	569	224
26	537	2,940	4,030	1,090	934	2,180	5,370	1,110	473	342	764	227
27	509	4,900	3,360	1,290	932	2,440	8,160	1,130	442	410	673	221
28	504	4,000	2,830	2,770	988	2,510	19,700	1,640	458	421	511	211
29	534	3,320	2,370	3,050	-----	2,220	11,000	5,230	496	329	400	205
30	595	2,790	2,010	2,610	-----	2,010	6,520	4,250	536	281	343	215
31	606	-----	1,790	2,080	-----	1,840	-----	3,090	-----	258	309	-----
TOTAL	80,862	95,199	155,010	47,600	78,954	78,088	154,270	59,354	30,725	10,133	17,455	7,105
MEAN	2,608	3,173	5,000	1,535	2,820	2,519	5,142	1,915	1,024	327	563	237
MAX	24,600	7,540	15,300	3,080	13,700	6,630	19,700	5,230	2,340	526	2,310	347
MIN	220	617	1,790	797	932	988	1,920	746	442	246	223	193
CFSM	1.77	2.16	3.40	1.04	1.92	1.71	3.50	1.30	.70	.22	.38	.16
IN.	2.04	2.41	3.92	1.20	2.00	1.97	3.90	1.50	.78	.26	.44	.18

CAL YR 1972 TOTAL 901,917 MEAN 2,464 MAX 24,600 MIN 180 CFSM 1.68 IN 22.81
WTR YR 1973 TOTAL 814,755 MEAN 2,232 MAX 24,600 MIN 193 CFSM 1.52 IN 20.60

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	2345	21.11	46,100	2- 3	1030	12.40	15,900
12- 9	2000	13.31	17,900	4-10	1345	9.47	10,200
12-22	2300	12.02	15,000	4-28	1000	14.93	22,000

01609800 Little Cacapon River near Levels, W. Va.

LOCATION.--Lat 39°29'55", long 78°29'20", Hampshire County, on left bank just downstream from bridge on Secondary State Route 2, 3.2 mi (5.1 km) northeast of Levels, and at mile 2.0 (3.2 km).

DRAINAGE AREA.--108 mi² (280 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 540 ft (165 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 92.7 ft³/s (2.625 m³/s), 11.66 in/yr (296 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,500 ft³/s (99.1 m³/s) Dec. 9, gage height, 8.75 ft (2.667 m), from rating curve extended as explained below; minimum, 1.2 ft³/s (0.034 m³/s) Aug. 7; minimum gage height, 2.17 ft (0.661 m) July 9, 10.

Period of record: Maximum discharge, 10,500 ft³/s (297 m³/s) June 22, 1972, gage height, 12.97 ft (3.953 m), from rating curve extended above 1,800 ft³/s (51.0 m³/s) on basis of slope-area measurement of gage height, 10.24 ft (3.121 m); minimum daily, 0.01 ft³/s (<0.001 m³/s) Sept. 1-5, Oct. 2-6, 8, 16-18, 1968; minimum gage height, 1.36 ft (0.415 m) Aug. 24, 1968.

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

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	2.7	18	116	98	110	33	215	235	103	12	2.7	6.3
2	2.6	22	118	84	750	34	1,010	181	76	9.6	2.5	5.3
3	2.4	31	169	72	1,000	38	510	165	58	8.2	2.1	4.7
4	2.2	24	171	362	540	52	633	151	50	7.4	2.0	4.4
5	35	22	149	410	275	56	610	122	162	6.6	1.5	4.0
6	1,000	13	155	290	205	86	378	103	220	6.0	1.3	4.0
7	500	11	287	180	188	94	272	86	427	5.6	1.3	4.1
8	250	275	404	120	290	103	609	78	177	5.0	1.5	4.4
9	65	179	2,150	92	357	103	558	116	110	4.7	1.7	4.6
10	17	105	976	74	258	97	1,040	105	73	27	1.8	4.4
11	11	73	628	60	188	94	566	97	51	23	2.2	4.6
12	9.2	56	357	52	130	89	368	82	40	4.8	2.3	4.6
13	8.9	42	255	47	110	81	287	75	76	3.3	2.4	4.1
14	8.2	269	192	49	99	70	230	62	50	2.0	2.7	11
15	6.9	364	701	56	108	65	185	55	33	1.6	57	47
16	6.6	192	755	51	106	62	165	48	24	1.6	27	20
17	6.9	127	360	44	66	143	155	47	21	3.1	14	12
18	7.1	92	218	44	55	175	169	58	48	7.9	228	11
19	7.6	87	173	47	52	143	153	44	44	3.8	72	11
20	8.4	836	153	58	57	122	139	41	33	3.0	129	11
21	9.2	335	131	49	57	110	127	65	24	3.1	455	8.9
22	9.6	212	1,370	47	51	100	122	49	23	4.0	255	7.9
23	9.6	151	750	56	46	87	139	41	24	10	123	8.2
24	10	113	402	82	46	73	255	40	27	8.9	68	8.9
25	11	90	278	60	36	66	384	90	17	6.0	76	8.7
26	11	190	222	58	36	69	910	87	13	10	56	8.7
27	11	230	198	140	34	69	1,230	81	10	20	34	7.9
28	12	175	159	420	33	56	1,320	250	11	7.4	20	7.4
29	12	153	127	340	-----	48	550	314	22	4.4	13	7.1
30	13	120	110	230	-----	48	332	198	22	3.2	8.9	7.1
31	17	-----	102	160	-----	51	-----	145	-----	2.5	7.4	-----
TOTAL	2,083.1	4,607	12,336	3,932	5,283	2,517	13,621	3,311	2,069	225.7	1,671.3	263.3
MEAN	67.2	154	398	127	189	81.2	454	107	69.0	7.28	53.9	8.78
MAX	1,000	836	2,150	420	1,000	175	1,320	314	427	27	455	47
MIN	2.2	11	102	44	33	33	122	40	10	1.6	1.3	4.0
CFSM	.62	1.43	3.69	1.18	1.75	.75	4.20	.99	.64	.07	.50	.08
IN.	.72	1.59	4.25	1.35	1.82	.87	4.69	1.14	.71	.08	.58	.09
CAL YR 1972	TOTAL 59,236.5	MEAN 162	MAX 4,890	MIN 1.8	CFSM 1.50	IN 20.40						
WTR YR 1973	TOTAL 51,919.4	MEAN 142	MAX 2,150	MIN 1.3	CFSM 1.31	IN 17.88						

PEAK DISCHARGE (BASE, 1,600 CFS)

NOTE.--No gage-height record Oct. 1-10.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	unknown	-	unknown	12-22	1030	7.31	2,080
12- 9	0300	8.75	3,500	4-27	2200	7.60	2,430
12-15	1800	6.88	1,700				

01610000 Potomac River at Paw Paw, W. Va.

LOCATION.--Lat 39°32'13", long 78°27'28", Allegany County, Md., on left bank 250 ft (76 m) upstream from bridge on Maryland State Highway 51 at Paw Paw, 3.3 mi (5.3 km) downstream from Little Cacapon River, and at mile 277 (446 km).

DRAINAGE AREA.--3,109 mi² (8,052 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 487.88 ft (148.706 m) above mean sea level, Corps of Engineers bench mark. Prior to Mar. 25, 1939, nonrecording gage at bridge 250 ft (76 m) downstream at same datum.

AVERAGE DISCHARGE.--35 years, 3,148 ft³/s (89.15 m³/s), 13.76 in/yr (350 mm/yr).

EXTREMES.--Current year: Maximum discharge, 47,600 ft³/s (1,350 m³/s) Apr. 28, gage height, 24.31 ft (7.410 m); minimum, 467 ft³/s (13.2 m³/s) Sept. 12, gage height, 3.54 ft (1.079 m).

Period of record: Maximum discharge, 111,000 ft³/s (3,140 m³/s) Oct. 16, 1942, gage height, 38.36 ft (11.692 m); minimum, 164 ft³/s (4.64 m³/s) Sept 10, 11, 1966.

Flood of Mar. 18, 1936, reached a stage of 54.0 ft (16.46 m), discharge, 240,000 ft³/s (6,800 m³/s), from rating curve extended above 85,000 ft³/s (2,410 m³/s) on basis of slope-area measurement of peak flow at site 5.0 mi (8.0 km) upstream at Okonoko.

REMARKS.--Records good. Low flow affected by Stony River Reservoir (see sta 01595200), and since December 1950, by Savage River Reservoir.

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	661	1,210	5,460	4,330	4,860	2,460	4,540	11,300	5,450	1,750	868	731
2	600	1,470	5,270	3,960	8,710	2,650	9,140	8,930	4,440	1,420	2,120	810
3	594	2,630	5,510	3,620	25,800	3,100	9,870	7,540	3,760	1,210	1,890	892
4	554	2,670	5,390	5,860	18,900	5,110	10,300	7,000	3,350	1,100	1,270	730
5	583	2,400	5,930	7,770	11,900	6,580	16,300	6,070	4,460	1,050	962	534
6	9,040	2,140	7,170	6,170	9,070	8,380	12,000	5,280	4,810	951	777	589
7	33,200	1,910	11,200	5,150	7,800	8,860	9,290	4,680	7,130	881	668	605
8	17,100	4,150	12,000	4,350	7,770	8,600	12,200	4,260	4,880	794	623	582
9	8,630	9,840	33,800	3,790	8,680	7,940	20,800	5,120	3,680	731	604	544
10	5,490	7,900	35,200	3,540	7,640	6,850	20,500	5,960	2,980	724	668	494
11	4,210	6,020	27,200	3,400	6,320	6,010	17,700	5,230	2,530	764	652	487
12	3,490	4,990	18,300	3,210	5,210	5,570	12,900	4,710	2,200	773	676	483
13	3,020	4,210	13,600	2,800	4,640	4,970	10,300	4,280	2,670	727	673	485
14	2,380	5,030	10,500	2,420	4,490	4,420	8,860	3,850	3,290	692	690	586
15	2,050	13,000	10,200	2,590	4,450	4,000	8,000	3,480	2,260	643	1,390	1,610
16	1,700	10,100	17,000	2,500	4,660	3,700	7,560	3,170	1,870	644	1,800	1,550
17	1,480	7,370	11,500	2,320	4,070	4,650	7,230	2,960	1,750	702	1,410	1,030
18	1,360	5,920	8,350	2,220	3,160	10,200	7,350	2,880	2,570	756	2,820	1,020
19	1,300	5,160	7,460	2,190	3,170	8,850	6,860	2,710	4,020	695	3,960	1,530
20	1,260	12,500	6,860	2,340	3,210	7,040	6,050	2,530	2,790	626	3,050	1,160
21	1,320	13,800	6,760	2,380	3,740	6,160	5,450	2,520	2,260	608	4,230	850
22	1,270	9,600	19,000	2,140	2,960	5,700	5,120	2,330	2,010	748	3,600	705
23	1,180	7,760	28,800	2,380	2,770	5,110	4,720	2,120	2,090	1,060	2,420	665
24	1,170	6,300	17,700	2,780	2,660	4,550	5,630	2,020	2,190	937	1,780	686
25	1,140	5,260	12,600	2,670	2,500	4,310	5,930	2,700	1,780	987	1,500	769
26	1,110	6,660	9,850	2,450	2,360	4,450	14,100	2,960	1,560	907	1,630	728
27	1,060	9,480	7,590	3,140	2,350	4,630	18,300	2,900	1,440	919	1,530	661
28	1,020	7,870	6,370	7,130	2,440	4,670	43,000	5,620	1,580	941	1,260	611
29	1,060	6,670	5,490	7,740	-----	4,180	27,200	11,300	2,770	808	1,050	584
30	1,100	5,850	4,800	6,610	-----	3,910	15,700	9,120	2,170	670	900	594
31	1,200	-----	4,530	5,430	-----	3,830	-----	6,910	-----	601	801	-----
TOTAL	111,332	189,870	381,390	119,380	176,290	171,440	362,900	152,440	90,740	26,819	48,272	23,305
MEAN	3,591	6,329	12,300	3,851	6,296	5,530	12,100	4,917	3,025	865	1,557	777
MAX	33,200	13,800	35,200	7,770	25,800	10,200	43,000	11,300	7,130	1,750	4,230	1,610
MIN	554	1,210	4,530	2,140	2,350	2,460	4,540	2,020	1,440	601	604	483
CAL YR 1972	TOTAL 2,125,400	MEAN 5,807	MAX 53,400	MIN 414	CFSM 1.87	IN 25.36						
WTR YR 1973	TOTAL 1,854,178	MEAN 5,080	MAX 43,000	MIN 483	CFSM 1.63	IN 22.18						

PEAK DISCHARGE (BASE, 20,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 7	0700	22.09	39,900	2- 3	1345	18.95	29,800
12- 9	2330	23.01	43,000	4- 9	0545	16.51	22,700
12-23	0115	20.24	33,900	4-28	1400	24.31	47,600

01610200 Lost River at McCauley near Baker, W. Va.

LOCATION.--Lat 39°03'18", long 78°43'31", Hardy County, on left bank at McCauley, 1.4 mi (2.3 km) upstream from Three Springs Run, and 1.7 mi (2.7 km) east of Baker.

DRAINAGE AREA.--155 mi² (401 km²). Area at low-flow gage site, 164 mi² (425 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-64, 1969, October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,260 ft (384 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 9,220 ft³/s (261 m³/s) Oct. 6, gage height, 9.66 ft (2.944 m), from floodmarks; minimum, 6.4 ft³/s (0.18 m³/s) Oct. 4; minimum gage height, 1.29 ft (0.393 m) Sept. 28, 29. Period of record: Maximum discharge, 14,600 ft³/s (413 m³/s) June 23, 1972, gage height, 11.58 ft (3.530 m), from floodmarks, from rating curve extended above 1,000 ft³/s (28.3 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 2.28 ft³/s (0.065 m³/s) Sept. 12, 1963.

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

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	12	198	240	152	180	72	138	350	195	78	21	31
2	10	322	212	132	590	72	595	283	146	56	27	26
3	8.5	255	202	116	1,200	93	455	280	116	43	23	23
4	7.4	192	190	246	600	159	484	250	111	35	19	21
5	93	148	182	272	400	190	530	212	313	31	16	19
6	5,600	114	205	246	300	253	395	180	203	25	14	17
7	1,700	95	252	198	260	262	313	154	180	21	14	16
8	450	1,360	782	150	270	268	772	142	123	19	12	14
9	240	698	2,070	130	330	259	725	161	94	16	14	12
10	160	406	872	110	290	238	982	136	72	44	18	12
11	110	286	550	100	240	215	692	123	58	100	27	12
12	90	212	406	93	190	193	480	108	49	33	16	11
13	72	168	334	84	150	130	399	99	71	21	14	10
14	58	800	258	80	172	142	387	88	45	17	17	25
15	51	788	382	84	190	130	346	82	35	18	27	40
16	44	470	490	74	175	123	307	75	32	23	25	19
17	40	334	350	70	130	215	307	84	32	51	19	14
18	35	246	326	67	110	223	295	91	34	24	190	12
19	49	290	237	72	96	190	271	72	34	16	74	11
20	60	1,200	212	76	110	168	253	68	28	15	313	11
21	45	680	200	57	105	159	220	66	27	21	333	11
22	39	460	1,610	86	94	146	195	57	37	45	203	9.5
23	37	334	998	152	90	130	180	54	33	63	129	11
24	39	252	595	116	82	118	180	61	28	55	295	13
25	37	215	434	99	72	116	301	91	26	33	1,030	11
26	33	770	356	97	72	140	923	75	286	97	277	9.5
27	30	600	302	334	72	129	2,690	75	87	298	142	9.5
28	53	418	246	505	68	108	1,770	471	113	79	90	8.4
29	110	310	202	450	-----	100	703	489	304	45	62	10
30	91	255	178	310	-----	105	459	316	129	33	47	24
31	79	-----	170	220	-----	105	-----	283	-----	26	37	-----
TOTAL	9,482.9	12,876	14,045	4,978	6,638	4,951	16,747	5,076	3,041	1,481	3,545	472.9
MEAN	306	429	453	161	237	160	558	164	101	47.8	114	15.8
MAX	5,600	1,360	2,070	505	1,200	268	2,690	489	313	298	1,030	40
MIN	7.4	95	170	57	68	72	138	54	26	15	12	8.4
CFSM	1.97	2.77	2.92	1.04	1.53	1.03	3.60	1.06	.65	.31	.74	.10
IN.	2.28	3.09	3.37	1.19	1.59	1.19	4.02	1.22	.73	.36	.85	.11

CAL YR 1972 TOTAL 114,860.0 MEAN 314 MAX 12,000 MIN 5.2 CFSM 2.03 IN 27.57
 WTR YR 1973 TOTAL 83,333.8 MEAN 228 MAX 5,600 MIN 7.4 CFSM 1.47 IN 20.00

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	unknown	9.66	9,220	4-27	1715	7.70	5,160
11- 8	0700	5.81	2,470	8-20	1800	5.51	2,010
12- 9	0200	6.36	3,130	8-25	0045	6.51	3,260
12-22	1000	5.53	2,140				

a From floodmarks.
 NOTE.--No gage-height record
 Oct. 6-12.

01610300 Cacapon River above Wardensville, W. Va.

LOCATION.--Lat 39°04'44", long 78°37'11", Hardy County, on right bank 0.8 mi (1.3 km) upstream from Trout Run, and 1.2 mi (1.9 km) west of Wardensville.

DRAINAGE AREA.--181 mi² (469 km²).

PERIOD OF RECORD.--October 1971 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft (304.8 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 7,450 ft³/s (211 m³/s) Oct. 6, gage height, 8.65 ft (2.637 m), from floodmark; minimum daily, 47 ft³/s (1.33 m³/s) Oct. 4.

Period of record: Maximum discharge, 16,200 ft³/s (459 m³/s) June 23, 1972, gage height, 11.15 ft (3.399 m), from floodmark; minimum, 24 ft³/s (0.68 m³/s) Sept. 19, 1972, gage height, 2.92 ft (0.890 m).

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

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	59	172	325	206	275	117	178	642	380	195	72	108
2	54	391	295	178	1,060	117	703	534	305	156	72	96
3	50	335	275	162	1,650	120	638	504	254	129	72	87
4	47	254	258	270	884	188	623	486	238	111	65	75
5	570	206	250	340	600	216	746	415	510	105	59	72
6	4,900	172	246	310	468	290	553	370	405	93	55	66
7	2,200	153	345	238	420	310	432	335	345	81	51	64
8	1,000	1,390	726	185	474	320	916	300	266	70	55	62
9	450	918	2,510	160	504	330	1,000	320	223	66	57	55
10	238	528	1,160	150	432	305	1,370	300	185	62	51	53
11	178	385	740	140	350	270	1,080	270	162	195	67	51
12	144	265	546	130	310	246	812	246	144	126	65	51
13	126	226	450	120	258	226	656	230	162	87	57	51
14	110	820	370	120	246	201	656	220	144	68	55	57
15	97	1,040	462	126	246	189	588	202	120	64	63	111
16	86	614	656	117	258	181	534	192	108	68	74	87
17	76	444	444	111	169	253	510	188	105	111	67	64
18	68	340	400	108	160	292	522	220	105	102	241	55
19	66	300	340	108	150	251	474	198	105	70	205	55
20	96	1,460	310	123	170	232	450	178	102	64	287	53
21	84	884	266	90	160	217	395	169	96	66	613	53
22	72	600	1,720	108	150	206	360	159	99	96	380	51
23	70	444	1,280	216	147	188	340	156	111	129	270	50
24	70	350	756	169	141	176	340	153	96	156	238	50
25	68	290	552	150	129	168	432	198	90	111	1,600	51
26	68	900	438	147	117	180	1,290	195	375	96	552	51
27	64	804	395	330	117	188	2,770	185	216	462	330	51
28	62	552	325	642	117	168	2,480	635	195	216	234	50
29	141	420	266	558	-----	153	1,150	812	468	144	185	50
30	147	350	230	405	-----	150	804	552	280	105	156	62
31	132	-----	216	330	-----	150	-----	498	-----	84	126	-----
TOTAL	11,593	16,027	17,552	6,547	10,162	6,598	23,802	10,062	6,394	3,688	6,474	1,892
MEAN	374	534	566	211	363	213	793	325	213	119	209	63.1
MAX	4,900	1,460	2,510	642	1,650	330	2,770	812	510	462	1,600	111
MIN	47	153	216	90	117	117	178	153	90	62	51	50
CFSM	2.07	2.95	3.13	1.17	2.01	1.18	4.38	1.80	1.18	.66	1.15	.35
IN,	2.38	3.29	3.61	1.35	2.09	1.36	4.89	2.07	1.31	.76	1.33	.39
CAL YR 1972	TOTAL 152,729	MEAN 417	MAX 13,500	MIN 25	CFSM 2.30	IN 31.39						
WTR YR 1973	TOTAL 120,791	MEAN 331	MAX 4,900	MIN 47	CFSM 1.83	IN 24.83						

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	unknown	8.65	7,450	2- 3	0045	6.07	2,200
11- 8	0945	6.35	2,620	4-27	1945	7.98	5,710
12- 9	0315	8.86	3,480	8-25	0300	6.92	3,590
12-22	1200	6.17	2,340				

a From floodmarks.

NOTE.--No gage-height record Oct. 1-9.

01611500 Cacapon River near Great Cacapon, W. Va.

LOCATION.--Lat 39°34'43", long 78°18'34", Morgan County, on left bank at Rock Ford, 3.0 mi (4.8 km) southwest of Great Cacapon, and at mile 6.5 (10.5 km).

DRAINAGE AREA.--677 mi² (1,753 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 456.78 ft (139.227 m) above mean sea level, Corps of Engineers bench mark. Prior to Nov. 10, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years (1923-73), 572 ft³/s (16.20 m³/s), 11.47 in/yr (291 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,100 ft³/s (286 m³/s) Apr. 28, gage height, 10.90 ft (3.322 m); minimum, 101 ft³/s (2.86 m³/s) Oct. 5, gage height, 0.95 ft (0.290 m).
Period of record: Maximum discharge, 87,600 ft³/s (2,480 m³/s) Mar. 18, 1936, gage height, 30.1 ft (9.17 m), from rating curve extended above 52,000 ft³/s (1,470 m³/s); minimum, 26 ft³/s (0.74 m³/s) Sept. 11-13, 1966; minimum gage height, 0.35 ft (0.107 m) Sept. 21, 22, 1932, Sept. 11-13, 1966.
Flood in May 1889 reached a stage of 24.7 ft (7.53 m), from floodmarks, discharge, 57,500 ft³/s (1,630 m³/s).

REMARKS.--Records good. Records of instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 800: 1924(M). WSP 921: Drainage area. WSP 951: 1936-37, WSP 1552: 1925-26(M), 1928, 1929(M), 1932.

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	116	271	1,060	935	1,140	401	553	1,920	1,040	510	166	233
2	111	283	1,020	842	1,280	394	1,540	1,560	835	347	154	206
3	108	690	1,000	747	4,010	408	2,530	1,340	686	277	144	181
4	103	651	969	1,020	3,390	437	1,990	1,320	599	239	140	164
5	113	514	890	2,020	2,290	556	2,680	1,150	590	211	135	152
6	835	425	879	1,700	1,780	652	2,170	986	879	199	126	140
7	4,920	358	1,060	1,360	1,530	775	1,690	890	930	185	118	131
8	2,860	497	1,220	1,050	1,580	824	1,800	809	720	164	111	125
9	1,330	2,950	7,040	845	1,960	867	3,350	825	581	152	108	119
10	777	1,780	5,520	723	1,770	856	3,310	879	468	152	118	116
11	518	1,140	3,550	660	1,450	808	3,590	793	388	440	130	111
12	382	863	2,470	600	1,130	769	2,460	705	340	187	133	108
13	312	671	1,950	550	960	732	2,000	647	336	223	118	104
14	269	695	1,560	505	840	661	1,660	590	350	181	121	130
15	241	2,970	1,510	565	921	604	1,500	545	350	154	192	166
16	213	2,260	3,020	551	969	574	1,310	505	286	146	263	164
17	192	1,500	2,300	520	852	611	1,180	482	261	187	172	170
18	179	1,100	1,570	489	551	1,130	1,240	508	256	183	164	164
19	176	896	1,360	482	607	1,070	1,220	555	290	204	192	142
20	176	2,680	1,210	501	669	881	1,060	490	266	192	428	128
21	183	3,350	1,110	507	613	781	986	491	248	164	398	119
22	206	2,140	3,170	439	582	731	919	460	243	170	1,390	116
23	199	1,590	6,070	489	538	696	885	403	226	196	810	116
24	189	1,210	3,390	753	505	629	1,010	378	241	239	541	114
25	183	969	2,450	634	479	570	1,030	440	235	241	432	109
26	176	1,050	1,970	550	438	557	2,580	572	212	228	2,060	109
27	174	2,680	1,740	620	419	613	3,470	549	217	204	907	111
28	176	1,990	1,480	1,670	415	598	7,940	666	395	328	572	108
29	181	1,540	1,230	2,060	-----	517	4,140	1,680	451	347	413	104
30	213	1,210	1,040	1,800	-----	480	2,540	1,600	590	244	322	106
31	292	-----	952	1,330	-----	479	-----	1,180	-----	194	269	-----
TOTAL	16,103	40,923	65,760	27,517	33,668	20,661	64,333	25,918	13,509	7,088	11,347	4,066
MEAN	519	1,364	2,121	888	1,202	666	2,144	836	450	229	366	136
MAX	4,920	3,350	7,040	2,060	4,010	1,130	7,940	1,920	1,040	510	2,060	233
MIN	103	271	879	439	415	394	553	378	212	146	108	104
CFSM	.77	2.01	3.13	1.31	1.78	.98	3.17	1.23	.66	.34	.54	.20
IN.	.88	2.25	3.61	1.51	1.85	1.14	3.53	1.42	.74	.39	.62	.22
CAL YR 1972	TOTAL 472,480	MEAN 1,291	MAX 30,500	MIN 93	CFSM 1.91	IN 25.96						
WTR YR 1973	TOTAL 330,893	MEAN 907	MAX 7,940	MIN 103	CFSM 1.34	IN 18.18						

PEAK DISCHARGE (BASE, 3,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	2400	8.91	6,650	2- 3	1800	7.76	4,810
11-20	2300	7.71	4,740	4-11	0100	7.72	4,380
12- 9	1600	10.64	9,820	4-28	1300	10.90	10,100
12-23	0300	9.46	7,630				

01613000 Potomac River at Hancock, Md.

LOCATION.--Lat 39°41'49", long 78°10'39", Washington County, on left bank 0.2 mi (0.3 km) downstream from Little Tonoloway Creek, 0.5 mi (0.8 km) downstream from bridge on U. S. Highway 522 at Hancock, 1.1 mi (1.8 km) upstream from Tonoloway Creek (formerly called Great or Big Tonoloway Creek), and at mile 239 (385 km).

DRAINAGE AREA.--4,073 mi² (10,549 km²).

PERIOD OF RECORD.--October 1932 to current year. Gage-height records collected at same site since June 1925 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 383.46 ft (116.879 m) above mean sea level, adjustment of 1912. Oct. 1, 1932, to Jan. 5, 1935, Mar. 18, 1936, to Jan. 20, 1937, nonrecording gage, on former highway bridge just upstream at same datum.

AVERAGE DISCHARGE.--41 years, 4,023 ft³/s (113.9 m³/s), 13.41 in/yr (341 mm/yr).

EXTREMES.--Current year: Maximum discharge, 54,600 ft³/s (1,550 m³/s) Apr. 28, gage height, 21.06 ft (6.419 m); minimum, 557 ft³/s (15.8 m³/s) Sept. 13, gage height, 2.74 ft (0.835 m).

Period of record: Maximum discharge, 340,000 ft³/s (9,630 m³/s) Mar. 18, 1936, gage height, 47.6 ft (14.518 m), from rating curve extended above 120,000 ft³/s (3,400 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 180 ft³/s (5.10 m³/s) Oct. 4, 1932, gage height, 2.01 ft (0.613 m).

Maximum stage known prior to 1932, about 40 ft (12.2 m) in May 1889, discharge, about 220,000 ft³/s (6,230 m³/s).

REMARKS.--Records good. Slight regulation at low flow from power plants upstream. Low flow affected slightly by Stony River Reservoir (see sta 01595200) and since December 1950, by Savage River Reservoir.

REVISIONS (WATER YEARS).--WSP 781: 1933(M). WSP 801: Drainage area.

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	765	1,510	7,090	5,640	6,840	2,900	4,750	15,400	7,900	2,850	839	1,060
2	762	1,530	6,650	5,240	8,410	2,960	9,820	12,000	6,290	2,250	1,310	953
3	701	2,390	6,750	4,740	27,000	3,240	14,800	9,900	5,150	1,790	2,370	989
4	684	3,410	6,930	5,350	27,800	4,050	13,100	8,960	4,400	1,510	1,820	1,040
5	681	3,130	6,890	10,600	16,900	6,780	21,600	8,230	4,550	1,370	1,320	873
6	782	2,760	8,040	9,410	12,400	8,440	17,200	7,080	5,580	1,260	1,040	678
7	32,500	2,450	12,800	7,670	10,300	10,300	13,000	6,200	7,820	1,160	873	708
8	25,100	2,920	13,900	6,280	9,630	10,000	13,100	5,540	7,530	1,050	767	717
9	12,000	11,100	31,600	5,240	11,200	9,610	25,200	5,710	5,260	941	718	682
10	7,740	10,800	46,400	4,680	10,700	8,760	24,400	7,380	4,100	879	713	647
11	5,380	8,240	34,600	4,450	8,980	7,560	25,300	7,150	3,390	1,200	791	586
12	4,300	6,560	23,800	4,220	7,320	6,880	17,900	6,170	2,920	1,010	786	574
13	3,680	5,460	17,400	3,810	6,230	6,330	14,200	5,530	2,610	965	827	564
14	3,040	5,070	13,800	3,340	5,750	5,570	11,500	4,940	3,490	925	810	724
15	2,550	13,200	11,300	3,220	5,680	5,040	10,400	4,430	3,330	853	915	1,010
16	2,200	14,600	20,800	3,320	5,630	4,550	9,490	4,020	2,550	783	1,930	2,000
17	1,850	10,000	16,800	3,090	5,660	4,770	9,030	3,720	2,210	818	1,960	1,580
18	1,660	7,950	11,500	2,910	4,390	9,600	8,810	3,590	2,150	890	1,580	1,240
19	1,560	6,630	9,520	2,820	3,850	12,000	8,880	3,470	3,640	922	3,990	1,510
20	1,480	11,300	8,850	2,860	3,980	9,160	7,880	3,320	3,770	900	3,960	1,700
21	1,440	19,200	8,180	2,960	4,160	7,830	7,050	3,170	2,940	800	4,080	1,280
22	1,530	13,400	14,300	2,930	4,070	7,000	6,510	3,080	2,510	813	5,500	970
23	1,470	10,200	37,500	2,810	3,520	6,420	6,020	2,800	2,270	965	4,230	870
24	1,390	8,470	24,900	3,360	3,310	5,700	6,870	2,600	2,430	1,290	2,950	790
25	1,350	6,990	17,000	3,640	3,150	5,190	7,580	2,900	2,420	1,190	2,250	808
26	1,310	7,070	13,200	3,350	2,970	5,060	14,300	3,750	2,060	1,240	3,080	878
27	1,270	12,000	10,700	3,460	2,840	5,250	21,100	3,820	1,870	1,150	2,790	838
28	1,230	11,400	8,760	7,460	2,860	5,470	43,400	4,940	1,890	1,140	2,200	776
29	1,230	9,150	7,530	11,000	-----	5,130	40,700	12,900	2,800	1,380	1,750	720
30	1,270	7,930	6,500	10,000	-----	4,660	22,300	13,600	3,560	1,080	1,420	698
31	1,410	-----	5,850	8,120	-----	4,480	-----	9,770	-----	888	1,200	-----
TOTAL	124,315	236,820	469,840	157,980	225,530	200,690	456,190	196,070	113,390	36,262	60,769	28,463
MEAN	4,010	7,894	15,160	5,096	8,055	6,474	15,210	6,325	3,780	1,170	1,960	949
MAX	32,500	19,200	46,400	11,000	27,800	12,000	43,400	15,400	7,900	2,850	5,500	2,000
MIN	681	1,510	5,850	2,810	2,840	2,900	4,750	2,600	1,870	783	713	564
CFSM	.98	1.94	3.72	1.25	1.98	1.59	3.73	1.55	.93	.29	.48	.23
IN.	1.14	2.16	4.29	1.44	2.06	1.83	4.17	1.79	1.04	.33	.56	.26

CAL YR 1972 TOTAL 2,772,166 MEAN 7,574 MAX 108,000 MIN 490 CFSM 1.86 IN 25.32
WTR YR 1973 TOTAL 2,306,319 MEAN 6,319 MAX 46,400 MIN 564 CFSM 1.55 IN 21.06

PEAK DISCHARGE (BASE, 23,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	1415	17.98	40,900	4-5	1245	13.23	23,200
12-10	0515	20.14	50,400	4-11	0315	14.65	28,100
12-23	0845	17.94	40,800	4-28	2115	21.06	54,600
2-3	2115	16.62	35,400				

01614000 Back Creek near Jones Springs, W. Va.

LOCATION.--Lat 39°30'43", long 78°02'15", Berkeley County, on left bank at downstream side of highway bridge, 1.3 mi (2.1 km) southeast of Tomahawk, 3.5 mi (5.6 km) northeast of village of Jones Springs, 9.0 mi (14.5 km) upstream from Tilhance Creek, and at mile 11.6 (18.7 km).

DRAINAGE AREA.--243 mi² (629 km²).

PERIOD OF RECORD.--July 1928 to September 1931 (published as "near Hedgesville"), August 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 416.42 ft (126.925 m) above mean sea level, Corps of Engineers bench mark. Prior to Sept. 30, 1931, nonrecording gage at highway bridge 5.0 mi (8.0 km) downstream at different datum. Aug. 30, 1938, to Oct. 16, 1956, nonrecording gage, crest-stage gage since March 1940, at present site and datum.

AVERAGE DISCHARGE.--38 years, 195 ft³/s (5.522 m³/s), 10.90 in/yr (277 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,210 ft³/s (148 m³/s) Dec. 9, gage height, 12.12 ft (3.694 m), from rating curve extended as explained below; minimum, 17 ft³/s (0.48 m³/s) Aug. 9, 10; minimum gage height, 1.70 ft (0.518 m) June 28.

Period of record: Maximum discharge, 22,400 ft³/s (634 m³/s) Oct. 15, 1942, gage height, 25.17 ft (7.672 m), from floodmarks, from rating curve extended above 6,200 ft³/s (176 m³/s) on basis of current-meter measurement of 14,500 ft³/s (411 m³/s) made at Hedgesville; minimum observed, 0.9 ft³/s (0.03 m³/s) Aug. 6, 1930.

Flood of Mar. 17 or 18, 1936, reached a stage of 25.0 ft (7.62 m), present datum, from floodmarks, discharge, 22,000 ft³/s (623 m³/s), from rating curve extended as explained above.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 851: 1930(M).

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	28	47	314	294	436	116	219	581	396	68	23	39
2	27	46	317	251	811	114	745	453	294	55	23	34
3	23	72	348	218	1,720	115	733	400	225	53	28	30
4	22	61	352	478	1,040	155	808	399	192	50	28	27
5	22	51	317	718	703	178	1,550	320	682	49	23	24
6	37	44	327	582	537	368	874	265	462	44	21	23
7	70	41	481	451	495	408	614	223	338	41	19	22
8	112	170	549	356	664	409	853	200	247	37	19	22
9	61	288	3,810	321	835	401	1,190	227	178	35	18	22
10	44	138	1,970	284	640	357	1,160	224	145	38	18	22
11	36	98	1,300	223	487	319	1,020	184	122	45	19	22
12	33	82	810	190	388	302	718	156	108	28	21	22
13	31	67	612	163	350	258	606	139	96	27	27	21
14	31	324	455	143	300	222	474	124	89	23	22	32
15	32	593	597	149	308	203	394	112	78	25	39	49
16	31	359	1,470	138	348	190	345	104	73	25	55	46
17	31	231	776	130	227	235	322	101	73	45	39	34
18	31	172	528	125	210	302	391	114	76	42	33	29
19	35	160	433	123	200	242	376	105	80	34	27	28
20	37	1,010	389	132	195	209	342	100	73	30	64	28
21	42	743	352	121	184	193	304	130	67	31	62	27
22	43	470	2,220	120	175	184	275	114	64	47	230	26
23	41	352	2,200	296	164	170	259	95	65	57	140	25
24	40	275	1,140	285	151	152	290	90	68	61	89	25
25	41	225	772	238	136	144	351	164	61	50	72	25
26	41	996	605	213	127	159	1,590	197	58	42	330	24
27	40	1,040	512	415	126	173	1,700	177	54	38	150	23
28	43	597	426	1,060	120	146	2,490	964	62	80	100	23
29	54	433	345	943	-----	125	1,240	1,490	110	57	71	25
30	61	338	297	735	-----	126	749	772	92	36	54	25
31	51	-----	288	546	-----	132	-----	557	-----	28	45	-----
TOTAL	1,271	9,523	25,312	10,441	12,077	6,807	23,022	9,281	4,728	1,321	1,909	824
MEAN	41.0	317	817	337	431	220	767	299	158	42.6	61.6	27.5
MAX	112	1,040	3,810	1,060	1,720	409	2,490	1,490	682	80	330	49
MIN	22	41	288	120	120	114	219	90	54	23	18	21
CFS ^W	.17	1.30	3.36	1.39	1.77	.91	3.16	1.23	.65	.18	.25	.11
IN.	.19	1.46	3.87	1.60	1.85	1.04	3.52	1.42	.72	.20	.29	.13

CAL YR 1972 TOTAL 153,963 MFAN 421 MAX 11,200 MIN 18 CFSM 1.73 IN 23.57
WTR YR 1973 TOTAL 106,516 MFAN 292 MAX 3,810 MIN 18 CFSM 1.20 IN 16.31

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1500	12.12	5,210	4-28	0600	9.35	3,210
12-22	2130	10.26	3,780				

01616500 Opequon Creek near Martinsburg, W.Va.

LOCATION.--Lat 39°25'25", long 77°56'20", Berkeley County, on right bank 300 ft (91 m) upstream from Evans Run, 2.3 mi (3.7 km) upstream from Tuscarora Creek, 3.0 mi (4.8 km) southeast of Martinsburg, and at mile 11.1 (17.9 km).

DRAINAGE AREA.--272 mi² (704 km²).

PERIOD OF RECORD.--May 1905 to July 1906, July 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 354.89 ft (108.170 m) above mean sea level. Prior to July 1906, nonrecording gage at approximately the same site at different datum. July 23, 1947 to July 22, 1948, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--26 years (1947-73), 213 ft³/s (6.032 m³/s), 10.63 in/yr (207 mm/yr).

EXTREMES.--Current year: Maximum, discharge, 7,000 ft³/s (198 m³/s) Dec. 9, gage height, 13.09 ft (3.990 m), from floodmark; minimum daily, 76 ft³/s (2.15 m³/s) Nov. 13.
 Period of record: Maximum discharge, 19,000 ft³/s (538 m³/s) June 22, 1972, gage height, 17.45 ft (5.319 m); from rating curve extended above 7,100 ft³/s (201 m³/s); minimum observed, 25 ft³/s (0.71 m³/s) Oct. 25, 1947; minimum gage height, 1.24 ft (0.378 m) Jan. 8, 1956.
 Flood in March 1936 reached a stage of about 17.5 ft (5.33 m), from information by local residents.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

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

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	108	90	330	429	422	253	316	550	334	214	141	126
2	104	108	400	381	847	251	1,120	493	291	187	150	122
3	101	109	340	350	1,510	255	695	465	266	180	150	119
4	101	95	290	665	820	289	626	460	399	173	138	116
5	99	89	280	654	612	291	1,000	494	1,550	167	133	116
6	120	85	370	501	530	428	570	370	683	167	128	114
7	138	83	540	409	668	401	455	344	440	157	126	114
8	126	223	1,300	362	885	433	902	329	348	153	126	109
9	104	258	4,100	347	882	480	906	363	307	150	138	105
10	99	137	1,400	304	635	404	903	336	281	182	131	107
11	101	108	900	289	505	353	736	309	260	239	162	105
12	101	91	700	272	438	332	567	289	247	171	155	102
13	100	76	510	246	406	307	530	276	241	151	131	102
14	99	1,700	422	242	394	289	453	264	227	148	151	155
15	95	770	702	247	450	281	408	264	218	151	435	175
16	95	350	1,310	243	473	276	382	255	212	162	266	122
17	95	240	591	235	360	325	377	253	219	193	191	112
18	94	190	467	231	334	325	423	264	216	204	166	112
19	104	350	429	231	329	285	394	247	212	162	375	114
20	116	1,500	424	236	323	268	360	243	204	148	219	105
21	104	700	427	214	318	260	329	279	199	171	416	104
22	99	400	2,360	232	316	255	311	245	229	247	692	102
23	96	330	1,880	361	300	245	300	227	249	241	287	102
24	100	270	918	318	289	233	320	229	204	260	214	102
25	95	230	699	270	274	227	370	323	195	184	184	97
26	92	1,100	597	250	270	274	1,490	293	185	167	166	97
27	89	800	555	496	268	264	2,480	260	182	285	153	97
28	101	450	484	882	260	239	2,180	1,010	281	204	146	97
29	134	330	427	1,110	-----	227	900	897	293	160	141	95
30	104	280	396	724	-----	237	662	450	274	148	136	99
31	90	-----	416	497	-----	235	-----	411	-----	141	129	-----
TOTAL	3,204	11,542	25,464	12,228	14,118	9,222	21,365	11,402	9,446	5,662	6,276	3,344
MEAN	103	385	821	394	504	297	712	368	315	183	202	111
MAX	138	1,700	4,100	1,110	1,510	480	2,480	1,010	1,550	285	692	175
MTN	89	76	280	214	260	227	300	227	182	141	126	95
CFSM	.38	1.42	3.02	1.45	1.85	1.09	2.62	1.35	1.16	.67	.74	.41
IN.	.44	1.58	3.48	1.67	1.93	1.26	2.92	1.56	1.29	.77	.86	.46

CAL YR 1972 TOTAL 167,057 MEAN 456 MAX 8,890 MIN 76 CFSM 1.68 IN 22.85
 WTR YR 1973 TOTAL 133,273 MEAN 365 MAX 4,100 MIN 76 CFSM 1.34 IN 18.23

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	unknown	a12.50	5,900	12-22	2200	10.62	3,220
11-20	unknown	a11.28	3,900	4-28	0600	10.41	3,030
12- 9	unknown	a13.09	7,000	6- 5	0400	9.65	2,490

a From floodmark.

NOTE.--No gage-height record
Nov. 12 to Dec. 13.

01617000 Tuscarora Creek above Martinsburg, W. Va.

LOCATION.--Lat 39°28'10", long 77°58'18", Berkeley County, on left bank at Martinsburg, 20 ft (6 m) upstream from culvert on Secondary State Route 10, and at mile 3.7 (6.0 km).

DRAINAGE AREA.--11.3 mi² (29.3 km²).

PERIOD OF RECORD.--October 1948 to September 1963, October 1967 to current year.

GAGE.--Water-stage and rainfall recorders. Concrete dam and culvert control since Oct. 1, 1967. Datum of gage is 445.74 ft (135.862 m) above mean sea level. Prior to Jan. 5, 1949, nonrecording gage and Jan. 5, 1949, to Sept. 30, 1963, water-stage recorder at site 120 ft (37 m) downstream at datum 5.00 ft (1.524 m) higher.

AVERAGE DISCHARGE.--21 years, 10.7 ft³/s (0.303 m³/s), 12.86 in/yr (327 mm/yr).

EXTREMES.--Current year: Maximum discharge, 195 ft³/s (5.52 m³/s) Dec. 8, gage height, 9.64 ft (2.938 m), from rating curve extended above 60 ft³/s (1.70 m³/s) as explained below; minimum 3.7 ft³/s (0.10 m³/s) Sept. 13, gage height, 7.27 ft (2.216 m).
Period of record: Maximum discharge, 450 ft³/s (12.7 m³/s) June 23, 1972, gage height, 11.20 ft (3.414 m), from rating curve extended above 60 ft³/s (1.70 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.2 ft³/s (0.006 m³/s) May 27, 1954, gage height, 0.74 ft (0.226 m), site and datum then in use.

REMARKS.--Records good. Rainfall records collected at site since October 1967 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

REVISIONS (WATER YEARS).--WSP 1202: 1949-50(M).

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	6.5	6.5	16	25	22	19	25	30	23	12	7.7	5.8
2	6.3	6.8	16	23	52	19	26	28	22	12	7.7	5.8
3	6.5	6.8	15	22	43	19	23	30	21	11	7.4	5.6
4	6.5	6.5	15	40	32	21	38	27	20	11	7.4	5.6
5	6.5	6.5	14	29	29	22	32	25	24	11	6.8	5.6
6	6.5	6.3	20	26	29	26	27	24	21	11	6.5	5.4
7	8.3	6.3	18	24	34	23	25	23	21	9.9	6.8	5.4
8	6.8	15	50	23	36	22	43	23	19	9.9	6.8	5.1
9	6.3	7.1	96	22	31	21	33	24	18	9.9	6.5	5.1
10	6.3	6.5	56	21	28	21	42	22	18	10	6.5	5.1
11	6.5	6.3	37	20	26	20	32	21	17	10	6.3	5.1
12	7.1	6.0	31	20	25	20	31	20	17	9.5	7.1	5.1
13	7.1	5.7	28	19	24	19	29	20	16	9.2	7.7	4.9
14	6.4	22	25	19	25	19	27	19	16	8.9	7.1	9.2
15	6.8	13	51	19	29	19	26	19	15	9.5	10	6.8
16	6.8	9.3	35	19	26	19	25	18	15	9.5	7.4	5.8
17	6.8	8.3	27	18	22	20	26	19	16	11	6.8	5.4
18	6.5	8.0	26	18	22	18	27	19	15	8.9	7.1	5.6
19	7.1	13	26	18	22	18	25	18	15	8.6	7.1	5.4
20	7.1	27	25	17	22	17	24	18	15	8.9	6.8	5.4
21	7.1	13	28	16	22	17	23	18	15	9.2	8.6	5.4
22	7.1	12	99	20	21	17	22	17	15	8.9	8.0	5.1
23	6.8	11	51	19	21	16	22	16	14	9.2	7.1	5.1
24	6.8	10	39	18	21	16	22	18	14	8.9	6.8	4.9
25	6.8	10	34	17	20	15	32	20	13	8.6	6.5	4.9
26	6.5	45	33	17	20	17	39	18	13	8.6	6.3	4.9
27	6.5	20	30	30	20	16	62	18	12	8.3	6.3	4.9
28	7.1	17	27	24	19	15	48	61	12	8.0	6.3	4.9
29	6.8	16	26	30	-----	15	36	34	14	7.7	6.0	4.9
30	6.5	15	25	23	-----	16	33	27	12	7.7	5.8	4.9
31	6.5	-----	26	23	-----	16	-----	27	-----	7.4	5.8	-----
TOTAL	209.6	361.9	1,045	679	743	578	925	721	498	294.2	217.0	163.1
MEAN	6.76	12.1	33.7	21.9	26.5	18.6	30.8	23.3	16.6	9.49	7.00	5.44
MAX	8.3	45	99	40	52	26	62	61	24	12	10	9.2
MIN	6.3	5.7	14	16	19	15	22	16	12	7.4	5.8	4.9
CFSM	6.0	1.07	2.98	1.44	2.35	1.65	2.73	2.06	1.47	.84	.62	.48
IN./	.69	1.19	3.44	2.24	2.45	1.90	3.05	2.37	1.64	.97	.71	.54
IN./	1.79	5.70	6.15	2.83	2.28	2.21	5.36	4.16	3.30	2.35	3.72	3.06

CAL YR 1972 TOTAL 8,961.8 MEAN 24.5 MAX 317 MIN 5.7 CFSM 2.17 IN./ 29.50
WTR YR 1973 TOTAL 6,434.8 MEAN 17.6 MAX 99 MIN 4.9 CFSM 1.56 IN./ 21.18

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	0715	8.97	117	12-22	0745	9.16	137
12- 8	2215	9.64	195	4-27	1500	8.85	105
12-15	1530	8.88	108	5-28	0730	8.92	112

/ Runoff.
// Rainfall.

01618000 Potomac River at Shepherdstown, W. Va.

LOCATION.--Lat 39°26'04", long 77°48'07", Jefferson County, on right bank 0.1 mi (0.2 km) downstream from Rumsey Bridge at Shepherdstown, 3.3 mi (5.3 km) upstream from Antietam Creek, and at mile 184 (296 km).

DRAINAGE AREA.--5,936 mi² (15,374 km²).

PERIOD OF RECORD.--August 1928 to September 1953. Annual maximums, water years 1954-64. July 1964 to current year. Gage-height record and estimated discharges October 1953 to June 1964 available in files of Maryland district office.

GAGE.--Water-stage recorder. Datum of gage is 281.00 ft (85.649 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--34 years (1928-53, 1964-73), 5,908 ft³/s (167.3 m³/s), 13.52 in/yr (343 mm/yr).

EXTREMES.--Current year: Maximum discharge, 65,000 ft³/s (1,840 m³/s) Apr. 29, gage height, 17.06 ft (5.200 m); minimum daily, 1,100 ft³/s (312 m³/s) Sept. 12.
 Period of record: Maximum discharge, 335,000 ft³/s (9,490 m³/s) Mar. 19, 1936, gage height, 42.1 ft (12.83 m), from floodmarks, from rating curve extended above 200,000 ft³/s (5,660 m³/s) on basis of slope-area measurement of peak flow; minimum, 170 ft³/s (4.81 m³/s) Aug. 1, 1966; minimum daily, 185 ft³/s (5.24 m³/s) July 31, 1966.
 Floods in June 1889 and May 1924 reached stages of 39.2 ft (11.95 m) and 29.8 ft (9.08 m) respectively, from floodmarks, discharges, about 290,000 ft³/s (8,210 m³/s) and 168,000 ft³/s (4,760 m³/s) respectively, from rating curve extended as explained above.

REMARKS.--Records good. Some regulation at low flow by powerplants upstream from station, Stony River Reservoir (see sta 01595200), and since December 1950 by Savage River Reservoir.

REVISIONS (WATER YEARS).--WSP 756: Drainage area. WSP 781: 1929(M).

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	1,400	2,450	10,100	9,720	11,800	4,930	6,700	24,500	13,400	5,760	1,650	2,200
2	1,400	2,860	9,570	9,440	11,900	4,950	19,000	18,700	10,800	4,480	1,510	1,900
3	1,300	2,980	9,490	8,670	32,500	5,040	24,000	15,500	8,870	3,730	1,940	1,700
4	1,200	3,410	9,890	9,190	45,000	5,610	20,200	13,800	7,980	3,310	2,930	1,800
5	1,200	4,250	9,800	14,100	30,100	7,790	31,000	12,500	8,940	3,150	2,470	1,900
6	1,200	4,040	10,100	16,300	21,100	10,900	31,600	10,000	8,970	3,370	2,000	1,700
7	30,000	3,660	16,300	13,100	17,300	13,700	22,500	9,000	11,300	2,800	1,720	1,300
8	50,000	4,440	20,100	10,800	15,900	14,200	18,600	8,500	13,000	2,500	1,600	1,400
9	25,000	6,900	31,700	9,170	17,300	13,900	29,000	8,000	9,350	2,290	1,440	1,400
10	15,000	14,500	62,400	7,790	17,900	12,900	36,200	11,000	7,220	2,160	1,300	1,300
11	10,000	11,400	51,900	7,000	15,300	11,500	36,600	10,000	5,950	2,100	1,390	1,200
12	8,000	8,950	38,800	6,800	12,600	10,300	31,500	9,000	5,120	2,190	1,440	1,100
13	6,000	7,480	27,900	6,200	10,600	9,660	23,600	8,000	6,260	2,150	1,560	1,200
14	5,000	7,750	21,700	5,850	9,730	8,830	19,100	7,500	6,000	1,950	1,790	1,600
15	4,500	12,300	17,500	5,420	9,780	8,090	15,900	7,000	5,970	1,940	2,340	3,000
16	4,000	20,800	25,900	5,400	9,960	7,510	14,300	6,200	4,850	1,870	3,490	4,200
17	3,500	15,300	29,800	5,510	9,470	7,260	13,100	5,810	4,200	1,890	3,620	3,400
18	3,000	11,300	20,600	5,380	8,430	9,390	12,700	5,650	3,910	1,790	3,720	3,000
19	2,600	9,320	15,400	5,350	7,090	15,700	12,400	5,530	3,930	1,750	4,550	2,800
20	2,400	11,700	13,600	5,440	6,720	13,700	11,300	5,260	5,760	1,810	6,110	3,350
21	2,200	23,800	12,600	5,240	6,730	11,200	10,200	5,240	4,880	1,780	5,760	3,010
22	2,200	20,800	16,600	5,280	7,220	9,910	9,310	5,060	4,420	1,760	8,680	2,530
23	2,400	14,800	45,700	5,790	6,570	9,130	8,810	4,700	5,500	1,820	8,260	2,060
24	2,400	11,900	42,000	6,550	5,920	8,310	9,370	4,390	4,180	1,910	6,090	1,980
25	2,200	9,890	28,100	6,660	5,730	7,570	10,700	4,800	4,030	2,150	4,780	1,910
26	2,000	10,400	21,400	6,450	5,430	7,330	18,300	6,040	4,790	2,060	3,980	1,780
27	2,000	17,800	17,600	6,610	5,120	7,320	30,100	6,320	3,690	2,050	4,580	1,760
28	2,200	17,700	14,400	11,100	4,970	7,340	46,800	8,720	3,480	2,020	3,940	1,770
29	2,400	13,900	12,300	17,500	-----	7,280	59,100	21,800	5,090	1,880	3,440	1,630
30	2,200	11,600	10,900	18,700	-----	6,860	36,800	23,200	7,410	2,000	3,000	1,620
31	2,200	-----	9,870	14,600	-----	6,590	-----	17,700	-----	1,800	2,600	-----
TOTAL	201,100	318,380	684,020	271,110	368,170	284,700	668,790	309,420	199,250	74,220	103,680	61,500
MEAN	6,487	10,610	22,070	8,745	13,150	9,184	22,290	9,981	6,642	2,394	3,345	2,050
MAX	50,000	23,800	62,400	18,700	45,000	15,700	59,100	24,500	13,400	5,760	8,680	4,200
MIN	1,200	2,450	9,490	5,240	4,970	4,930	6,700	4,390	3,480	1,750	1,300	1,100
CFSM	1.09	1.79	3.72	1.47	2.22	1.55	3.76	1.68	1.12	.40	.56	.35
IN.	1.26	2.00	4.29	1.70	2.31	1.78	4.19	1.94	1.25	.47	.65	.39

CAL YR 1972 TOTAL 4,270,780 MEAN 11,670 MAX 172,000 MIN 950 CFSM 1.97 IN 26.76
 WTR YR 1973 TOTAL 3,544,340 MEAN 9,711 MAX 62,400 MIN 1,100 CFSM 1.64 IN 22.21

PEAK DISCHARGE (BASE, 23,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 8	unknown	-	unknown	2- 4	0600	14.10	48,300
11-21	1630	9.65	26,600	4- 5	2030	11.96	37,400
12-10	0930	17.02	64,800	4-11	1630	12.12	38,200
12-17	0030	11.27	34,800	4-29	0500	17.06	65,000
12-23	1830	15.10	53,800	5-29	1930	9.09	24,100

01636500 Shenandoah River at Millville, W. Va.

LOCATION.--Lat 39°16'55", long 77°47'22", Jefferson County, on left bank 0.4 mi (0.6 km) downstream from Cattail Run, 1.0 mi (1.6 km) upstream from Millville, 5.0 mi (8.0 km) upstream from Harpers Ferry, and at mile 5.0 (8.0 km).

DRAINAGE AREA.--3,040 mi² (7,874 km²).

PERIOD OF RECORD.--April 1895 to March 1909, August 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 293.00 ft (89.306 m) above mean sea level, adjustment of 1912. Apr. 15, 1895, to Mar. 31, 1909, nonrecording gage at site 0.8 mi (1.3 km) downstream at datum 0.32 ft (0.098 m) higher.

AVERAGE DISCHARGE.--58 years (1895-1908, 1928-73), 2,655 ft³/s (75.19 m³/s), 11.86 in/yr (301 mm/yr).

EXTREMES.--Current year: Maximum discharge, 86,200 ft³/s (2,440 m³/s) Oct. 7, gage height, 20.02 ft (6.102 m); minimum, 558 ft³/s (15.8 m³/s) July 16, gage height, 1.44 ft (0.439 m), minimum daily discharge, 732 ft³/s (20.7 m³/s) Sept. 29.

Period of record: Maximum discharge, 230,000 ft³/s (6,510 m³/s) Oct. 16, 1942, gage height, 32.4 ft (9.88 m), from floodmarks; minimum, about 59 ft³/s (1.67 m³/s) Oct. 4, 1930, gage height, 0.39 ft (0.119 m); minimum daily, 194 ft³/s (5.49 m³/s) July 24, 1930.

Flood of 1870 reached practically same stage as flood of Mar. 18, 1936, 26.36 ft (8.035 m), discharge, 151,000 ft³/s (4,280 m³/s).

REMARKS.--Records good. Regulation by hydroelectric plants, particularly that of Potomac Light and Power Co., 0.5 mi (0.8 km) upstream from station.

REVISIONS (WATER YEARS).--WSP 951: 1936(M). WSP 1432: Drainage area at former site, 1895-99, 1901-2, 1905, 1907-8, 1932(M), 1935(M).

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	1,070	2,940	6,220	5,170	5,770	2,920	4,890	9,000	6,080	2,540	1,220	1,240
2	1,060	3,060	6,020	5,030	5,780	2,870	8,360	7,390	4,900	2,270	1,000	1,150
3	1,100	3,530	5,590	4,620	16,000	2,860	11,700	6,390	4,120	1,960	1,250	1,100
4	1,160	3,500	5,000	4,520	22,400	2,970	9,430	5,780	3,610	1,830	1,200	1,020
5	1,060	3,250	4,600	5,030	13,800	3,180	8,850	5,310	3,340	1,730	1,150	1,120
6	6,560	3,010	4,350	5,410	10,000	3,900	8,120	4,780	3,990	1,660	1,140	972
7	70,700	2,810	4,770	4,960	8,610	4,990	6,990	4,310	6,200	1,530	977	1,270
8	38,900	3,170	6,540	4,600	8,330	5,770	6,950	4,000	4,980	1,580	1,070	917
9	15,500	6,350	11,800	4,240	8,000	6,200	9,800	3,850	4,060	1,400	1,030	959
10	9,400	8,020	13,700	4,010	7,260	6,570	11,600	3,800	3,450	1,370	1,000	908
11	6,690	6,330	11,500	3,820	6,480	6,080	11,200	3,840	3,040	1,370	1,280	899
12	5,210	5,230	9,540	3,640	5,800	5,520	9,730	3,630	2,720	1,410	1,450	894
13	4,330	4,450	8,040	3,440	5,310	5,000	8,300	3,460	2,390	1,300	1,120	855
14	3,740	4,820	7,060	3,310	4,990	4,550	7,480	3,320	2,240	1,270	1,210	1,120
15	3,300	16,000	6,580	3,200	4,920	4,160	6,710	3,160	2,100	1,270	1,170	1,210
16	2,950	16,500	8,580	3,180	5,310	3,910	6,020	3,000	1,970	1,260	1,220	1,120
17	2,730	9,920	10,200	3,100	5,440	4,300	5,530	2,880	1,860	1,550	1,420	1,080
18	2,490	7,450	7,970	3,030	4,780	6,940	5,310	2,860	1,920	1,510	1,550	1,160
19	2,450	6,290	6,780	2,940	4,330	11,700	5,290	2,760	1,890	1,470	1,430	990
20	2,450	8,350	6,220	2,980	4,160	8,490	5,020	2,710	2,270	1,320	1,570	923
21	2,460	16,600	5,850	2,990	4,050	6,780	4,590	2,650	2,230	1,330	2,430	853
22	2,450	11,800	8,580	3,050	3,900	5,940	4,290	2,560	1,990	1,520	3,220	834
23	2,270	8,860	18,300	3,590	3,720	5,470	4,060	2,420	2,010	1,570	2,870	835
24	2,150	7,260	16,300	5,780	3,570	5,030	3,940	2,340	2,640	1,650	2,190	848
25	2,050	6,200	11,600	6,050	3,390	4,660	3,820	2,560	2,740	1,650	1,830	881
26	1,960	6,180	9,280	5,180	3,260	4,530	5,480	2,670	2,360	1,470	2,680	810
27	1,920	10,900	7,990	4,730	3,120	4,920	7,410	2,660	2,080	2,190	3,150	828
28	2,010	11,200	7,060	6,510	3,000	6,030	14,500	3,080	2,020	2,360	2,230	823
29	2,760	8,500	6,270	8,610	-----	5,550	20,200	8,950	2,530	1,550	1,810	732
30	3,840	7,020	5,610	7,920	-----	5,110	12,700	13,000	2,950	1,230	1,640	831
31	3,400	-----	5,190	6,710	-----	4,800	-----	8,220	-----	1,010	1,450	-----
TOTAL	210,120	219,500	253,090	141,350	185,480	161,700	238,270	137,340	90,680	49,130	49,957	29,182
MEAN	6,778	7,317	8,164	4,560	6,624	5,216	7,942	4,430	3,023	1,585	1,612	973
MAX	70,700	16,600	18,300	8,610	22,400	11,700	20,200	13,000	6,200	2,540	3,220	1,270
MIN	1,060	2,810	4,350	2,940	3,000	2,860	3,820	2,340	1,860	1,010	977	732
CFSM	2.23	2.41	2.69	1.50	2.18	1.72	2.61	1.46	.99	.52	.53	.32
IN.	2.57	2.69	3.10	1.73	2.27	1.98	2.92	1.68	1.11	.60	.61	.36

CAL YR 1972 TOTAL 1,859,699 MEAN 5,081 MAX 97,300 MIN 919 CFSM 1.67 IN 22.76
WTR YR 1973 TOTAL 1,765,799 MEAN 4,838 MAX 70,700 MIN 732 CFSM 1.59 IN 21.61

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 7	1700	20.02	86,200	2- 4	0115	11.19	26,400
11-15	2130	10.32	22,400	4-29	0500	10.39	22,800
11-21	1145	9.49	19,000	5-30	0100	8.55	15,500
12-23	1645	10.22	22,000				

01638500 Potomac River at Point of Rocks, Md.

LOCATION.--Lat 39°16'25", long 77°32'35", Frederick County, on left bank at downstream side of bridge on U.S. Highway 15 at Point of Rocks, 0.3 mi (0.5 km) downstream from Catoctin Creek (Virginia), 6.0 mi (9.7 km) upstream from Monocacy River, and at mile 159.5 (256.6 km).

DRAINAGE AREA.--9,651 mi² (24,996 km²).

PERIOD OF RECORD.--February 1895 to current year.

GAGE.--Water-stage recorder. Datum of gage is 200.54 ft (61.125 m) above mean sea level, adjustment of 1912. Prior to October 28, 1929, nonrecording gage at same site. Prior to Sept 2, 1902, at datum about 0.45 ft (0.137 m) higher.

AVERAGE DISCHARGE.--78 years, 9,251 ft³/s (262.0 m³/s), 13.02 in/yr (331 mm/yr).

EXTREMES.--Current year: Maximum discharge, 106,000 ft³/s (3,000 m³/s) Oct. 8, gage height, 18.28 ft (5.572 m); minimum, 2,220 ft³/s (62.9 m³/s) Sept. 13, 14, gage height, 1.18 ft (0.360 m).
Period of record: Maximum discharge, 480,000 ft³/s (13,600 m³/s) Mar. 19, 1936, gage height, 41.03 ft (12.506 m), from rating curve extended above 300,000 ft³/s (8,500 m³/s) on the basis of adjustment of figure of peak flow at station near Washington for inflow and storage, and slope-area measurement of peak flow; minimum, 530 ft³/s (15.0 m³/s) Sept. 11, 12, 1966, gage height, 0.27 ft (0.082 m).
Flood of June 2, 1889, reached a stage of 40.2 ft (12.25 m), from floodmarks, discharge, about 460,000 ft³/s (13,000 m³/s), from rating curve extended as explained above.

REMARKS.--Records good. Low flow affected slightly since 1913 by Stony River Reservoir (see sta 01595200) and since December 1950 by Savage River Reservoir. Low flow affected extensively at times by run-of-the river hydroelectric plants.

REVISIONS (WATER YEARS).--WSP 192: 1895-1905. WSP 1432: 1899, 1901-2, 1904-5, 1912, 1914(M), 1915, 1917(M), 1918, 1919(M), 1920, 1921-23(M), 1924, 1925-28(M), 1930(M).

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	2,460	5,320	18,000	16,100	20,200	8,670	13,600	39,800	23,700	10,500	3,300	3,750
2	2,510	5,350	16,700	15,500	20,200	8,630	20,000	31,000	18,800	8,560	3,140	3,340
3	2,540	6,000	16,100	14,300	41,700	8,730	35,200	25,700	15,500	7,230	3,190	3,110
4	2,660	6,430	15,900	14,300	72,000	9,410	34,500	22,500	14,400	6,390	4,190	2,920
5	2,540	7,770	15,500	18,800	50,800	11,100	39,400	20,500	16,000	6,140	4,470	2,980
6	2,490	7,380	15,500	23,900	36,200	15,400	44,200	18,300	15,200	6,090	3,840	2,920
7	59,000	6,670	20,200	20,600	29,800	19,300	33,800	16,200	18,000	5,650	3,360	3,060
8	85,900	7,480	29,500	17,400	26,800	21,900	29,300	14,700	20,900	5,010	3,070	2,670
9	42,300	10,800	43,300	15,100	27,300	22,400	39,300	14,000	16,800	4,580	2,980	2,360
10	24,200	23,400	78,300	13,200	27,900	21,600	50,800	15,200	13,300	4,290	2,830	2,420
11	16,500	19,800	70,500	12,000	24,500	19,700	50,300	16,600	11,200	4,270	2,710	2,390
12	12,400	15,600	53,500	11,500	20,700	17,700	44,200	15,400	9,800	4,140	3,440	2,360
13	10,100	12,900	39,900	10,500	17,700	16,300	35,200	13,900	9,210	4,220	3,130	2,270
14	8,720	13,200	31,800	10,000	16,200	15,000	29,200	12,900	11,100	3,890	3,310	2,890
15	7,670	23,800	27,500	9,420	16,000	13,700	25,100	12,000	9,440	3,800	3,520	4,270
16	6,590	39,600	32,900	9,400	16,400	12,700	22,300	11,000	8,800	3,730	4,050	6,430
17	5,930	29,600	43,300	9,590	16,200	12,800	20,600	10,300	7,670	3,980	4,080	4,950
18	5,360	21,300	32,600	9,390	14,500	15,900	20,000	10,100	7,190	4,120	5,140	4,750
19	5,070	17,100	25,000	9,190	12,800	27,600	19,600	9,860	7,050	3,820	4,970	3,980
20	4,980	19,600	21,800	9,130	12,100	25,600	18,900	9,530	8,510	3,660	7,700	4,610
21	4,750	37,700	20,400	8,830	12,000	20,600	17,100	9,380	9,180	3,670	8,830	4,430
22	4,730	37,200	26,900	9,070	12,000	17,900	15,700	9,130	8,300	4,010	11,900	3,790
23	4,510	27,000	58,600	10,000	11,600	16,300	14,900	8,660	9,130	4,110	12,900	3,350
24	4,440	21,300	67,500	12,700	10,700	15,100	14,700	8,160	8,320	3,980	9,520	3,080
25	4,220	17,700	45,800	13,900	10,100	13,900	16,100	8,770	8,360	4,330	7,280	3,040
26	4,000	17,900	35,200	12,700	9,640	13,400	22,200	9,860	8,360	4,240	6,190	2,910
27	3,860	27,300	29,000	12,000	9,230	13,500	38,900	10,600	7,530	4,020	8,490	2,790
28	4,170	31,700	24,500	16,300	8,830	14,700	56,300	14,000	6,700	5,900	7,090	2,760
29	4,540	25,500	20,700	28,000	-----	14,500	86,500	27,800	8,170	4,220	5,810	2,700
30	5,780	20,700	18,100	30,000	-----	13,700	59,300	39,700	12,100	3,710	4,930	2,570
31	6,010	-----	16,500	24,900	-----	13,000	-----	31,700	-----	3,460	4,310	-----
TOTAL	360,930	563,100	1,011,000	447,720	604,100	490,740	967,200	517,250	348,720	149,720	163,670	99,850
MEAN	11,640	18,770	32,610	14,440	21,580	15,830	32,240	16,690	11,620	4,830	5,280	3,328
MAX	85,900	39,600	78,300	30,000	72,000	27,600	86,500	39,800	23,700	10,500	12,900	6,430
MIN	2,460	5,320	15,500	8,830	8,830	8,630	13,600	8,160	6,700	3,460	2,710	2,270
CFSM	1.21	1.94	3.38	1.50	2.24	1.64	3.34	1.73	1.20	.50	.55	.34
IN.	1.39	2.17	3.90	1.73	2.33	1.89	3.73	1.99	1.34	.58	.63	.38
CAL YR 1972	TOTAL 6,780,580		MEAN 18,530		MAX 296,000		MIN 2,160		CFSM 1.92		IN 26.14	
WTR YR 1973	TOTAL 5,724,000		MEAN 15,680		MAX 86,500		MIN 2,270		CFSM 1.62		IN 22.06	

PEAK DISCHARGE (BASE, 35,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 8	0400	18.28	106,000	2- 4	1100	14.65	76,200
11-16	0900	9.51	41,600	4- 5	2400	10.63	48,300
11-21	1930	10.02	44,600	4-10	0500	11.32	52,600
12-10	1530	15.62	84,000	4-29	1100	16.58	91,600
12-17	0700	10.20	45,700	5-30	0800	9.38	40,800
12-23	2330	15.04	79,300				

OHIO RIVER BASIN
MONONGAHELA RIVER BASIN

03050000 Tygart Valley River near Dailey, W. Va.

LOCATION.--Lat 38°48'35", long 79°52'55", Randolph County, on right bank 50 ft (15 m) downstream from highway bridge, 1,000 ft (305 m) upstream from Stalnaker Run, 1.0 mi (1.6 km) northeast of Dailey, 2.5 mi (4.0 km) south of Beverly, and at mile 95.7 (154.0 km).

DRAINAGE AREA.--187 mi² (484 km²).

PERIOD OF RECORD.--April 1915 to current year. Prior to October 1960, published as Tygart River near Dailey.

GAGE.--Water-stage recorder. Datum of gage is 1,940.09 ft (591.339 m) above mean sea level, adjustment of 1912. Prior to Sept. 27, 1928, nonrecording gage a few feet upstream at same datum. Sept. 27, 1928, to Dec. 16, 1941, nonrecording gage, at site 50 ft (15 m) upstream at same datum.

AVERAGE DISCHARGE.--58 years, 347 ft³/s (9.827 m³/s), 25.20 in/yr (640 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,820 ft³/s (278 m³/s) Dec. 9, gage height, 12.55 ft (3.825 m); minimum, 8.5 ft³/s (0.24 m³/s) Sept. 13, gage height, 0.54 ft (0.165 m).
Period of record: Maximum discharge, 13,100 ft³/s (371 m³/s) Feb. 4, 1932, gage height, 17.2 ft (5.24 m), from floodmarks; no flow Sept. 12 to Nov. 30, 1930, Sept. 29 to Nov. 5, 1953.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 873: 1932(M). WSP 1053: 1918(M), 1928(M), 1932, 1934-38. WSP 1305: 1924(M).

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	150	591	447	211	292	501	369	568	276	60	46	19
2	95	2,740	360	189	777	497	866	408	209	131	44	17
3	79	1,140	390	186	1,060	525	887	457	165	92	36	14
4	51	630	525	580	722	661	816	664	186	84	30	12
5	280	428	624	587	529	524	991	502	297	74	25	11
6	3,000	307	1,190	454	441	487	849	381	207	54	21	25
7	1,940	248	1,740	326	547	387	693	297	253	42	62	36
8	1,100	1,230	1,650	220	722	344	1,080	256	168	34	46	26
9	525	1,900	7,500	180	930	289	1,300	792	131	31	31	19
10	304	1,060	4,210	160	657	248	1,240	732	102	26	50	15
11	209	673	2,990	150	474	221	947	568	84	23	225	13
12	194	484	1,130	140	330	214	743	460	71	22	112	11
13	289	387	747	130	280	184	661	363	544	23	123	9.2
14	245	908	550	120	250	166	677	276	245	20	339	24
15	196	1,740	1,510	130	584	177	964	224	140	26	411	71
16	159	960	1,760	127	669	227	1,160	186	76	25	216	49
17	144	606	895	140	450	402	1,320	170	81	67	131	32
18	121	428	603	136	380	697	1,840	172	200	46	102	26
19	182	444	474	163	340	630	1,020	140	150	29	99	25
20	224	1,670	820	393	301	726	649	138	95	33	72	21
21	201	1,110	1,180	341	264	739	467	237	110	26	89	17
22	196	710	2,810	322	245	722	369	219	220	61	158	15
23	186	501	1,730	470	220	618	319	204	180	146	116	47
24	179	378	912	357	211	689	464	224	110	219	81	97
25	157	335	603	275	209	904	441	540	83	169	63	48
26	140	595	450	232	269	1,040	661	620	69	172	58	32
27	125	705	375	250	437	1,890	1,010	438	61	147	47	23
28	129	573	295	381	501	1,150	2,670	704	59	86	39	18
29	177	554	242	393	-----	697	1,620	956	90	110	33	21
30	272	511	214	326	-----	501	852	548	72	85	28	131
31	272	-----	216	298	-----	384	-----	390	-----	57	24	-----
TOTAL	11,521	24,546	39,342	8,367	13,091	17,441	27,945	12,834	4,734	2,220	2,957	924.2
MEAN	372	818	1,269	270	468	563	932	414	158	71.6	95.4	30.8
MAX	3,000	2,740	7,500	587	1,060	1,890	2,670	956	544	219	411	131
MIN	51	248	214	120	209	166	319	138	59	20	21	9.2
CFSM	1.99	4.37	6.79	1.44	2.50	3.01	4.98	2.21	.84	.38	.51	.16
IN,	2.29	4.88	7.83	1.66	2.60	3.47	5.56	2.55	.94	.44	.59	.18

CAL YR 1972 TOTAL 240,725.0 MEAN 658 MAX 7,500 MIN 13 CFSM 3.52 IN 47.89

WTR YR 1973 TOTAL 165,922.2 MEAN 455 MAX 7,500 MIN 9.2 CFSM 2.43 IN 33.01

PEAK DISCHARGE (BASE, 4,000 CFS).--Dec. 9 (1000) 9,820 cfs (12.55 ft).

03050500 Tygart Valley River near Elkins, W. Va.

LOCATION.--Lat 38°55'30", long 79°52'45", Randolph County, on left bank 1.4 mi (2.3 km) upstream from Leading Creek, 1.5 mi (2.4 km) west of Elkins, and at mile 78.3 (126.0 km).

DRAINAGE AREA.--272 mi² (704 km²).

PERIOD OF RECORD.--October 1944 to current year. Prior to October 1960, published as Tygart River near Elkins.

GAGE.--Water-stage recorder. Datum of gage is 1,893.95 ft (577.276 m) above mean sea level, adjustment of 1912. Prior to Nov. 16, 1944, nonrecording gage and Nov. 16, 1944, to Sept. 30, 1951, water-stage recorder at site 200 ft (61 m) upstream at same datum.

AVERAGE DISCHARGE.--29 years, 536 ft³/s (15.18 m³/s), 26.76 in/yr (680 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,700 ft³/s (303 m³/s) Dec. 9, gage height, 14.37 ft (4.380m); minimum, 5.9 ft³/s (0.17 m³/s) Sept. 29, gage height, 1.14 ft (0.347 m).
Period of record: Maximum discharge, 13,100 ft³/s (371 m³/s) Dec. 31, 1969, gage height, 15.65 ft (4.770 m); minimum daily, 0.1 ft³/s (0.003 m³/s) Sept. 20-29, 1959; minimum gage height, 1.01 ft (0.308 m) Sept. 26-28, 1959.

REMARKS.--Records fair. Slight regulation at times by flood-diversion dam upstream from station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	956	602	290	460	732	430	800	424	91	80	40
2	140	3,820	476	258	980	732	1,020	560	308	155	66	38
3	113	1,760	504	243	1,600	752	1,200	512	238	173	65	32
4	75	864	632	884	1,100	916	1,100	832	192	117	60	11
5	421	568	948	1,040	770	796	1,480	695	398	90	51	8.4
6	4,470	400	1,190	752	620	744	1,190	517	387	78	40	20
7	3,320	315	2,540	512	790	599	884	397	514	41	31	36
8	1,830	1,230	1,950	313	1,000	515	1,360	333	288	46	27	44
9	856	3,120	8,120	260	1,410	436	1,740	827	206	82	48	44
10	501	1,640	8,360	226	1,080	358	1,670	1,100	155	58	55	38
11	323	944	5,430	208	600	313	1,260	776	121	36	180	16
12	248	664	1,710	200	430	298	960	633	104	32	169	13
13	355	508	976	186	350	258	852	482	487	51	155	14
14	339	964	700	173	320	224	888	370	310	53	515	41
15	260	2,670	1,340	190	752	220	1,160	300	184	40	729	75
16	197	1,430	2,890	190	1,040	260	1,360	249	108	13	418	100
17	171	860	1,300	200	688	358	1,600	216	117	18	308	80
18	147	582	808	190	504	900	2,630	220	300	60	238	36
19	173	490	652	230	470	908	1,360	191	226	53	184	13
20	300	2,130	884	660	450	1,010	856	178	132	49	129	40
21	270	1,660	1,510	570	400	1,060	610	259	161	45	140	38
22	255	1,000	3,820	520	350	1,120	470	313	326	43	231	30
23	250	708	2,940	600	320	948	412	274	260	110	220	60
24	245	518	1,450	520	305	960	760	278	159	182	157	136
25	215	439	1,000	390	292	1,310	724	436	122	224	125	124
26	186	836	724	330	375	1,440	928	834	100	184	110	80
27	167	1,020	574	360	624	2,320	1,320	681	90	231	91	44
28	159	796	436	590	740	1,560	3,830	617	85	141	51	10
29	199	736	344	640	-----	900	2,660	1,590	97	136	53	27
30	361	676	298	570	-----	648	1,220	968	92	138	51	253
31	403	-----	290	450	-----	484	-----	614	-----	117	32	-----
TOTAL	17,169	34,304	55,398	12,745	18,820	24,079	37,934	17,052	6,691	2,887	4,809	1,541.4
MEAN	554	1,143	1,787	411	672	777	1,264	550	223	93.1	155	51.4
MAX	4,470	3,820	8,360	1,040	1,600	2,320	3,830	1,590	514	231	729	253
MIN	75	315	290	173	292	220	412	178	85	13	27	8.4
CFSM	2.04	4.20	6.57	1.51	2.47	2.86	4.65	2.02	.82	.34	.57	.19
IN _s	2.35	4.69	7.58	1.74	2.57	3.29	5.19	2.33	.92	.39	.66	.21

CAL YR 1972 TOTAL 344,354.0 MEAN 941 MAX 9,890 MIN 21 CFSM 3.46 IN 47.10
WTR YR 1973 TOTAL 233,429.4 MEAN 640 MAX 8,360 MIN 8.4 CFSM 2.35 IN 31.92

PEAK DISCHARGE (BASE, 5,000 CFS).--Dec. 9 (2245) 10,700 cfs (14.37 ft).

03051000 Tygart Valley River at Belington, W. Va.

LOCATION.--Lat 39°01'45", long 79°56'10", Barbour County, on left bank opposite mouth of Mill Creek, 0.2 mi (0.3 km) downstream from highway bridge at Belington, and mile 61.5 (99.0 km).

DRAINAGE AREA.--408 mi² (1,057 km²), excluding that of Mill Creek.

PERIOD OF RECORD.--June 1907 to current year. Prior to October 1960, published as Tygart River at Belington.

GAGE.--Water-stage recorder. Datum of gage is 1,679.49 ft (511.909 m) above mean sea level, adjustment of 1912. Prior to Apr. 25, 1939, nonrecording gage at site 0.2 mi (0.3 km) upstream at same datum.

AVERAGE DISCHARGE.--66 years, 800 ft³/s (22.66 m³/s), 26.63 in/yr (676 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,000 ft³/s (340 m³/s) Dec. 10, gage height, 15.19 ft (4.630 m); minimum, 24 ft³/s (0.68 m³/s) Sept. 14, gage height, 2.20 ft (0.671 m).
Period of record: Maximum discharge, 18,400 ft³/s (521 m³/s) July 25, 1912, gage height, 20.3 ft (6.19 m), from floodmarks, site then in use; minimum, 0.1 ft³/s (0.003 m³/s) Sept. 13, 1930, gage height, 1.56 ft (0.475 m), site then in use.
Flood of July 1888, reached a stage of 21.7 ft (6.61 m), former site, from floodmarks, discharge, 21,200 ft³/s (600 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 953: 1933(M), 1941(M). WSP 1335: 1912, 1914-15, 1916(M), 1921-22(M), 1925(M), 1928, 1933. WSP 1385: 1909(M), 1913-15(M), 1917-18, 1924(M), 1928(M), 1932, 1934, 1936, 1938-39, 1948-49.

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	296	1,550	1,290	570	901	992	636	1,430	744	159	153	58
2	237	5,450	1,040	516	1,410	980	1,740	1,020	542	223	191	64
3	166	3,030	1,090	480	2,950	992	2,180	910	426	310	158	59
4	142	1,510	1,330	1,300	2,020	1,270	2,110	1,280	344	208	120	55
5	181	992	1,770	1,740	1,370	1,110	2,850	1,190	751	165	98	40
6	4,710	708	2,140	1,320	1,100	968	2,160	918	867	150	82	30
7	4,810	543	4,020	934	1,310	785	1,500	719	1,070	107	70	35
8	2,960	1,840	3,520	620	1,710	659	2,060	608	672	75	57	57
9	1,300	5,280	10,100	510	2,270	565	2,780	1,550	427	80	47	63
10	686	3,260	10,900	440	1,640	470	2,660	2,060	318	138	67	62
11	440	1,970	7,410	400	1,020	415	2,220	1,370	245	117	145	57
12	355	1,410	3,300	370	697	390	1,640	1,060	297	93	248	36
13	410	1,060	2,040	350	592	350	1,360	821	1,180	69	234	26
14	445	1,460	1,520	330	543	310	1,480	641	726	75	694	49
15	365	4,190	2,020	335	956	310	1,840	517	392	109	1,360	150
16	296	2,780	4,580	335	1,680	320	2,040	437	288	102	793	139
17	257	1,770	2,620	365	1,120	415	2,280	394	215	69	604	136
18	233	1,210	1,730	335	710	956	4,020	394	500	57	632	136
19	241	944	1,390	400	620	1,050	2,410	349	474	91	429	125
20	350	3,210	1,610	1,260	560	1,240	1,460	322	275	87	317	73
21	365	3,140	2,650	1,260	500	1,390	998	429	296	80	290	78
22	345	2,080	5,470	986	460	1,470	736	511	440	98	428	68
23	340	1,510	5,090	998	440	1,220	708	470	585	181	417	147
24	365	1,100	2,530	884	425	1,270	2,010	509	292	362	293	351
25	350	895	1,710	670	400	1,600	1,710	682	230	323	217	244
26	320	1,730	1,290	576	470	1,830	2,160	1,290	181	362	179	168
27	288	2,330	1,080	626	714	2,660	2,570	1,140	159	387	154	114
28	278	1,760	851	1,130	980	2,390	5,950	1,330	168	229	124	77
29	335	1,540	691	1,290	-----	1,410	4,440	2,840	165	218	92	68
30	560	1,410	604	1,000	-----	950	2,210	1,640	156	202	89	1,220
31	636	-----	576	820	-----	719	-----	1,060	-----	172	80	-----
TOTAL	23,062	61,662	87,962	23,150	29,568	31,456	64,938	29,891	13,425	5,098	8,862	3,985
MEAN	744	2,055	2,837	747	1,056	1,015	2,165	964	448	164	286	133
MAX	4,810	5,450	10,900	1,740	2,950	2,660	5,950	2,840	1,180	387	1,360	1,220
MIN	142	543	576	330	400	310	636	322	156	57	47	26
CFSM	1.82	5.04	6.95	1.83	2.59	2.49	5.31	2.36	1.10	.40	.70	.33
IN.	2.10	5.62	8.02	2.11	2.70	2.87	5.92	2.73	1.22	.46	.81	.36

CAL YR 1972 TOTAL 536,238 MEAN 1,465 MAX 12,700 MIN 36 CFSM 3.59 IN 48.89
WTR YR 1973 TOTAL 383,059 MEAN 1,049 MAX 10,900 MIN 26 CFSM 2.57 IN 34.93

PEAK DISCHARGE (BASE, 6,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	0200	15.19	12,000	4-28	1500	11.23	6,680
12-22	2100	11.16	6,690				

03052000 Middle Fork River at Audra, W. Va.

LOCATION.--Lat 39°02'25", long 80°04'10", Barbour County, on right bank at Audra, 600 ft (183 m) upstream from highway bridge, and at mile 2.7 (4.3 km).

DRAINAGE AREA.--149 mi² (386 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 1,670 ft (509 m), from topographic map.

AVERAGE DISCHARGE.--31 years, 342 ft³/s (9.685 m³/s), 31.17 in/yr (792 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,800 ft³/s (164 m³/s) Dec. 9, gage height, 9.31 ft (2.838 m); minimum, 3.6 ft³/s (0.10 m³/s) July 21, gage height, 1.57 ft (0.479 m).
 Period of record: Maximum discharge, 11,500 ft³/s (326 m³/s) June 23, 1972, gage height, 13.67 ft (4.167 m), from rating curve extended above 6,800 ft³/s (193 m³/s) on basis of slope-area measurement of peak flow; minimum, 0.2 ft³/s (0.006 m³/s) Oct. 11-27, 1953; minimum gage height, 1.07 ft (0.326 m) Sept. 9, 1957.

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	178	682	522	321	437	500	360	715	344	40	47	17
2	127	1,920	450	295	856	464	695	520	260	46	41	14
3	86	1,090	472	277	1,310	460	856	490	205	37	37	12
4	59	708	560	433	954	460	970	570	165	25	21	8.8
5	77	522	708	481	730	412	1,270	485	585	24	14	7.6
6	916	412	886	450	625	372	1,010	416	444	20	12	11
7	922	347	1,580	380	786	324	748	340	344	16	11	9.2
8	682	714	1,600	300	898	296	946	296	247	12	11	28
9	425	2,070	4,800	260	988	257	1,040	710	185	7.2	13	16
10	288	1,260	3,520	230	736	229	1,080	772	136	6.9	10	9.8
11	220	844	2,390	200	500	205	868	620	100	8.0	54	7.2
12	197	656	1,260	180	360	199	695	472	76	11	82	5.7
13	336	527	862	170	320	172	570	372	685	10	53	5.3
14	306	630	666	160	300	155	565	296	360	8.0	257	19
15	260	1,580	904	150	540	152	690	247	214	8.0	468	96
16	220	1,060	1,480	160	700	172	784	205	142	10	324	69
17	200	735	1,010	189	555	217	976	190	127	12	505	32
18	175	546	725	180	444	400	1,620	205	356	8.8	505	48
19	186	463	575	226	370	400	1,040	165	340	8.4	356	64
20	229	967	735	666	330	444	715	152	214	7.6	271	44
21	205	954	992	645	300	510	535	214	247	4.8	288	26
22	208	758	2,310	499	274	515	424	193	274	4.3	452	17
23	208	595	1,680	433	254	468	384	185	328	43	344	52
24	220	477	1,010	359	226	545	1,090	214	205	178	247	250
25	205	416	708	306	202	784	1,020	247	133	241	172	142
26	194	730	556	281	235	946	1,500	328	89	188	120	84
27	183	850	486	340	372	1,390	1,520	328	59	316	76	53
28	183	703	404	481	500	898	3,260	432	54	129	53	37
29	214	630	347	532	-----	630	2,030	748	64	202	43	93
30	313	565	328	410	-----	490	1,100	580	39	129	32	480
31	321	-----	332	330	-----	392	-----	464	-----	64	23	-----
TOTAL	8,543	24,411	34,858	10,324	15,102	13,858	30,361	12,171	7,021	1,825.0	4,942	1,757.6
MEAN	276	814	1,124	333	539	447	1,012	393	234	58.9	159	58.6
MAX	922	2,070	4,800	666	1,310	1,390	3,260	772	685	316	505	480
MIN	59	347	328	150	202	152	360	152	39	4.3	10	5.3
CFSM	1.85	5.46	7.54	2.23	3.62	3.00	6.79	2.64	1.57	.40	1.07	.39
IN.	2.13	6.09	8.70	2.58	3.77	3.46	7.58	3.04	1.75	.46	1.23	.44

CAL YR 1972 TOTAL 227,316.2 MEAN 621 MAX 8,120 MIN 7.6 CFSM 4.17 IN 56.75
 WTR YR 1973 TOTAL 165,173.6 MEAN 453 MAX 4,800 MIN 4.3 CFSM 3.04 IN 41.24

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	0730	9.31	5,800	4-28	1045	7.78	3,910

03052500 Sand Run near Buckhannon, W. Va.

LOCATION.--Lat 38°57'50", long 80°09'10", Upshur County, on right bank 300 ft (91 m) downstream from Left Fork, 4.5 mi (7.2 km) southeast of Buckhannon, and at mile 6.0 (9.7 km).

DRAINAGE AREA.--14.5 mi² (37.6 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 1,530 ft (466 m), from topographic map.

AVERAGE DISCHARGE.--27 years, 26.2 ft³/s (0.742 m³/s), 24.54 in/yr (623 mm/yr).

EXTREMES.--Current year: Maximum discharge, 572 ft³/s (16.2 m³/s) Dec. 9, gage height, 4.41 ft (1.344 m); minimum, 0.01 ft³/s (<0.001 m³/s) July 8, gage height, 0.58 ft (0.177 m).
Period of record: Maximum discharge, 2,000 ft³/s (56.6 m³/s) June 25, 1950, from rating curve extended above 600 ft³/s (17.0 m³/s); maximum gage height, 6.29 ft (1.917 m) Mar. 19, 1963; no flow for several days in 1951-56, 1964-66.

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

REVISIONS (WATER YEARS).--WSP 1725: 1955(M).

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	3.9	62	35	21	36	40	41	36	13	.05	3.7	.50
2	2.2	72	33	18	102	38	129	28	9.5	.04	3.2	.32
3	1.6	37	42	19	118	35	79	35	7.9	.13	2.1	.13
4	1.2	26	53	35	75	37	86	31	6.6	.96	1.4	.11
5	18	19	58	33	51	30	96	28	10	.41	.86	.41
6	30	14	106	28	48	32	63	24	7.0	.09	1.8	.50
7	63	12	106	22	69	27	44	20	6.3	.04	2.5	.66
8	21	55	208	17	92	24	86	22	4.6	.03	.76	.32
9	11	111	418	15	93	22	83	84	3.7	.02	.23	.11
10	6.4	49	292	13	61	20	111	65	2.9	.03	.15	.09
11	4.2	33	133	12	39	18	79	53	2.3	.03	.32	.07
12	10	25	65	10	30	17	62	43	4.3	.05	.41	.05
13	13	21	47	9.7	26	16	50	31	7.7	.03	3.2	.04
14	11	33	36	9.7	30	14	53	24	3.7	.02	7.3	5.7
15	7.8	58	110	11	69	13	44	19	2.3	2.8	7.9	2.6
16	5.8	39	116	10	49	13	35	17	2.8	1.5	5.5	1.1
17	5.6	28	62	10	40	18	50	15	3.1	.23	71	.59
18	4.2	21	42	11	34	25	77	15	5.7	.06	33	12
19	9.1	33	35	26	30	33	56	12	3.1	.03	11	5.5
20	8.4	85	59	36	27	49	41	13	2.0	.03	15	2.8
21	8.4	52	78	31	24	57	32	15	1.4	.03	27	1.7
22	7.5	37	228	30	22	51	27	12	1.3	.03	20	1.2
23	7.5	28	100	26	20	47	60	14	1.2	6.3	9.7	11
24	8.4	24	54	21	18	53	136	15	.76	10	5.7	10
25	6.9	24	37	18	17	52	143	15	.41	10	3.5	5.2
26	6.6	76	32	16	19	47	157	29	.15	4.3	2.2	2.9
27	5.8	65	28	40	28	52	199	28	.09	2.5	1.5	1.8
28	7.8	46	26	52	40	39	245	49	.15	1.6	1.2	1.4
29	11	39	23	62	-----	32	98	45	.50	7.9	.86	6.8
30	13	38	22	42	-----	29	54	27	.11	3.7	.66	27
31	12	-----	22	33	-----	25	-----	19	-----	1.8	.59	-----
TOTAL	332.3	1,262	2,706	737.4	1,307	1,005	2,516	883	114.57	54.74	244.24	102.60
MEAN	10.7	42.1	87.3	23.8	46.7	32.4	83.9	28.5	3.82	1.77	7.88	3.42
MAX	63	111	418	62	118	57	245	84	13	10	71	27
MIN	1.2	12	22	9.7	17	13	27	12	.09	.02	.15	.04
CFSM	.74	2.90	6.02	1.64	3.22	2.23	5.79	1.97	.26	.12	.54	.24
IN.	.85	3.24	6.94	1.89	3.35	2.58	6.45	2.27	.29	.14	.63	.26

CAL YR 1972 TOTAL 14,486.23 MEAN 39.6 MAX 647 MIN .23 CFSM 2.73 IN 37.16

WTR YR 1973 TOTAL 11,264.85 MEAN 30.9 MAX 418 MIN .02 CFSM 2.13 IN 28.90

PEAK DISCHARGE (BASE, 400 CFS).--Dec. 9 (0100) 572 cfs (4.41 ft).

NOTE.--No gage-height record Feb. 16 to Mar. 15.

03053500 Buckhannon River at Hall, W. Va.

LOCATION.--Lat 39°03'05", Long 80°06'50", Barbour County, on right bank 0.2 mi (0.3 km) upstream from highway bridge at Hall, 1.0 mi (1.6 km) upstream from Pecks Run, and at mile 7.5 (12.1 km).

DRAINAGE AREA.--277 mi² (717 km²).

PERIOD OF RECORD.--June 1907 to May 1909 (gage heights only), April 1915 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,369.15 ft (417.317 m) above mean sea level, Baltimore & Ohio RR datum. June 1907 to May 25, 1909, nonrecording gage at site 0.2 mi (0.3 km) downstream at datum 4.12 ft (1.256 m) lower. Apr. 15, 1915, to June 8, 1939, nonrecording gage at site 500 ft (152 m) downstream at present datum.

AVERAGE DISCHARGE.--58 years, 591 ft³/s (16.74 m³/s), 28.97 in/yr (736 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,880 ft³/s (251 m³/s) Dec. 9, gage height, 12.16 ft (3.706 m); minimum, 18 ft³/s (0.51 m³/s) July 14, gage height, 3.82 ft (1.164 m).
Period of record: Maximum discharge, 13,000 ft³/s (368 m³/s) Mar. 7, 1967, gage height, 15.07 ft (4.593 m), from rating curve extended above 9,100 ft³/s (258 m³/s); minimum, 0.2 ft³/s (0.006 m³/s) Oct. 23, 27, 1930, gage height, 1.30 ft (0.396 m), site then in use.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 783: 1918(M).

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	277	739	878	405	676	786	545	1,300	460	48	55	49
2	209	2,920	765	365	1,190	758	861	902	355	41	69	42
3	125	2,120	828	321	2,310	758	1,170	772	277	36	63	34
4	91	1,280	910	514	1,880	856	1,230	1,020	225	35	55	29
5	91	828	1,270	700	1,330	793	1,770	878	512	34	44	25
6	1,050	598	1,620	616	1,020	724	1,630	724	454	49	35	32
7	1,520	466	2,710	496	1,280	646	1,210	598	308	48	31	61
8	1,330	828	2,840	380	1,510	610	1,460	508	277	37	27	87
9	723	2,790	8,010	320	2,010	556	1,860	1,090	205	31	22	74
10	440	2,230	7,670	270	1,300	496	2,140	1,400	174	26	21	52
11	297	1,350	5,240	240	800	448	1,940	998	138	24	21	42
12	257	982	2,270	220	660	442	1,400	737	113	22	82	35
13	491	758	1,340	200	600	395	1,170	556	122	20	100	32
14	578	751	1,010	190	550	355	1,110	425	164	19	284	66
15	447	1,800	1,260	191	1,310	335	1,050	350	128	21	484	164
16	337	1,710	2,460	198	1,710	375	1,060	290	95	28	414	177
17	275	1,140	1,710	294	1,200	490	1,150	273	85	37	842	128
18	234	800	1,090	249	900	910	2,340	308	93	36	765	184
19	223	658	835	225	790	966	1,840	269	202	43	484	281
20	331	1,580	934	658	700	1,160	1,280	225	158	40	448	180
21	317	1,660	1,540	835	630	1,180	942	277	132	30	425	113
22	303	1,220	3,520	676	580	1,160	729	335	149	26	814	84
23	285	934	3,370	604	520	1,020	642	281	108	37	670	152
24	288	706	1,720	472	470	1,010	1,870	294	97	161	385	400
25	280	598	1,080	380	430	1,160	2,090	312	76	139	261	290
26	248	1,080	793	321	454	1,420	3,210	370	61	81	188	167
27	225	1,590	688	502	556	1,760	3,310	370	52	130	140	118
28	224	1,250	556	998	730	1,450	5,220	415	45	143	108	87
29	259	1,090	460	800	-----	979	3,860	926	43	101	85	245
30	383	958	415	600	-----	765	1,990	744	50	77	69	892
31	452	-----	410	730	-----	614	-----	616	-----	60	58	-----
TOTAL	12,590	37,414	60,202	13,970	28,096	25,377	52,079	18,563	5,158	1,660	7,549	4,322
MEAN	406	1,247	1,942	451	1,003	819	1,736	599	172	53.5	244	144
MAX	1,520	2,920	8,010	998	2,310	1,760	5,220	1,400	460	161	842	892
MIN	91	466	410	190	430	335	545	225	43	19	21	25
CFSM	1.47	4.50	7.01	1.63	3.62	2.96	6.27	2.16	.62	.19	.88	.52
IN.	1.69	5.02	8.08	1.88	3.77	3.41	6.99	2.49	.69	.22	1.01	.58
CAL YR 1972	TOTAL 367,323	MEAN 1,004	MAX 10,700	MIN 21	CFSM 3.62	IN 49.33						
WTR YR 1973	TOTAL 266,980	MEAN 731	MAX 8,010	MIN 19	CFSM 2.64	IN 35.85						

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1545	12.16	8,880	4-28	1645	9.84	5,640

03054500 Tygart Valley River at Philippi, W. Va.

LOCATION.--Lat 39°09'00", Long 80°02'25", Barbour County, on right bank at Philippi, 0.2 mi (0.3 km) downstream from Anglins Run, 5.0 mi (8.0 km) downstream from Buckhannon River, and at mile 44.9 (72.2 km).

DRAINAGE AREA.--916 mi² (2,372 km²).

PERIOD OF RECORD.--April 1940 to current year. Prior to October 1960, published as Tygart River at Philippi.

GAGE.--Water-stage recorder. Datum of gage is 1,280.55 ft (390.312 m) above mean sea level. Prior to May 23, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 1,827 ft³/s (51.74 m³/s), 27.09 in/yr (688 mm/yr).

EXTREMES.--Current year. Maximum discharge, 24,400 ft³/s (691 m³/s) Dec. 9, gage height, 19.06 ft (5.809 m); minimum, 60 ft³/s (1.70 m³/s) Sept. 6, gage height, 1.61 ft (0.491 m).

Period of record: Maximum discharge, 43,000 ft³/s (1,220 m³/s) Mar. 7, 1967, gage height, 25.93 ft (7.903 m); minimum, 4.9 ft³/s (0.14 m³/s) Oct. 10-12, 21, 1953; minimum gage height, 0.92 ft (0.280 m) Sept. 9, 10, 1957.

Flood of July 25, 1912, reached a stage of 27.3 ft (8.32 m), read on National Weather Service gage 0.2 mi (0.3 km) downstream, or about 26 ft (8 m), present site and datum, discharge, about 37,000 ft³/s (1,050 m³/s).

REMARKS.--Records good. Records of instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

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	535	2,630	2,410	1,500	2,320	2,390	1,830	3,700	1,620	242	284	126
2	674	10,300	2,040	1,370	3,760	2,340	3,040	2,530	1,220	287	280	104
3	427	7,190	2,110	1,230	7,120	2,330	4,410	2,110	951	321	309	98
4	312	3,680	2,440	2,050	5,290	2,690	4,350	2,660	780	298	233	85
5	289	2,360	3,300	3,100	3,520	2,560	6,050	2,510	1,220	242	189	78
6	5,130	1,680	4,230	2,640	2,700	2,280	5,220	2,040	1,820	198	157	65
7	8,120	1,290	8,460	2,120	3,180	1,990	3,830	1,660	1,630	209	155	74
8	6,400	2,440	8,740	1,500	3,940	1,780	4,410	1,380	1,300	145	122	98
9	3,170	9,660	22,100	1,200	5,480	1,550	6,000	3,000	861	121	101	138
10	1,800	7,290	22,400	980	4,290	1,330	6,280	4,680	676	132	90	117
11	1,140	4,210	15,700	860	2,920	1,180	5,630	3,220	543	152	129	100
12	861	2,810	8,480	780	2,000	1,130	4,260	2,390	438	137	344	85
13	1,200	2,140	4,970	720	1,700	1,020	3,510	1,840	1,500	112	409	68
14	1,510	2,120	3,600	676	1,600	888	3,440	1,450	1,580	94	839	128
15	1,240	6,770	3,860	764	2,790	825	3,650	1,180	857	116	2,320	270
16	951	5,700	9,240	789	4,280	870	3,980	990	589	142	1,560	284
17	789	3,430	6,370	716	3,000	1,070	4,050	897	436	137	1,680	245
18	668	2,340	3,940	676	2,400	2,110	7,730	933	693	120	1,800	280
19	628	1,820	3,100	825	2,100	2,520	5,850	834	1,140	108	1,120	370
20	897	5,030	3,230	2,450	1,900	2,830	3,870	724	770	141	888	276
21	970	5,940	5,470	3,170	1,740	3,140	2,820	843	623	131	798	189
22	924	3,860	10,900	2,560	1,500	3,250	2,220	1,040	690	117	1,350	158
23	897	2,770	11,300	2,270	1,400	2,850	1,920	942	1,140	150	1,260	300
24	924	2,060	6,410	2,000	1,310	2,790	4,630	1,000	689	630	825	870
25	924	1,720	4,000	1,580	1,180	3,350	5,290	1,130	484	720	543	636
26	825	2,940	2,960	1,350	1,200	4,050	7,440	1,820	361	490	390	370
27	740	4,710	2,570	1,720	1,620	5,300	7,640	1,820	288	885	300	256
28	708	3,490	2,140	2,930	2,310	5,170	13,700	1,940	267	613	245	186
29	807	2,960	1,790	3,180	-----	3,350	11,700	4,590	280	480	189	160
30	1,250	2,630	1,570	2,700	-----	2,550	6,100	3,100	255	437	165	3,010
31	1,630	-----	1,510	2,000	-----	2,040	-----	2,200	-----	330	148	-----
TOTAL	47,340	117,970	191,340	52,406	78,550	73,523	154,850	61,153	25,701	8,437	19,222	9,224
MEAN	1,527	3,932	6,172	1,691	2,805	2,372	5,162	1,973	857	272	620	307
MAX	8,120	10,300	22,400	3,180	7,120	5,300	13,700	4,680	1,820	885	2,320	3,010
MIN	289	1,290	1,510	676	1,180	825	1,830	724	255	94	90	65
CFSM	1.67	4.29	6.74	1.85	3.06	2.59	5.64	2.15	.94	.30	.68	.34
IN.	1.92	4.79	7.77	2.13	3.19	2.99	6.29	2.48	1.04	.34	.78	.37

CAL YR 1972 TOTAL 1,170,062 MEAN 3,197 MAX 28,300 MIN 74 CFSM 3.49 IN 47.52
WTR YR 1973 TOTAL 839,716 MEAN 2,301 MAX 22,400 MIN 65 CFSM 2.51 IN 34.10

PEAK DISCHARGE (BASE, 13,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-9	1500	19.06	24,400	4-28	1700	14.64	15,500
12-22	2200	13.20	13,600				

03055500 Tygart Lake near Grafton, W. Va.

LOCATION.--Lat 39°18'50", long 80°02'00", Taylor County, 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.

DRAINAGE AREA.--1,184 mi² (3,067 km²).

PERIOD OF RECORD.--April 1938 to current year (monthend contents only). Prior to October 1960, published as "Tygart Reservoir".

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents, 222,900 acre-ft (275 hm³) Dec. 11, elevation, 1,145.43 ft (349.127 m); minimum, 14,150 acre-ft (17.4 hm³) Mar. 16, elevation, 1,014.31 ft (309.162 m).

Period of record: Maximum contents, 251,100 acre-ft (310 hm³) June 25, 1972, elevation, 1,155.22 ft (352.111 m); minimum since October 1939, 8,330 acre-ft (10.3 hm³) Jan. 25, 1940, elevation, 1,005.15 ft (306.370 m).

REMARKS.--Reservoir is formed by concrete gravity dam completed and accepted February 1938; storage began May 15, 1938. Capacity, 285,000 acre-ft (351 hm³), from sedimentation resurvey made in 1959, between elevations 991.5 ft (302.21 m), sill of valves, and 1,167.0 ft (355.70 m), crest of spillway, above mean sea level. Dead storage, 2,700 acre-ft (3.33 hm³). 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. Reservoir is used for flood control, for supplementary supply for navigation of Monongahela River during periods of low flow, and for recreation.

COOPERATION.--Records furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cfs)
Sept. 30.....	1,069.42	72,690	-	-
Oct. 31.....	1,063.20	64,230	-8,460	-138
Nov. 30.....	1,062.93	63,870	-360	-6
Dec. 31.....	1,029.44	26,500	-37,370	-608
CAL YR 1972	-	-	+1,390	+2
Jan. 31.....	1,032.05	28,880	+2,380	+39
Feb. 28.....	1,022.94	20,860	-8,020	-144
Mar. 31.....	1,050.00	47,700	+26,840	+437
Apr. 30.....	1,125.78	174,300	+126,600	+2,128
May 31.....	1,094.03	111,300	-63,000	-1,025
June 30.....	1,094.15	111,500	+200	+3
July 31.....	1,095.32	113,600	+2,100	+34
Aug. 31.....	1,091.39	106,800	-6,800	-111
Sept. 30.....	1,080.57	89,190	-17,610	-296
WTR YR 1973	-	-	+16,500	+23

03056000 Tygart Valley River at Tygart Dam near Grafton, W. Va.

LOCATION.--Lat 39°18'50", long 80°02'00", Taylor County, at Tygart Dam, 2.2 mi (3.5 km) upstream from Threefork Creek, and 2.4 mi (3.9 km) upstream from Grafton.

DRAINAGE AREA.--1,184 mi² (3,067 km²).

PERIOD OF RECORD.--June 1938 to current year. Prior to October 1960, published as Tygart River at Tygart Dam near Grafton.

GAGE.--Water-stage recorder.

AVERAGE DISCHARGE.--35 years, 2,312 ft³/s (65.48 m³/s), 26.52 in/yr (674 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 16,000 ft³/s (453 m³/s) Dec. 18; minimum, 260 ft³/s (7.36 m³/s) July 10-31.

Period of record: Maximum discharge, 20,000 ft³/s (566 m³/s) Feb. 2, 1939; no flow Aug. 2, 1938.

REMARKS.--Discharge computed from records of flow through gates and valves in dam. Flow regulated by Tygart Lake (see sta 03055500).

COOPERATION.--Records furnished by Corps of Engineers.

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	720	1,210	4,700	1,720	5,940	2,660	2,280	12,200	2,940	320	390	570
2	720	1,280	4,570	1,560	5,380	3,010	1,130	11,800	1,180	320	600	570
3	713	3,840	4,430	1,690	5,890	2,960	3,750	11,400	880	320	600	565
4	710	6,950	4,300	1,690	6,500	3,040	6,240	9,460	880	320	600	695
5	703	6,780	4,220	2,200	6,370	3,500	6,270	5,590	880	320	600	830
6	709	6,510	3,220	2,710	5,940	3,750	6,340	2,300	1,190	320	530	830
7	749	6,210	2,460	2,710	5,490	3,020	6,290	1,540	1,470	320	460	795
8	1,820	5,930	2,740	2,650	5,280	2,110	4,970	1,540	1,470	320	460	810
9	4,290	6,580	3,150	2,120	5,490	2,100	3,820	1,560	1,170	290	460	860
10	5,620	8,070	3,520	1,650	5,680	2,050	4,010	3,200	870	260	460	855
11	5,440	8,490	9,910	1,610	5,380	1,970	4,850	4,820	870	260	460	815
12	3,450	6,920	15,100	1,180	3,620	1,880	5,610	4,760	860	260	460	850
13	1,290	5,460	14,800	780	2,020	1,500	5,600	4,650	860	260	460	848
14	1,290	3,380	14,400	780	2,050	1,170	5,570	4,550	870	260	460	840
15	1,290	1,920	9,180	780	2,180	1,160	5,540	2,960	880	260	460	838
16	1,280	4,620	8,750	780	2,460	1,140	5,510	1,460	880	260	965	830
17	1,270	5,700	13,800	780	2,720	1,130	5,490	1,180	880	260	1,470	830
18	1,270	5,480	14,500	780	2,810	1,240	5,550	900	880	260	2,200	830
19	1,260	3,860	15,400	790	2,820	2,100	5,640	900	880	260	2,930	830
20	1,250	2,200	14,600	820	2,800	2,930	4,240	900	880	260	2,910	822
21	1,250	3,240	13,700	871	2,680	3,100	2,850	900	880	260	1,740	820
22	1,240	4,790	8,850	1,400	2,720	3,270	2,140	900	880	260	600	820
23	1,240	4,740	8,500	1,930	2,640	2,950	1,440	900	880	260	600	820
24	1,230	4,630	12,900	1,970	2,530	2,600	1,470	900	880	260	1,020	820
25	1,230	4,480	13,300	1,970	2,430	2,700	2,270	1,210	870	260	1,150	685
26	1,220	3,280	12,200	1,950	2,320	2,800	4,690	1,520	870	260	860	550
27	1,220	2,280	10,500	1,950	2,230	2,480	4,780	2,280	870	260	720	550
28	1,210	2,370	6,720	2,520	2,220	2,110	3,350	3,020	860	260	580	550
29	1,200	3,640	3,720	3,100	-----	2,880	5,760	3,750	590	260	580	550
30	1,190	4,800	2,670	5,270	-----	3,320	11,100	4,490	320	260	576	912
31	1,200	-----	2,160	6,700	-----	3,450	-----	4,460	-----	260	574	-----
TOTAL	49,274	139,640	262,970	59,411	106,590	76,080	138,550	112,000	29,570	8,570	26,935	22,790
MEAN	1,589	4,655	8,483	1,916	3,807	2,454	4,618	3,613	986	276	869	760
MAX	5,620	8,490	15,400	6,700	6,500	3,750	11,100	12,200	2,940	320	2,930	912
MIN	703	1,210	2,160	780	2,020	1,130	1,130	900	320	260	390	550

CAL YR 1972 TOTAL 1,438,794 MEAN 3,931 MAX 17,000 MIN 275 MEAN/ 3,933 CFSM/ 3.32 IN/ 45.19
WTR YR 1973 TOTAL 1,032,380 MEAN 2,828 MAX 15,400 MIN 260 MEAN/ 2,851 CFSM/ 2.41 IN/ 32.71

/ Adjusted for change in contents in Tygart Lake.

03057000 Tygart Valley River at Colfax, W. Va.

LOCATION.--Lat 39°26'15", long 80°07'55", Marion County, on right bank at highway bridge at Colfax, 300 ft (91 m) upstream from Guyses Run, and at mile 6.0 (9.7 km). Records include flow of Guyses Run.

DRAINAGE AREA.--1,366 mi² (3,538 km²), including that of Guyses Run.

PERIOD OF RECORD.--May 1939 to current year. Prior to October 1960, published as Tygart River at Colfax.

GAGE.--Water-stage recorder. Datum of gage is 855.49 ft (260.753 m) above mean sea level, Baltimore & Ohio RR datum. Since Jan. 19, 1945, auxiliary water-stage recorder at Fairmont waterworks, 5.7 mi (9.2 km) downstream from base gage, at datum 856.99 ft (261.211 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 2,599 ft³/s (73.60 m³/s), 25.84 in/yr (656 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge 17,300 ft³/s (490 m³/s) Dec. 22, gage height, 14.05 ft (4.282 m); minimum, 268 ft³/s (7.59 m³/s) July 19, 20, gage height, 3.53 ft (1.076 m); minimum daily, 277 ft³/s (7.84 m³/s) July 20.

Period of record: Maximum discharge, 22,500 ft³/s (637 m³/s) Feb. 14, 1948, gage height, 16.86 ft (5.139 m); maximum gage height, 19.77 ft (6.026 m) Mar. 5, 1963, backwater from West Fork River; minimum discharge, 94 ft³/s (2.66 m³/s) July 3, 1946; minimum daily, 129 ft³/s (3.65 m³/s) May 5-7, 1941.

REMARKS.--Records good. Flow regulated by Tygart Lake (see sta 03055500).

REVISIONS (WATER YEARS).--WSP 1083: 1942(M). WSP 1335: 1941.

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	735	1,660	5,170	1,890	6,080	2,640	2,980	11,900	3,790	369	300	600
2	726	2,090	5,020	1,710	6,420	3,160	2,120	11,400	1,510	409	614	600
3	730	3,040	4,940	1,810	7,590	3,190	3,230	11,000	1,010	365	680	590
4	737	7,270	4,860	2,010	7,030	3,380	6,490	9,490	992	400	648	700
5	761	6,980	4,910	2,280	6,640	3,630	6,580	6,200	1,010	456	632	868
6	786	6,680	4,870	2,890	6,140	4,030	6,470	2,760	1,100	395	610	868
7	889	6,410	3,850	2,820	5,820	3,610	6,350	1,730	1,610	381	492	868
8	1,340	6,600	4,360	2,730	5,740	2,440	6,000	1,790	1,590	372	484	787
9	3,700	7,500	8,700	2,440	6,050	2,410	4,530	4,550	1,450	368	480	890
10	5,610	8,430	6,320	1,770	6,000	2,350	5,040	3,850	951	300	486	906
11	5,450	8,920	9,480	1,700	5,660	2,270	5,390	5,260	939	314	479	906
12	4,450	7,760	16,000	1,520	4,520	2,190	6,160	5,020	937	300	478	906
13	1,390	5,870	15,100	865	2,320	1,940	5,980	4,860	979	291	483	906
14	1,370	5,040	14,200	855	2,430	1,400	5,950	4,720	974	300	495	922
15	1,360	2,260	11,300	878	3,390	1,380	5,840	3,730	949	300	575	922
16	1,350	4,670	7,440	872	3,290	1,360	5,680	1,700	951	309	707	922
17	1,350	6,230	14,000	872	3,170	1,460	5,570	1,580	989	300	1,600	906
18	1,350	5,990	13,900	879	3,030	1,720	5,530	1,110	1,110	286	1,940	1,000
19	1,350	5,030	15,500	930	3,030	2,210	5,600	1,060	1,090	278	3,070	1,000
20	1,340	3,670	14,700	1,060	2,970	3,430	4,830	1,090	1,000	277	3,070	930
21	1,340	3,620	13,800	1,060	2,820	3,600	2,930	1,090	987	333	2,550	914
22	1,330	5,370	13,000	1,380	2,830	3,620	2,600	1,060	992	382	725	903
23	1,330	5,190	8,300	2,250	2,750	3,380	1,890	1,050	964	351	669	993
24	1,330	5,010	12,600	2,250	2,660	2,850	3,550	1,050	947	328	805	1,030
25	1,330	4,860	13,300	2,190	2,560	2,950	3,040	1,220	935	318	1,410	907
26	1,320	5,300	12,000	2,150	2,470	3,120	5,310	1,680	928	306	932	597
27	1,310	3,320	10,300	2,500	2,420	2,970	7,370	2,020	920	328	870	583
28	1,310	3,040	7,190	3,080	2,400	2,300	6,430	3,130	928	308	617	578
29	1,310	3,660	4,250	3,600	-----	2,770	6,180	3,560	849	295	610	640
30	1,300	5,290	2,830	4,600	-----	3,200	10,600	4,610	382	287	600	1,220
31	1,300	-----	2,550	6,710	-----	3,520	-----	4,620	-----	281	604	-----
TOTAL	51,284	156,760	284,740	64,551	118,230	84,480	156,220	119,890	33,763	10,287	28,715	25,362
MEAN	1,654	5,225	9,185	2,082	4,223	2,725	5,207	3,867	1,125	332	926	845
MAX	5,610	8,920	16,000	6,710	7,590	4,030	10,600	11,900	3,790	456	3,070	1,220
MIN	726	1,660	2,550	855	2,320	1,360	1,890	1,050	382	277	300	578

CAL YR 1972 TOTAL 1,577,790 MEAN 4,311 MAX 18,000 MIN 336 MEAN/ 4,313 CFSM/ 3.16 IN/ 42.90
WTR YR 1973 TOTAL 1,134,282 MEAN 3,108 MAX 16,000 MIN 277 MEAN/ 3,131 CFSM/ 2.29 IN/ 31.08

/ Adjusted for change in contents in Tygart Lake.

03058000 West Fork River at Brownsville, W. Va.

LOCATION.--Lat 39°00'10", long 80°28'35", Lewis County, on right bank at downstream side of highway bridge at Brownsville, 0.4 mi (0.6 km) downstream from Skin Creek, 2.5 mi (4.0 km) south of Weston, and at mile 71.0 (114.2 km).

DRAINAGE AREA.--102 mi² (264 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,010.85 ft (308.107 m) above mean sea level, levels by Corps of Engineers. Prior to Aug. 15, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 162 ft³/s (4.588 m³/s), 21.57 in/yr (548 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,610 ft³/s (102 m³/s) Dec. 9, gage height, 12.69 ft (3.868 m), from rating curve extended as explained below; minimum, 0.03 ft³/s (0.001 m³/s) July 23, gage height, 4.20 ft (1.280 m).

Period of record: Maximum discharge, 6,420 ft³/s (182 m³/s) June 25, 1950, gage height, 17.20 ft (5.243 m), from rating curve extended above 3,400 ft³/s (96.3 m³/s) on basis of slope-area measurement of peak flow; no flow for several days during 1952-54, Sept. 16, 1965.

REMARKS.--Records good prior to June and fair thereafter.

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	74	316	215	91	183	93	99	192	68	3.2	3.6	1.2
2	45	698	210	76	667	88	106	126	43	13	13	.75
3	27	373	264	70	752	98	148	150	29	6.1	5.5	.50
4	19	222	271	255	545	154	206	212	22	4.0	4.5	.98
5	26	121	411	259	313	152	435	150	19	52	3.2	5.0
6	148	79	651	168	219	132	345	108	54	6.7	1.8	2.6
7	165	64	910	114	361	113	227	85	27	4.0	1.4	2.1
8	119	404	1,010	85	523	110	491	80	19	3.2	.75	3.6
9	66	780	3,460	64	805	102	693	571	9.4	2.4	.32	4.0
10	37	387	2,720	53	379	93	1,160	379	6.7	2.4	.43	4.0
11	27	188	1,440	44	203	87	697	195	5.0	2.1	1.6	4.5
12	48	134	451	35	129	85	428	117	4.0	1.8	2.4	4.5
13	149	109	243	32	101	75	425	85	4.5	1.8	3.6	3.6
14	111	127	160	30	164	68	358	66	13	1.6	31	143
15	69	313	422	35	921	67	244	50	6.7	4.0	59	95
16	43	243	839	39	607	71	165	34	4.0	11	47	47
17	35	145	400	41	304	163	146	40	4.0	5.5	103	19
18	30	98	215	41	173	392	283	52	4.0	4.0	40	108
19	41	141	167	80	140	357	264	38	4.0	3.6	22	153
20	70	796	257	211	127	476	187	33	4.5	3.2	31	59
21	76	438	388	160	120	336	140	31	131	2.1	73	25
22	61	216	1,710	129	118	261	112	45	19	.11	159	13
23	52	154	999	121	110	208	159	42	5.5	.10	66	80
24	53	117	347	93	100	175	944	24	4.0	20	25	88
25	49	108	206	72	87	151	978	25	3.6	6.1	13	38
26	46	545	151	62	82	143	1,280	50	3.2	4.5	6.7	19
27	42	520	144	338	92	213	1,780	61	2.4	3.2	5.0	25
28	63	292	131	572	98	164	2,010	66	3.6	1.8	4.0	13
29	107	316	112	408	-----	126	829	175	6.7	5.0	3.6	11
30	115	267	101	333	-----	116	314	120	3.6	4.0	2.8	66
31	94	-----	95	222	-----	102	-----	103	-----	2.4	2.1	-----
TOTAL	2,107	8,711	19,100	4,333	8,423	4,971	15,653	3,505	533.4	184.91	735.30	1,039.53
MEAN	68.0	290	616	140	301	160	522	113	17.8	5.96	23.7	34.7
MAX	165	796	3,460	572	921	476	2,010	571	131	52	159	153
MIN	19	64	95	30	82	67	99	24	2.4	.10	.32	.50
CFSM	.67	2.84	6.04	1.37	2.95	1.57	5.12	1.11	.17	.06	.23	.34
IN.	.77	3.18	6.97	1.58	3.07	1.81	5.71	1.28	.19	.07	.27	.38

CAL YR 1972 TOTAL 97,644.80 MEAN 267 MAX 3,460 MIN 6.6 CFSM 2.62 IN 35.61
WTR YR 1973 TOTAL 69,296.14 MEAN 190 MAX 3,460 MIN .10 CFSM 1.86 IN 25.27

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1400	12.69	3,610	4-28	0200	10.75	2,460

03058500 West Fork River at Butcherville, W. Va.

LOCATION.--Lat 39°05'25", long 80°28'05", Lewis County, on right bank at Butcherville, 0.5 mi (0.8 km) upstream from Freemans Creek, 3,500 ft (1,067 m) downstream from abandoned bridge on Weston-Clarksburg interurban electric railway, 3.0 mi (4.8 km) north of Weston, and at mile 62.0 (99.8 km).

DRAINAGE AREA.--181 mi² (469 km²).

PERIOD OF RECORD.--April 1915 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 993.0 ft (302.67 m) above mean sea level, Department of Highways bench mark. Prior to Feb. 17, 1937, nonrecording gage at interurban bridge 3,500 ft (1,067 m) upstream. Feb. 17, 1937, to Apr. 7, 1939, nonrecording gage at site 2,500 ft (762 m) upstream. Prior to Oct. 1, 1942, at datum 10.0 ft (3.05 m) lower.

AVERAGE DISCHARGE.--58 years, 299 ft³/s (8.468 m³/s), 22.43 in/yr (570 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,940 ft³/s (197 m³/s) Dec. 9, gage height, 10.49 ft (3.197 m); minimum, 4.3 ft³/s (0.12 m³/s) Sept. 13, 14, gage height, 0.59 ft (0.180 m).
Period of record: Maximum discharge, 18,000 ft³/s (510 m³/s) June 25, 1950, gage height, 16.81 ft (5.124 m), from rating curve extended above 7,500 ft³/s (212 m³/s) on basis of slope-area measurement of peak flow; no flow at times during October 1919, September, October, December 1922, caused by either diversion or pondage at small dam upstream.
Flood of 1888 reached a stage of 17 ft (5.2 m) at site 3,500 ft (1,067 m) upstream, present datum, from information by local residents. The stage on that day may have been affected by backwater from a dam which has since been washed out.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1053: 1935. WSP 1335: 1918, 1923.

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	165	586	356	170	324	170	190	427	132	44	28	9.6
2	118	1,040	338	143	1,140	155	310	288	94	56	56	8.1
3	83	578	389	130	1,220	175	280	306	72	63	32	22
4	67	356	417	431	855	282	420	359	61	66	22	30
5	101	212	637	439	523	306	700	270	54	185	18	51
6	308	142	1,240	303	395	276	560	204	77	77	14	35
7	349	117	1,510	213	583	237	410	165	61	33	11	22
8	257	768	1,750	158	945	252	700	168	45	17	8.0	12
9	160	1,170	6,180	116	1,200	228	1,100	1,390	35	14	6.0	8.0
10	109	611	4,110	93	730	198	1,800	750	28	22	20	9.0
11	86	318	2,340	80	470	180	1,300	391	23	37	18	12
12	142	222	835	66	270	170	830	246	29	29	14	4.7
13	274	180	467	56	210	145	770	175	37	15	36	4.3
14	231	222	320	53	270	130	720	135	29	12	94	395
15	154	419	670	63	1,600	130	515	110	26	28	195	237
16	116	359	1,290	70	990	130	371	88	22	32	118	98
17	98	232	685	75	503	450	317	98	20	22	258	49
18	87	163	395	74	313	800	435	102	24	17	114	243
19	112	241	313	150	260	710	447	82	19	13	70	264
20	141	1,240	487	359	237	890	345	75	20	12	96	114
21	154	698	690	279	225	630	276	70	158	8.6	201	57
22	132	359	2,960	246	222	490	225	61	63	15	306	36
23	119	262	1,600	237	207	370	399	56	31	28	158	316
24	116	201	618	183	188	320	1,530	58	22	66	72	285
25	107	189	387	138	160	280	1,780	61	18	36	44	108
26	101	996	292	116	148	270	2,240	75	14	33	31	58
27	94	825	276	695	170	360	3,190	88	12	24	23	46
28	128	484	249	920	185	290	3,630	114	60	16	19	38
29	190	498	210	660	-----	230	1,560	231	70	22	16	44
30	219	426	190	527	-----	210	675	219	51	24	14	228
31	179	-----	178	352	-----	190	-----	204	-----	16	12	-----
TOTAL	4,697	14,114	32,379	7,595	14,543	9,654	28,025	7,066	1,407	1,082.6	2,124.0	2,843.7
MEAN	152	470	1,044	245	519	311	934	228	46.9	34.9	68.5	94.8
MAX	349	1,240	6,180	920	1,600	890	3,630	1,390	158	185	306	395
MIN	67	117	178	53	148	130	190	56	12	8.6	6.0	4.3
CFSM	.84	2.60	5.77	1.35	2.87	1.72	5.16	1.26	.26	.19	.38	.52
IN.	.97	2.90	6.65	1.56	2.99	1.98	5.76	1.45	.29	.22	.44	.58

CAL YR 1972 TOTAL 166,307.0 MEAN 454 MAX 6,180 MIN 14 CFSM 2.51 IN 34.18
WTR YR 1973 TOTAL 125,530.3 MEAN 344 MAX 6,180 MIN 4.3 CFSM 1.90 IN 25.80

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-9	0800	10.49	6,940	4-27	1700	7.89	4,300
12-22	1000	7.14	3,630				

03059000 West Fork River at Clarksburg, W. Va.

LOCATION.--Lat 39°16'15", long 80°21'20", Harrison County, on downstream side of left abutment of Hartland Bridge on Camden Street at Clarksburg, 700 ft (213 m) downstream from dam at Clarksburg waterworks, 1.2 mi (1.9 km) upstream from Elk Creek, and at mile 32.4 (52.1 km).

DRAINAGE AREA.--384 mi² (995 km²).

PERIOD OF RECORD.--March 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 921.82 ft (280.971 m) above mean sea level. Prior to Oct. 1, 1961, water-stage recorder at several sites 700 ft (213 m) upstream at datum 10 ft (3.0 m) higher. June 11, 1954, to Sept. 30, 1961, present base gage used as the supplementary gage. Since Oct 1, 1961, former base gage used as the supplementary gage.

AVERAGE DISCHARGE.--50 years, 585 ft³/s (16.57 m³/s), 20.69 in/yr (526 mm/yr), adjusted for diversion.

EXTREMES.--Current year: Maximum discharge, 14,400 ft³/s (408 m³/s) Dec. 9, gage height, 19.50 ft (5.944 m); minimum, 6.2 ft³/s (0.18 m³/s) Sept. 12, 13, 14, gage height, 2.51 ft (0.765 m); minimum daily, 7.1 ft³/s (0.20 m³/s) Sept. 13.

Period of record: Maximum discharge, 17,800 ft³/s (504 m³/s) Mar. 7, 1967, gage height, 23.40 ft (7.132 m); no flow over dam during parts of several years.

REMARKS.--Records good except those for period of doubtful gage-height record, which are poor. Records of daily discharge include only flow over dam. Some water diverted for supply of City of Clarksburg. Occasional regulation of low flow by five reservoirs, combined capacity, 635,000,000 gal (2.4 hm³).

REVISIONS (WATER YEARS).--WSP 1113: 1924, 1927, 1929(M), 1930, 1933-35(M), 1936-39, 1940(P), 1944(M), 1945.

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	107	742	530	317	700	394	446	1,050	288	64	37	20
2	151	2,130	435	278	1,860	360	783	717	203	54	62	18
3	92	1,500	515	242	3,200	384	643	645	160	55	97	16
4	69	834	545	575	2,110	583	818	753	136	81	58	16
5	87	465	1,080	1,030	1,380	700	1,380	630	83	177	38	21
6	380	262	2,500	766	957	673	1,240	496	81	177	29	41
7	520	189	3,000	540	1,170	584	911	406	105	92	23	40
8	450	1,030	3,800	400	1,540	750	1,280	393	92	55	19	32
9	242	2,340	13,000	312	2,730	728	2,080	3,890	72	34	14	21
10	132	1,470	8,800	250	1,630	588	3,430	2,270	59	26	52	16
11	88	736	4,900	200	930	496	3,010	1,170	50	51	160	12
12	83	475	2,120	170	622	470	1,900	711	43	66	70	8.7
13	200	335	1,160	150	496	395	1,670	510	180	45	52	7.1
14	304	375	796	130	584	337	1,770	397	126	35	184	24
15	206	656	834	145	3,230	309	1,310	317	64	62	420	460
16	128	689	2,590	173	2,690	304	938	265	53	110	428	194
17	92	465	1,810	186	1,400	1,130	736	250	52	69	361	105
18	79	294	1,000	175	842	1,810	748	276	66	43	317	451
19	87	274	718	254	700	1,560	860	232	52	31	157	428
20	116	2,110	778	678	611	1,930	730	224	43	27	138	242
21	138	1,750	1,290	628	563	1,580	607	200	38	28	317	128
22	138	742	5,490	562	532	1,140	513	163	128	43	446	81
23	120	465	4,280	656	497	857	643	143	81	171	317	235
24	116	210	1,760	520	459	689	2,910	143	48	66	165	900
25	105	128	995	380	394	622	2,840	154	37	101	103	288
26	94	2,790	694	303	357	774	4,770	148	29	75	72	151
27	85	2,870	628	1,130	359	689	5,040	157	25	73	54	96
28	96	1,200	530	2,370	419	629	7,520	210	36	59	43	75
29	163	967	440	1,580	-----	510	3,790	280	69	42	33	128
30	254	790	375	1,160	-----	471	1,710	370	87	35	28	1,100
31	246	-----	340	802	-----	433	-----	438	-----	32	24	-----
TOTAL	5,168	29,283	67,733	17,062	32,962	22,879	57,026	18,008	2,586	2,079	4,318	5,354.8
MEAN	167	976	2,185	550	1,177	738	1,901	581	86.2	67.1	139	178
MAX	520	2,870	13,000	2,370	3,230	1,930	7,520	3,890	288	177	446	1,100
MIN	69	128	340	130	357	304	446	143	25	26	14	7.1
MEAN/	175	984	2,193	557	1,184	746	1,908	588	95	75.8	149	188
CFSM/	.46	2.56	5.71	1.45	3.08	1.94	4.97	1.53	.25	.20	.39	.49
IN./	.53	2.86	6.58	1.67	3.21	2.24	5.54	1.76	.28	.23	.45	.55

CAL YR 1972 TOTAL 344,570.0 MEAN 941 MAX 13,000 MIN 19 MEAN/ 949 CFSM/ 2.47 IN/ 33.62
WTR YR 1973 TOTAL 264,458.8 MEAN 725 MAX 13,000 MIN 7.1 MEAN/ 733 CFSM/ 1.91 IN/ 25.93

PEAK DISCHARGE (BASE, 6,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1130	19.50	14,400	4-28	0415	12.64	8,140
12-22	1845	11.63	7,130				

/ Adjusted for diversion by City of Clarksburg; records furnished by Clarksburg Water Board.
a From floodmark.
NOTE.--Doubtful gage-height record Dec. 6-11.

03061000 West Fork River at Enterprise, W. Va.

LOCATION.--Lat 39°25'20", long 80°16'40", Harrison County, on left bank 150 ft (46 m) downstream from highway bridge at Enterprise, 0.8 mi (1.3 km) upstream from Bingamon Creek, and at mile 12.1 (19.5 km).

DRAINAGE AREA.--759 mi² (1,966 km²).

PERIOD OF RECORD.--June 1907 to September 1918 (gage heights only, October 1916 to September 1918), October 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 869.45 ft (265.008 m) above mean sea level, adjustment of 1912. June 1907 to Sept. 30, 1918, nonrecording gage at site 150 ft (46 m) upstream at same datum.

AVERAGE DISCHARGE.--49 years (1907-16, 1933-73), 1,139 ft³/s (32.26 m³/s), 20.38 in/yr (518 mm/yr).

EXTREMES.--Current year: Maximum discharge, 23,900 ft³/s (677 m³/s) Dec. 9, gage height, 21.25 ft (6.477 m), from rating curve extended as explained below; minimum, 56 ft³/s (1.59 m³/s) Sept. 13, 14, gage height, 1.22 ft (0.372 m).

Period of record: Maximum discharge, 36,500 ft³/s (1,030 m³/s) Mar. 7, 1967, gage height, 28.05 ft (8.550 m), from rating curve extended above 21,000 ft³/s (595 m³/s) on basis of slope-area measurement at gage height 27.84 ft (8.486 m); minimum, 3.4 ft³/s (0.10 m³/s) July 27, 1934; minimum gage height, 0.6 ft (0.183 m) Sept. 10, 14, 25, 1908.

Flood in 1888 reached a stage of about 33 ft (10 m), present site and datum.

REMARKS.--Records good. Records of instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: 1936. WSP 823: Drainage area. WSP 1113: 1936-38(M), 1939. WSP 1335: 1911-15, 1937. WSP 1625: 1915(M), 1935(M).

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	139	990	1,510	906	1,400	782	760	2,350	650	187	140	88
2	220	3,070	1,410	811	3,610	737	1,300	1,780	458	196	299	80
3	195	2,740	1,510	732	6,160	765	1,280	1,570	369	172	270	72
4	166	2,070	1,520	1,510	3,760	1,080	1,540	1,690	333	191	202	67
5	161	1,570	1,860	1,900	2,500	1,240	2,370	1,480	477	433	150	70
6	540	1,150	3,350	1,500	1,830	1,270	2,000	1,210	271	344	120	95
7	782	823	6,120	1,140	1,910	1,140	1,560	1,020	286	233	105	115
8	721	1,390	4,390	858	2,300	1,330	2,280	969	273	164	91	100
9	550	3,160	20,900	694	4,050	1,430	3,240	7,580	234	130	80	83
10	365	2,290	14,800	560	2,910	1,180	4,530	5,040	209	123	127	84
11	268	1,360	8,770	470	1,840	996	5,090	2,550	190	115	252	73
12	220	954	3,880	400	1,300	924	3,600	1,810	178	174	201	64
13	229	710	2,360	350	1,070	811	2,970	1,330	382	143	166	59
14	357	777	1,790	310	1,080	699	3,150	1,060	435	119	234	120
15	349	1,320	1,940	340	4,610	643	2,530	887	227	165	594	531
16	275	1,220	4,040	390	4,680	618	1,890	769	202	251	847	450
17	226	936	3,090	455	2,580	1,990	1,500	724	193	201	750	235
18	195	674	1,970	469	1,720	3,010	1,390	777	357	157	632	757
19	235	603	1,600	545	1,470	2,430	1,390	659	247	127	367	859
20	232	3,180	1,960	1,260	1,250	2,900	1,270	640	189	112	1,390	471
21	251	2,900	2,580	1,210	1,150	2,580	1,070	623	172	216	1,320	283
22	251	1,670	9,010	1,170	1,080	1,980	917	515	224	227	1,180	201
23	242	1,220	7,340	1,510	990	1,540	1,170	429	245	472	711	448
24	235	942	3,300	1,300	924	1,220	5,250	430	181	310	419	1,660
25	238	805	2,090	996	811	1,080	3,920	461	150	465	292	807
26	220	3,490	1,650	817	748	1,320	6,660	424	134	349	220	380
27	207	3,380	1,500	2,450	754	1,180	7,310	389	122	272	177	251
28	207	2,120	1,330	4,330	811	1,040	12,600	513	150	202	147	196
29	235	1,960	1,150	2,910	-----	887	7,410	580	170	183	129	246
30	317	1,740	1,030	2,100	-----	828	3,490	620	201	143	112	2,180
31	386	-----	954	1,600	-----	777	-----	778	-----	121	100	-----
TOTAL	9,214	51,214	120,704	35,993	59,298	40,407	95,437	41,657	7,909	6,697	11,824	11,125
MEAN	297	1,707	3,894	1,161	2,118	1,303	3,181	1,344	264	216	381	371
MAX	782	3,490	20,900	4,330	6,160	3,010	12,600	7,580	650	472	1,390	2,180
MIN	139	603	954	310	748	618	760	389	122	112	80	59
CFSM	.39	2.25	5.13	1.53	2.79	1.72	4.19	1.77	.35	.28	.50	.49
IN.	.45	2.51	5.92	1.76	2.91	1.98	4.68	2.04	.39	.33	.58	.55
CAL YR 1972	TOTAL 628,971	MEAN 1,719	MAX 20,900	MIN 90	CFSM 2.26	IN 30.83						
WTR YR 1973	TOTAL 491,479	MEAN 1,347	MAX 20,900	MIN 59	CFSM 1.77	IN 24.09						

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1400	21.25	23,900	4-28	1000	14.84	13,700

03061500 Buffalo Creek at Barrackville, W. Va.

LOCATION.--Lat 39°30'15", long 80°10'20", Marion County, near center of span on downstream side of highway bridge at Barrackville, 1,700 ft (518 m) upstream from Finchs Run, and at mile 4.0 (6.4 km).

DRAINAGE AREA.--115 mi² (298 km²).

PERIOD OF RECORD.--June 1907 to December 1908, May 1915 to June 1924, August 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 882.42 ft (268.962 m) above mean sea level, adjustment of 1912. Prior to Dec. 6, 1940, nonrecording gage at same site. Prior to June 4, 1943, at datum 1.98 ft (0.604 m) higher.

AVERAGE DISCHARGE.--50 years (1907-8, 1915-23, 1932-73), 163 ft³/s (4.616 m³/s), 19.25 in/yr (489 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,670 ft³/s (132 m³/s) Dec. 9, gage height, 11.41 ft (3.478 m); minimum, 3.7 ft³/s (0.10 m³/s) Oct. 2, gage height, 1.91 ft (0.582 m).
Period of record: Maximum discharge observed, 9,490 ft³/s (269 m³/s) Jan. 22, 1917, gage height, 16.2 ft (4.94 m), present datum; no flow during greater part of period September to November 1908.
Flood in July 1912 reached a stage of about 18 ft (5.5 m), present site and datum, discharge, 11,600 ft³/s (329 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 783: 1917(M). WSP 1335: 1916(M), 1918-20(M), 1921, 1922(M), 1924(M), 1933(M), 1940.

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	11	116	168	105	164	105	110	273	54	21	27	13
2	6.4	188	156	88	1,310	99	108	206	45	18	47	10
3	5.8	120	161	83	1,210	105	104	194	40	15	48	10
4	6.0	95	159	443	543	160	467	178	86	25	31	9.1
5	9.7	59	170	346	343	172	624	146	837	25	23	6.6
6	24	38	824	208	253	172	326	121	232	21	18	11
7	24	32	800	146	234	158	234	105	128	21	14	20
8	19	143	1,190	105	290	236	975	137	86	16	14	15
9	14	224	2,840	80	443	238	765	669	67	18	12	14
10	10	127	1,130	68	293	196	845	360	53	24	16	11
11	9.0	90	733	59	204	162	666	243	44	28	18	9.5
12	9.8	81	428	51	160	141	575	186	41	21	15	6.6
13	9.5	68	357	44	135	116	482	148	41	17	14	8.2
14	9.4	81	288	42	160	102	437	118	35	14	28	19
15	9.6	163	464	44	666	102	332	104	31	19	38	47
16	6.9	110	769	44	529	107	241	85	34	18	35	32
17	6.2	80	408	43	296	1,430	198	89	49	14	80	21
18	6.6	62	263	40	214	813	170	82	168	13	66	47
19	13	72	210	59	180	485	141	67	76	11	52	68
20	18	666	482	166	156	547	120	73	48	12	64	34
21	20	298	596	121	141	470	104	66	54	28	143	23
22	16	152	1,920	192	132	340	91	55	59	42	112	18
23	14	107	797	365	116	243	585	50	42	43	60	24
24	14	78	413	304	105	194	1,580	50	34	28	39	22
25	14	76	272	206	92	170	461	54	25	33	30	20
26	13	1,070	212	168	92	172	340	47	23	41	26	16
27	12	425	194	926	100	154	1,580	41	20	33	21	14
28	15	270	166	765	108	127	1,890	55	30	28	18	13
29	15	290	135	419	-----	112	757	50	25	23	16	18
30	14	216	121	246	-----	113	402	49	22	17	15	73
31	14	-----	115	184	-----	104	-----	66	-----	15	14	-----
TOTAL	388.9	5,597	16,941	6,160	8,669	7,845	15,710	4,167	2,529	702	1,154	653.0
MEAN	12.5	187	546	199	310	253	524	134	84.3	22.6	37.2	21.8
MAX	24	1,070	2,840	926	1,310	1,430	1,890	669	837	43	143	73
MIN	5.8	32	115	40	92	99	91	41	20	11	12	6.6
CFSM	.11	1.63	4.75	1.73	2.70	2.20	4.56	1.17	.73	.20	.32	.19
IN.	.13	1.81	5.48	1.99	2.80	2.54	5.08	1.35	.82	.23	.37	.21

CAL YR 1972 TOTAL 79,354.4 MEAN 217 MAX 2,840 MIN 4.8 CFSM 1.89 IN 25.67
WTR YR 1973 TOTAL 70,515.9 MEAN 193 MAX 2,840 MIN 5.8 CFSM 1.68 IN 22.81

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	0345	11.41	4,670	4-24	0115	10.76	4,110

03062400 Cobun Creek at Morgantown, W. Va.

LOCATION.--Lat 39°36'30", long 79°57'20", Monongalia County, on left bank at Morgantown, 30 ft(9 m) upstream from concrete box culvert on Greenbag Road, and at mile 1.4 (2.3 km).

DRAINAGE AREA.--10.9 mi² (28.2 km²).

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

GAGE.--Water-stage recorder and concrete and metal control. Altitude of gage is 890 ft (271.3 m), from topographic map.

AVERAGE DISCHARGE.--8 years, 15.0 ft³/s (0.425 m³/s), 18.69 in/yr (475 mm/yr).

EXTREMES.--Current year: Maximum discharge, 358 ft³/s (10.1 m³/s) May 9, gage height, 5.48 ft (1.670 m); minimum, 0.06 ft³/s (0.002 m³/s) Oct. 4, 5; minimum gage height, 0.41 ft (0.125 m) Sept. 27.
Period of record: Maximum discharge, 1,770 ft³/s (50.1 m³/s) June 23, 1972, gage height, 12.80 ft (3.901 m), from floodmark, from rating curve extended above 800 ft³/s (22.7 m³/s) on basis of culvert rating computation; no flow for many days.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

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	.11	12	18	10	16	11	31	27	5.5	1.4	15	1.3
2	.14	15	18	9.0	96	11	36	21	4.5	1.1	36	1.0
3	.14	12	20	20	81	13	28	20	3.7	1.3	13	.82
4	.08	9.0	22	18	43	14	34	17	5.5	2.0	9.0	.68
5	.26	6.5	23	16	30	14	30	15	18	5.5	6.0	.56
6	1.1	5.0	93	13	26	13	25	12	10	2.1	4.5	.61
7	5.0	4.5	48	11	28	12	20	11	8.0	1.3	3.5	.51
8	2.7	17	222	9.5	34	15	36	23	5.5	.82	2.8	.37
9	1.2	28	152	8.3	32	14	38	193	4.0	.68	2.3	.29
10	.65	18	124	7.2	22	13	45	58	3.5	2.3	2.4	.25
11	.42	14	51	6.5	16	12	37	36	2.8	5.0	3.2	.21
12	.36	11	35	5.8	13	12	27	25	3.7	2.0	2.4	.18
13	.42	9.5	26	5.2	12	11	18	20	13	1.2	2.0	.15
14	.57	19	36	4.9	33	9.5	22	16	6.5	.82	8.0	7.0
15	.42	26	54	6.0	77	9.5	30	13	4.0	2.0	7.5	2.8
16	.42	20	32	5.2	44	9.5	35	12	6.5	1.5	6.0	1.4
17	.36	16	24	4.6	25	19	23	13	11	.91	5.0	1.7
18	.26	14	20	5.0	21	21	17	11	35	.70	4.0	5.0
19	1.5	12	19	8.0	18	20	14	9.5	19	.60	4.5	2.6
20	1.1	10	27	15	17	21	12	9.5	12	1.5	6.0	1.5
21	.84	27	40	8.0	16	22	11	8.5	8.0	3.0	15	1.1
22	.74	22	127	15	14	19	9.8	7.5	7.0	4.5	11	.82
23	.96	16	56	23	13	17	42	7.0	5.0	11	8.0	2.6
24	1.5	13	34	20	12	16	57	7.5	4.0	6.0	6.0	2.0
25	1.5	38	25	17	11	16	41	7.5	3.3	4.0	5.0	1.3
26	1.2	75	23	15	11	19	37	6.0	2.6	3.0	3.7	.82
27	.96	30	18	36	12	17	103	5.5	2.0	2.2	3.0	.61
28	1.1	27	15	36	11	14	130	7.0	3.3	1.8	2.6	.56
29	1.3	22	13	31	-----	13	60	6.0	2.6	1.5	2.3	1.7
30	1.6	20	12	23	-----	13	37	8.0	1.9	1.2	1.9	2.5
31	1.3	-----	12	18	-----	12	-----	7.5	-----	1.1	1.7	-----
TOTAL	30.21	568.5	1,439	430.2	784	452.5	1,085.8	640.0	221.4	74.03	203.3	42.94
MEAN	.97	19.0	46.4	13.9	28.0	14.6	36.2	20.6	7.38	2.39	6.56	1.43
MAX	5.0	75	222	36	96	22	130	193	35	11	36	7.0
MIN	.08	4.5	12	4.6	11	9.5	9.8	5.5	1.9	.60	1.7	.15
CFSM	.09	1.74	4.26	1.28	2.57	1.34	3.32	1.89	.68	.22	.60	.13
IN.	.10	1.94	4.91	1.47	2.68	1.54	3.71	2.18	.76	.25	.69	.15
CAL YR 1972	TOTAL	9,539.67	MEAN	26.1	MAX	765	MIN	.02	CFSM	2.39	IN	32.56
WTR YR 1973	TOTAL	5,971.88	MEAN	16.4	MAX	222	MIN	.08	CFSM	1.50	IN	20.38

PEAK DISCHARGE (BASE, 250 CFS)

NOTE.--No gage-height record
July 17 to Aug. 17.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	1515	5.17	327	5- 9	0315	5.48	358

03063600 Horsecamp Run at Harman, W. Va.

LOCATION.--Lat 38°54'51", long 79°30'32", Randolph County, on right bank 1.0 mi (1.6 km) southeast of Harman, and at mile 1.1 (1.8 km).

DRAINAGE AREA.--6.57 mi² (17.02 km²).

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage and rainfall recorders. Datum of gage is 2,510.93 ft (765.331 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 532 ft³/s (15.1 m³/s) Oct. 5, gage height, 4.94 ft (1.506 m), from rating curve extended as explained below; no flow July 31, Aug. 1, 3-6, 9-11.

Period of record: Maximum discharge, 532 ft³/s (15.1 m³/s) Oct. 5, 1972, gage height, 4.94 ft (1.506 m), from rating curve extended above 90 ft³/s (2.55 m³/s) on basis of step-backwater method; no flow July 31, Aug. 1, 3-6, 9-11, 1973.

REMARKS.--Records fair. Rainfall records collected at site since July 1969 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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	5.4	13	13	4.8	12	7.7	43	5.1	1.1	.97	.10	.24
2	3.6	23	11	3.9	31	10	64	3.7	.87	.97	.10	.20
3	2.5	15	14	5.6	27	19	40	2.8	.70	.97	.05	.18
4	1.9	10	22	23	14	35	40	2.8	4.0	.97	0	.16
5	142	7.5	26	18	10	26	38	2.2	4.4	.97	0	.18
6	132	5.8	34	13	8.0	19	29	1.6	4.1	.89	.22	.16
7	80	4.8	35	8.0	7.3	13	25	1.2	3.5	.81	.34	.20
8	36	48	77	6.0	12	10	58	1.2	2.6	.71	.10	.16
9	18	51	130	4.5	13	6.3	40	1.8	2.4	.65	.05	.15
10	12	36	85	3.7	8.7	4.6	31	1.2	2.1	.61	0	.14
11	8.1	25	56	3.0	4.6	3.7	25	1.0	1.9	.52	.10	.12
12	6.9	16	37	2.5	3.3	3.3	20	.90	2.0	.51	.22	.11
13	6.6	12	26	2.0	2.8	2.8	16	.83	2.5	.41	1.2	.09
14	5.3	45	19	1.8	3.0	2.4	20	.77	1.9	.41	4.1	1.6
15	4.5	52	46	1.9	8.7	2.4	31	.70	1.6	.83	1.8	.89
16	3.9	32	48	1.8	5.1	5.6	31	.65	1.6	.81	.65	.57
17	3.5	22	31	1.8	3.5	17	34	.60	1.6	.89	.41	.41
18	2.8	14	23	1.9	2.8	18	30	.70	5.6	.73	.73	.49
19	5.1	29	18	5.6	2.4	16	23	.58	2.6	.50	.41	.57
20	4.1	66	36	4.6	2.0	15	17	.60	1.9	.70	.65	.41
21	4.3	39	45	2.4	1.8	14	13	.80	1.8	.76	2.0	.28
22	4.3	25	104	7.7	1.6	12	11	.62	2.5	.89	1.6	.28
23	4.1	17	54	5.8	1.5	11	10	.52	1.9	.73	.97	1.4
24	4.3	13	35	3.5	1.5	14	9.8	.63	1.6	.22	.89	1.2
25	3.5	12	25	2.8	1.4	17	12	.90	1.2	.10	1.6	.73
26	3.1	29	19	2.5	3.7	22	19	.70	1.2	.81	.81	.65
27	3.0	22	15	37	4.6	26	39	.59	.97	.34	.65	.57
28	3.9	19	12	35	3.5	19	30	1.6	1.4	.16	.50	.49
29	4.3	17	8.0	25	-----	14	14	3.1	.97	.10	.40	6.1
30	5.1	15	7.3	17	-----	12	8.4	2.0	.97	.05	.32	14
31	4.9	-----	6.5	14	-----	10	-----	1.5	-----	.05	.28	-----
TOTAL	529.0	735.1	1,117.8	270.1	200.8	407.8	821.2	43.89	63.48	19.04	21.25	32.73
MEAN	17.1	24.5	36.1	8.71	7.17	13.2	27.4	1.42	2.12	.61	.69	1.09
MAX	142	66	130	37	31	35	64	5.1	5.6	.97	4.1	14
MIN	1.9	4.8	6.5	1.8	1.4	2.4	8.4	.52	.70	.05	0	.09
CFSM	2.60	3.73	5.49	1.33	1.09	2.01	4.17	.22	.32	.09	.11	.17
IN ₆ /	3.00	4.16	6.33	1.53	1.14	2.31	4.65	.25	.36	.11	.12	.19
IN ₆ //	5.98	2.84	4.60	1.44	1.72	-	4.58	-	-	2.64	4.44	4.28
CAL YR 1972	TOTAL 6,295.02	MEAN 17.2	MAX 161	MIN .16	CFSM 2.62	IN ₆ / 35.64						
WTR YR 1973	TOTAL 4,262.19	MEAN 11.7	MAX 142	MIN 0	CFSM 1.78	IN ₆ / 24.13						

PEAK DISCHARGE (BASE, 160 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	2200	4.94	532	12- 9	0145	3.44	200

/ Runoff.
// Rainfall.

03065000 Dry Fork at Hendricks, W. Va.

LOCATION.--Lat 39°04'20", long 79°37'20", Tucker County, on right bank at Hendricks, 0.4 mi (0.6 km) upstream from confluence with Blackwater River.

DRAINAGE AREA.--345 mi² (894 km²).

PERIOD OF RECORD.--October 1940 to current year. Published as "Dry Fork River," 1949-52.

GAGE.--Water-stage recorder. Datum of gage is 1,698.76 ft (517.782 m) above mean sea level, adjustment of 1912. Prior to Dec. 21, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--33 years, 746 ft³/s (21.13 m³/s), 29.36 in/yr (746 mm/yr).

EXTREMES.--Current year: Maximum discharge, 23,700 ft³/s (671 m³/s) Oct. 6, gage height, 11.06 ft (3.371 m), from rating curve extended as explained below; minimum, 38 ft³/s (1.08 m³/s) Sept. 13, 14, gage height, 1.26 ft (0.384 m).

Period of record: Maximum discharge, 47,000 ft³/s (1,330 m³/s) Oct. 15, 1954, gage height, 15.23 ft (4.642 m), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurement of peak flow; minimum, 5.5 ft³/s (0.17 m³/s) Sept. 10, 11, 1965, gage height, 0.99 ft (0.302 m).

REMARKS.--Records good.

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	262	1,280	950	494	733	571	1,220	1,510	680	132	180	88
2	166	2,770	799	423	1,930	797	3,310	1,130	510	127	211	76
3	144	1,750	824	383	2,730	1,690	2,640	1,090	440	147	144	67
4	84	1,200	1,170	1,260	1,750	2,740	2,290	1,170	370	130	99	63
5	3,450	906	1,850	1,090	1,300	2,580	2,440	972	1,800	122	75	71
6	11,200	712	2,430	865	1,070	2,300	1,790	814	940	99	61	64
7	5,730	596	2,810	667	1,000	1,790	1,500	679	1,400	81	64	66
8	2,780	2,790	3,700	550	1,170	1,450	2,660	608	840	68	60	64
9	1,500	4,450	9,940	460	1,330	1,150	2,400	1,100	500	60	53	60
10	951	2,570	6,130	400	1,030	928	2,070	958	380	56	54	56
11	682	1,720	4,020	380	821	795	1,570	838	320	59	143	50
12	577	1,290	2,230	300	667	725	1,280	709	300	59	167	45
13	714	992	1,590	270	622	611	1,050	598	1,020	51	338	40
14	547	2,300	1,200	260	593	524	967	504	509	45	1,030	105
15	441	3,790	2,180	300	952	488	1,460	440	320	52	1,320	279
16	377	2,150	2,830	280	990	479	2,230	410	245	66	661	164
17	352	1,460	1,730	270	723	841	3,150	380	392	101	419	100
18	313	1,080	1,260	280	640	1,260	3,050	410	1,270	110	695	116
19	368	1,060	1,080	387	580	1,020	1,950	370	766	75	448	123
20	433	3,670	1,560	729	530	948	1,390	350	455	57	318	92
21	368	2,470	2,030	521	493	947	1,090	460	356	58	493	72
22	374	1,680	5,620	463	412	859	863	450	585	84	453	61
23	368	1,250	3,250	655	370	764	860	380	488	181	324	220
24	418	957	1,950	511	350	858	1,200	600	323	297	246	430
25	375	815	1,390	422	322	1,260	1,200	1,100	243	162	462	216
26	341	1,640	1,100	421	410	1,770	1,740	980	195	231	324	133
27	314	1,560	904	903	520	2,590	2,500	860	204	327	218	98
28	332	1,280	732	1,570	506	1,760	4,540	1,400	266	183	172	80
29	499	1,210	597	1,300	-----	1,300	3,060	2,000	220	132	143	213
30	637	1,050	540	937	-----	1,060	2,050	1,300	168	225	120	1,750
31	535	-----	550	784	-----	880	-----	980	-----	145	102	-----
TOTAL	35,632	52,448	68,946	18,535	24,544	37,735	59,520	25,550	16,505	3,722	9,597	5,062
MEAN	1,149	1,748	2,224	598	877	1,217	1,984	824	550	120	310	169
MAX	11,200	4,450	9,940	1,570	2,730	2,740	4,540	2,000	1,800	327	1,320	1,750
MIN	84	596	540	260	322	479	860	350	168	45	53	40
CFSM	3.33	5.07	6.45	1.73	2.54	3.53	5.75	2.39	1.59	.35	.90	.49
IN	3.84	5.66	7.43	2.00	2.65	4.07	6.42	2.75	1.78	.40	1.03	.55

CAL YR 1972 TOTAL 463,436 MEAN 1,266 MAX 13,000 MIN 40 CFMS 3.67 IN 49.97
WTR YR 1973 TOTAL 357,796 MEAN 980 MAX 11,200 MIN 40 CFMS 2.84 IN 38.58

PEAK DISCHARGE (BASE, 7,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	0130	11.06	23,700	12- 9	0400	8.59	12,600

03066000 Blackwater River at Davis, W. Va.

LOCATION.--Lat 39°07'35", long 79°28'10", Tucker County, on right bank 0.4 mi (0.6 km) southwest of Davis, 0.5 mi (0.8 km) downstream from Beaver Creek, and at mile 10.6 (17.1 km).

DRAINAGE AREA.--86.2 mi² (223.3 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 3,058.87 ft (932.344 m) above mean sea level, levels by West Virginia Power and Transmission Co. Prior to Dec. 18, 1952, nonrecording gage at site 60 ft (18 m) downstream at same datum.

AVERAGE DISCHARGE.--52 years, 195 ft³/s (5.522 m³/s), 30.72 in/yr (780 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,030 ft³/s (85.8 m³/s) Oct. 7, gage height, 8.47 ft (2.582 m); minimum, 12 ft³/s (0.34 m³/s) July 14, Sept. 13, 14, gage height, 1.39 ft (0.424 m).
Period of record: Maximum discharge, 7,170 ft³/s (203 m³/s) Mar. 29, 1924, gage height, 13.20 ft (4.023 m), from floodmark; minimum, 1.5 ft³/s (0.042 m³/s) Sept. 11, 12, 1959, gage height, 0.90 ft (0.274 m), caused by filling of small water supply pool about 1.0 mi (1.6 km) upstream.

REMARKS.--Records good.

REVISIONS (WATER YEARS)--WSP 583: 1921-23. WSP 803: Drainage area. WSP 1173: 1931-34(M,m). WSP 1305: 1928(M), 1932-37 (M), 1939-41(M), 1944-48(M).

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	63	350	203	138	155	176	255	423	145	43	237	26
2	40	505	193	113	685	221	651	335	110	39	222	23
3	27	348	215	108	641	507	508	322	92	34	93	20
4	19	224	337	491	338	645	483	330	84	31	52	18
5	408	175	448	319	262	566	531	257	477	30	37	18
6	2,140	143	578	180	241	495	385	200	232	27	29	21
7	2,520	128	656	162	226	369	314	162	363	23	50	21
8	1,050	850	917	130	269	304	774	167	200	20	37	18
9	364	1,050	2,460	110	248	242	620	572	122	18	24	16
10	200	666	1,940	95	186	189	473	349	100	17	20	16
11	141	406	1,360	84	152	162	370	263	82	16	40	14
12	128	312	645	73	157	146	320	193	85	15	63	13
13	178	242	462	65	205	125	269	159	259	15	63	12
14	143	596	347	64	147	109	257	138	128	14	279	84
15	107	834	626	74	306	100	445	122	77	24	557	146
16	94	482	798	69	226	95	676	106	67	32	272	66
17	91	314	423	67	196	169	732	98	181	30	174	34
18	80	244	310	84	160	182	721	101	1,070	21	684	50
19	96	275	280	165	140	191	469	86	437	16	228	57
20	101	885	400	295	120	170	426	89	188	26	117	40
21	96	607	730	176	112	163	478	115	132	43	126	29
22	87	359	1,490	124	100	147	273	87	148	57	110	23
23	83	282	1,070	147	91	135	289	73	130	188	81	69
24	98	229	538	113	86	183	527	85	92	113	67	148
25	89	200	367	125	83	301	450	118	73	49	92	78
26	76	555	299	91	112	379	626	99	60	90	76	43
27	66	438	252	315	129	484	680	81	54	123	57	30
28	87	317	204	430	114	306	1,120	291	76	59	48	23
29	141	307	173	284	-----	217	865	421	85	72	41	32
30	167	229	168	189	-----	212	541	229	57	45	35	350
31	122	-----	167	170	-----	194	-----	187	-----	39	31	-----
TOTAL	9,102	12,552	19,056	5,050	5,887	7,884	15,528	6,258	5,406	1,369	4,042	1,538
MEAN	294	418	615	163	210	254	518	202	180	44.2	130	51.3
MAX	2,520	1,050	2,460	491	685	645	1,120	572	1,070	188	684	350
MIN	19	128	167	64	83	95	255	73	54	14	20	12
CFSM	3.41	4.85	7.13	1.89	2.44	2.95	6.01	2.34	2.09	.51	1.51	.60
IN.	3.93	5.42	8.22	2.18	2.54	3.40	6.70	2.70	2.33	.59	1.74	.66

CAL YR 1972 TOTAL 116,646 MEAN 319 MAX 2,520 MIN 11 CFSM 3.70 IN 50.34
WTR YR 1973 TOTAL 93,672 MEAN 257 MAX 2,520 MIN 12 CFSM 2.98 IN 40.42

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 7	1000	8.47	3,030	12-22	1200	6.29	1,600
12- 9	0900	8.04	2,730				

03068610 Taylor Run at Bowden, W. Va.

LOCATION.--Lat 38°54'27", long 79°41'49", Randolph County, on upstream side of left abutment of bridge on U.S. Highway 33, 450 ft (137 m) upstream from mouth, and 0.7 mi (1.1 km) east of Bowden.

DRAINAGE AREA.--5.06 mi² (13.11 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 2,240 ft (683 m), from topographic map.

EXTREMES.--June to September 1973: Maximum discharge during period, 87 ft³/s (2.46 m³/s) Sept. 29, gage height, 5.08 ft (1.548 m); minimum, 0.47 ft³/s (0.013 m³/s) Aug. 9, 10, gage height, 3.72 ft (1.134 m).

REMARKS.--Records good.

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									-	7.1	2.5	1.9
2									-	6.0	2.4	1.5
3									-	6.0	1.4	1.3
4									-	16	.95	1.1
5									-	6.5	.78	1.1
6									-	4.8	.69	2.9
7									-	3.7	.66	2.5
8									-	3.0	.57	1.2
9									-	3.6	.51	1.0
10									-	3.0	1.4	1.3
11									-	3.5	3.7	.83
12									-	2.4	9.4	.73
13									-	1.8	18	.65
14									-	1.5	24	8.4
15									-	3.7	25	4.3
16									-	2.6	15	2.0
17									-	1.8	10	1.3
18									-	1.2	12	2.8
19									-	1.0	11	1.9
20									20	1.1	11	1.2
21									17	1.2	20	1.0
22									27	2.3	16	1.0
23									17	1.9	12	13
24									13	1.2	9.1	6.3
25									10	1.4	7.8	3.3
26									8.5	9.7	5.9	2.3
27									7.9	3.3	4.9	1.9
28									7.1	2.1	4.2	1.6
29						-----			5.8	3.0	3.5	13
30						-----			4.7	1.6	2.8	23
31		-----				-----	-----		-----	1.1	2.3	-----
TOTAL									-	109.1	239.46	106.31
MEAN									-	3.52	7.72	3.54
MAX									-	16	25	23
MIN									-	1.0	.51	.65
CFSM									-	.70	1.53	.70
IN.									-	.80	1.76	.78

03069000 Shavers Fork at Parsons, W. Va.

LOCATION.--Lat 39°05'45", long 79°40'40", Tucker County, on right bank at Parsons, 0.7 mi (1.1 km) upstream from confluence with Black Fork.

DRAINAGE AREA.--214 mi² (554 km²).

PERIOD OF RECORD.--October 1910 to September 1926, October 1940 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,634.87 ft (498.308 m) above mean sea level. Prior to Aug. 25, 1923, nonrecording gage on old highway bridge 800 ft (244 m) downstream and Aug. 25, 1923, to Sept. 30, 1926, nonrecording gage on railroad bridge 760 ft (232 m) downstream at datum 3.0 ft (0.9 m) lower. Oct. 4, 1940, to Apr. 4, 1942, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--49 years, 550 ft³/s (15.58 m³/s), 34.90 in/yr (886 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,900 ft³/s (309 m³/s) Oct. 6, gage height, 9.69 ft (2.954 m); minimum, 31 ft³/s (0.88 m³/s) Sept. 13, gage height, 0.49 ft (0.149 m).

Period of record: Maximum discharge, 16,000 ft³/s (453 m³/s) Oct. 16, 1954, gage height, 12.34 ft (3.761 m), from rating curve extended above 11,000 ft³/s (312 m³/s) on basis of slope-conveyance study; minimum observed, 1 ft³/s (0.028 m³/s) Oct. 7, 1914, gage height, 2.0 ft (0.61 m), site and datum then in use. Minimum stage and discharge both very doubtful.

Flood of July 10, 1888, and July 17, 1907, reached a stage of approximately 12.5 ft (3.81 m) at site and datum of former gage, discharge, 25,000 ft³/s (708 m³/s), from rating curve extended above 8,000 ft³/s (227 m³/s).

REMARKS.--Records good except those for ice-affected days in January, which are poor.

REVISIONS (WATER YEARS).--WSP 583: 1922. WSP 923: Drainage area. WSP 1335: 1911-12, 1915-17, 1918(M), 1921-22(M), 1926(M). WSP 1705: 1955.

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	469	1,300	482	390	420	380	622	922	480	108	206	81
2	273	2,960	409	348	1,680	435	2,400	698	360	142	213	68
3	190	1,330	422	320	2,350	622	1,820	650	290	186	145	57
4	146	821	538	587	1,180	1,880	1,420	986	250	175	113	57
5	552	597	1,180	866	818	1,740	1,770	698	954	140	93	68
6	6,130	465	1,680	580	658	2,300	1,210	556	1,030	104	74	76
7	3,160	389	2,690	430	682	1,660	1,000	460	882	85	62	83
8	2,030	1,900	2,250	336	826	1,410	1,650	420	532	72	59	104
9	996	3,160	7,240	290	970	1,130	1,770	1,040	365	61	62	77
10	616	1,610	4,940	250	650	818	1,400	1,060	304	77	61	62
11	446	1,050	3,280	210	472	643	1,130	682	256	70	70	48
12	376	823	1,600	190	390	568	874	615	244	53	85	40
13	450	649	1,140	170	360	508	690	478	544	45	155	34
14	426	1,140	882	160	352	420	650	410	344	38	445	66
15	333	2,550	1,380	180	496	380	874	348	264	61	826	121
16	287	1,290	2,020	180	698	415	1,190	316	213	64	460	233
17	262	844	1,130	170	435	622	2,480	292	203	81	308	138
18	242	624	778	190	370	1,130	3,000	312	544	173	352	124
19	247	558	658	270	350	658	1,520	296	455	87	425	98
20	305	1,790	858	480	330	580	1,030	284	320	68	320	85
21	276	1,610	1,270	370	312	587	770	352	244	57	312	76
22	252	961	3,400	310	280	562	594	420	425	72	484	64
23	251	700	2,110	430	244	490	550	344	375	157	415	117
24	259	542	1,230	360	230	502	1,030	470	264	292	276	300
25	255	463	890	280	226	674	922	710	200	237	220	244
26	239	778	698	270	264	986	1,280	630	162	206	220	150
27	221	1,010	580	380	360	2,400	1,520	540	138	233	173	108
28	223	679	472	954	360	1,520	3,580	950	150	237	142	85
29	309	605	405	794	-----	1,040	1,990	1,400	138	206	121	157
30	511	540	360	554	-----	802	1,240	940	117	223	104	698
31	455	-----	375	445	-----	658	-----	670	-----	157	93	-----
TOTAL	21,187	33,738	47,347	11,746	16,763	28,520	41,976	18,949	11,047	3,967	7,094	3,719
MEAN	683	1,125	1,527	379	599	920	1,399	611	368	128	229	124
MAX	6,130	3,160	7,240	954	2,350	2,400	3,580	1,400	1,030	292	826	698
MIN	146	389	360	160	226	380	550	284	117	38	59	34
CFSM	3.19	5.26	7.14	1.77	2.80	4.30	6.54	2.86	1.72	.60	1.07	.58
IN.	3.68	5.86	8.23	2.04	2.91	4.96	7.30	3.29	1.92	.69	1.23	.65

CAL YR 1972 TOTAL 319,215 MEAN 872 MAX 9,620 MIN 61 CFSM 4.07 IN 55.49
WTR YR 1973 TOTAL 246,053 MEAN 674 MAX 7,240 MIN 34 CFSM 3.15 IN 42.77

PEAK DISCHARGE (BASE, 5,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	0615	9.69	10,900	12- 9	0930	8.94	9,490

03069500 Cheat River near Parsons, W. Va.

LOCATION.--Lat 39°07'20", long 79°40'50", Tucker County, on left bank 2.0 mi (3.2 km) north of Parsons, 3.0 mi (4.8 km) downstream from confluence of Black and Shavers Forks, and at mile 74.8 (120.4 km).

DRAINAGE AREA.--718 mi² (1,860 km²).

PERIOD OF RECORD.--January 1913 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,589.66 ft (484.528 m) above mean sea level, adjustment of 1912. Prior to Aug. 17, 1944, nonrecording gage on Moss Bridge about 1,600 ft (488 m) upstream at datum 1.13 ft (0.344 m) higher.

AVERAGE DISCHARGE.--60 years, 1,672 ft³/s (47.35 m³/s), 31.62 in/yr (803 mm/yr).

EXTREMES.--Current year: Maximum discharge, 34,600 ft³/s (980 m³/s) Oct. 6, gage height, 14.03 ft (4.276 m), from floodmark, from rating curve extended as explained below; minimum, 92 ft³/s (2.61 m³/s) Sept. 13, 14, gage height, 2.01 ft (0.613 m).

Period of record: Maximum discharge, 52,100 ft³/s (1,480 m³/s) Oct. 15, 1954, gage height, 19.08 ft (5.816 m), from rating curve extended above 26,000 ft³/s (736 m³/s) on basis of slope-area measurement of peak flow; minimum observed, 9 ft³/s (0.25 m³/s) Aug. 12, 1930, gage height, 1.28 ft (0.390 m), site and datum then in use.

Flood of July 10, 1888, reached a stage of 20.5 ft (6.25 m), discharge, 51,300 ft³/s (1,450 m³/s), from floodmarks, at site and datum in use prior to Aug. 17, 1944; it was not exceeded until flood of Oct. 15, 1954, which reached a stage 0.3 ft (0.09 m) higher at that site and datum.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

REVISIONS (WATER YEARS).--WSP 893: Drainage area. WSP 1305: 1917(M), 1924(M), 1932(M), 1936(M), 1938-39(M). WSP 1335: 1916. WSP 1385: 1918-19(M).

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	670	3,130	1,920	1,170	1,490	1,190	2,190	3,310	1,870	317	692	207
2	600	7,110	1,640	1,000	4,360	1,610	6,640	2,530	1,420	315	862	178
3	390	4,010	1,680	868	6,340	3,000	5,470	2,320	1,120	381	471	156
4	280	2,670	2,310	2,500	3,700	5,700	4,560	2,810	942	339	305	146
5	260	2,010	3,890	2,530	2,710	5,250	5,260	2,240	2,800	313	233	158
6	15,000	1,560	4,930	1,850	2,270	5,470	3,800	1,860	2,560	249	185	157
7	9,800	1,280	6,910	1,370	2,190	4,070	3,160	1,530	2,670	205	174	162
8	5,900	5,790	7,380	1,090	2,520	3,370	5,330	1,330	1,670	175	180	179
9	3,100	10,100	22,800	939	2,850	2,730	5,240	3,050	1,110	153	151	153
10	1,800	5,600	15,300	830	2,180	2,150	4,330	2,870	862	154	146	135
11	1,400	3,670	9,970	690	1,710	1,800	3,440	2,170	692	155	243	119
12	1,200	2,840	5,130	644	1,330	1,620	2,810	1,860	644	140	347	106
13	1,550	2,500	3,650	565	1,210	1,400	2,310	1,520	2,340	121	491	95
14	1,310	3,100	2,820	540	1,160	1,170	2,140	1,250	1,230	110	1,710	237
15	991	8,100	4,360	625	2,030	1,050	3,000	1,070	771	145	3,520	604
16	826	4,500	6,400	597	2,260	1,070	4,590	935	589	198	1,820	512
17	754	3,040	3,750	568	1,520	1,590	7,070	858	845	184	978	286
18	677	2,290	2,810	570	1,230	2,800	7,570	907	3,820	314	2,420	310
19	722	2,020	2,360	773	1,200	2,030	4,440	800	2,260	188	1,450	333
20	916	7,040	3,220	1,680	1,110	1,880	5,140	743	1,250	176	905	239
21	799	5,350	4,430	1,250	1,000	1,890	2,750	1,020	898	203	1,020	190
22	759	3,480	11,600	1,060	860	1,770	2,100	1,010	1,430	253	1,230	160
23	737	2,600	7,450	1,470	776	1,540	1,890	834	1,280	618	923	458
24	826	2,030	4,310	1,240	743	1,690	3,380	1,250	818	870	634	1,030
25	782	1,720	3,050	929	672	2,440	2,940	2,510	596	502	814	606
26	698	3,350	2,430	883	815	3,340	4,280	2,430	468	538	676	344
27	627	3,520	2,060	1,550	1,090	5,760	4,880	1,900	446	774	472	246
28	662	2,650	1,670	3,340	1,080	3,880	10,300	3,450	582	533	377	198
29	1,030	2,500	1,370	2,710	-----	2,790	6,790	5,030	509	459	318	267
30	1,600	2,160	1,210	1,950	-----	2,300	4,460	3,100	391	538	273	3,560
31	1,310	-----	1,240	1,630	-----	1,960	-----	2,430	-----	353	236	-----
TOTAL	57,976	111,720	154,050	39,411	52,406	80,310	130,260	60,927	38,883	9,973	24,256	11,531
MEAN	1,870	3,724	4,969	1,271	1,872	2,591	4,342	1,965	1,296	322	782	384
MAX	15,000	10,100	22,800	3,340	6,340	5,760	10,300	5,030	3,820	870	3,520	3,560
MIN	260	1,280	1,210	540	672	1,050	1,890	743	391	110	146	95
CFSM	2.60	5.19	6.92	1.77	2.61	3.61	6.05	2.74	1.81	.45	1.09	.53
IN.	3.00	5.79	7.98	2.04	2.72	4.16	6.75	3.16	2.01	.52	1.26	.60

CAL YR 1972 TOTAL 1,006,895 MEAN 2,751 MAX 27,300 MIN 110 CFSM 3.83 IN 52.17
WTR YR 1973 TOTAL 771,703 MEAN 2,114 MAX 22,800 MIN 95 CFSM 2.94 IN 39.98

PEAK DISCHARGE (BASE, 16,000 CFS)

a From floodmark.

NOTE.--No gage-height record
Oct. 1-11.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE		
10-	6	unknown	14.03	34,600	12-	9	0900	12.43	27,400

03069880 Buffalo Creek near Rowlesburg, W. Va.

LOCATION.--Lat 39°17'19", long 79°42'16", Preston County, on left bank 150 ft (46 m) upstream from secondary highway bridge, 4.5 mi (7.2 km) southwest of Rowlesburg, and at mile 2.8 (4.5 km).

DRAINAGE AREA.--12.2 mi² (31.6 km²).

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

GAGE.--Water-stage and rainfall recorders. Altitude of gage is 1,640 ft (499.9 m), from topographic map.

AVERAGE DISCHARGE.--6 years, 30.8 ft³/s (0.872 m³/s), 34.28 in/yr (871 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,890 ft³/s (53.5 m³/s) Dec. 8, gage height, 4.93 ft (1.503 m), from rating curve extended as explained below; minimum daily, 0.14 ft³/s (0.004 m³/s) Sept. 13.

Period of record: Maximum discharge, 2,690 ft³/s (76.2 m³/s) Sept. 13, 1971, gage height, 5.66 ft (1.725 m), from rating curve extended above 1,500 ft³/s (42.5 m³/s) on basis of step-backwater method; minimum, 0.06 ft³/s (0.002 m³/s) July 17, 18, 1971, gage height, 0.77 ft (0.235 m).

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Rainfall records collected at site since August 1967 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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	8.9	162	32	15	25	29	63	32	23	1.8	5.0	.90
2	4.6	140	26	15	173	33	193	24	17	1.4	17	.70
3	3.8	76	44	17	138	89	71	25	14	1.3	6.5	.60
4	3.2	50	77	38	57	89	78	25	10	1.4	3.8	.50
5	15	31	106	38	38	48	78	23	8.7	2.6	2.7	.40
6	33	20	149	30	34	32	48	20	7.5	2.0	2.1	.50
7	82	17	120	23	52	26	34	16	6.4	1.1	1.8	.60
8	40	251	507	18	67	21	61	17	4.7	.85	1.5	.34
9	15	219	560	15	67	18	64	131	4.3	.58	1.4	.21
10	9.6	82	256	13	43	17	76	77	3.6	2.0	1.3	.24
11	6.8	47	103	11	26	16	58	46	2.9	2.6	2.2	.20
12	5.7	29	49	10	21	16	43	34	3.9	1.8	1.7	.17
13	6.8	24	34	9.2	19	15	32	26	8.7	1.4	1.3	.14
14	6.2	89	26	8.6	18	14	38	20	3.9	1.3	12	.70
15	6.2	111	64	9.6	91	14	67	17	2.9	1.7	6.2	5.6
16	5.7	56	113	8.5	74	13	69	14	2.9	2.1	5.8	2.4
17	5.7	35	49	7.8	43	36	47	15	23	1.4	5.8	1.3
18	5.1	22	38	7.8	27	52	39	12	61	1.1	5.8	4.8
19	5.1	44	25	24	22	38	33	9.8	23	.95	4.7	4.4
20	5.1	162	44	37	19	34	35	13	11	1.5	4.3	2.4
21	4.6	89	66	16	16	35	63	12	7.5	3.0	3.9	1.7
22	4.6	48	253	20	15	29	44	12	5.8	4.5	3.9	1.4
23	4.6	31	83	24	15	27	130	12	4.7	15	3.9	4.2
24	5.1	22	44	24	13	36	211	14	3.6	8.0	3.9	9.8
25	5.1	20	30	22	12	43	116	17	2.9	5.0	3.3	4.0
26	5.7	106	25	19	15	43	133	17	2.6	3.7	2.4	2.1
27	5.7	79	22	55	28	44	138	17	2.4	2.8	2.4	1.5
28	8.9	48	19	87	28	35	315	37	3.9	2.2	1.6	1.2
29	17	40	16	58	-----	26	106	63	3.9	1.8	1.4	3.2
30	28	39	15	39	-----	24	50	43	2.4	1.5	1.4	18
31	23	-----	15	30	-----	25	-----	31	-----	1.3	1.3	-----
TOTAL	385.8	2,189	3,010	749.5	1,196	1,017	2,533	871.8	282.1	79.68	122.3	74.20
MEAN	12.4	73.0	97.1	24.2	42.7	32.8	84.4	28.1	9.40	2.57	3.95	2.47
MAX	82	251	560	87	173	89	315	131	61	15	17	18
MIN	3.2	17	15	7.8	12	13	32	9.8	2.4	.58	1.3	.14
CFSM	1.02	5.98	7.96	1.98	3.50	2.69	6.92	2.30	.77	.21	.32	.20
IN./	1.18	6.67	9.18	2.29	3.65	3.10	7.72	2.66	.86	.24	.37	.23
IN./f	4.27	6.45	6.81	2.35	3.64	2.51	8.81	4.06	-	-	-	-

CAL YR 1972 TOTAL 17,043.65 MEAN 46.6 MAX 1,010 MIN .95 CFSM 3.82 IN./ 51.97
WTR YR 1973 TOTAL 12,510.38 MEAN 34.3 MAX 560 MIN .14 CFSM 2.81 IN./ 38.15

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 8	1900	3.04	500	12- 8	2200	4.93	1,890

/ Runoff.

// Rainfall.

NOTE.--No gage-height record

July 15 to Aug. 15, and Sept. 1-30.

03070000 Cheat River at Rowlesburg, W. Va.

LOCATION.--Lat 39°20'50", long 79°40'00", Preston County, on left bank 50 ft (15 m) downstream from Baltimore & Ohio Railroad bridge at Rowlesburg, 300 ft (91 m) upstream from Saltlick Creek, and at mile 44.1 (71.0 km). Records include flow of Saltlick Creek.

DRAINAGE AREA.--972 mi² (2,517 km²), including that of Saltlick Creek.

PERIOD OF RECORD.--July 1912 to September 1923 (gage heights only), October 1923 to current year. Gage-height records collected at practically the same site since 1884 are contained in reports of National Weather Service. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,369.8 ft (417.52 m) above mean sea level, Baltimore & Ohio RR bench mark. Prior to Nov. 18, 1923, nonrecording gages at several sites within 500 ft (152 m) of present site at various datums.

AVERAGE DISCHARGE.--50 years, 2,239 ft³/s (63.41 m³/s), 31.28 in/yr (795 mm/yr).

EXTREMES.--Current year: Maximum discharge, 41,400 ft³/s (1,170 m³/s) Dec. 9, gage height, 11.76 ft (3.584 m); minimum observed, 125 ft³/s (3.54 m³/s) Sept. 13, gage height, 0.70 ft (0.213 m).
Period of record: Maximum discharge, 66,300 ft³/s (1,880 m³/s) Oct. 16, 1954, gage height, 15.67 ft (4.776 m), from rating curve extended above 42,000 ft³/s (1,190 m³/s); minimum, 10 ft³/s (0.28 m³/s) Oct. 15, 1930; minimum gage height observed, 0.50 ft (0.152 m) Oct. 3, 1968.
Flood of July 6, 1844, reached a stage of 16.7 ft (5.09 m), referred to present gage by relation curve, discharge, 89,000 ft³/s (2,520 m³/s), from rating curve extended above 45,000 ft³/s (1,270 m³/s). Flood of July 10, 1888, reached a stage of 16.2 ft (4.94 m), referred to present gage by relation curve, discharge, 84,000 ft³/s (2,380 m³/s), from rating curve extended above 45,000 ft³/s (1,270 m³/s).

REMARKS.--Records good. Records of instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 803: Drainage area. WSP 893: 1936-37. WSP 1173: 1924-34(M,m). WSP 1725: 1924(M), 1930(M), 1932(M), 1936(M), 1938-39(M), 1944(M), 1948-49(M).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	925	3,070	2,700	1,420	1,900	1,720	2,700	4,700	2,280	475	1,280	284
2	865	9,480	2,280	1,270	4,300	2,180	8,740	3,680	1,740	398	1,830	250
3	535	5,780	2,290	1,130	10,200	3,560	7,920	3,040	1,400	416	1,090	215
4	382	3,670	2,940	2,230	5,720	7,490	6,410	3,680	1,170	461	631	192
5	359	2,590	4,910	3,390	3,900	6,650	7,910	3,120	2,230	438	436	174
6	21,400	1,950	6,190	2,530	3,100	6,660	5,620	2,590	3,790	366	336	192
7	14,400	1,590	10,300	1,870	3,120	5,170	4,270	2,160	3,100	305	296	188
8	8,440	5,600	10,300	1,550	3,490	4,210	5,530	1,890	2,330	250	260	188
9	4,070	14,700	36,900	1,240	4,290	3,470	7,310	4,580	1,550	225	250	206
10	2,420	8,470	21,800	1,100	3,380	2,740	5,990	5,400	1,170	206	220	183
11	1,680	5,360	15,400	993	2,540	2,310	5,070	3,750	942	206	210	161
12	1,360	4,140	7,140	879	1,960	2,050	4,040	3,040	830	201	348	145
13	1,400	3,270	4,680	795	1,750	1,820	3,250	2,480	2,910	183	396	129
14	1,500	4,230	3,540	740	1,630	1,570	2,910	2,020	2,040	157	900	165
15	1,170	11,000	4,070	916	2,540	1,380	4,090	1,690	1,260	210	3,840	626
16	980	6,510	9,350	891	3,590	1,330	6,020	1,440	903	260	2,710	703
17	867	4,190	5,380	783	2,620	1,600	7,310	1,270	1,290	255	1,590	495
18	795	3,060	3,520	737	1,970	3,550	10,600	1,240	5,560	240	2,150	549
19	749	2,540	2,930	818	1,800	2,810	6,210	1,190	3,870	320	2,040	704
20	891	8,350	3,210	1,770	1,600	2,580	4,260	1,080	2,130	308	1,350	471
21	916	8,020	5,650	1,950	1,470	2,570	3,690	1,170	1,460	439	1,100	337
22	830	4,970	15,100	1,710	1,290	2,530	2,870	1,420	1,470	511	1,360	272
23	818	3,570	10,600	1,630	1,130	2,230	2,870	1,170	2,010	556	1,530	390
24	867	2,730	5,750	1,710	1,070	2,310	5,790	1,270	1,340	1,130	930	1,220
25	916	2,280	3,840	1,280	971	2,970	4,520	3,120	960	891	775	1,190
26	842	3,890	2,970	1,140	1,010	3,950	6,600	3,430	736	577	1,000	674
27	772	5,410	2,480	1,560	1,470	6,360	6,350	2,720	614	790	703	438
28	760	3,790	2,010	4,370	1,710	5,200	14,700	3,080	735	803	527	331
29	929	3,390	1,680	3,840	-----	3,660	10,200	6,410	760	598	435	326
30	1,680	3,010	1,470	2,770	-----	2,980	6,440	3,980	602	648	370	3,400
31	1,680	-----	1,430	2,200	-----	2,550	-----	2,910	-----	613	317	-----
TOTAL	76,198	150,610	212,810	51,212	75,521	102,160	180,210	84,720	53,182	13,436	31,008	14,798
MEAN	2,458	5,020	6,865	1,652	2,697	3,295	6,007	2,733	1,773	433	1,000	493
MAX	21,400	14,700	36,900	4,370	10,200	7,490	14,700	6,410	5,560	1,130	3,840	3,400
MIN	359	1,590	1,430	737	971	1,330	2,700	1,080	602	157	210	129
CFSM	2.53	5.16	7.06	1.70	2.77	3.39	6.18	2.81	1.82	.45	1.03	.51
IN.	2.92	5.76	8.14	1.96	2.89	3.91	6.90	3.24	2.04	.51	1.19	.57

CAL YR 1972 TOTAL 1,351,212 MEAN 3,692 MAX 40,500 MIN 129 CFSM 3.80 IN 51.71
WTR YR 1973 TOTAL 1,045,865 MEAN 2,865 MAX 36,900 MIN 129 CFSM 2.95 IN 40.03

PEAK DISCHARGE (BASE, 20,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	1015	10.97	35,800	12- 9	0430	11.76	41,400

03070500 Big Sandy Creek at Rockville, W. Va.

LOCATION.--Lat 39°37'15", long 79°42'20", Preston County, on right bank just downstream from highway bridge at Rockville, and at mile 5.0 (8.0 km).

DRAINAGE AREA.--200 mi² (518 km²).

PERIOD OF RECORD.--May 1909 to March 1918, April 1921 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,310 ft (399 m), from topographic map. Prior to Oct. 4, 1924, nonrecording gages at highway bridge at same datum.

AVERAGE DISCHARGE.--60 years (1909-17, 1921-73), 418 ft³/s (11.83 m³/s), 28.38 in/yr (721 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,730 ft³/s (191 m³/s) Dec. 9, gage height, 11.54 ft (3.517 m); minimum, 8.7 ft³/s (0.25 m³/s) Oct. 5, gage height, 3.09 ft (0.942 m).
Period of record: Maximum discharge observed, 21,300 ft³/s (603 m³/s) July 24, 1912, gage height, 18.0 ft (5.49 m), from rating curve extended above 10,000 ft³/s (283 m³/s) on basis of velocity-area studies; minimum, 0.1 ft³/s (0.003 m³/s) Oct. 21-27, 1953.
Flood of July 10, 1888, reached a stage of about 20 ft (6.1 m), discharge, about 30,000 ft³/s (850 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS)--WSP 583: 1912(M), 1922-23. WSP 643: Drainage area. WSP 923: 1939. WSP 1173: 1930-34(M,m). WSP 1335: 1910-18, 1921, 1922-24(M), 1928(M), 1930-43(M).

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	17	126	505	317	505	452	504	849	275	48	338	19
2	18	281	444	275	1,180	557	1,230	647	236	42	814	17
3	15	253	505	250	2,010	701	963	593	199	37	351	14
4	11	201	645	765	1,150	909	1,240	525	193	36	199	12
5	12	140	952	670	826	738	1,270	438	392	67	132	11
6	39	104	1,550	530	675	616	884	370	272	56	96	15
7	281	85	1,820	399	631	522	690	320	350	38	77	25
8	109	602	1,960	296	754	548	1,180	343	250	29	61	21
9	48	1,330	5,110	238	873	496	1,170	3,000	193	24	51	16
10	31	696	3,410	200	665	444	1,260	1,500	157	29	53	17
11	16	472	2,180	180	509	392	1,080	1,050	130	172	72	13
12	14	357	1,270	160	370	364	892	799	140	74	53	11
13	22	275	1,100	146	340	311	731	638	781	42	43	9.9
14	30	1,410	855	140	330	269	668	516	350	31	231	79
15	20	1,420	1,090	161	787	250	651	431	217	38	227	133
16	14	792	1,630	146	781	243	592	364	212	48	157	54
17	12	575	983	131	552	505	520	350	385	38	111	32
18	12	432	711	143	460	675	455	317	1,200	27	140	124
19	21	444	575	184	420	565	386	264	557	21	94	115
20	31	1,580	809	293	392	526	336	250	353	102	78	58
21	28	1,060	909	180	353	561	307	238	253	126	110	42
22	23	738	3,190	284	305	529	263	197	203	980	109	33
23	24	561	1,790	472	260	457	463	180	163	545	78	75
24	41	440	1,050	432	240	435	1,260	195	128	253	61	124
25	47	414	765	343	226	428	976	226	105	153	51	68
26	38	1,900	631	327	296	518	1,240	193	87	119	45	47
27	31	1,190	548	754	429	465	2,000	176	75	94	39	36
28	31	809	452	1,190	399	388	4,550	215	74	72	34	30
29	43	655	377	964	-----	344	2,290	258	73	58	30	82
30	54	561	340	600	-----	384	1,240	231	59	48	25	484
31	52	-----	330	530	-----	375	-----	302	-----	41	21	-----
TOTAL	1,185	19,903	38,486	11,700	16,718	14,967	31,311	15,975	8,062	3,488	3,981	1,816.9
MEAN	38.2	663	1,241	377	597	483	1,044	515	269	113	128	60.6
MAX	281	1,900	5,110	1,190	2,010	909	4,550	3,000	1,200	980	814	484
MIN	11	85	330	131	226	243	263	176	59	21	21	9.9
CFSM	.19	3.32	6.21	1.89	2.99	2.42	5.22	2.58	1.35	.57	.64	.30
IN.	.22	3.70	7.16	2.18	3.11	2.78	5.82	2.97	1.50	.65	.74	.34

CAL YR 1972 TOTAL 220,913.3 MEAN 604 MAX 11,900 MIN 6.2 CFSM 3.02 IN 41.09
WTR YR 1973 TOTAL 167,592.9 MEAN 459 MAX 5,110 MIN 9.9 CFSM 2.30 IN 31.17

PEAK DISCHARGE (BASE, 4,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	0800	11.54	6,730	4-28	1100	10.32	5,470

03112000 Wheeling Creek at Elm Grove, W. Va.

LOCATION.--Lat 40°02'40", long 80°39'40", Ohio County, on right bank at highway bridge at Elm Grove, 500 ft (152 m) downstream from Little Wheeling Creek, and at mile 7.7 (12.4 km).

DRAINAGE AREA.--282 mi² (730 km²).

PERIOD OF RECORD.--October 1940 to current year. Monthly discharge only for October 1940, published in WSP 1907.

GAGE.--Water-stage recorder. Datum of gage is 667.59 ft (203.481 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 319 ft³/s (9.034 m³/s), 15.36 in/yr (390 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,200 ft³/s (261 m³/s) Dec. 9, gage height, 7.85 ft (2.393 m); minimum, 3.4 ft³/s (0.096 m³/s) Sept. 5, gage height, 1.19 ft (0.363 m).
Period of record: Maximum discharge, 22,100 ft³/s (626 m³/s) Dec. 30, 1942, gage height, 13.67 ft (4.167 m), from rating curve extended above 15,000 ft³/s (425 m³/s) on basis of slope-area measurements at gage heights 13.2 ft (4.02 m) and 13.67 ft (4.167 m); minimum, 0.1 ft³/s (0.003 m³/s) Oct. 7, 1963, Sept. 26, 27, 1964; minimum gage height, 0.63 ft (0.192 m) Aug. 31, 1953.

REMARKS.--Records fair.

REVISIONS (WATER YEARS)--WSP 1305: 1941(M).

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	297	102	480	368	460	270	350	938	302	47	31	9.6
2	127	344	410	314	1,350	272	500	721	235	33	31	8.6
3	76	452	392	304	1,650	331	497	689	200	27	25	7.7
4	51	250	374	921	1,150	1,090	1,180	595	200	24	25	5.3
5	39	162	392	772	844	900	1,490	488	326	25	16	4.0
6	56	123	970	603	689	712	974	400	290	19	12	16
7	158	120	1,240	380	629	568	746	345	215	22	9.6	35
8	142	536	2,820	250	674	568	1,480	586	166	16	8.6	28
9	95	608	4,810	200	733	488	1,460	2,530	135	12	7.7	21
10	64	398	2,020	170	587	431	1,500	1,090	120	11	6.1	16
11	46	285	1,320	150	400	380	1,360	1,310	99	72	5.3	9.6
12	76	205	1,070	130	270	356	1,160	900	89	44	4.0	8.6
13	82	158	950	120	230	308	1,150	624	92	27	4.0	6.1
14	76	230	845	115	300	296	860	473	76	19	6.1	16
15	59	362	1,150	110	816	404	712	386	62	15	6.1	25
16	51	250	1,550	120	737	438	611	320	59	16	6.1	54
17	44	190	977	110	489	2,280	531	308	158	15	35	35
18	51	158	794	110	430	1,770	499	270	338	12	146	71
19	64	150	664	160	380	1,190	430	240	190	12	25	49
20	64	696	1,070	410	340	1,040	372	250	76	9.6	68	42
21	56	640	1,060	317	300	885	327	220	86	15	398	31
22	54	410	2,060	517	270	718	296	186	73	127	245	24
23	79	296	1,530	738	250	589	894	174	65	127	127	35
24	109	225	1,060	573	230	495	1,810	205	49	82	68	62
25	112	205	811	437	210	452	1,140	338	40	71	49	73
26	99	1,160	705	404	220	472	1,110	255	33	54	35	42
27	86	960	671	1,220	250	516	2,680	230	25	51	25	28
28	79	830	568	1,510	274	420	4,450	270	25	42	21	21
29	82	688	470	1,120	-----	371	2,150	225	76	40	19	96
30	76	560	420	728	-----	360	1,310	245	89	31	13	186
31	70	-----	396	500	-----	329	-----	404	-----	24	12	-----
TOTAL	2,620	11,753	34,049	13,881	15,162	19,699	34,029	16,215	3,989	1,141.6	1,489.6	1,065.5
MEAN	84.5	392	1,098	448	542	635	1,134	523	133	36.8	48.1	35.5
MAX	297	1,160	4,810	1,510	1,650	2,280	4,450	2,530	338	127	398	186
MIN	39	102	374	110	210	270	296	174	25	9.6	4.0	4.0
CFSM	.30	1.39	3.89	1.59	1.92	2.25	4.02	1.85	.47	.13	.17	.13
IN.	.35	1.55	4.49	1.83	2.00	2.60	4.49	2.14	.53	.15	.20	.14

CAL YR 1972 TOTAL 189,474.4 MEAN 518 MAX 8,300 MIN 4.7 CFSM 1.84 IN 24.99

WTR YR 1973 TOTAL 155,093.7 MEAN 425 MAX 4,810 MIN 4.0 CFSM 1.51 IN 20.46

PEAK DISCHARGE (BASE, 6,000 CFS).--Dec. 9 (0030) 9,200 cfs (7.85 ft).

03113700 Little Grave Creek near Glendale, W. Va.

LOCATION.--Lat 39°57'50", long 80°42'04", Marshall County, on right bank 0.1 mi (0.2 km) downstream from Brandau Hollow, 2.9 mi (4.7 km) northeast of Glendale, and at mile 6.1 (9.8 km).

DRAINAGE AREA.--4.97 mi² (12.87 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage and rainfall recorders. Concrete control since July 23, 1970. Altitude of gage is 840 ft (256 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 212 ft³/s (6.00 m³/s) June 17, gage height, 3.33 ft (1.015 m), from rating curve extended above 100 ft³/s (2.83 m³/s); no flow July 30, 31, Aug. 3, 4-14, Sept. 4, 5, 8-10, 28, 29.

Period of record: Maximum discharge, 1,380 ft³/s (39.1 m³/s) May 6, 1971, gage height, 5.88 ft (1.792 m), from rating curve extended above 150 ft³/s (4.25 m³/s) on basis of step-backwater method; no flow July 30, 31, Aug. 3, 4-14, Sept. 4, 5, 8-10, 28, 29, 1973.

REMARKS.--Records fair. Rainfall records collected at site since December 1969 are contained in files of U.S. Geological Survey.

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	2.2	1.6	7.8	3.4	8.0	3.2	8.4	16	7.9	1.3	.46	.27
2	1.4	7.1	6.8	2.9	20	3.2	7.4	14	5.9	1.2	.27	.14
3	1.1	6.4	6.4	5.9	18	5.5	6.9	16	5.1	1.0	.08	.14
4	.90	3.8	6.8	14	14	9.9	18	14	5.5	.93	.08	.08
5	.90	2.7	6.4	8.4	11	9.9	16	11	9.4	1.0	0	0
6	1.2	2.3	18	5.9	9.9	8.9	14	9.9	10	.83	0	.38
7	1.4	2.7	14	4.0	9.4	8.4	12	8.9	7.4	.73	0	.14
8	1.1	14	82	3.4	12	7.9	28	34	5.1	.63	0	0
9	.90	8.2	42	3.0	10	6.4	21	36	4.0	.63	0	0
10	.72	5.5	15	2.6	8.9	5.5	29	19	3.2	1.5	0	.14
11	.72	4.4	8.9	2.3	7.6	5.1	21	23	2.7	1.2	0	.14
12	1.3	3.4	10	2.1	7.0	5.1	20	16	2.3	.73	0	.14
13	1.1	2.8	8.9	2.0	8.9	5.1	19	12	2.1	.63	0	.08
14	.90	5.7	6.4	1.9	7.9	5.1	16	10	1.8	.46	0	.93
15	.81	5.1	14	2.1	14	6.9	14	8.9	1.5	.73	.14	.54
16	.81	4.2	12	1.9	9.4	14	12	7.9	1.5	.46	.14	.30
17	.64	3.4	6.0	2.1	7.2	40	12	7.4	34	.27	2.9	.27
18	.56	2.8	5.0	2.3	6.2	24	11	6.4	19	.14	1.8	.83
19	.72	3.6	5.3	5.9	5.5	19	9.9	5.5	5.5	.30	1.2	.38
20	.56	13	13	5.1	5.1	17	8.9	6.9	3.4	.30	1.6	.30
21	.56	8.2	10	4.0	4.7	15	8.4	5.1	2.9	1.8	13	.27
22	.56	6.0	33	11	4.0	12	8.4	4.7	2.5	1.2	2.1	.14
23	.90	4.9	17	10	3.7	11	44	4.3	2.1	.73	1.3	.73
24	1.0	3.9	12	7.9	3.4	9.4	32	5.5	1.8	.46	.93	.38
25	.90	5.3	9.9	6.4	3.2	8.9	25	6.4	1.6	.83	.83	.27
26	.81	12	8.9	5.9	3.4	14	22	5.1	1.4	.54	.63	.14
27	.72	12	7.4	30	3.4	15	77	5.1	1.3	.38	.54	.08
28	.72	12	5.9	20	3.2	12	67	5.1	2.1	.38	.46	0
29	.72	10	4.7	16	-----	10	30	4.0	1.9	.27	.46	2.5
30	.64	8.9	4.3	12	-----	9.9	21	13	1.4	.08	.38	2.1
31	.64	-----	4.0	9.0	-----	8.9	-----	12	-----	0	.30	-----
TOTAL	28.11	185.9	411.8	213.4	229.0	336.2	639.3	353.1	156.3	21.64	29.60	11.81
MEAN	.91	6.20	13.3	6.88	8.18	10.8	21.3	11.4	5.21	.70	.95	.39
MAX	2.2	14	82	30	20	40	77	36	34	1.8	13	2.5
MIN	.56	1.6	4.0	1.9	3.2	3.2	6.9	4.0	1.3	0	0	0
CF5M	.18	1.25	2.68	1.38	1.65	2.17	4.29	2.29	1.05	.14	.19	.08
IN.	.21	1.39	3.08	1.60	1.71	2.52	4.79	2.64	1.17	.16	.22	.09

CAL YR 1972 TOTAL 2,269.84 MEAN 6.20 MAX 82 MIN .08 CF5M 1.25 IN 16.99
 WTR YR 1973 TOTAL 2,616.16 MEAN 7.17 MAX 82 MIN 0 CF5M 1.44 IN 19.58

PEAK DISCHARGE (BASE, 140 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	1745	2.98	205	6-17	2000	3.33	212
5- 8	2100	2.96	164				

03114500 Middle Island Creek at Little, W. Va.

LOCATION.--Lat 39°28'30", long 80°59'50", Tyler County, on right bank at downstream side of highway bridge at Little, 0.1 mi (0.2 km) upstream from Stewarts Run, 5.0 mi (8.0 km) west of Middlebourne, and at mile 24.5 (39.4 km).

DRAINAGE AREA.--458 mi² (1,186 km²).

PERIOD OF RECORD.--May 1915 to September 1922 (gage heights only, October 1916 to September 1922), October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 631.32 ft (192.426 m) above mean sea level, adjustment of 1912. Prior to July 11, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--46 years (1915-16, 1928-73), 617 ft³/s (17.47 m³/s), 18.29 in/yr (465 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,900 ft³/s (394 m³/s) Dec. 9, gage height, 16.46 ft (5.017 m); minimum, 2.5 ft³/s (0.071 m³/s) Sept. 13, 14, gage height, 1.92 ft (0.585 m).
Period of record: Maximum discharge, 25,000 ft³/s (708 m³/s) June 26, 1950, gage height, 28.0 ft (8.53 m), from floodmarks; no flow during parts of 1922 and Sept. 1 to Nov. 4, Nov. 7-10, 1930.
Flood in August 1875 reached a stage of about 33.5 ft (10.21 m).

REMARKS.--Records good. Records of instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

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	16	56	744	375	680	264	289	946	197	20	30	13
2	16	535	565	316	2,200	245	296	697	160	16	63	11
3	17	553	523	279	5,170	251	314	582	121	16	114	11
4	13	306	523	1,940	2,340	481	1,890	737	95	28	63	9.9
5	11	204	608	1,750	1,320	583	3,050	666	187	78	36	8.3
6	9.1	136	1,770	978	903	751	1,390	511	157	154	35	7.5
7	9.1	99	4,910	639	813	661	918	410	114	64	26	6.8
8	9.1	218	3,460	426	1,080	768	2,140	366	97	32	19	6.0
9	9.1	966	12,900	319	2,230	968	2,820	4,650	74	22	14	4.9
10	8.3	673	7,470	240	1,330	758	2,800	3,800	58	16	11	3.9
11	7.3	345	4,150	200	791	581	2,800	1,160	47	16	12	3.4
12	8.7	245	1,570	170	500	486	2,070	758	42	12	11	3.1
13	8.2	175	1,190	150	400	405	1,930	541	46	11	11	2.8
14	8.4	204	915	130	450	335	2,220	398	45	9.1	11	6.2
15	11	463	1,340	130	3,350	325	1,530	296	39	9.1	36	32
16	15	376	3,100	134	2,720	343	1,010	245	31	7.5	166	42
17	15	245	1,600	149	1,210	3,570	752	214	28	6.8	194	24
18	18	175	891	173	793	4,040	594	208	32	12	320	19
19	24	148	709	303	620	1,990	497	187	36	16	225	46
20	19	2,070	1,800	1,250	514	2,520	423	160	30	16	125	30
21	17	1,490	2,190	951	443	1,880	356	151	39	19	85	22
22	17	602	6,810	895	380	1,270	306	148	63	35	388	14
23	16	366	4,810	1,270	340	877	593	130	63	66	190	16
24	12	270	1,540	1,110	310	642	5,410	121	40	46	125	23
25	11	241	968	787	290	516	2,170	121	32	73	87	26
26	11	3,650	713	580	260	495	1,660	139	26	222	59	27
27	12	2,540	698	2,810	260	549	3,970	130	23	292	42	31
28	16	1,110	692	5,170	274	467	8,290	128	19	214	32	26
29	16	1,390	572	1,940	-----	366	3,460	145	23	116	26	30
30	14	1,080	464	1,160	-----	323	1,440	139	26	69	20	894
31	17	-----	413	772	-----	298	-----	249	-----	43	17	-----
TOTAL	411.3	20,931	70,608	27,496	31,971	28,008	57,388	19,133	1,990	1,756.5	2,593	1,399.8
MEAN	13.3	698	2,278	887	1,142	903	1,913	617	66.3	56.7	83.6	46.7
MAX	24	3,650	12,900	5,170	5,170	4,040	8,290	4,650	197	292	388	894
MIN	7.3	56	413	130	260	245	289	121	19	6.8	11	2.8
CFSM	.03	1.52	4.97	1.94	2.49	1.97	4.18	1.35	.14	.12	.18	.10
IN.	.03	1.70	5.73	2.23	2.60	2.27	4.66	1.55	.16	.14	.21	.11

CAL YR 1972 TOTAL 334,802.5 MEAN 915 MAX 12,900 MIN 4.9 CFSM 2.00 IN 27.19
WTR YR 1973 TOTAL 263,685.6 MEAN 722 MAX 12,900 MIN 2.8 CFSM 1.58 IN 21.42

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-9	1800	16.46	13,900	4-28	0600	12.70	9,340
12-22	2000	12.89	9,570				

03114650 Buffalo Run near Little, W. Va.

LOCATION.--Lat 39°29'13", long 80°00'27", Tyler County, on left bank 1.0 mi (1.6 km) northwest of Little, and at mile 1.2 (1.9 km).

DRAINAGE AREA.--4.21 mi² (10.90 km²).

PERIOD OF RECORD.--January 1969 to current year.

GAGE.--Water-stage and rainfall recorders. Altitude of gage is 660 ft (201 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 282 ft³/s (7.99 m³/s) Dec. 8, gage height, 4.61 ft (1.405 m), from rating curve extended above 100 ft³/s (2.83 m³/s) on basis of peak discharge at sta 03114550 and sta 03114600; minimum, 0.04 ft³/s (0.001 m³/s) July 2, 3, 4; minimum gage height, 1.94 ft (0.591 m) Sept. 13, 14.

Period of record: Maximum discharge, 1,400 ft³/s (39.6 m³/s) Apr. 5, 1969, gage height, 6.17 ft (1.881 m), from rating curve extended above 100 ft³/s (2.83 m³/s) on basis of step-backwater method; maximum gage height, 7.35 ft (2.240 m) June 29, 1972; minimum daily discharge, 0.01 ft³/s (<0.001 m³/s) Sept. 5-19, 22-30, Oct. 1, 31, 1969.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Rainfall records collected at site since January 1969 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

REVISIONS (WATER YEARS).--WRD W. Va., 1972: 1971(P).

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	1.4	1.0	5.1	4.3	6.3	2.4	1.4	4.8	1.1	.05	.18	.20
2	.70	6.1	4.3	3.4	23	2.2	1.4	3.6	.60	.05	.22	.20
3	.50	5.2	3.1	31	16	3.0	1.6	4.1	.54	.05	.22	.18
4	.40	3.4	3.8	43	13	8.3	65	3.1	1.5	3.4	.18	.18
5	.40	1.8	5.9	11	10	8.4	20	2.4	.90	1.5	.16	.16
6	.60	1.0	49	5.6	8.2	7.2	8.3	1.8	.60	.42	.12	.14
7	.90	1.8	16	3.1	7.3	6.2	7.2	1.5	.30	.32	.11	.14
8	.70	12	174	1.9	13	6.7	87	25	1.1	.26	.09	.10
9	.50	7.0	94	1.3	9.0	7.6	26	31	.14	.24	.08	.11
10	.35	4.6	70	.95	6.1	5.0	50	7.2	.11	.24	.11	.11
11	.32	3.5	30	.88	4.5	3.9	26	4.1	.09	.22	.11	.09
12	.80	2.5	21	.83	4.0	3.0	21	2.6	.08	.22	.07	.09
13	.60	1.7	21	.80	3.6	2.0	29	2.0	.07	.20	.07	.09
14	.45	14	14	.80	4.1	1.8	20	1.5	.08	.18	2.4	.80
15	.35	1.6	52	.95	20	3.2	9.7	1.1	.37	.20	4.3	.54
16	.40	.68	35	1.1	9.7	11	6.1	.90	.20	.20	.57	.36
17	.35	.42	15	1.4	6.4	109	4.6	1.1	.09	.14	.45	.32
18	.32	.28	10	1.6	5.3	30	3.8	.72	.09	.12	.39	3.2
19	.40	3.6	11	14	4.6	28	3.1	.60	.10	.09	.39	.60
20	.30	34	72	9.0	4.0	21	2.5	1.1	.09	.08	.48	.45
21	.24	5.6	34	4.6	3.6	10	2.2	.68	.13	.26	.76	.39
22	.25	2.9	84	8.7	3.3	5.9	1.6	.54	.22	.30	.57	.36
23	.23	2.0	30	13	3.0	4.1	21	.51	.22	.26	.42	1.6
24	.21	1.6	17	8.2	2.7	3.2	18	.72	.12	.20	.34	.64
25	.20	14	10	5.7	2.4	3.2	9.0	.72	.07	1.0	.34	.48
26	.20	42	10	5.0	2.3	3.6	6.6	1.1	.05	1.1	.30	.42
27	.21	11	11	30	2.6	2.5	103	.90	.05	.48	.28	.39
28	.27	16	9.0	17	2.5	2.2	55	1.6	.07	.28	.28	.36
29	.35	13	6.6	13	-----	1.8	15	.72	.28	.24	.26	10
30	.30	6.4	5.6	9.0	-----	1.6	7.2	7.6	.07	.20	.24	3.9
31	.35	-----	5.1	7.0	-----	1.5	-----	2.5	-----	.16	.22	-----
TOTAL	13.55	220.68	928.5	258.11	200.5	309.5	632.3	117.81	9.43	12.66	14.71	26.60
MEAN	.44	7.36	30.0	8.33	7.16	9.98	21.1	3.80	.31	.41	.47	.89
MAX	1.4	42	174	43	23	109	103	31	1.5	3.4	4.3	10
MIN	.20	.28	3.1	.80	2.3	1.5	1.4	.51	.05	.05	.07	.09
CFSM	.10	1.75	7.13	1.98	1.70	2.37	5.01	.90	.07	.10	.11	.21
IN./	.12	1.95	8.20	2.28	1.77	2.73	5.59	1.04	.08	.11	.13	.24
IN./f	1.83	5.12	5.41	-	-	-	5.57	-	-	-	-	-
CAL YR 1972	TOTAL	3,040.58	MEAN	8.31	MAX	184	MIN	.09	CFSM	1.97	IN/	26.87
WTR YR 1973	TOTAL	2,744.35	MEAN	7.52	MAX	174	MIN	.05	CFSM	1.79	IN/	24.25

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	1315	4.61	282	4- 8	0815	4.31	222
3-17	0430	4.56	272	4-27	0900	4.23	206
4- 4	0845	4.35	230	5- 8	2015	4.28	216

/ Runoff.

// Rainfall.

NOTE.--No gage-height record
Oct. 1 to Nov. 14, Jan. 22
to Mar. 13.

03150800 Ohio River near Marietta, Ohio

LOCATION.--Lat 39°23'21", long 81°29'03", Washington County, on right bank 1.5 mi (2.4 km) southwest of Marietta, 2.0 mi (3.2 km) downstream from Muskingum River, and at mile 174.3 (280.4 km), measured downstream from Pittsburgh, Pa.

DRAINAGE AREA.--35,600 mi² (92,200 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 567.12 ft (172.858 m) above mean sea level, Sandy Hook datum.

EXTREMES.--Current year: Maximum gage height, 30.24 ft (9.217 m) Dec. 10; minimum, 14.69 ft (4.478 m) July 24.

Period of record: Maximum gage height, 36.09 ft (11.000 m) June 26, 1972; minimum, 10.83 ft (3.301 m) Oct. 6, 1968.

REMARKS.--Records published as a stage control station.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.17	15.43	17.70	17.50	17.70	16.62	17.73	22.36	17.40	15.19	15.28	14.98
2	16.33	15.77	17.62	16.93	18.15	17.00	17.22	21.08	16.83	15.33	15.17	14.85
3	15.84	16.61	17.22	17.00	19.77	17.23	17.94	20.25	16.50	15.17	15.21	15.11
4	15.39	17.41	16.92	18.45	22.17	17.89	18.82	19.92	16.15	15.03	15.16	15.21
5	15.39	17.81	17.47	19.24	22.35	18.31	20.18	19.39	17.09	15.29	14.96	15.04
6	15.35	17.10	18.64	19.45	20.75	19.09	21.09	18.71	17.93	15.29	14.99	15.34
7	15.76	16.14	21.04	19.24	19.84	19.37	21.22	17.87	17.76	15.00	15.18	15.02
8	16.23	17.24	23.92	18.30	19.71	19.43	21.18	16.84	16.57	14.97	14.97	14.93
9	15.72	17.87	28.71	17.04	19.94	18.93	21.60	18.07	16.44	14.93	15.18	15.16
10	15.59	18.63	29.77	15.99	19.62	18.43	21.76	19.49	16.20	15.07	15.23	14.91
11	15.52	18.92	29.47	15.93	19.07	17.93	21.75	20.09	15.91	15.25	15.10	15.06
12	15.45	18.24	26.21	15.73	18.11	17.61	21.55	20.77	15.89	15.10	15.02	15.13
13	15.39	17.60	23.67	15.43	17.28	17.46	21.28	20.69	16.36	15.10	15.14	14.97
14	15.28	17.37	22.88	15.54	16.58	16.80	20.85	19.98	15.82	15.05	15.29	15.05
15	15.17	18.73	22.90	15.60	17.74	17.42	19.81	19.25	15.73	15.25	15.08	15.12
16	15.33	20.58	23.94	15.43	18.65	20.83	18.79	18.38	15.59	15.19	15.44	15.07
17	15.01	20.38	23.47	15.28	17.78	23.19	18.08	17.76	15.50	15.03	15.49	15.16
18	15.00	19.59	22.22	15.31	16.13	24.49	17.87	17.16	16.34	14.99	15.40	14.89
19	15.22	19.25	21.52	15.46	16.07	25.01	18.03	16.73	16.77	15.01	15.20	15.18
20	15.16	19.57	21.50	15.76	15.82	23.79	18.27	16.40	16.08	15.07	15.43	15.09
21	15.20	19.73	22.13	16.25	16.20	22.66	17.71	16.10	16.01	15.42	15.66	15.18
22	15.07	19.77	23.25	16.43	16.14	22.00	16.44	16.40	15.75	15.32	15.84	14.88
23	15.01	19.13	24.84	16.71	16.01	21.44	16.77	16.27	15.97	15.30	15.92	15.32
24	15.22	18.26	25.26	16.99	15.99	20.84	18.19	16.38	15.55	15.10	15.53	15.09
25	15.28	17.65	23.65	17.28	15.33	20.25	18.71	17.47	15.27	15.30	15.05	15.24
26	15.36	17.89	22.61	16.71	15.31	19.69	18.41	17.92	15.44	15.53	14.98	15.20
27	15.19	18.84	21.99	17.25	15.34	19.67	18.98	16.96	15.20	15.48	15.06	14.91
28	15.21	18.97	21.26	18.30	16.19	20.04	23.17	16.89	15.22	15.25	15.06	15.17
29	15.33	18.51	20.03	18.38	-----	19.58	25.68	17.07	15.36	15.24	15.12	15.23
30	15.20	18.06	18.80	18.47	-----	18.43	24.86	17.52	15.16	15.04	15.13	15.32
31	15.18	-----	18.09	17.85	-----	17.88	-----	17.66	-----	15.01	15.02	-----
MFAN	15.40	18.24	22.22	16.95	17.85	19.66	19.80	18.32	16.13	15.17	15.24	15.09
MAX	16.33	20.58	29.77	19.45	22.35	25.01	25.68	22.36	17.93	15.53	15.92	15.34
MIN	15.00	15.43	16.92	15.28	15.31	16.62	16.44	16.10	15.16	14.93	14.96	14.85

NOTE.--Add 567.12 ft to obtain elevation above mean sea level.

03151500 Little Kanawha River near Burnsville, W. Va.

LOCATION.--Lat 38°49'25", long 80°35'35", Braxton County, on left bank at downstream side of bridge on State Highway 5, 0.1 mi (0.2 km) downstream from Knawl Creek, 4.0 mi (6.4 km) southeast of Burnsville, and at mile 126.9 (204.2 km).

DRAINAGE AREA.--155 mi² (401 km²).

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 754.00 ft (229.819 m) above mean sea level, adjustment of 1912, levels by Corps of Engineers. Prior to Feb. 26, 1940, nonrecording gage at site 100 ft (30 m) upstream. Prior to Oct. 29, 1963, at datum 2.09 ft (0.637 m) higher.

AVERAGE DISCHARGE.--36 years, 282 ft³/s (7.986 m³/s), 24.71 in/yr (628 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,500 ft³/s (156 m³/s) Dec. 9, gage height, 17.15 ft (5.227 m); minimum daily, 6.5 ft³/s (0.18 m³/s) Sept. 6.

Period of record: Maximum discharge, 9,200 ft³/s (261 m³/s) Feb. 3, 1939, gage height, 21.13 ft (6.440 m), present datum; minimum, 0.01 ft³/s (<0.001 m³/s) Nov. 15-21, 1953; minimum gage height, 1.25 ft (0.381 m) Sept. 1, 1962, present datum.

Flood of March 1918 reached a stage of 21.8 ft (6.64 m), present datum, from floodmark, discharge, about 9,800 ft³/s (278 m³/s).

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

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	110	750	336	203	370	259	222	872	205	20	80	11
2	100	1,860	304	168	642	250	578	745	155	18	42	9.7
3	50	690	324	151	1,210	260	734	694	118	16	31	8.6
4	30	338	403	351	886	280	699	723	101	24	19	7.5
5	24	198	675	359	591	252	831	686	238	47	13	7.5
6	22	128	853	319	467	229	708	633	208	28	10	6.5
7	180	98	1,380	247	604	198	536	564	173	20	15	8.6
8	300	399	1,250	190	802	203	920	528	155	14	8.3	11
9	200	1,460	4,780	158	995	186	1,020	1,600	126	11	6.7	11
10	100	807	3,510	118	650	163	1,550	1,200	100	9.7	118	9.4
11	75	439	2,560	92	424	148	1,040	800	71	8.9	65	8.0
12	65	312	906	80	288	146	782	500	198	7.7	68	7.2
13	280	249	591	70	240	125	736	350	428	6.9	397	6.7
14	260	242	458	70	296	110	593	260	225	6.7	622	39
15	170	906	648	80	853	116	526	220	134	29	435	51
16	110	683	1,270	92	843	129	464	190	88	51	304	70
17	85	422	836	83	568	333	419	160	76	33	210	42
18	70	284	520	82	451	633	285	130	246	18	191	147
19	102	234	395	124	356	591	791	130	226	12	134	386
20	167	903	377	395	271	716	635	130	158	9.4	77	377
21	142	642	506	385	249	666	448	130	128	8.3	484	129
22	124	417	2,700	309	236	624	386	120	74	13	508	25
23	106	295	1,520	254	221	542	397	104	63	40	264	23
24	108	215	666	187	200	548	1,190	106	51	106	159	45
25	45	177	437	142	166	606	1,100	114	41	66	99	49
26	85	439	335	114	159	633	1,520	125	33	35	65	34
27	75	536	322	476	189	606	3,000	125	27	105	42	23
28	101	435	264	721	247	478	3,760	193	31	49	29	18
29	122	439	225	734	-----	358	1,880	417	29	25	21	62
30	140	358	210	604	-----	295	1,100	309	25	17	16	359
31	158	-----	208	440	-----	240	-----	267	-----	95	13	-----
TOTAL	3,777	15,420	29,769	7,803	13,474	10,923	29,590	13,125	3,931	949.6	4,546.0	1,991.7
MEAN	122	514	960	252	481	352	986	423	131	30.6	147	66.4
MAX	300	1,860	4,780	734	1,210	716	3,760	1,600	428	106	622	386
MIN	22	98	208	70	159	110	222	104	25	6.7	6.7	6.5
CFSM	.79	3.32	6.19	1.63	3.10	2.27	6.36	2.73	.85	.20	.95	.43
IN.	.41	3.70	7.14	1.87	3.23	2.62	7.10	3.15	.94	.23	1.09	.48

CAL YR 1972 TOTAL 177,804.5 MEAN 486 MAX 5,080 MIN 8.5 CFSM 3.14 IN 42.67
 WTR YR 1973 TOTAL 135,299.3 MEAN 371 MAX 4,780 MIN 6.5 CFSM 2.39 IN 32.47

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1500	17.15	5,500	4-28	1300	15.08	4,060
12-22	1600	13.92	3,360				

03152000 Little Kanawha River at Glenville, W. Va.

LOCATION.--Lat 38°56'00", long 80°50'20", Gilmer County, on right bank at highway bridge at Glenville, 1000 ft (305 m) upstream from Sycamore Run, and at mile 103.4 (166.4 km).

DRAINAGE AREA.--386 mi² (1,000 km²).

PERIOD OF RECORD.--June 1915 to September 1922 (gage heights only), October 1928 to current year. Monthly discharge only October to December 1928, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 697.79 ft (212.686 m) above mean sea level, adjustment of 1912. Prior to Dec. 14, 1934, nonrecording gage at bridge 300 ft (91 m) upstream at same datum. Auxiliary water-stage recorder 2.7 mi (4.3 km) downstream from base gage at datum 700.23 ft (213.430 m) above mean sea level. Prior to May 25, 1971, auxiliary nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 593 ft³/s (16.79 m³/s), 20.86 in/yr (530 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,100 ft³/s (343 m³/s) Dec. 9, gage height, 28.32 ft (8.632 m), backwater; minimum, 9.3 ft³/s (0.26 m³/s) Sept. 13, 14, gage height, 1.89 ft (0.576 m).

Period of record: Maximum discharge, 21,500 ft³/s (609 m³/s) Mar. 7, 1967, gage height, 34.50 ft (10.516 m), backwater; no flow at times in 1930-33.

Flood of Nov. 16, 1926, reached a stage of 33.6 ft (10.24 m).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 783: Drainage area. WSP 1305: 1930, 1932(M). WSP 1435: 1954. WSP 1555: 1947(M).

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	170	735	800	380	735	426	432	1,030	390	44	212	29
2	166	2,990	836	327	1,950	418	515	788	260	91	290	22
3	91	1,750	818	707	2,800	429	937	770	181	64	141	19
4	63	822	804	868	2,240	664	905	1,030	138	61	88	15
5	46	526	1,490	669	1,310	652	1,430	806	161	133	55	19
6	44	383	2,480	544	909	620	1,250	658	294	100	36	14
7	321	302	3,790	436	1,260	520	932	484	190	59	24	13
8	532	1,230	3,330	320	1,750	516	1,580	455	183	38	23	11
9	302	2,390	11,300	240	2,930	494	2,540	4,170	152	26	19	13
10	179	1,800	9,450	190	1,560	433	3,930	1,780	130	20	14	17
11	113	898	6,130	170	928	390	2,780	1,000	107	19	217	16
12	121	652	2,230	160	632	402	1,710	692	84	15	131	12
13	460	517	1,210	150	514	347	1,760	534	333	12	134	10
14	433	508	834	150	703	303	1,370	429	355	13	1,190	234
15	292	1,240	1,340	196	3,420	287	1,000	350	188	94	744	345
16	203	1,250	3,070	210	2,300	301	809	290	123	134	709	133
17	142	750	1,760	198	1,240	1,600	712	245	96	96	414	100
18	112	541	995	196	764	1,780	1,540	206	101	56	456	256
19	113	481	766	335	673	1,400	1,280	206	309	41	251	316
20	274	2,450	869	750	541	1,750	951	218	185	24	186	179
21	276	1,560	1,200	703	500	1,350	828	208	197	19	450	131
22	220	917	6,090	611	477	1,170	680	181	120	25	1,200	116
23	177	693	4,690	559	447	956	664	167	83	43	567	65
24	154	547	1,740	438	412	836	2,260	156	68	130	314	89
25	150	484	998	348	356	838	2,800	172	55	174	183	78
26	135	1,670	717	297	327	959	4,210	222	44	117	128	88
27	115	1,440	687	1,230	340	1,090	5,350	229	35	83	94	66
28	115	1,020	615	2,100	409	886	8,150	243	41	108	69	46
29	205	1,140	526	1,500	-----	679	4,640	597	83	97	55	36
30	241	920	469	1,250	-----	561	1,720	549	57	57	45	417
31	256	-----	427	872	-----	487	-----	681	-----	37	36	-----
TOTAL	6,221	32,606	72,461	17,104	32,427	23,544	59,665	19,546	4,743	2,030	8,475	2,905
MEAN	201	1,087	2,337	552	1,158	759	1,949	631	158	65.5	273	96.8
MAX	532	2,990	11,300	2,100	3,420	1,780	8,150	4,170	390	174	1,200	417
MIN	44	302	427	150	327	287	432	156	35	12	14	10
CFSM	.52	2.82	6.05	1.43	3.00	1.97	5.15	1.63	.41	.17	.71	.25
IN.	.60	3.14	6.98	1.65	3.13	2.27	5.75	1.88	.46	.20	.82	.28
CAL YR 1972	TOTAL 368,218	MEAN 1,006	MAX 11,300	MIN 12	CFSM 2.61	IN 35.49						
WTR YR 1973	TOTAL 281,727	MEAN 772	MAX 11,300	MIN 10	CFSM 2.00	IN 27.15						

PEAK DISCHARGE (BASE, 6,700 CFS)

a Backwater.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	0800	28.32	12,100	4-28	0600	22.45	8,640
12-22	1700	20.51	7,680				

03152200 Buck Run near Leopold, W. Va.

LOCATION.--Lat 39°07'26", long 80°41'26", Doddridge County, on right bank 12 ft (4 m) upstream from culvert on Secondary State Route 66, 0.3 mi (0.5 km) upstream from mouth, and 2.6 mi (4.2 km) east of Leopold.

DRAINAGE AREA.--2.91 mi² (7.54 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage and rainfall recorders and culvert control. Altitude of gage is 840 ft (256 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 396 ft³/s (11.2 m³/s) Dec. 8, gage height, 4.70 ft (1.433 m), from rating curve extended as explained below; minimum, 0.09 ft³/s (0.003 m³/s) Sept. 12-14; minimum gage height, 0.95 ft (0.290 m) June 15, 16, 27, 28, July 2, 3.

Period of record: Maximum discharge, 396 ft³/s (11.2 m³/s) Dec. 8, 1972, gage height, 4.70 ft (1.433 m), from rating curve extended above 50 ft³/s (1.42 m³/s) on basis of culvert rating computation; minimum daily, 0.01 ft³/s (<0.001 m³/s) for many days most years.

REMARKS.--Records good. Rainfall records collected at site since December 1969 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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	.24	22	4.5	2.5	5.2	1.3	1.7	4.3	1.3	.19	1.4	.32
2	.24	5.9	7.6	2.1	44	1.1	1.7	2.9	.90	.19	1.6	.27
3	.17	4.3	7.5	4.9	22	1.4	1.6	5.9	.78	1.4	.78	.23
4	.17	1.8	8.1	12	12	1.7	6.8	4.9	.66	2.9	.54	.23
5	.17	1.2	10	6.5	5.9	2.9	5.9	3.4	.60	2.3	.37	.23
6	.24	.84	41	4.3	5.2	3.4	4.0	2.5	.54	.48	.32	.19
7	.24	.95	14	2.9	7.2	3.4	3.2	1.9	.54	.27	.32	.19
8	.24	14	103	2.1	19	11	11	23	.42	.23	.27	.15
9	.17	7.9	52	1.7	12	6.2	9.4	54	.37	.19	.23	.19
10	.17	5.6	37	1.4	5.5	4.0	26	11	.32	2.3	.78	.19
11	.17	2.0	13	1.2	4.0	2.9	13	5.5	.27	1.3	.42	.12
12	.14	1.6	7.8	1.1	2.9	2.5	9.1	3.2	.23	.42	.32	.12
13	.62	1.3	5.9	1.0	12	1.9	12	2.3	.27	.27	22	.09
14	.30	2.5	4.0	.90	23	1.7	12	1.7	.23	.23	29	.42
15	.30	2.9	18	1.4	26	1.4	6.8	1.6	.19	2.7	22	.27
16	.30	2.0	14	1.4	9.8	2.5	4.3	1.3	.27	.78	17	.15
17	.30	1.5	7.5	1.4	6.2	40	3.4	1.6	.32	.42	3.2	.23
18	.24	1.2	5.2	1.3	5.5	16	3.2	1.1	.66	.32	1.3	1.0
19	.44	8.9	4.9	6.5	2.7	17	2.7	1.0	.32	.27	.66	.37
20	.45	14	11	5.9	2.3	15	2.3	1.0	.23	.78	.66	.23
21	.84	5.1	23	3.7	2.5	9.8	1.9	.90	.27	.48	5.5	.19
22	.73	3.0	50	5.5	2.3	5.9	1.7	.78	.32	.42	2.3	.15
23	.73	2.4	12	4.9	2.3	3.7	18	.66	.27	6.5	1.0	.90
24	.73	2.1	7.5	3.4	1.9	2.9	18	.90	.23	2.5	.60	.60
25	.62	11	4.9	2.5	1.7	3.4	26	.90	.23	.90	.48	.37
26	.51	26	4.0	2.1	1.4	6.2	16	1.6	.19	7.2	.37	.27
27	.51	8.7	5.2	33	1.7	4.0	58	1.0	.19	1.7	.32	.23
28	.95	8.2	4.6	13	1.4	2.7	36	1.6	.42	1.0	.32	.19
29	1.8	8.4	3.4	8.8	-----	2.3	12	1.1	.32	.90	.37	.23
30	1.8	5.6	2.9	6.2	-----	1.9	6.8	1.6	.23	.54	.42	.60
31	.45	-----	2.9	5.2	-----	1.9	-----	1.9	-----	.42	.42	-----
TOTAL	17.08	187.89	496.4	150.80	247.6	182.0	334.5	147.04	12.09	40.50	115.27	8.92
MEAN	.55	6.26	16.0	4.86	8.84	5.87	11.2	4.74	.40	1.31	3.72	.30
MAX	1.8	26	103	33	44	40	58	54	1.3	7.2	29	1.0
MIN	.17	.84	2.9	.90	1.4	1.1	1.6	.66	.19	.19	.23	.09
CFSM	.19	2.15	5.50	1.67	3.04	2.02	3.85	1.63	.14	.45	1.28	.10
IN.†	.22	2.40	6.35	1.93	3.17	2.33	4.28	1.88	.15	.52	1.47	.11
IN.††	2.19	4.99	7.24	2.15	3.36	2.92	5.66	3.58	1.26	4.75	-	-

CAL YR 1972 TOTAL 2.193.71 MEAN 5.99 MAX 103 MIN .04 CFSM 2.06 IN† 28.04
WTR YR 1973 TOTAL 1.940.09 MEAN 5.32 MAX 103 MIN .09 CFSM 1.83 IN† 24.80

PEAK DISCHARGE (BASE, 110 CFS)

† Runoff.
†† Rainfall.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	1600	4.70	396	4-27	0730	2.85	114
12-22	0315	2.83	112	5- 8	2345	3.88	261
3-17	0515	3.19	161	8-14	1015	3.52	207

03153000 Steer Creek near Grantsville, W. Va.

LOCATION.--Lat 38°51'45", long 81°02'05", Calhoun County, on right bank at downstream side of highway bridge, 500 ft (152 m) upstream from Rush Run, 5.5 mi (8.8 km) southeast of Grantsville, and at mile 2.2 (3.5 km).

DRAINAGE AREA.--166 mi² (430 km²).

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only October 1937 to February 1938, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 678.00 ft (206.654 m) above mean sea level, adjustment of 1912. Prior to Feb. 25, 1940, nonrecording gage at same site and datum. Since Oct. 1, 1962, water-stage recorder for Little Kanawha River at Grantsville (sta 03153500) used as auxiliary gage for this station. June 17, 1941, to Sept. 30, 1962, nonrecording gage about 1.0 mi (1.6 km) downstream from base gage at different datum.

AVERAGE DISCHARGE.--36 years, 217 ft³/s (6.145 m³/s), 17.75 in/yr (451 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,360 ft³/s (180 m³/s) Dec. 9, gage height, 21.70 ft (6.614 m), backwater from Little Kanawha River; minimum daily, 1.6 ft³/s (0.045 m³/s) Sept. 13.
Period of record: Maximum discharge, 17,400 ft³/s (493 m³/s) Mar. 7, 1967, gage height, 28.78 ft (8.772 m), backwater from Little Kanawha River, from rating curve extended above 11,000 ft³/s (312 m³/s); no flow at times during 1954, 1955, 1957, 1959, 1965, 1966.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1113: 1947. WSP 1275: 1938-39. WRD W. Va. 1971: 1970.

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	198	765	313	154	248	131	158	358	174	14	7.4	4.4
2	81	1,220	338	125	1,140	127	140	280	120	26	89	3.4
3	46	380	325	113	1,130	142	123	400	87	32	37	2.9
4	29	228	323	313	700	253	138	448	69	191	18	2.1
5	24	148	556	285	412	298	193	318	148	180	8.9	1.7
6	22	104	1,460	228	308	338	178	245	98	76	6.0	3.4
7	25	86	1,500	174	424	273	165	200	73	37	4.9	4.9
8	23	874	2,040	136	751	273	898	228	50	22	4.1	7.4
9	19	937	5,260	110	1,030	230	926	2,160	39	14	3.3	5.4
10	15	415	2,640	90	472	198	1,910	706	33	10	2.6	3.7
11	11	270	1,200	75	295	182	783	370	28	20	56	2.7
12	45	240	550	60	210	208	559	258	24	23	31	2.1
13	167	191	365	55	182	167	700	198	23	12	182	1.6
14	89	196	263	50	398	146	433	156	31	7.4	174	373
15	57	335	769	73	1,970	146	313	132	34	134	191	333
16	39	265	1,130	87	807	152	250	116	23	104	191	81
17	32	198	493	76	378	1,190	218	116	23	42	80	42
18	27	150	310	76	288	923	196	122	100	22	111	213
19	56	138	255	129	235	751	187	100	84	12	52	158
20	140	1,150	370	285	193	965	169	98	42	8.4	36	71
21	90	478	520	203	171	652	152	95	73	7.4	136	45
22	63	285	4,200	191	156	490	138	83	84	21	193	29
23	50	210	1,750	176	146	370	215	77	44	114	87	24
24	43	158	481	134	134	313	1,000	90	27	303	49	24
25	38	146	318	109	114	273	1,190	148	18	89	31	16
26	30	1,020	258	98	111	398	1,440	148	12	71	22	10
27	25	595	270	475	118	1,250	2,880	132	9.5	70	15	6.7
28	32	398	240	670	132	496	2,440	163	11	32	10	6.0
29	71	511	203	436	-----	305	915	275	50	18	7.4	5.4
30	77	378	185	310	-----	230	448	215	27	11	6.2	37
31	67	-----	176	255	-----	178	-----	385	-----	7.4	5.1	-----
TOTAL	1,731	12,469	29,061	5,751	12,653	12,048	19,455	8,820	1,658.5	1,730.6	1,846.9	1,519.8
MEAN	55.8	416	937	186	452	389	649	285	55.3	55.8	59.6	50.7
MAX	198	1,220	5,260	670	1,970	1,250	2,880	2,160	174	303	193	373
MIN	11	86	176	50	111	127	123	77	9.5	7.4	2.6	1.6
CFSM	.34	2.51	5.64	1.12	2.72	2.34	3.91	1.72	.33	.34	.36	.31
IN.	.39	2.79	6.51	1.29	2.84	2.70	4.36	1.98	.37	.39	.41	.34

CAL YR 1972 TOTAL 136,434.7 MEAN 373 MAX 5,260 MIN 4.5 CFSM 2.25 IN 30.57
WTR YR 1973 TOTAL 108,743.8 MEAN 298 MAX 5,260 MIN 1.6 CFSM 1.80 IN 24.37

PEAK DISCHARGE (BASE, 3,400 CFS)

a Backwater.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	0800	a21.70	6,360	4-27	1800	a16.67	4,750
12-22	1400	a16.33	4,700				

LITTLE KANAWHA RIVER BASIN

03153500 Little Kanawha River at Grantsville, W. Va.

LOCATION.--Lat 38°55'20", long 81°05'50", Calhoun County, on left bank 1,000 ft (305 m) downstream from bridge on State Highway 16 at Grantsville, 1,200 ft (366 m) downstream from Philip Run, and at mile 80.0 (128.7 km).

DRAINAGE AREA.--913 mi² (2,365 km²).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only October to December 1928, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 652.83 ft (198.983 m) above mean sea level, adjustment of 1912. Prior to Nov. 21, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 1,328 ft³/s (37.61 m³/s), 19.75 in/yr (502 mm/yr).

EXTREMES.--Current year: Maximum discharge, 24,300 ft³/s (688 m³/s) Dec. 9, gage height, 35.24 ft (10.741 m); minimum, 43 ft³/s (1.22 m³/s) Sept. 13, 14, gage height, 6.37 ft (1.942 m).
Period of record: Maximum discharge, 35,100 ft³/s (994 m³/s) Mar. 7, 1967, gage height, 43.9 ft (13.38 m), from floodmarks; no flow Sept. 10 to Nov. 16, 1930.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Records of instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1275: 1929(M), 1932-36.

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	355	1,160	1,800	850	1,570	784	884	2,480	1,300	140	132	89
2	341	5,350	1,870	750	3,530	764	824	1,720	750	120	421	77
3	268	3,580	1,980	652	7,210	768	1,190	1,620	500	112	436	68
4	170	1,840	1,790	1,470	4,800	1,190	1,450	2,370	400	112	283	60
5	119	1,040	2,750	1,960	2,900	1,490	2,070	1,860	340	114	182	53
6	94	697	4,840	1,480	1,980	1,680	2,080	1,600	400	118	132	49
7	85	514	8,850	1,110	2,270	1,390	1,680	1,300	550	200	100	54
8	401	2,400	6,710	844	3,050	1,720	2,710	1,200	420	140	81	52
9	456	4,960	21,900	676	6,100	1,660	4,970	8,200	380	100	69	52
10	287	3,540	21,600	450	3,450	1,250	7,860	6,500	340	85	66	46
11	191	1,910	15,000	370	2,040	1,000	6,670	3,200	280	75	78	46
12	184	1,300	5,390	330	1,400	992	3,580	1,800	240	65	280	49
13	457	985	2,480	310	1,070	856	3,620	1,200	190	60	364	45
14	662	873	1,740	310	1,330	736	3,090	900	600	55	976	204
15	478	1,530	2,020	300	7,770	688	2,230	700	700	150	1,540	1,160
16	334	2,120	5,870	400	5,930	704	1,690	600	400	220	1,500	490
17	245	1,400	3,880	430	2,860	3,560	1,370	550	250	270	996	270
18	188	954	2,110	400	1,760	5,220	1,460	450	200	210	776	433
19	174	752	1,600	487	1,530	3,460	1,900	420	240	144	596	896
20	305	4,440	1,650	1,480	1,250	3,950	1,490	450	550	112	421	548
21	449	3,940	2,370	1,470	1,050	3,140	1,140	450	380	102	442	352
22	374	2,030	11,800	1,250	980	2,430	920	400	400	122	1,690	260
23	300	1,390	11,500	1,260	920	1,940	972	350	270	134	1,160	220
24	251	1,040	3,790	1,010	852	1,640	4,980	325	210	394	664	358
25	221	852	2,100	776	744	1,520	5,020	499	160	433	433	352
26	208	3,970	1,800	640	668	1,760	8,640	475	140	1,020	308	215
27	186	4,070	1,500	1,790	672	3,090	10,200	480	110	612	230	182
28	176	2,420	1,300	4,880	748	2,070	17,500	500	100	328	178	150
29	212	2,640	1,200	3,060	-----	1,500	11,700	650	200	508	144	122
30	336	2,260	1,100	2,440	-----	1,190	4,190	1,200	170	295	118	370
31	384	-----	1,000	1,800	-----	992	-----	1,100	-----	180	102	-----
TOTAL	8,891	65,957	155,290	35,435	70,434	55,134	118,080	45,549	11,170	6,730	14,898	7,322
MEAN	287	2,199	5,009	1,143	2,516	1,779	3,936	1,469	372	217	481	244
MAX	662	5,350	21,900	4,880	7,770	5,220	17,500	8,200	1,300	1,020	1,690	1,160
MIN	85	514	1,000	300	668	688	824	325	100	55	66	45
CFSM	.31	2.41	5.49	1.25	2.76	1.95	4.31	1.61	.41	.24	.53	.27
IN.	.36	2.69	6.33	1.44	2.87	2.25	4.81	1.86	.46	.27	.61	.30

CAL YR 1972 TOTAL 792,985 MEAN 2,167 MAX 21,900 MIN 34 CFSM 2.37 IN 32.31
WTR YR 1973 TOTAL 594,890 MEAN 1,630 MAX 21,900 MIN 45 CFSM 1.79 IN 24.24

PEAK DISCHARGE (BASE, 14,000 CFS)

NOTE.--No gage-height record Dec. 26 to Jan. 2, May 6-23, May 27 to July 2, July 7-17.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-9	2000	35.24	24,300	4-28	1200	29.78	18,100
12-22	2100	27.99	16,300				

03154000 West Fork Little Kanawha River at Rocksedale, W. Va.

LOCATION.--Lat 38°50'48", long 81°13'26", Calhoun County, on right bank on State Route 11, 850 ft (259 m) downstream from Henry Fork at Rocksedale, 9.0 mi (14.5 km) southwest of Grantsville, and at mile 14.1 (22.7 km).

DRAINAGE AREA.--205 mi² (531 km²).

PERIOD OF RECORD.--October 1928 to September 1931, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 657.85 ft (200.513 m) above mean sea level, adjustment of 1912. Prior to June 16, 1966, nonrecording gage (crest-stage gage Nov. 4, 1946, to June 15, 1966) on bridge 800 ft (244 m) upstream at same datum.

AVERAGE DISCHARGE.--39 years, 252 ft³/s (7.137 m³/s), 16.69 in/yr (424 mm).

EXTREMES.--Current year: Maximum discharge, 9,180 ft³/s (260 m³/s), Dec. 9, gage height, 24.48 ft (7.462 m); minimum, 4.2 ft³/s (0.12 m³/s) July 10, Sept. 13, 14, gage height, 3.76 ft (1.146 m).

Period of record: Maximum discharge, 20,200 ft³/s (572 m³/s) Apr. 16, 1939, gage height, 30.3 ft (9.24 m), from floodmarks, site then in use, from rating curve extended above 13,000 ft³/s (368 m³/s); no flow at times during 1930, 1931, 1954, 1957, 1959, 1960.

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

REVISIONS (WATER YEARS).--WSP 953: 1929-31, 1938(M), 1939. WSP 1275: 1950.

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	407	1,250	425	201	325	141	216	598	200	16	50	16
2	176	2,340	485	166	1,120	137	197	433	128	9.2	180	12
3	102	558	418	151	1,750	160	182	590	91	8.2	100	9.2
4	62	319	435	347	963	246	273	620	68	23	50	7.5
5	47	217	753	317	555	305	313	407	81	51	30	6.1
6	43	157	1,790	261	403	389	261	303	77	30	17	5.0
7	36	128	1,930	207	513	323	235	239	60	16	13	6.1
8	32	828	2,560	169	840	518	1,070	297	49	8.5	11	14
9	27	1,010	7,540	142	1,260	385	1,100	2,250	37	5.7	9.0	16
10	23	478	3,110	120	615	297	2,110	833	30	7.8	7.5	9.2
11	18	357	1,680	100	383	252	888	470	26	21	120	6.4
12	34	357	715	85	274	327	743	315	21	9.8	80	5.0
13	109	279	493	70	241	257	864	235	23	13	330	4.4
14	78	307	367	70	493	221	553	182	24	8.2	300	174
15	55	550	805	87	2,490	210	381	148	23	262	340	468
16	43	357	1,470	114	996	219	295	123	18	80	300	133
17	35	262	653	102	470	1,320	257	117	21	40	200	65
18	33	197	409	99	349	1,220	235	120	35	26	230	235
19	69	195	347	157	305	1,020	205	91	60	16	120	200
20	234	1,040	413	331	252	1,080	182	90	35	18	95	103
21	147	578	580	250	228	745	157	93	56	26	300	59
22	102	361	4,150	244	205	573	140	78	47	266	380	43
23	74	283	1,510	234	187	440	228	70	34	95	262	36
24	61	225	640	182	165	365	1,110	78	21	154	154	30
25	54	200	420	148	138	325	1,080	148	14	363	102	24
26	46	876	339	133	130	373	1,540	155	9.2	1,480	66	21
27	40	728	367	335	140	1,200	3,340	128	6.8	383	48	16
28	59	533	335	658	149	530	3,820	133	5.7	145	38	12
29	154	720	279	490	-----	353	1,040	141	9.8	163	30	10
30	145	503	248	369	-----	287	550	113	28	86	25	22
31	119	-----	230	309	-----	237	-----	389	-----	50	20	-----
TOTAL	2,664	16,193	35,896	6,648	15,944	14,455	23,565	9,987	1,338.5	3,880.4	4,007.5	1,767.9
MEAN	85.9	540	1,158	214	569	466	786	322	44.6	125	129	58.9
MAX	407	2,340	7,540	658	2,490	1,320	3,820	2,250	200	1,480	380	468
MIN	18	128	230	70	130	137	140	70	5.7	5.7	7.5	4.4
CFSM	.42	2.63	5.65	1.04	2.78	2.27	3.83	1.57	.22	.61	.63	.29
IN.	.48	2.94	6.51	1.21	2.89	2.62	4.28	1.81	.24	.70	.73	.32

CAL YR 1972 TOTAL 167,501.0 MEAN 458 MAX 7,540 MIN 5.3 CFSM 2.23 IN 30.40
WTR YR 1973 TOTAL 136,346.3 MEAN 374 MAX 7,540 MIN 4.4 CFSM 1.82 IN 24.74

PEAK DISCHARGE (BASE, 3,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 2	0300	16.35	4,180	12-22	1500	18.68	5,410
12- 6	2400	16.12	4,060	4-27	2200	19.21	5,730
12- 9	0700	24.48	9,180				

03154250 Tanner Run at Spencer, W. Va.

LOCATION.--Lat 38°48'11", long 81°21'58", Roane County, on left bank 300 ft (91 m) upstream from Miletree Run, and 0.8 mi (1.3 km) west of Spencer.

DRAINAGE AREA.--2.82 mi² (7.30 km²).

PERIOD OF RECORD.--April 1969 to current year.

GAGE.--Water-stage and rainfall recorders. Concrete control since May 26, 1970. Altitude of gage is 740 ft (226 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 808 ft³/s (22.9 m³/s) July 21, gage height, 5.72 ft (1.743 m), from rating curve extended as explained below; minimum, 0.03 ft³/s (0.001 m³/s) Sept. 26-29, gage height, 1.32 ft (0.402 m).

Period of record: Maximum discharge, 1,080 ft³/s (30.6 m³/s) Aug. 17, 1972, gage height, 5.96 ft (1.817 m), from rating curve extended above 260 ft³/s (7.36 m³/s) on basis of step-backwater method; no flow at times most years.

REMARKS.--Records good. Rainfall records collected at site since April 1969 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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	2.5	54	5.8	2.0	3.8	1.6	2.1	6.1	.42	.07	.32	.08
2	1.2	4.9	5.3	1.6	13	1.6	1.8	3.8	.35	.07	.29	.07
3	.72	5.3	4.1	4.1	8.4	2.1	1.8	7.7	.32	.54	.25	.07
4	.50	3.3	6.5	7.7	5.5	2.5	17	4.8	.29	.16	.19	.07
5	.42	2.3	6.9	4.3	3.8	2.7	7.4	3.2	.42	.09	.16	.07
6	.36	1.6	4.8	3.2	4.1	2.7	4.6	2.5	.54	.07	.12	.08
7	.31	2.1	10	2.7	4.8	3.6	3.6	2.0	.29	.07	.12	.08
8	.23	1.8	10.4	2.4	19	8.4	15	14	.22	.77	.09	.07
9	.20	6.6	54	2.1	9.4	4.8	15	15	.19	.29	.08	.07
10	.15	3.9	31	2.0	5.5	3.4	19	5.3	.16	1.5	.09	.07
11	.13	3.2	9.8	1.8	3.8	2.8	7.4	3.6	.12	.77	.32	.07
12	1.0	2.8	5.8	1.7	3.0	2.3	11	2.5	.77	.22	1.4	.07
13	.54	2.3	4.3	1.5	2.7	2.0	8.4	1.8	.66	.12	4.6	.07
14	.36	4.8	3.4	1.5	24	1.8	5.0	1.4	.29	.89	1.3	1.3
15	.26	5.6	16	4.6	26	1.6	3.6	1.3	.19	1.4	.54	.25
16	.14	3.5	11	3.4	8.7	4.1	2.8	1.0	.35	.32	.35	.16
17	.19	2.7	6.7	2.8	6.4	23	2.3	1.4	.66	.19	.35	.39
18	.18	2.0	4.3	2.3	5.3	12	2.0	.89	.89	.12	.25	.54
19	1.9	11	3.4	6.1	3.8	11	1.8	.77	.25	.08	.22	.19
20	1.4	14	4.3	4.1	2.7	8.0	1.6	1.0	.19	4.1	.32	.09
21	.81	5.7	17	3.0	2.7	5.3	1.4	.77	.54	55	1.0	.08
22	.57	4.0	43	3.8	2.7	3.8	1.3	.54	.25	9.8	.35	.07
23	.42	3.1	10	3.4	2.1	3.0	8.0	.54	.16	1.6	.25	.06
24	.38	2.6	5.8	2.5	1.8	2.5	8.0	1.4	.12	1.4	.22	.05
25	.35	4.0	4.1	2.1	1.6	3.6	10	1.3	.09	9.0	.22	.04
26	.30	16	3.6	1.6	1.6	4.8	6.4	1.0	.08	37	.19	.03
27	.25	8.1	5.0	8.4	1.6	3.2	63	.77	.07	3.6	.16	.03
28	2.8	11	3.8	6.1	1.6	2.5	24	.89	.08	1.5	.12	.03
29	1.6	10	3.0	6.4	-----	2.1	6.7	.42	.09	.89	.12	.04
30	1.1	6.4	2.7	5.0	-----	2.0	5.5	1.1	.09	.42	.09	.07
31	.85	-----	2.5	4.1	-----	1.8	-----	.89	-----	.35	.08	-----
TOTAL	22.20	229.8	445.1	108.3	179.4	136.6	267.5	89.68	9.14	132.40	14.16	4.36
MEAN	.72	7.66	14.4	3.49	6.41	4.41	8.92	2.89	.30	4.27	.46	.15
MAX	2.8	54	104	8.4	26	23	63	15	.89	55	4.6	1.3
MIN	.13	1.6	2.5	1.5	1.6	1.6	1.3	.42	.07	.07	.08	.03
CFSM	.26	2.72	5.11	1.24	2.27	1.56	3.16	1.02	.11	1.51	.16	.05
IN.†	.29	3.03	5.87	1.43	2.37	1.80	3.53	1.18	.12	1.75	.19	.06
IN.††	1.71	4.51	6.05	-	1.92	1.99	5.78	3.55	2.61	8.08	2.62	2.34

CAL YR 1972 TOTAL 2,252.79 MEAN 6.16 MAX 104 MIN .02 CFSM 2.18 IN† 29.72
WTR YR 1973 TOTAL 1,638.64 MEAN 4.49 MAX 104 MIN .03 CFSM 1.59 IN† 21.62

PEAK DISCHARGE (BASE, 180 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 6	1030	4.09	288	7-21	1915	5.72	808
12- 8	1500	4.65	435	7-26	0515	3.73	216

† Runoff.
†† Rainfall.

03154500 Reedy Creek near Reedy, W. Va.

LOCATION.--Lat 38°57'40", long 81°23'25", Wirt County, on left bank 0.2 mi (0.3 km) downstream from Round-bottom Run, 1.0 mi (1.6 km) north of Lucile, 4.5 mi (7.2 km) northeast of Reedy, and at mile 8.5 (13.7 km).

DRAINAGE AREA.--79.4 mi² (205.6 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map.

AVERAGE DISCHARGE.--22 years, 91.3 ft³/s (2.586 m³/s), 15.62 in/yr (397 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,570 ft³/s (158 m³/s) Dec. 8, gage height, 15.10 ft (4.602 m), from floodmark, from rating curve extended above 3,700 ft³/s (105 m³/s); minimum, 0.13 ft³/s (0.004 m³/s), Sept. 6, gage height, 1.91 ft (0.582 m).
Period of record: Maximum discharge, 5,730 ft³/s (162 m³/s) Feb. 10, 1957, gage height, 14.7 ft (4.48 m), from rating curve extended above 3,700 ft³/s (105 m³/s); no flow at times in 1959, 1960, 1965, 1966.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1385: 1952-53 (P).

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	99	726	132	46	103	38	36	216	31	1.4	5.5	.37
2	38	513	117	33	458	34	43	136	20	1.4	5.2	.31
3	18	142	87	50	280	55	36	172	16	1.3	5.5	.28
4	12	80	130	340	162	87	478	160	13	4.1	4.1	.22
5	9.3	47	220	144	108	86	280	103	18	5.9	3.0	.19
6	8.0	31	837	91	107	86	138	74	27	3.5	2.2	.16
7	7.0	25	400	57	192	72	96	55	18	2.1	1.7	.19
8	5.2	256	1,420	40	513	294	493	138	12	1.4	1.2	.19
9	4.6	178	2,080	36	358	144	345	552	8.4	1.0	.94	.19
10	3.7	94	898	24	144	92	834	174	5.9	.94	1.1	.19
11	3.0	67	335	19	91	69	256	112	4.8	3.5	.94	.16
12	26	52	174	16	63	60	244	72	3.9	19	.85	.16
13	26	40	126	12	50	44	276	52	3.7	6.6	18	.16
14	15	37	92	12	365	37	150	40	7.7	3.9	29	.31
15	8.9	79	490	17	1,070	34	103	31	6.2	3.0	10	.40
16	8.9	52	443	26	296	52	77	27	4.4	4.1	5.9	.37
17	4.6	37	156	25	125	609	67	27	4.1	4.6	4.6	1.7
18	3.9	28	105	25	89	370	57	30	31	2.8	7.0	16
19	7.0	107	92	92	75	328	50	22	13	1.7	5.2	7.3
20	34	475	158	132	67	258	46	29	7.0	1.1	4.6	3.0
21	26	148	264	70	70	152	36	28	5.9	7.3	8.4	1.6
22	16	87	1,480	99	65	99	30	19	4.1	238	9.8	.94
23	12	62	330	101	57	72	130	16	3.5	27	6.2	.94
24	9.8	44	166	63	47	55	435	30	3.3	13	4.6	.76
25	9.3	40	112	43	36	57	286	96	2.3	108	3.0	.58
26	7.7	350	96	34	36	134	276	62	1.8	428	2.2	.40
27	6.2	198	132	178	43	84	1,450	44	1.3	89	1.6	.34
28	9.8	242	108	192	47	55	1,440	50	1.1	23	1.2	.34
29	37	304	79	170	-----	44	264	34	1.0	13	.85	.49
30	25	150	65	119	-----	38	150	27	.94	10	.67	12
31	18	-----	57	91	-----	33	-----	79	-----	7.0	.49	-----
TOTAL	518.9	4,691	11,381	2,397	5,117	3,672	8,602	2,707	280.34	1,036.64	155.54	50.24
MEAN	16.7	156	367	77.3	183	118	287	87.3	9.34	33.4	5.02	1.67
MAX	99	726	2,080	340	1,070	609	1,450	552	31	428	29	16
MIN	3.0	25	57	12	36	33	30	16	.94	.94	.49	.16
CFSM	.21	1.96	4.62	.97	2.30	1.49	3.61	1.10	.12	.42	.06	.02
IN.	.24	2.20	5.33	1.12	2.40	1.72	4.03	1.27	.13	.49	.07	.02

CAL YR 1972 TOTAL 54,424.50 MEAN 149 MAX 3,370 MIN 1.3 CFSM 1.88 IN 25.50
WTR YR 1973 TOTAL 40,608.66 MEAN 111 MAX 2,080 MIN .16 CFSM 1.40 IN 19.03

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	a2200	b15.10	5,570	4-27	2300	10.37	2,650

a About.

b From floodmark.

NOTE.--No gage-height record Dec. 8, 9.

03155000 Little Kanawha River at Palestine, W. Va.

LOCATION.--Lat 39°03'35", long 81°23'25", Wirt County, on left bank at end of Washington Street in Elizabeth, 1.0 mi (1.6 km) upstream from Tucker Creek, 2.3 mi (3.7 km) northeast of Palestine, 2.4 mi (3.9 km) upstream from old lock 3, and at mile 27.9 (44.9 km).

DRAINAGE AREA.--1,515 mi² (3,924 km²).

PERIOD OF RECORD.--April 1915 to September 1922 (gage heights only), July to September 1939 (fragmentary), October 1939 to current year. Monthly discharge only October 1939 to September 1941, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 585.51 ft (178.463 m) above mean sea level. Prior to Feb. 17, 1950, water-stage recorders or nonrecording gages at old locks 3 and 4 at various datums. Auxiliary water-stage recorder 3.0 mi (4.8 km) upstream from base gage at old lock 4 at datum 596.08 ft (181.685 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 2,069 ft³/s (58.59 m³/s), 18.55 in/yr (471 mm/yr).

EXTREMES.--Current year: Maximum discharge, 35,800 ft³/s (1,010 m³/s) Dec. 9, gage height, 32.34 ft (9.857 m), backwater; minimum, 66 ft³/s (1.87 m³/s) Sept. 13, 14, gage height, 13.75 ft (4.191 m).

Period of record: Maximum discharge, 50,700 ft³/s (1,440 m³/s) Mar. 7, 1967, gage height, 39.14 ft (11.930 m), backwater, from rating curve extended above 39,000 ft³/s (1,100 m³/s); minimum, 0.6 ft³/s (0.017 m³/s) July 14, 1959 (filled pool above old lock 3).

Flood of Apr. 17, 1939, reached a stage of 32.25 ft (9.830 m), from floodmarks at old lock 4, discharge about 53,000 ft³/s (1,500 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 953: 1940(M).

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	1,690	3,240	1,410	2,620	1,150	1,520	5,730	2,020	118	340	162
2	831	6,770	2,820	1,270	4,060	1,160	1,420	3,990	1,350	137	266	140
3	588	6,510	2,840	1,180	9,910	1,180	1,330	3,100	984	154	562	124
4	469	3,770	2,840	2,330	9,150	1,380	3,070	3,960	723	226	615	112
5	345	2,100	3,500	2,900	6,170	1,980	4,020	3,900	570	266	408	99
6	262	1,350	6,090	2,730	3,990	2,450	3,590	2,930	615	455	282	92
7	214	1,060	11,600	2,000	3,550	2,480	3,090	2,210	633	498	226	83
8	178	1,450	12,400	1,510	5,180	2,980	3,840	2,100	624	345	186	80
9	158	5,350	34,800	1,100	8,680	3,290	7,510	8,180	469	254	158	86
10	420	5,560	34,000	800	7,730	2,580	11,300	13,700	360	202	140	78
11	402	3,790	29,000	600	4,450	1,930	12,500	7,010	310	174	128	83
12	420	2,370	14,700	600	2,780	1,640	8,080	3,720	274	230	128	96
13	462	1,850	5,800	550	1,960	1,600	6,870	2,450	254	206	154	66
14	469	1,480	3,480	550	2,160	1,360	6,240	1,790	234	154	462	89
15	822	1,560	3,820	550	9,840	1,220	4,810	1,390	258	154	1,000	147
16	707	2,280	7,910	689	12,100	1,190	3,460	1,160	448	306	1,450	1,010
17	506	2,370	8,070	740	6,700	4,100	2,630	1,040	345	402	1,400	633
18	375	1,740	4,740	788	3,740	9,480	2,190	967	302	350	1,180	414
19	319	1,470	3,020	888	2,630	7,750	2,300	920	286	274	1,010	455
20	306	3,610	2,810	1,350	2,230	6,600	2,570	890	278	230	1,010	921
21	529	6,450	3,580	2,150	1,850	6,210	2,020	844	330	194	1,140	669
22	692	4,220	12,800	2,060	1,640	4,750	1,610	762	390	455	1,810	414
23	662	2,590	20,100	1,980	1,500	3,640	1,860	672	396	633	2,050	298
24	525	1,960	11,500	1,760	1,400	2,910	5,710	638	355	315	1,340	250
25	424	1,510	4,980	1,410	1,280	2,470	8,260	896	258	455	903	222
26	362	2,870	3,110	1,160	1,160	2,580	10,500	1,100	210	1,850	615	294
27	322	6,570	2,630	1,410	1,100	3,750	14,600	1,020	182	3,860	408	258
28	312	4,950	2,530	5,010	1,120	4,670	26,200	1,010	158	1,210	302	210
29	327	4,640	2,180	6,100	-----	2,940	22,800	964	140	723	250	194
30	452	4,090	1,760	4,310	-----	2,170	11,800	1,210	128	876	214	250
31	556	-----	1,530	3,260	-----	1,750	-----	1,450	-----	562	186	-----
TOTAL	14,148	97,980	264,180	55,145	120,680	95,340	197,700	81,703	13,884	16,268	20,323	8,029
MEAN	456	3,266	8,522	1,779	4,310	3,075	6,590	2,636	463	525	656	268
MAX	831	6,770	34,800	6,100	12,100	9,480	26,200	13,700	2,020	3,860	2,050	1,010
MIN	158	1,060	1,530	550	1,100	1,150	1,330	638	128	118	128	66
CFSM	.30	2.16	5.63	1.17	2.84	2.03	4.35	1.74	.31	.35	.43	.18
IN.	.35	2.41	6.49	1.35	2.96	2.34	4.85	2.01	.34	.40	.50	.20

CAL YR 1972 TOTAL 1,274,594 MEAN 3,482 MAX 34,800 MIN 108 CFSM 2.30 IN 31.30
WTR YR 1973 TOTAL 985,380 MEAN 2,700 MAX 34,800 MIN 66 CFSM 1.78 IN 24.20

PEAK DISCHARGE (BASE, 19,000 CFS)

a Backwater.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 9	1800	32.34	35,800	4-28	1700	27.70	28,200
12-23	0900	24.68	21,300				

03155500 Hughes River at Cisco, W. Va.

LOCATION.--Lat 39°07'10", long 81°16'40", Ritchie County, on right bank 100 ft (30 m) downstream from confluence of North and South Forks, 1.0 mi (1.6 km) upstream from Cisco, 5.0 mi (8.0 km) south of Petroleum, and at mile 14.0 (22.5 km).

DRAINAGE AREA.--452 mi² (1,171 km²).

PERIOD OF RECORD.--May 1915 to September 1922 (gage heights only), October 1928 to September 1931, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1965, published as "at Cisco."

GAGE.--Water-stage recorder. Datum of gage is 607.92 ft (185.294 m) above mean sea level, adjustment of 1912. Prior to Sept. 30, 1931, nonrecording gage at site 0.9 mi (1.4 km) downstream and Mar. 5, 1939, to Sept. 30, 1945, nonrecording gage at site 1.0 mi (1.6 km) downstream, both at datum 2.56 ft (0.780 m) lower. Oct. 1, 1945, to June 30, 1946, nonrecording gage at bridge across mouth of North Fork at present datum.

AVERAGE DISCHARGE.--38 years, 568 ft³/s (16.09 m³/s), 17.07 in/yr (434 mm/yr).

EXTREMES.--Current year: Maximum discharge, 16,300 ft³/s (462 m³/s) Dec. 9, gage height, 25.03 ft (7.629 m); minimum, 10 ft³/s (0.28 m³/s) Sept. 13, 14, gage height, 2.33 ft (0.710 m).
Period of record: Maximum discharge, 31,700 ft³/s (898 m³/s) June 26, 1950, gage height, 32.69 ft (9.964 m); no flow July 26, Aug. 2-6, Sept. 4 to Dec. 5, 1930.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 893: 1939. WSP 1113: 1947.

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	27	206	674	324	615	237	229	783	198	20	59	20
2	34	846	552	260	1,440	211	250	599	135	26	114	21
3	32	560	499	231	3,230	210	268	545	96	35	72	22
4	27	355	428	2,020	2,150	329	652	706	72	72	58	22
5	24	224	584	1,620	1,190	480	1,870	565	64	264	46	20
6	21	139	1,810	771	767	628	1,620	433	135	174	36	18
7	19	99	3,640	496	910	607	1,080	341	87	108	28	17
8	18	210	2,260	341	1,260	708	1,090	537	62	64	29	16
9	17	983	14,400	242	2,540	945	1,770	5,500	49	42	28	15
10	15	659	7,130	210	1,420	674	2,290	2,750	39	129	26	14
11	14	370	4,020	170	732	502	2,580	939	31	1,440	30	13
12	17	237	1,580	140	500	422	1,960	598	27	428	34	12
13	27	167	940	110	443	364	1,560	426	23	167	210	11
14	31	142	659	90	484	297	1,690	321	21	94	1,050	10
15	33	260	1,230	84	2,390	264	1,500	248	22	87	1,370	12
16	33	320	3,120	98	2,580	251	1,010	194	37	111	730	18
17	31	228	1,440	116	1,200	1,120	715	167	32	82	428	26
18	28	167	680	123	659	2,550	562	162	28	62	255	35
19	26	194	582	188	609	1,940	473	142	26	46	190	30
20	25	2,170	1,070	642	472	2,010	404	122	25	37	170	26
21	30	1,480	1,840	693	409	1,560	354	130	29	33	499	24
22	34	598	6,230	541	392	897	315	117	31	28	406	23
23	36	397	4,270	724	355	593	386	91	32	31	251	24
24	35	286	1,430	801	323	447	1,620	82	30	46	142	35
25	33	227	798	633	275	371	1,900	94	28	80	91	91
26	30	1,850	582	496	240	406	1,750	160	26	1,130	66	82
27	27	2,180	654	1,370	239	457	1,870	160	25	1,400	50	53
28	26	1,000	659	3,110	250	385	6,180	186	23	325	41	40
29	28	1,530	518	1,720	-----	312	3,450	242	22	156	32	32
30	35	1,010	415	1,040	-----	271	1,170	170	21	89	27	39
31	41	-----	367	677	-----	244	-----	251	-----	59	23	-----
TOTAL	854	19,094	65,061	20,081	28,074	20,692	42,568	17,761	1,476	6,865	6,591	821
MEAN	27.5	636	2,099	648	1,003	667	1,419	573	49.2	221	213	27.4
MAX	41	2,180	14,400	3,110	3,230	2,550	6,180	5,500	198	1,440	1,370	91
MIN	14	99	367	84	239	210	229	82	21	20	23	10
CFSM	.06	1.41	4.64	1.43	2.22	1.48	3.14	1.27	.11	.49	.47	.06
IN.	.07	1.57	5.35	1.65	2.31	1.70	3.50	1.46	.12	.56	.54	.07

CAL YR 1972 TOTAL 293,586 MEAN 802 MAX 14,400 MIN 12 CFSM 1.77 IN 24.16
WTR YR 1973 TOTAL 229,938 MEAN 630 MAX 14,400 MIN 10 CFSM 1.39 IN 18.92

PEAK DISCHARGE (BASE, 9,500 CFS).--Dec. 9 (1430) 16,300 cfs (25.03 ft).

03169000 Claytor Lake near Radford, Va.

LOCATION.--Lat 37°04'28", long 80°35'05", Pulaski County, at Claytor Dam on New River, 0.5 mi (0.8 km) upstream from Little River, and 5.5 mi (8.8 km) upstream from Radford.

DRAINAGE AREA.--2,382 mi² (6,169 km²).

PERIOD OF RECORD.--May 1939 to current year (monthend contents only).

GAGE.--Water-stage recorder. Datum of gage is at approximately mean sea level, levels by Appalachian Power Co. Prior to Sept. 11, 1943, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by gravity overflow concrete dam. Spillway with crest at elevation 1,818.5 ft (554.28 m) is equipped with 9 lift gates 30 ft (9.1 m) high by 50 ft (15.2 m) wide. Dam completed and storage began May 22, 1939; water in reservoir reached minimum pool elevation in January 1940. Total level-pool capacity at elevation 1,847.0 ft (562.97 m), 1.5 ft (0.46 m) below top of gates, is 230,100 acre-ft (284 hm³) of which about 100,000 acre-ft (123 hm³) is controlled storage above elevation 1,820.0 ft (554.74 m), minimum pool. Reservoir is used for power.

COOPERATION.--Records furnished by Appalachian Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)	Change in Contents (equivalent in cfs)
Sept. 30.....	1,845.51	223,400	-	-
Oct. 31.....	1,845.28	222,400	-1,000	-16
Nov. 30.....	1,843.89	216,500	-5,900	-100
Dec. 31.....	1,844.50	219,100	+2,600	+42
CAL YR 1972	-	-	+1,000	+1
Jan. 31.....	1,844.52	219,200	+100	+1
Feb. 28.....	1,844.80	220,400	+1,200	+22
Mar. 31.....	1,844.20	217,800	-2,600	-42
Apr. 30.....	1,846.15	226,200	+8,400	+141
May 31.....	1,846.38	227,300	+1,100	+17
June 30.....	1,844.75	220,200	-7,100	-119
July 31.....	1,845.65	224,000	+3,800	+63
Aug. 31.....	1,843.48	214,700	-9,300	-151
Sept. 30.....	1,844.95	221,000	+6,300	+106
WTR YR 1973	-	-	-2,400	-3

03179000 Bluestone River near Pipestem, W. Va.

LOCATION.--Lat 37°32'45", long 81°00'30", Summers County, on left bank 1.2 mi (1.9 km) downstream from Mountain Creek, 2.5 mi (4.0 km) west of Pipestem, and at mile 8.0 (12.9 km).

DRAINAGE AREA.--363 mi² (940 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,527.35 ft (465.536 m) above mean sea level, Corps of Engineers bench mark.

AVERAGE DISCHARGE.--23 years, 448 ft³/s (12.69 m³/s), 16.76 in/yr (426 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,560 ft³/s (242 m³/s) Dec. 10, gage height, 11.20 ft (3.414 m); minimum, 37 ft³/s (1.05 m³/s) Sept. 29, gage height, 2.05 ft (0.625 m).
 Period of record: Maximum discharge, 16,100 ft³/s (456 m³/s) Jan. 29, 1957, gage height, 14.49 ft (4.417 m); minimum, 7.0 ft³/s (0.20 m³/s) Sept. 21-23, 30, 1955, gage height, 1.60 ft (0.488 m).
 Maximum stage known since at least 1908, that of Jan. 29, 1957.

REMARKS.--Records good. Records of instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1705: 1959.

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	2,370	1,090	559	476	290	609	640	1,090	625	151	150	77
2	937	2,370	512	417	2,390	569	560	844	496	188	220	76
3	482	1,430	468	385	2,770	527	520	799	420	184	194	74
4	327	872	446	502	1,430	505	630	891	386	173	142	67
5	2,320	631	429	497	930	524	713	796	353	178	113	65
6	2,490	495	421	467	768	568	637	681	854	144	99	70
7	1,290	406	523	417	860	540	615	581	647	120	113	65
8	777	699	543	320	1,080	523	1,990	532	518	108	146	64
9	533	965	2,890	270	1,560	472	1,960	609	585	103	122	65
10	372	820	6,980	240	1,250	425	1,670	562	516	115	110	83
11	283	750	6,280	200	894	409	1,410	499	340	474	145	81
12	245	738	2,950	180	693	470	1,150	429	272	362	123	69
13	249	654	1,730	160	582	428	932	368	231	182	100	62
14	221	759	1,250	230	539	400	761	319	204	128	554	66
15	198	847	1,300	304	614	380	657	282	189	138	396	74
16	181	714	1,820	253	648	1,000	569	255	260	216	219	71
17	172	609	1,450	233	550	3,000	543	248	243	332	382	66
18	164	513	1,040	223	489	4,000	553	259	614	203	481	63
19	234	483	854	233	430	2,710	507	233	403	154	383	67
20	390	804	756	274	410	1,750	470	219	247	165	261	80
21	305	805	887	242	380	1,310	433	212	397	142	390	63
22	254	685	2,830	235	350	1,310	404	189	451	120	413	55
23	231	579	2,340	255	320	1,230	380	502	372	187	325	50
24	221	489	1,550	235	300	1,010	380	1,580	259	382	237	50
25	202	434	1,150	209	300	886	430	2,190	204	187	187	48
26	183	508	921	202	357	852	1,190	1,310	175	248	160	46
27	169	569	809	254	455	884	3,140	858	155	278	139	41
28	340	549	699	339	614	956	3,730	3,250	150	180	121	40
29	604	532	603	383	-----	917	2,510	2,810	151	136	106	38
30	526	526	541	350	-----	827	1,460	1,400	139	111	96	81
31	421	-----	513	300	-----	700	-----	856	-----	99	93	-----
TOTAL	17,691	22,325	46,044	9,285	22,253	30,691	31,544	25,653	10,856	5,888	6,720	1,917
MEAN	571	744	1,485	300	795	990	1,051	828	362	190	217	63.9
MAX	2,490	2,370	6,980	502	2,770	4,000	3,730	3,250	854	474	554	83
MIN	164	406	421	160	290	380	380	189	139	99	93	38
CFSM	1.57	2.05	4.09	.83	2.19	2.73	2.90	2.28	1.00	.52	.60	.18
IN.	1.81	2.29	4.72	.95	2.28	3.15	3.23	2.63	1.11	.60	.69	.20

CAL YR 1972 TOTAL 309,477 MEAN 846 MAX 9,040 MIN 59 CFSM 2.33 IN 31.71
 WTR YR 1973 TOTAL 230,867 MEAN 633 MAX 6,980 MIN 38 CFSM 1.74 IN 23.66

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1700	11.20	8,560	3-18	unknown	9.49	5,080

03179800 Bluestone Lake near Hinton, W. Va.

LOCATION.--Lat 37°38'25", long 80°53'15", Summers County, at Bluestone Dam on New River, 1.0 mi (1.6 km) upstream from Greenbrier River, 2.2 mi (3.5 km) upstream from Hinton, at New River mile 64.8 (105.3 km) and Kanawha River mile 161.8.

DRAINAGE AREA.--4,603 mi² (11,922 km²).

PERIOD OF RECORD.--July 1949 to current year (monthend contents only). Prior to October 1960 monthend contents published in WSP 1725.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents, 175,900 acre-ft (217 hm³) May 29, elevation, 1,452.20 (442.631 m); minimum, 28,660 acre-ft (35.3 hm³) Mar. 13, elevation, 1,404.75 ft (428.168 m).

Period of record: Maximum contents since storage began, 510,900 acre-ft (630 hm³) Apr. 6, 1960, elevation, 1,505.97 ft (459.020 m), results of holding water for cofferdam construction on Ohio River; minimum since initial filling, 18,060 acre-ft (22.3 hm³) Oct. 4, 1956, elevation, 1,397.94 ft (426.092 m).

REMARKS.--Reservoir is formed by concrete gravity-type dam completed in 1952; closure of dam was made Dec. 18, 1947, and storage began July 1949. Spillway equipped with 21 lift gates 30 ft (9.1 m) wide by 31 ft (9.4 m) high and 16 sluice gates 5.67 ft (1.728 m) wide by 10 ft (3.0 m) high. Total level-pool capacity at elevation 1,520 ft (463.3 m), flood-control pool elevation, is 631,000 acre-ft (778 hm³) of which 600,100 acre-ft (740 hm³) is controlled above elevation 1,406 ft (428.5 m), minimum-pool elevation, and 10,000 acre-ft (12.3 hm³) is dead storage below elevation 1,391 ft (424.0 m), stilling-basin weir. Figures given herein represent total contents. Reservoir is used for flood control.

COOPERATION.--Records furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)	Change in Contents (equivalent in cfs)
Sept. 30.....	1,410.61	39,480	-	-
Oct. 31.....	1,410.72	39,690	+210	+3
Nov. 30.....	1,406.84	32,490	-7,200	-121
Dec. 31.....	1,406.85	32,510	+20	0
CAL YR 1972	-	-	+70	0
Jan. 31.....	1,412.07	42,370	+9,860	+160
Feb. 28.....	1,406.67	32,180	-10,190	-183
Mar. 31.....	1,409.05	36,580	+4,400	+72
Apr. 30.....	1,413.39	45,260	+8,680	+146
May 31.....	1,432.45	98,110	+52,850	+860
June 30.....	1,410.25	38,820	-59,290	-996
July 31.....	1,410.61	39,480	+660	+11
Aug. 31.....	1,410.54	39,350	-130	-2
Sept. 30.....	1,409.98	38,310	-1,040	-17
WTR YR 1973	-	-	-1,170	-2

03180500 Greenbrier River at Durbin, W. Va.

LOCATION.--Lat 38°32'35", long 79°50'00", Pocahontas County, on left bank at Durbin, 500 ft (152 m) downstream from confluence of East and West Forks, and at mile 150.1 (241.5 km).

DRAINAGE AREA.--134 mi² (347 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 2,699.71 ft (822.872 m) above mean sea level.

AVERAGE DISCHARGE.--30 years, 251 ft³/s (7.108 m³/s), 25.44 in/yr (646 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,290 ft³/s (150 m³/s) Dec. 9, gage height, 6.36 ft (1.939 m); minimum daily, 9.0 ft³/s (0.25 m³/s) Sept. 12.
Period of record: Maximum discharge, 12,200 ft³/s (346 m³/s) Mar. 7, 1967, gage height, 9.15 ft (2.789 m), from rating curve extended above 5,000 ft³/s (142 m³/s); maximum gage height, 9.20 ft (2.804 m) Feb. 2, 1956 (ice jam); no flow part of each day Oct. 2, 3, 1968.

REMARKS.--Records good.

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	57	457	346	146	259	183	748	473	333	26	15	14
2	35	1,050	280	130	1,630	252	1,190	355	253	30	25	13
3	27	692	256	123	1,600	584	942	362	199	27	19	17
4	22	460	350	309	869	1,040	1,040	335	182	24	15	14
5	1,300	334	580	352	556	1,160	1,090	310	274	21	12	18
6	2,020	253	1,060	331	415	1,090	748	266	260	19	16	15
7	1,020	212	1,200	251	366	805	556	224	211	17	76	15
8	746	979	1,240	217	418	612	984	235	169	15	31	15
9	458	1,190	4,160	194	461	481	988	395	148	14	19	11
10	293	823	2,920	160	380	395	808	382	126	14	16	10
11	212	557	1,680	140	299	336	577	368	106	15	16	9.5
12	191	388	894	130	246	291	457	310	92	14	17	9.0
13	180	301	584	120	229	238	359	263	89	12	22	9.5
14	148	717	418	170	212	210	336	218	76	11	50	26
15	129	1,000	508	250	277	219	481	187	63	21	86	54
16	115	731	623	370	220	219	694	163	63	20	45	27
17	110	509	508	489	179	777	1,010	166	67	19	37	17
18	96	366	418	473	247	837	1,080	155	92	19	197	16
19	133	370	349	310	225	594	752	134	63	13	78	17
20	119	1,180	402	354	172	482	513	137	49	13	55	15
21	112	989	513	304	149	429	376	141	46	19	63	12
22	113	671	1,630	386	137	353	298	124	67	29	61	12
23	115	456	1,150	370	136	311	254	137	56	59	44	18
24	123	335	709	302	122	342	247	163	42	57	35	50
25	114	282	483	263	116	480	314	339	35	29	50	27
26	108	632	367	218	126	673	629	396	32	45	37	18
27	101	599	293	420	149	1,050	1,200	370	33	37	28	14
28	145	507	233	493	146	773	1,610	1,170	38	23	24	12
29	153	438	188	446	-----	539	1,030	1,150	43	20	20	12
30	164	397	169	330	-----	409	682	721	31	20	17	62
31	159	-----	161	288	-----	323	-----	481	-----	15	15	-----
TOTAL	8,818	17,875	24,672	8,839	10,341	16,487	21,993	10,630	3,338	717	1,241	579.0
MEAN	284	596	796	285	369	532	733	343	111	23.1	40.0	19.3
MAX	2,020	1,190	4,160	493	1,630	1,160	1,610	1,170	333	59	197	62
MIN	22	212	161	120	116	183	247	124	31	11	12	9.0
CFSM	2.12	4.45	5.94	2.13	2.75	3.97	5.47	2.56	.83	.17	.30	.14
IN.	2.45	4.96	6.85	2.45	2.87	4.58	6.11	2.95	.93	.20	.34	.16
CAL YR 1972	TOTAL 159,349.0	MEAN 435	MAX 4,160	MIN 13	CFSM 3.25	IN 44.24						
WTR YR 1973	TOTAL 125,530.0	MEAN 344	MAX 4,160	MIN 9.0	CFSM 2.57	IN 34.85						

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	2200	6.22	4,980	12- 9	0500	6.36	5,290

03181200 Indian Draft near Marlinton, W. Va.

LOCATION.--Lat 38°16'48", long 80°04'31", Pocahontas County, on left bank at highway bridge, and 4.2 mi (6.8 km) northeast of Marlinton.

DRAINAGE AREA.--3.06 mi² (7.93 km²).

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

GAGE.--Water-stage and rainfall recorders and concrete control. Altitude of gage is 2,440 ft (744 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 5.54 ft³/s (0.157 m³/s), 24.59 in/yr (625 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 95 ft³/s (2.69 m³/s) Feb. 2; minimum, 0.17 ft³/s (0.005 m³/s) Sept. 8, 9, 10-14, 29, gage height, 4.06 ft (0.124 m).

Period of record: Maximum discharge, 428 ft³/s (12.1 m³/s) Dec. 30, 1969, gage height, 5.26 ft (1.603 m), from rating curve extended above 20 ft³/s (0.57 m³/s) on basis of theoretical weir formula; maximum gage height, 5.87 ft (1.789 m) July 4, 1972; minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Sept. 30, 1968, Aug. 7, 8, 1970.

REMARKS.--Records good. Rainfall records collected at site since June 1968 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

REVISIONS (WATER YEARS).--WRD W. Va. 1972: 1971(P).

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	1.0	44	5.6	2.4	10	11	31	7.8	5.6	.88	.53	.20
2	.48	27	4.9	2.0	95	13	23	5.9	4.0	1.3	1.1	.20
3	.37	12	5.2	2.0	30	34	14	5.6	3.1	.78	.69	.34
4	.34	7.8	7.4	14	15	29	39	5.2	2.6	.69	.53	.31
5	.38	4.9	9.4	11	10	34	24	4.2	2.6	.88	.41	.31
6	20	3.5	49	7.8	8.0	24	13	3.7	3.1	.61	.37	.28
7	10	3.1	24	5.2	6.0	15	11	3.3	3.1	.46	.34	.26
8	5.6	36	28	4.2	13	13	37	10	2.4	.41	.34	.20
9	2.8	18	57	3.7	14	9.8	20	21	2.2	.37	.31	.17
10	1.6	11	42	3.1	9.4	7.4	20	12	1.9	.37	.41	.20
11	1.1	7.4	21	2.6	6.7	6.3	14	9.8	1.6	.37	.53	.17
12	1.1	5.2	13	2.4	5.2	5.6	11	7.8	1.3	.37	.34	.17
13	1.3	4.0	11	2.0	4.0	4.5	9.4	5.9	1.4	.34	.41	.17
14	1.1	31	8.6	1.8	3.7	4.2	13	4.5	1.3	.31	.41	2.4
15	.78	19	12	3.0	5.2	4.2	16	3.7	1.1	1.9	.37	.61
16	.69	11	13	2.0	5.9	13	13	3.3	1.6	.69	.34	.31
17	.69	7.8	9.0	1.4	4.9	42	19	2.8	2.6	.41	.34	.26
18	.53	5.2	6.7	2.0	3.7	18	18	2.6	17	.37	.41	.31
19	3.1	11	5.6	12	3.3	12	12	2.2	5.2	.34	.34	.28
20	3.3	37	8.2	9.0	3.3	12	8.6	2.0	3.1	.46	.31	.28
21	2.0	16	25	7.0	3.3	10	6.3	2.0	2.0	.41	.46	.26
22	1.6	10	62	25	3.7	9.8	4.9	1.7	1.9	.46	.46	.23
23	1.3	7.0	19	15	3.5	9.8	4.2	1.9	1.4	5.9	.34	.23
24	1.3	5.2	11	7.0	3.3	13	4.0	5.6	1.2	4.9	.31	.20
25	.97	5.9	8.2	4.5	4.2	13	9.4	11	.97	1.7	.28	.20
26	.88	31	6.3	4.0	6.3	12	21	7.8	.97	1.6	.28	.20
27	.78	14	4.9	25	9.8	13	47	7.8	.88	1.6	.26	.20
28	4.5	9.8	3.7	15	8.6	9.8	31	88	.88	.97	.26	.20
29	5.2	8.2	3.3	12	-----	7.4	16	26	.78	.78	.23	.26
30	3.3	7.0	2.8	9.0	-----	6.7	10	12	.61	.41	.23	.78
31	2.6	-----	2.6	8.0	-----	5.6	-----	7.8	-----	.37	.23	-----
TOTAL	118.31	420.0	489.4	225.1	299.0	422.1	519.8	294.9	78.39	31.41	12.17	10.19
MEAN	3.82	14.0	15.8	7.26	10.7	13.6	17.3	9.51	2.61	1.01	.39	.34
MAX	38	44	62	25	95	42	47	88	17	5.9	1.1	2.4
MIN	.34	3.1	2.6	1.4	3.3	4.2	4.0	1.7	.61	.31	.23	.17
CFSM	1.25	4.58	5.16	2.37	3.50	4.44	5.65	3.11	.85	.33	.13	.11
IN.†	1.44	5.11	5.95	2.74	3.63	5.13	6.32	3.59	.95	.38	.15	.12
IN.‡	4.27	6.18	5.67	-	-	4.46	6.36	4.96	-	4.39	2.41	3.07

CAL YR 1972 TOTAL 2,958.49 MEAN 8.08 MAX 141 MIN .14 CFSM 2.64 IN† 35.97
WTR YR 1973 TOTAL 2,920.77 MEAN 8.00 MAX 95 MIN .17 CFSM 2.61 IN† 35.51

PEAK DISCHARGE (BASE, 80 CFS)

† Runoff.
‡ Rainfall.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	1800	5.59	159	12-22	0145	5.43	114
11- 1	1715	5.41	109	2- 2	unknown	-	unknown
12- 6	1400	5.34	94	4- 4	1145	5.28	83
12- 8	2315	5.36	114	5-28	0430	5.59	159

03182500 Greenbrier River at Buckeye, W. Va.

LOCATION.--Lat 38°11'15", long 80°07'50", Pocahontas County, on right bank at upstream side of highway bridge at Buckeye, 1,000 ft (305 m) upstream from Swago Creek, 3.5 mi (5.6 km) downstream from Knapp Creek, and at mile 103.1 (165.9 km). Records include flow of Swago Creek.

DRAINAGE AREA.--540 mi² (1,399 km²), includes that of Swago Creek.

PERIOD OF RECORD.--September 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,085.89 ft (635.779 m) above mean sea level. Prior to Feb. 27, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 859 ft³/s (24.33 m³/s), 21.60 in/yr (549 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,700 ft³/s (416 m³/s) Dec. 9, gage height, 11.17 ft (3.405 m); minimum, 34 ft³/s (0.96 m³/s) Sept. 12, gage height, 1.69 ft (0.515 m).
Period of record: Maximum discharge, 41,500 ft³/s (1,180 m³/s) Feb. 5, 1932, gage height, 17.5 ft (5.33 m), from floodmarks, from rating curve extended above 25,000 ft³/s (708 m³/s); minimum, 3.8 ft³/s (0.11 m³/s) Aug. 13, 1930, gage height, 1.19 ft (0.363 m).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 758: 1933. WSP 953: 1930-32, 1934-35(M), 1936, 1937(M), 1938-39, 1940(M).
WSP 1275: 1936.

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	200	1,720	1,210	522	899	836	1,610	1,680	1,210	197	93	51
2	140	5,310	976	462	9,220	1,040	3,320	1,250	902	449	128	49
3	100	2,880	869	418	8,080	1,860	2,760	1,070	697	357	108	44
4	160	1,760	918	921	3,670	3,900	3,590	1,100	563	271	93	46
5	450	1,220	1,300	1,740	2,200	4,010	4,880	967	1,480	426	78	45
6	4,000	903	3,320	1,440	1,560	4,180	2,950	860	1,470	291	66	54
7	3,000	722	5,370	1,070	1,380	3,000	2,100	738	1,520	207	59	52
8	2,100	5,160	3,350	853	1,830	2,440	4,300	737	1,030	162	66	46
9	1,500	4,260	11,800	712	2,540	2,120	4,260	1,840	797	133	99	42
10	1,000	2,700	8,870	595	1,780	1,650	3,490	2,020	608	154	78	38
11	600	1,800	6,610	500	1,320	1,320	2,680	1,690	479	292	92	37
12	500	1,240	3,440	450	1,030	1,150	2,040	1,480	385	158	71	35
13	450	939	2,270	640	876	941	1,670	1,200	359	117	66	37
14	440	3,770	1,620	900	798	807	1,590	947	340	98	103	94
15	400	4,080	1,810	1,170	987	770	1,730	781	271	169	125	111
16	330	2,580	2,930	1,010	1,240	980	1,930	643	247	200	175	109
17	290	1,760	2,070	797	786	6,100	2,640	592	369	138	129	92
18	280	1,260	1,480	680	679	4,740	4,060	605	1,390	112	168	72
19	300	1,160	1,310	686	727	2,670	2,880	505	914	93	380	62
20	420	5,080	1,220	795	633	2,050	1,950	471	502	103	194	54
21	520	3,600	1,640	677	565	1,930	1,400	478	372	117	158	49
22	430	2,380	7,720	796	520	1,750	1,080	440	1,390	134	176	46
23	380	1,610	5,070	1,470	477	1,510	905	418	957	168	168	43
24	350	1,150	2,860	1,400	472	1,610	817	491	566	262	128	39
25	320	967	1,890	1,100	444	1,750	875	805	390	218	107	56
26	302	3,360	1,380	876	504	2,040	2,750	1,060	308	150	101	67
27	279	3,050	1,110	1,200	666	3,890	5,480	1,040	243	122	101	56
28	353	2,030	886	2,100	679	2,970	6,940	5,600	260	117	83	46
29	619	1,580	708	1,750	-----	2,010	3,830	5,440	270	110	72	43
30	593	1,340	591	1,200	-----	1,550	2,400	2,890	235	94	64	81
31	544	-----	550	1,010	-----	1,230	-----	1,810	-----	78	57	-----
TOTAL	21,350	71,371	87,148	29,940	46,562	68,804	82,907	41,648	20,524	5,697	3,586	1,696
MEAN	689	2,379	2,811	966	1,663	2,219	2,764	1,343	684	184	116	56.5
MAX	4,000	5,310	11,800	2,100	9,220	6,100	6,940	5,600	1,520	449	380	111
MIN	100	722	550	418	444	770	817	418	235	78	57	35
CFSM	1.28	4.41	5.21	1.79	3.08	4.11	5.12	2.49	1.27	.34	.21	.10
IN.	1.47	4.92	6.00	2.06	3.21	4.74	5.71	2.87	1.41	.39	.25	.12

CAL YR 1972 TOTAL 542,100 MEAN 1,481 MAX 15,600 MIN 35 CFSM 2.74 IN 37.34
WTR YR 1973 TOTAL 481,233 MEAN 1,318 MAX 11,800 MIN 35 CFSM 2.44 IN 33.15

PEAK DISCHARGE (BASE, 11,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	unknown	11.13	14,600	2- 2	1400	10.94	14,000
12- 9	1200	11.17	14,700				

03182650 Spring Creek at Spring Creek, W. Va.

LOCATION.--Lat 37°57'24", long 80°21'09", Greenbrier County, on right bank at Spring Creek, 0.3 mi (0.5 km) upstream from highway bridge on Secondary State Route 13, and 0.4 mi (0.6 km) upstream from mouth.

DRAINAGE AREA.--120 mi² (311 km²), including some 60 mi² (155 km²) or more with sub-surface drainage.

PERIOD OF RECORD.--October 1971 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,850 ft (564 m) from topographic map.

EXTREMES.--Current year: Maximum discharge, 4,640 ft³/s (131 m³/s) Feb. 2, gage height, 10.60 ft (3.231 m), from rating curve extended above 1,700 ft³/s (48.1 m³/s); minimum 11 ft³/s (0.31 m³/s) Sept. 2, 3, gage height, 2.89 ft (0.881 m).

Period of record: Maximum discharge, 8,820 ft³/s (250 m³/s) Feb. 26, 1972, gage height, 14.52 ft (4.426 m), from rating curve extended above 1,700 ft³/s (48.1 m³/s); minimum, 9.0 ft³/s (0.25 m³/s) Sept. 21, 22, 24-28, 1972, gage height, 2.87 ft (0.875 m).

REMARKS.--Records good.

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	92	808	222	137	187	270	662	525	290	45	76	14
2	48	1,400	192	122	3,430	227	656	441	223	60	80	11
3	30	542	183	111	2,530	375	420	429	180	50	60	21
4	22	336	196	315	752	781	874	472	152	52	49	14
5	178	241	248	381	444	749	1,120	379	183	56	40	21
6	1,340	185	1,130	293	341	759	600	301	200	43	33	16
7	236	152	1,440	215	388	509	437	242	256	33	29	30
8	158	1,390	631	184	680	480	1,500	515	178	29	32	18
9	104	965	2,680	158	722	452	1,110	1,150	141	25	31	25
10	72	468	2,790	136	458	365	964	716	116	33	33	40
11	56	327	1,780	123	307	303	693	460	99	107	251	30
12	60	246	702	115	246	281	520	329	85	51	100	25
13	154	204	472	95	214	233	490	259	90	34	70	25
14	117	1,050	354	92	209	210	431	210	82	25	69	35
15	87	963	538	94	324	199	390	181	67	324	76	50
16	71	479	728	90	397	463	344	154	80	177	61	40
17	75	327	449	82	263	2,340	516	148	102	103	50	30
18	63	242	320	82	217	1,130	803	145	305	70	145	25
19	133	259	287	97	213	569	552	120	175	54	112	22
20	206	1,370	287	169	187	460	396	113	111	54	72	20
21	143	716	505	138	170	526	311	113	104	66	85	18
22	111	427	3,340	196	156	655	257	102	179	73	155	18
23	93	304	1,400	326	150	487	223	155	128	166	98	16
24	85	232	597	245	142	451	205	234	93	334	70	16
25	72	202	396	187	133	432	198	804	74	148	59	14
26	63	547	306	164	145	417	474	549	63	98	48	14
27	57	507	253	263	207	360	1,550	355	55	73	41	12
28	248	354	210	351	225	283	1,890	2,410	68	58	33	12
29	327	275	175	312	-----	237	878	1,940	79	69	27	14
30	215	239	156	224	-----	236	530	686	54	56	22	60
31	163	-----	147	195	-----	222	-----	402	-----	45	18	-----
TOTAL	4,879	15,757	23,114	5,692	13,837	15,411	19,994	15,039	4,012	2,611	2,125	706
MEAN	157	525	746	184	494	497	666	485	134	84.2	68.5	23.5
MAX	1,340	1,400	3,340	381	3,430	2,340	1,890	2,410	305	334	251	60
MTN	22	152	147	82	133	199	198	102	54	25	18	11
CFSM	1.31	4.38	6.22	1.53	4.12	4.14	5.55	4.04	1.12	.70	.57	.20
IN.	1.51	4.88	7.17	1.76	4.29	4.78	6.20	4.66	1.24	.81	.66	.22

CAL YR 1972 TOTAL 146,947.3 MEAN 401 MAX 7,130 MIN 9.0 CFSM 3.34 IN 45.55
WTR YR 1973 TOTAL 123,177.0 MEAN 337 MAX 3,430 MIN 11 CFSM 2.81 IN 38.18

PEAK DISCHARGE (BASE, 2,220 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-6	1000	8.39	2,710	3-17	0600	8.23	2,580
12-9	1700	9.92	4,030	4-28	0315	7.92	2,350
12-22	0700	9.62	3,760	5-28	1845	9.23	3,410
2-2	1945	10.60	4,640				

03182700 Anthony Creek near Anthony, W. Va.

LOCATION.--Lat 37°54'30", long 80°17'30", Greenbrier County, on right bank 0.3 mi (0.5 km) downstream from Big Draft, 1.7 mi (2.7 km) downstream from Rocky Run, 2.2 mi (3.5 km) northeast of Anthony, and at mile 3.2 (5.1 km).

DRAINAGE AREA.-- 144 mi² (373 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949, 1951-53, 1957, 1960, 1966, 1968-71, October 1971 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,850 ft (564 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 6,950 ft³/s (197 m³/s) Mar. 17, gage height, 14.25 ft (4.343 m) from rating curve extended above 1,100 ft³/s (31.2 m³/s); minimum, 13 ft³/s (0.37 m³/s) Sept. 25-30, minimum gage height, 6.26 ft (1.908 m) Sept. 27-30.
Period of record: Maximum discharge, 13,500 ft³/s (382 m³/s) June 21, 1972, gage height, 17.1 ft (5.21 m) from floodmarks, from rating curve extended above 1,100 ft³/s (31.2 m³/s); minimum, 13 ft³/s (0.37 m³/s) Sept. 25-30, 1973; minimum gage height, 6.26 ft (1.908 m) Sept. 27-30, 1973.

REMARKS.--Records good.

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	50	168	241	141	183	104	228	411	251	47	115	17
2	39	534	202	126	3,430	107	223	345	196	43	97	16
3	36	317	184	117	1,350	123	205	341	159	39	74	16
4	34	207	180	202	607	185	326	341	134	37	55	16
5	153	155	181	314	404	290	412	295	449	52	44	15
6	395	122	549	284	322	457	324	243	482	41	37	14
7	258	103	883	226	328	362	286	203	668	34	33	14
8	162	1,840	497	193	510	489	1,300	199	350	30	29	14
9	101	658	1,400	166	641	541	893	386	241	28	26	14
10	70	351	1,640	141	460	391	725	432	185	25	25	16
11	55	247	1,080	134	326	309	566	342	146	32	91	16
12	51	182	618	121	250	264	448	260	119	30	52	15
13	57	147	443	105	210	216	408	216	106	25	41	14
14	53	1,540	344	100	196	191	363	179	91	23	41	21
15	51	890	478	101	234	183	310	155	77	27	40	36
16	48	457	735	91	250	396	257	136	71	36	34	25
17	47	321	472	81	201	4,230	294	140	71	43	30	21
18	44	237	339	78	187	1,350	459	135	238	33	28	19
19	55	247	280	85	181	611	416	115	133	27	28	18
20	80	1,150	245	101	158	431	330	109	90	26	26	17
21	72	610	329	87	144	433	261	102	125	41	27	16
22	61	404	2,730	100	138	499	222	91	389	42	33	15
23	56	292	1,070	163	133	416	197	128	184	54	29	14
24	52	225	583	182	119	384	177	168	122	103	25	14
25	47	195	413	163	105	373	169	400	90	52	29	14
26	45	741	323	147	99	361	540	347	72	39	31	13
27	40	632	265	249	101	413	1,770	260	61	32	26	13
28	59	416	219	398	101	389	1,390	2,340	63	27	24	13
29	105	314	181	348	-----	318	615	1,160	73	79	22	13
30	109	265	159	250	-----	276	420	526	55	64	20	14
31	94	-----	151	212	-----	236	-----	356	-----	55	19	-----
TOTAL	2,579	13,967	17,414	5,206	11,368	15,328	14,534	10,861	5,491	1,266	1,231	493
MEAN	83.2	466	562	168	406	494	484	350	183	40.8	39.7	16.4
MAX	395	1,840	2,730	398	3,430	4,230	1,770	2,340	668	103	115	36
MIN	34	103	151	78	99	104	169	91	55	23	19	13
CFSM	.58	3.24	3.90	1.17	2.82	3.43	3.36	2.43	1.27	.28	.28	.11
IN.	.67	3.61	4.50	1.34	2.94	3.96	3.75	2.81	1.42	.33	.32	.13
CAL YR 1972	TOTAL	122,883	MEAN	336	MAX	7,860	MIN	16	CFSM	2.33	IN	31.74
WTR YR 1973	TOTAL	99,738	MEAN	273	MAX	4,230	MIN	13	CFSM	1.90	IN	25.77

PEAK DISCHARGE (BASE, 3,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 8	0900	11.97	3,460	3-17	1330	14.25	6,950
12-22	0830	12.29	3,910	5-28	1215	12.35	3,990
2- 2	1300	14.15	6,770				

03182950 Howard Creek at Caldwell, W. Va.

LOCATION.--Lat 37°46'54", long 80°23'15", Greenbrier County, on right bank at Caldwell, 300 ft (91 m) upstream from highway bridge on U.S. Highway 60, 0.9 mi (1.4 km) upstream from mouth, 3.5 mi (5.6 km) southeast of Lewisburg, and 5.0 mi (8.0 km) southwest of White Sulphur Springs.

DRAINAGE AREA.--84.4 mi² (218.6 km²).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960, 1962, 1964-66, 1968-71, October 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,681.01 ft (512.372 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 4,170 ft³/s (118 m³/s) May 28, gage height, 10.53 ft (3.210 m), from rating curve extended as explained below; minimum, 6.2 ft³/s (0.18 m³/s) Sept. 28, 29, gage height, 3.93 ft (1.198 m).

Period of record: Maximum discharge, 14,000 ft³/s (396 m³/s) June 21, 1972, gage height, 18.6 ft (5.67 m), from floodmarks, from rating curve extended above 1,700 ft³/s (48.1 m³/s) on basis of slope-area measurement of peak flow; minimum, 6.2 ft³/s (0.18 m³/s) Sept. 28, 29, 1973, gage height, 3.93 ft (1.198 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	28	138	134	68	74	47	136	277	90	27	57	9.5
2	22	217	117	63	838	47	170	238	71	27	43	8.9
3	20	120	108	62	426	52	140	214	59	24	34	8.9
4	18	82	107	93	205	62	149	188	50	26	28	9.5
5	163	63	105	120	141	80	163	155	44	29	23	8.4
6	129	51	147	113	120	103	136	129	55	24	21	10
7	161	46	229	80	120	105	134	107	60	22	19	10
8	86	760	188	60	183	122	802	103	54	20	17	8.4
9	51	308	575	54	259	132	560	247	61	18	14	10
10	38	178	974	45	178	119	422	241	45	21	14	12
11	31	138	535	42	131	107	298	173	39	57	16	11
12	29	112	253	38	107	98	223	134	35	35	15	9.5
13	29	95	173	34	90	86	170	108	34	28	15	8.4
14	27	816	134	30	86	80	143	86	32	23	14	14
15	25	431	175	32	86	83	124	73	29	39	14	14
16	24	238	277	30	78	505	110	63	28	55	14	12
17	23	168	180	30	68	2,720	120	68	29	63	13	12
18	23	136	134	30	68	622	141	60	108	43	14	12
19	30	151	115	34	67	280	149	54	66	35	13	11
20	42	575	102	40	62	190	132	50	44	31	13	11
21	40	308	120	36	60	193	117	44	48	30	17	9.5
22	32	205	1,150	56	57	229	105	40	188	30	19	8.9
23	30	153	426	65	55	183	98	74	87	57	17	9.5
24	28	129	229	68	52	168	89	105	57	63	16	8.4
25	26	120	157	66	46	168	89	1,140	44	39	15	8.4
26	24	422	129	63	44	193	347	382	37	31	14	7.8
27	22	319	112	77	47	274	1,130	208	33	26	13	7.8
28	35	214	95	102	48	199	760	2,160	31	22	12	7.3
29	59	161	82	110	-----	155	326	520	36	20	12	7.3
30	57	143	74	100	-----	140	226	202	30	18	10	20
31	48	-----	72	80	-----	125	-----	127	-----	23	9.5	-----
TOTAL	1,400	6,997	7,408	1,921	3,796	7,667	7,709	7,770	1,624	1,006	565.5	305.4
MEAN	45.2	233	239	62.0	136	247	257	251	54.1	32.5	18.2	10.2
MAX	163	816	1,150	120	838	2,720	1,130	2,160	188	63	57	20
MIN	18	46	72	30	44	47	89	40	28	18	9.5	7.3
CFSM	.54	2.76	2.83	.73	1.61	2.93	3.05	2.97	.64	.39	.22	.12
IN.	.62	3.08	3.27	.85	1.67	3.38	3.40	3.42	.72	.44	.25	.13

CAL YR 1972 TOTAL 69,929.0 MEAN 191 MAX 7,500 MIN 12 CFSM 2.26 IN 30.82
WTR YR 1973 TOTAL 48,168.9 MEAN 132 MAX 2,720 MIN 7.3 CFSM 1.56 IN 21.23

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 8	0515	7.42	1,370	2- 2	1030	7.91	1,810
11-14	1100	7.73	1,650	3-17	1000	10.07	3,750
12-10	1530	7.29	1,250	4-27	1700	8.09	1,970
12-22	0630	7.86	1,760	5-25	0730	8.04	1,930
				5-28	0745	10.53	4,170

03183000 Second Creek near Second Creek, W. Va.

LOCATION.--Lat 37°41'05", long 80°27'25", Monroe County, on left bank 100 ft (30 m) upstream from bridge on U.S. Highway 219, 1.4 mi (2.3 km) north of Second Creek, 1.6 mi (2.6 km) downstream from Rayburn Draft, and at mile 8.0 (12.9 km).

DRAINAGE AREA.--80.8 mi² (209.3 km²).

PERIOD OF RECORD.--October 1945 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,810.79 ft (551.929 m) above mean sea level. Prior to Oct. 18, 1947, nonrecording gage at site 100 ft (30 m) upstream at datum 1.57 ft (0.479 m) higher. Oct. 18, 1947, to Sept. 30, 1960, water-stage recorder at present site at datum 1.57 ft (0.479 m) higher. Oct. 1, 1960, to June 26, 1964, water-stage recorder at present site at datum 0.57 ft (0.174 m) higher. June 27, 1964, to Jan. 23, 1965, nonrecording gage at site 300 ft (91 m) upstream at different datum.

AVERAGE DISCHARGE.--28 years, 78.8 ft³/s (2.232 m³/s), 13.24 in/yr (336 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,410 ft³/s (96.6 m³/s) May 28, gage height, 6.27 ft (1.911 m), from rating curve extended as explained below; minimum, 4.2 ft³/s (0.12 m³/s) Sept. 26, 27, 28, gage height, 0.79 ft (0.241 m).

Period of record: Maximum discharge, 7,460 ft³/s (211 m³/s) June 21, 1972, gage height, 9.41 ft (2.868 m), from rating curve extended above 2,600 ft³/s (73.6 m³/s) on basis of slope-area measurement at gage height 8.33 ft (2.539 m); minimum, 0.7 ft³/s (0.02 m³/s) Nov. 17, Dec. 24, 1953.

REMARKS.--Records good. Some regulation at low flow caused by gristmills at Gap Mills and Second Creek.

REVISIONS (WATER YEARS).--WSP 1275: 1950.

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	102	182	128	79	86	58	218	183	139	27	14	5.1
2	54	255	105	69	1,150	58	300	153	111	42	18	5.1
3	36	158	94	66	555	65	199	148	89	28	15	5.4
4	28	113	87	111	282	77	177	128	74	25	14	5.4
5	440	85	83	111	203	85	155	111	64	24	12	6.1
6	267	67	94	104	179	88	132	98	87	20	24	6.1
7	403	61	103	89	177	88	134	87	67	18	28	6.9
8	209	539	102	80	215	103	475	89	51	16	16	6.5
9	126	282	329	71	273	104	470	132	47	14	12	6.4
10	82	185	1,100	58	211	100	402	122	42	14	10	7.8
11	61	146	676	56	164	98	291	107	36	30	12	7.5
12	50	113	343	48	137	98	228	92	33	23	12	6.6
13	47	92	252	41	120	86	185	79	31	18	14	6.2
14	40	646	194	49	115	79	153	67	31	16	15	7.1
15	34	362	249	54	128	89	130	59	26	41	18	8.0
16	31	216	282	49	109	616	110	54	26	63	16	7.5
17	29	165	203	45	79	2,340	140	57	26	41	13	6.7
18	26	130	165	43	100	718	180	55	84	32	18	6.4
19	38	144	148	57	82	332	170	45	46	26	18	6.1
20	38	463	137	62	77	236	150	43	31	42	13	6.0
21	31	267	157	54	72	210	120	40	50	60	17	5.9
22	29	199	718	79	68	190	110	36	282	41	26	5.4
23	28	156	402	107	64	164	140	84	104	32	20	5.4
24	28	128	264	96	60	150	100	117	61	28	14	5.4
25	26	119	203	82	53	150	80	326	44	24	12	5.3
26	25	312	174	75	51	282	218	201	35	23	9.9	4.9
27	23	249	150	122	58	404	555	146	31	20	8.8	5.0
28	44	189	127	137	57	252	525	1,720	31	17	8.8	4.8
29	63	152	105	133	-----	199	297	515	39	14	7.8	4.9
30	57	137	92	105	-----	186	218	273	28	12	7.1	21
31	49	-----	86	94	-----	161	-----	188	-----	13	5.8	-----
TOTAL	2,544	6,312	7,352	2,426	4,925	7,866	6,762	5,555	1,846	844	449.2	196.9
MEAN	82.1	210	237	78.3	176	254	225	179	61.5	27.2	14.5	6.56
MAX	440	646	1,100	137	1,150	2,340	555	1,720	282	63	28	21
MIN	23	61	83	41	51	58	80	36	26	12	5.8	4.8
CFSM	1.02	2.60	2.93	.97	2.18	3.14	2.78	2.22	.76	.34	.18	.08
IN.	1.17	2.91	3.38	1.12	2.27	3.62	3.11	2.56	.85	.39	.21	.09

CAL YR 1972 TOTAL 55,537.5 MEAN 152 MAX 3,560 MIN 7.8 CFSM 1.88 IN 25.57
WTR YR 1973 TOTAL 47,078.1 MEAN 129 MAX 2,340 MIN 4.8 CFSM 1.60 IN 21.67

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1615	4.45	1,520	3-17	1315	6.14	3,260
2-2	1345	4.97	2,020	5-28	1115	6.27	3,410

03183200 Davis Spring at Fort Spring, W. Va.

LOCATION.--Lat 37°45'20", long 80°32'42", Greenbrier County, on left bank at Fort Spring, 150 ft (46 m) downstream from source, and 500 ft (152 m) upstream from mouth.

PERIOD OF RECORD.--October 1971 to September 1973 (discontinued).

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

EXTREMES.--Current year: Maximum daily discharge, 1,000 ft³/s (28.3 m³/s) Dec. 10, 23, Feb. 3, Mar. 17, Apr. 28, May 29; minimum daily, 11 ft³/s (0.31 m³/s) Sept. 22-24, 29.

Period of record: Maximum daily discharge, 1,000 ft³/s (28.3 m³/s) Feb. 26, June 22, July 6, Dec. 10, 23, 1972, Feb. 3, Mar. 17, Apr. 28, May 29, 1973; minimum daily, 11 ft³/s (0.31 m³/s) Oct. 1, 1971, Sept. 5-8, 1972, Sept. 22-24, 29, 1973.

REMARKS.--Records good except those for periods of indefinite stage-discharge relation, which are poor.

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	30	81	107	71	54	61	77	239	156	34	63	14
2	21	274	97	64	700	63	77	219	118	32	86	13
3	13	181	90	57	1,000	63	73	190	97	30	69	13
4	12	120	87	73	462	75	156	195	80	28	53	13
5	18	86	85	108	234	92	599	176	69	31	40	13
6	322	64	106	108	164	133	357	148	66	38	33	13
7	65	49	338	97	159	133	215	121	109	29	30	13
8	51	262	262	85	232	131	560	107	101	25	28	13
9	33	443	700	75	320	157	852	137	84	22	26	13
10	22	208	1,000	67	271	147	586	180	72	22	24	13
11	16	136	900	60	189	124	452	151	60	30	24	13
12	14	106	491	55	146	111	318	121	51	38	24	13
13	16	83	316	48	116	98	234	100	48	27	22	12
14	19	235	215	44	99	86	190	84	45	23	21	13
15	17	557	220	43	110	77	161	73	40	30	36	16
16	15	291	504	42	119	112	133	64	37	84	33	15
17	13	173	358	40	108	1,000	119	60	36	73	25	13
18	13	128	225	38	93	900	152	59	85	56	22	13
19	13	103	165	37	83	406	154	54	111	40	21	12
20	35	374	138	44	75	255	135	49	78	32	19	12
21	36	385	124	43	68	191	117	46	57	30	20	12
22	28	233	900	39	63	298	103	42	111	29	27	11
23	22	159	1,000	41	58	283	91	53	129	53	24	11
24	20	124	474	43	54	210	83	84	96	585	20	11
25	19	103	290	40	48	177	75	222	73	319	19	14
26	17	142	188	37	45	162	161	297	56	142	18	16
27	16	235	152	41	44	138	572	208	49	91	17	13
28	17	183	123	67	53	113	1,000	798	47	65	16	12
29	47	147	104	77	-----	96	543	1,000	43	49	15	11
30	49	120	89	70	-----	88	303	453	38	40	15	12
31	37	-----	79	61	-----	82	-----	244	-----	34	14	-----
TOTAL	1,066	5,785	9,927	1,815	5,167	6,062	8,648	5,974	2,242	2,161	904	386
MEAN	34.4	193	320	58.5	185	196	288	193	74.7	69.7	29.2	12.9
MAX	322	557	1,000	108	1,000	1,000	1,000	1,000	156	585	86	16
MIN	12	49	79	37	44	61	73	42	36	22	14	11

CAL YR 1972 TOTAL 53,432 MEAN 146 MAX 1,000 MIN 11
 WTR YR 1973 TOTAL 50,137 MEAN 137 MAX 1,000 MIN 11

NOTE.--Stage-discharge relation indefinite Dec. 9-11, 22, 23, Feb. 2, 3, Mar. 17, 18, Apr. 28, May 29.

03183500 Greenbrier River at Alderson, W. Va.

LOCATION.--Lat 37°43'30", long 80°38'30", Monroe County, on left bank 400 ft (122 m) upstream from highway bridge at Alderson, 0.5 mi (0.8 km) upstream from Muddy Creek, and at mile 28.4 (45.7 km).

DRAINAGE AREA.--1,357 mi² (3,515 km²).

PERIOD OF RECORD.--July 1895 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 1,529.42 ft (466.167 m) above mean sea level. Prior to Oct. 15, 1929, nonrecording gage at bridge 400 ft (122 m) downstream at same datum.

AVERAGE DISCHARGE.--78 years, 1,980 ft³/s (56.07 m³/s), 19.81 in/yr (503 mm/yr).

EXTREMES.--Current year: Maximum discharge, 26,200 ft³/s (742 m³/s) Feb. 3, gage height, 11.85 ft (3.612 m); minimum, 123 ft³/s (3.48 m³/s) Sept. 28, gage height, 2.01 ft (0.613 m).

Period of record: Maximum discharge, 77,500 ft³/s (2,190 m³/s) Mar. 14, 1918, gage height, 22.0 ft (6.71 m), from floodmarks, from rating curve extended above 37,000 ft³/s (1,050 m³/s); minimum, 24 ft³/s (0.68 m³/s) Aug. 12, Oct. 1, 2, 1930; minimum gage height, 1.63 ft (0.497 m) Sept. 20, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 536: 1907-9, WSP 783: Drainage area. WSP 803: 1918(M). WSP 953: 1930-41. WSP 1275: 1897, 1905, 1910, 1914(M), 1915-16, 1917(M), 1919-20(M), 1924-25(M), 1927(M), 1929, 1949.

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	736	1,780	2,710	1,440	1,980	1,390	2,500	4,530	3,160	635	547	183
2	638	7,820	2,380	1,330	10,700	1,570	4,340	3,660	2,360	573	600	170
3	544	7,130	2,020	1,200	21,300	1,860	4,620	3,090	1,860	619	600	158
4	407	4,250	1,880	1,360	9,900	4,070	4,210	3,060	1,520	763	520	153
5	1,150	2,950	1,990	2,620	5,420	5,600	9,070	2,860	1,490	693	420	164
6	8,330	2,220	2,830	3,260	3,780	6,930	6,460	2,440	2,500	683	370	152
7	8,800	1,730	10,200	2,700	3,250	5,730	4,460	2,080	3,360	690	340	150
8	4,980	6,130	7,380	2,180	3,830	4,540	7,770	1,830	2,830	523	300	157
9	3,310	11,000	11,500	1,820	5,570	4,480	11,000	3,260	2,100	423	260	155
10	2,270	6,280	21,200	1,560	5,170	3,740	8,320	4,830	1,650	366	240	162
11	1,580	4,170	17,800	1,430	3,510	3,060	6,840	3,850	1,350	439	350	161
12	1,190	3,050	9,670	1,110	2,710	2,660	5,050	3,180	1,130	555	480	157
13	1,070	2,340	5,980	984	2,220	2,290	4,170	2,660	993	548	420	140
14	1,070	5,170	4,280	878	1,980	1,940	3,540	2,190	917	387	350	142
15	964	11,000	3,730	942	2,030	1,770	3,290	1,800	853	359	420	156
16	788	6,620	6,480	968	2,530	2,650	3,210	1,530	780	1,080	400	308
17	707	4,350	5,780	928	2,460	14,600	3,340	1,370	778	914	380	317
18	648	3,190	3,950	864	1,890	15,100	5,780	1,330	1,380	692	400	259
19	653	2,540	3,160	856	1,620	7,560	5,880	1,230	2,790	499	450	234
20	875	6,950	2,800	963	1,580	4,870	4,260	1,100	1,880	406	560	217
21	1,220	9,280	2,810	1,040	1,450	4,130	3,210	1,020	1,320	414	540	185
22	1,100	5,760	13,200	1,040	1,300	4,710	2,570	978	2,490	469	520	169
23	924	4,000	15,800	1,320	1,210	4,110	2,160	1,090	3,160	501	520	156
24	842	2,960	8,000	1,940	1,110	3,560	1,880	1,380	2,100	1,850	450	146
25	776	2,350	5,140	1,780	1,040	3,600	1,700	3,380	1,430	1,500	400	137
26	727	3,650	3,720	1,550	991	3,750	3,050	3,800	1,070	923	350	139
27	676	7,450	2,990	1,560	1,080	4,590	8,330	2,960	854	675	300	148
28	694	5,040	2,490	2,770	1,380	5,550	15,900	9,290	730	504	270	128
29	1,330	3,670	2,060	3,540	-----	4,040	9,850	16,100	751	404	250	136
30	1,710	3,010	1,740	2,910	-----	3,210	5,890	7,900	717	448	233	185
31	1,510	-----	1,550	2,190	-----	2,740	-----	4,620	-----	404	204	-----
TOTAL	52,219	147,840	187,220	51,033	102,991	140,400	162,650	104,398	50,303	19,939	12,444	5,224
MEAN	1,684	4,928	6,039	1,646	3,678	4,529	5,422	3,368	1,677	643	401	174
MAX	8,800	11,000	21,200	3,540	21,300	15,100	15,900	16,100	3,360	1,850	600	317
MIN	407	1,730	1,550	856	991	1,390	1,700	978	717	359	204	128
CFSM	1.24	3.63	4.45	1.21	2.71	3.34	4.00	2.48	1.24	.47	.30	.13
IN.	1.43	4.05	5.13	1.40	2.82	3.85	4.46	2.86	1.38	.55	.34	.14
CAL YR 1972	TOTAL 1,216,150	MEAN 3,323	MAX 33,200	MIN 156	CFSM 2.45	IN 33.34						
WTR YR 1973	TOTAL 1,036,661	MEAN 2,840	MAX 21,300	MIN 128	CFSM 2.09	IN 28.42						

PEAK DISCHARGE (BASE, 19,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	1800	9.80	19,000	2- 3	0300	11.85	26,200
12-10	0100	11.27	24,100	3-17	2200	10.24	20,500
12-22	2200	10.54	21,600	5-29	0500	9.79	19,000

03184000 Greenbrier River at Hilldale, W. Va.

LOCATION.--Lat 37°38'25", long 80°48'20", Summers County, on left bank 100 ft (30 m) downstream from highway bridge on State Highway 3 at Hilldale, 0.1 mi (0.2 km) upstream from Howard Creek, 0.9 m (1.4 km) upstream from Powley Creek, 5.0 mi (8.0 km) southeast of Hinton, and at mile 5.6 (9.0 km). Records include flow of Howard Creek.

DRAINAGE AREA.--1,625 mi² (4,209 km²), includes that of Howard Creek.

PERIOD OF RECORD.--June 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,388.66 ft (423.264 m) above mean sea level, levels by Corps of Engineers.

AVERAGE DISCHARGE.--37 years, 2,188 ft³/s (61.96 m³/s), 18.28 in/yr (464 mm/yr).

EXTREMES.--Current year: Maximum discharge, 27,700 ft³/s (784 m³/s) Feb. 3, gage height, 14.22 ft (4.334 m); minimum, 119 ft³/s (3.37 m³/s) Sept. 29, 30, gage height, 0.72 ft (0.22 m).

Period of record: Maximum discharge, 56,400 ft³/s (1,600 m³/s) Mar. 8, 1967, gage height, 22.66 ft (6.907 m); minimum, 39 ft³/s (1.10 m³/s) Sept. 18-20, 1946, Sept. 16, 1964; minimum gage height, 0.32 ft (0.098 m) Sept. 16, 1964.

Flood of Mar. 18, 1936, reached a stage of 21.85 ft (6.660 m) discharge, 60,800 ft³/s (1,720 m³/s), from data furnished by Corps of Engineers.

REMARKS.--Records good. Records of instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1435: 1955.

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	724	1,950	3,210	2,180	2,330	2,010	3,090	5,740	4,110	718	432	198
2	706	6,770	2,900	1,970	8,760	2,020	4,470	4,750	3,050	641	607	179
3	613	9,030	2,500	1,800	24,700	2,300	5,680	3,960	2,420	575	623	163
4	481	5,300	2,280	1,710	13,200	3,710	5,140	3,820	1,990	727	590	151
5	846	3,580	2,290	2,120	7,230	6,560	9,660	3,630	1,730	725	480	144
6	4,880	2,660	2,830	3,880	5,040	7,660	8,490	3,110	2,640	664	392	155
7	10,900	2,050	9,670	3,270	4,360	7,140	5,800	2,680	3,730	710	374	143
8	5,340	4,610	9,370	2,680	4,770	5,550	8,930	2,330	3,510	593	338	139
9	3,500	12,700	10,100	2,210	6,630	5,330	13,800	3,310	2,780	478	280	156
10	2,380	7,910	24,200	1,970	6,610	4,680	10,500	5,710	2,050	414	257	154
11	1,670	5,230	20,700	1,690	4,730	3,790	8,840	4,910	1,640	482	269	154
12	1,240	3,780	12,400	1,390	3,510	3,260	6,670	3,900	1,330	526	462	151
13	1,040	2,870	7,660	1,200	2,930	2,870	5,370	3,260	1,210	576	490	147
14	1,020	4,200	5,520	1,040	2,520	2,460	4,530	2,700	1,040	465	389	145
15	979	12,500	5,030	1,110	2,600	2,230	4,060	2,230	929	425	358	141
16	831	8,470	7,720	1,110	3,020	4,090	3,830	1,890	866	824	436	171
17	721	5,530	7,430	1,140	3,250	15,400	3,860	1,690	821	1,080	399	321
18	656	4,000	5,140	1,020	2,670	18,500	5,590	1,620	1,130	820	393	289
19	662	3,120	3,990	995	2,120	9,830	7,350	1,510	2,800	606	413	243
20	732	6,370	3,470	1,080	2,080	6,240	5,540	1,360	2,300	471	479	225
21	1,070	11,300	3,330	1,210	1,900	5,220	4,150	1,220	1,540	418	596	206
22	1,150	7,340	12,900	1,200	1,730	5,920	3,250	1,150	4,170	460	528	180
23	951	5,130	19,500	1,340	1,600	5,440	2,740	1,400	3,850	482	527	164
24	846	3,730	10,300	2,090	1,470	4,540	2,390	1,800	2,620	1,130	482	150
25	782	2,930	6,590	2,150	1,400	4,470	2,160	3,560	1,710	1,590	428	143
26	729	3,250	4,760	1,830	1,300	4,640	3,740	4,800	1,260	1,080	378	130
27	685	7,900	4,040	1,780	1,400	5,270	9,850	3,800	966	756	335	129
28	735	6,420	3,800	2,640	1,900	6,510	18,100	12,000	819	586	295	139
29	1,060	4,590	3,400	4,110	-----	5,120	12,900	20,000	781	458	263	123
30	1,720	3,600	2,900	3,480	-----	4,040	7,730	10,500	774	391	240	144
31	1,620	-----	2,470	2,690	-----	3,410	-----	6,100	-----	469	222	-----
TOTAL	51,269	168,820	222,400	60,085	125,760	170,210	198,210	130,440	60,566	20,340	12,755	5,077
MEAN	1,654	5,627	7,174	1,938	4,491	5,491	6,607	4,208	2,019	656	411	169
MAX	10,900	12,700	24,200	4,110	24,700	18,500	18,100	20,000	4,170	1,590	623	321
MIN	481	1,950	2,280	995	1,300	2,010	2,160	1,150	774	391	222	123
CFSM	1.02	3.46	4.41	1.19	2.76	3.38	4.07	2.59	1.24	.40	.25	.10
IN.	1.17	3.86	5.09	1.38	2.88	3.90	4.54	2.99	1.39	.47	.29	.12
CAL YR 1972	TOTAL 1,427,727	MEAN 3,901	MAX 41,200	MIN 161	CFSM 2.40	IN 32.68						
WTR YR 1973	TOTAL 1,225,932	MEAN 3,359	MAX 24,700	MIN 123	CFSM 2.07	IN 28.06						

PEAK DISCHARGE (BASE, 24,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	0800	13.72	26,200	2- 3	0800	14.22	27,700

03184200 Big Creek near Bellepoint, W. Va.

LOCATION.--Lat 37°40'28", long 80°48'52", Summers County, on left bank 10 ft (3 m) downstream from bridge on Secondary State Route 10, 4.0 mi (6.4 km) northeast of Bellepoint, and at mile 2.0 (3.2 km).

DRAINAGE AREA.--8.27 mi² (21.42 km²).

PERIOD OF RECORD.--May 1969 to current year.

GAGE.--Water-stage and rainfall recorders. Concrete control since Aug. 6, 1970. Altitude of gage is 1,670 ft (509 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 3,670 ft³/s (104 m³/s) June 21, gage height, 6.7 ft (2.04 m), from flood profile, from rating curve extended as explained below; minimum, 0.01 ft³/s (<0.001 m³/s) Sept. 2-5; minimum gage height, 1.15 ft (0.351 m) Sept. 4, 5.

Period of record: Maximum discharge, 3,670 ft³/s (104 m³/s) June 21, 1973, gage height, 6.7 ft (2.04 m), from flood profile, from rating curve extended above 80 ft³/s (2.27 m³/s) on basis of slope area measurement of peak flow; minimum daily, 0.01 ft³/s (<0.001 m³/s) Aug. 6-8, 1970, Sept. 2-5, 1973.

REMARKS.--Records good. Rainfall records collected at site since May 1969 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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	3.2	56	8.9	5.7	6.9	15	17	17	7.2	4.4	.77	.02
2	1.6	33	7.5	5.2	138	14	16	12	5.4	2.8	.95	.01
3	.90	16	7.5	6.3	50	15	13	18	4.4	2.0	.45	.01
4	2.0	9.4	7.8	16	24	15	25	15	3.5	1.7	.26	.01
5	15	6.6	7.8	14	16	33	22	12	4.2	1.6	.15	.01
6	35	4.9	29	12	18	28	17	9.9	42	1.2	.10	.03
7	20	4.7	31	8.9	24	21	28	8.1	37	.95	.32	.03
8	10	36	21	7.8	38	21	107	10	50	.77	.20	.02
9	7.0	21	103	6.6	36	16	60	16	70	.77	.09	.05
10	5.0	14	123	5.8	21	14	52	13	21	.69	1.2	.07
11	3.5	11	67	4.8	15	13	32	11	10	1.2	1.4	.05
12	2.8	7.8	38	4.4	12	12	23	8.4	13	.77	.38	.03
13	2.5	6.9	25	3.6	11	9.4	16	6.6	16	.53	.20	.02
14	2.4	49	18	3.2	12	8.4	12	5.4	7.8	.61	.32	.26
15	2.2	30	67	4.9	16	10	10	4.9	5.2	4.0	.38	.20
16	1.8	17	55	4.2	14	128	8.4	4.2	5.4	2.4	.26	.07
17	1.6	12	27	4.0	12	105	15	5.2	6.0	1.4	.53	.06
18	1.6	8.1	18	4.2	10	46	16	4.2	6.6	.85	.95	.06
19	2.5	34	14	5.7	9.0	26	16	3.5	3.7	.61	.32	.06
20	6.0	60	12	5.2	8.0	19	14	3.7	2.0	.69	.15	.04
21	4.0	28	46	4.2	7.2	28	11	3.0	600	.69	.61	.03
22	3.2	18	128	4.7	7.2	28	9.9	2.5	50	.53	.61	.03
23	2.6	12	53	4.7	6.9	21	8.9	40	20	.53	.26	.03
24	2.4	8.9	30	4.2	6.6	18	8.4	53	12	.45	.10	.07
25	2.2	11	21	3.7	6.0	18	21	80	9.0	.45	.08	.20
26	1.9	22	16	3.5	6.3	40	52	29	6.0	.53	.07	.09
27	1.7	18	12	7.8	15	38	130	18	5.0	.38	.07	.08
28	11	14	9.4	7.8	16	24	71	120	4.4	.26	.06	.07
29	8.1	10	7.2	8.4	-----	18	39	41	3.7	.15	.06	.07
30	6.3	9.9	6.3	7.8	-----	18	24	18	2.4	.10	.04	1.1
31	5.2	-----	6.6	7.5	-----	14	-----	11	-----	.15	.04	-----
TOTAL	175.20	589.2	1,023.0	196.8	562.1	833.8	894.6	603.6	1,032.9	34.16	11.38	2.88
MEAN	5.65	19.6	33.0	6.35	20.1	26.9	29.8	19.5	34.4	1.10	.37	.096
MAX	35	60	128	16	138	128	130	120	600	4.4	1.4	1.1
MIN	.90	4.7	6.3	3.2	6.0	8.4	8.4	2.5	2.0	.10	.04	.01
CFSM	.68	2.37	3.99	.77	2.43	3.25	3.60	2.36	4.16	.13	.04	.01
IN.†	.79	2.65	4.60	.89	2.53	3.75	4.02	2.72	4.65	.15	.05	.01
IN.‡	3.13	3.42	4.32	.99	2.81	4.46	4.65	4.48	5.71	3.21	2.81	2.23

CAL YR 1972 TOTAL 6,447.43 MEAN 17.6 MAX 375 MIN .06 CFSM 2.13 IN† 29.00
WTR YR 1973 TOTAL 5,959.62 MEAN 16.3 MAX 600 MIN .01 CFSM 1.97 IN† 26.81

PEAK DISCHARGE (BASE, 180 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	0215	2.83	204	4-27	0415	2.87	216
2-2	0345	3.27	350	6-8	2030	3.38	392
3-16	1915	2.93	234	6-21	a1700	b6.7	3,670

† Runoff.

‡ Rainfall.

a About.

b From flood profile.

NOTE.--No gage-height record June 20-27.

03184500 New River at Hinton, W. Va.

LOCATION.--Lat 37°40'15", long 80°53'40", Summers County, on right bank at Hinton, 0.2 mi (0.3 km) upstream from Madam Creek, 1.5 mi (2.4 km) downstream from Greenbrier River, at New River mile 62.0 (99.8 km) and Kanawha River mile 159.0 (255.8 km).

DRAINAGE AREA.--6,257 mi² (16,206 km²).

PERIOD OF RECORD.--June 1936 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,355.18 ft (413.059 m) above mean sea level. Prior to June 5, 1949, water-stage recorder at site 400 ft (122 m) upstream at same datum.

AVERAGE DISCHARGE.--37 years, 7,701 ft³/s (218.1 m³/s), 16.71 in/yr (424 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 57,700 ft³/s (1,630 m³/s) May 30, gage height, 8.43 ft (2.569 m); minimum, 1,580 ft³/s (44.7 m³/s) Sept. 4, 5, gage height, 1.63 ft (0.497 m); minimum daily, 1,600 ft³/s (45.3 m³/s) Sept. 4.

Period of record: Maximum discharge, 246,000 ft³/s (6,970 m³/s) Aug. 15, 1940, gage height, 18.97 ft (5.782 m), from rating curve extended above 80,000 ft³/s (2,270 m³/s) on basis of slope-area measurement at station at Bluestone Dam, and gaged inflow from Greenbrier River; minimum, 238 ft³/s (6.74 m³/s) Aug. 21, 1962, gage height, 1.03 ft (0.314 m), minimum daily, 920 ft³/s (26.1 m³/s) Oct. 22, 1941.

REMARKS.--Records excellent above 4,000 ft³/s (113 m³/s) and good below. Flow regulated since 1939 by Claytor Lake (see sta 03169000) and since 1949 by Bluestone Lake (see sta 03179800).

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	14,100	8,200	10,900	7,040	12,300	8,720	14,200	25,200	38,200	5,700	3,550	1,980
2	8,630	15,100	10,300	6,050	25,300	8,420	17,400	18,900	24,400	5,250	4,100	1,900
3	5,810	16,000	6,850	6,680	51,000	9,440	21,800	15,400	13,000	5,350	6,200	1,900
4	4,490	10,600	6,200	8,900	48,200	9,500	18,300	15,700	9,380	5,550	5,750	1,600
5	10,600	7,900	7,600	9,870	37,400	11,400	21,600	14,500	9,740	4,400	5,000	1,930
6	19,700	6,130	9,660	11,800	25,600	16,200	20,100	12,400	11,100	4,750	4,500	2,530
7	22,000	5,840	15,200	9,500	19,400	18,600	16,000	10,200	12,700	5,400	4,550	2,740
8	12,200	10,300	16,500	7,220	17,800	14,400	23,600	9,680	13,000	4,100	5,450	2,740
9	8,700	22,400	16,300	8,120	21,800	14,100	28,400	11,600	11,600	2,800	4,800	2,250
10	7,400	15,800	24,600	8,360	19,400	13,700	25,400	15,100	10,400	3,000	4,350	1,700
11	5,690	12,500	22,600	6,680	11,200	11,300	24,000	14,000	8,300	6,100	5,850	2,130
12	4,920	10,100	35,400	5,750	11,500	11,100	19,000	11,700	7,340	4,650	5,800	2,050
13	4,470	7,370	45,800	5,800	11,900	10,600	15,800	10,400	7,520	4,350	3,450	1,880
14	4,270	11,000	35,600	4,500	11,400	10,400	14,900	8,840	5,450	3,700	4,250	2,650
15	3,420	28,700	21,400	4,050	11,200	9,200	13,300	9,940	6,800	4,200	4,450	3,850
16	2,640	19,800	23,500	4,850	12,800	18,400	12,300	7,700	7,460	4,000	4,700	2,400
17	3,180	14,300	22,500	5,200	11,600	42,100	11,800	7,280	7,520	7,880	5,200	3,300
18	3,200	11,600	17,000	5,400	8,780	51,400	13,200	7,280	7,640	6,440	6,440	3,600
19	3,570	8,630	13,400	5,400	6,740	51,000	15,300	7,520	11,100	5,200	4,550	2,840
20	4,330	14,800	13,000	7,520	7,040	45,800	13,700	7,280	9,320	4,900	3,000	2,330
21	5,150	22,600	12,100	7,280	8,720	38,400	11,600	4,300	6,620	4,850	3,650	2,180
22	3,860	18,200	29,800	4,750	7,820	31,000	10,600	5,850	9,020	4,500	4,900	2,200
23	2,770	13,800	41,800	7,460	7,700	23,100	9,020	8,540	10,400	3,250	5,100	1,930
24	3,670	10,600	27,100	3,040	7,340	19,100	7,580	10,200	7,820	3,300	4,650	1,700
25	3,730	10,100	19,400	6,050	6,150	15,800	7,340	15,200	6,440	5,350	3,600	2,100
26	3,690	10,000	13,700	6,800	5,400	17,700	12,700	15,700	6,380	6,500	3,080	2,430
27	3,990	15,200	13,300	9,680	7,220	19,600	26,700	13,000	6,150	5,650	2,030	2,350
28	4,760	15,000	11,400	11,300	9,260	19,700	48,300	30,000	5,800	5,950	3,550	2,150
29	4,860	14,700	11,000	16,200	-----	16,100	46,900	44,800	5,650	3,350	4,250	2,330
30	5,450	11,900	10,600	16,700	-----	13,700	36,200	55,300	6,680	2,650	3,400	2,100
31	6,270	-----	7,400	14,200	-----	14,200	-----	47,000	-----	3,200	2,710	-----
TOTAL	201,520	399,170	571,910	242,150	441,970	614,180	577,040	490,510	302,930	146,270	136,860	69,770
MEAN	6,501	13,310	18,450	7,811	15,780	19,810	19,230	15,820	10,100	4,718	4,415	2,326
MAX	22,000	28,700	45,800	16,700	51,000	51,400	48,300	55,300	38,200	7,880	6,440	3,850
MIN	2,640	5,840	6,200	3,040	5,400	8,420	7,340	4,300	5,450	2,650	2,030	1,600
CAL YR 1972	TOTAL 4,454,860	MEAN 12,170	MAX 63,200	MIN 1,570	MEAN† 12,170	CFSM† 1.95	IN† 26.54					
WTR YR 1973	TOTAL 4,194,280	MEAN 11,490	MAX 55,300	MIN 1,600	MEAN† 11,490	CFSM† 1.84	IN† 24.98					

† Adjusted for change in contents in Claytor (Virginia) and Bluestone Lakes.

03185000 Piney Creek at Raleigh, W. Va.

LOCATION.--Lat 37°45'40", long 81°09'50", Raleigh County, on left bank at Raleigh, 0.5 mi (0.8 km) downstream from Whitestick Creek, 0.5 mi (0.8 km) upstream from Beaver Creek, 1.5 mi (2.4 km) southeast of Beckley, and at mile 12.0 (19.3 km).

DRAINAGE AREA.--52.2 mi² (135.2 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 2,087.24 ft (636.191 m) above mean sea level.

AVERAGE DISCHARGE.--22 years, 60.5 ft³/s (1.713 m³/s), 15.74 in/yr (400 mm/yr).

EXTREMES.--Current year: Maximum discharge, 765 ft³/s (21.7 m³/s) Mar. 17, gage height, 3.62 ft (1.103 m); minimum, 3.0 ft³/s (0.085 m³/s) Sept. 29, gage height, 1.29 ft (0.393 m).

Period of record: Maximum discharge, 2,870 ft³/s (81.3 m³/s) Mar. 12, 1963, gage height, 6.49 ft (1.978 m); minimum, 0.2 ft³/s (0.001 m³/s) Sept. 5-18, 21-23, 1964; minimum gage height, 1.07 ft (0.326 m) Sept. 9-12, 16, 17, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1435: 1955(M).

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	94	107	82	55	45	76	92	132	98	16	26	5.1
2	55	141	73	48	82	70	89	103	78	23	24	5.1
3	34	123	65	51	112	68	81	112	66	20	18	4.6
4	28	94	63	65	98	78	95	106	56	32	13	4.6
5	43	73	59	61	76	103	109	92	55	25	11	4.6
6	46	59	79	63	72	112	103	81	62	19	13	7.2
7	45	50	99	55	78	98	100	72	60	15	22	5.1
8	38	73	97	45	95	89	146	72	53	13	30	4.6
9	31	84	300	40	118	72	177	121	52	15	19	14
10	25	82	545	35	106	62	205	118	44	13	13	19
11	21	105	488	30	84	58	170	103	39	13	11	9.8
12	21	97	253	25	70	60	139	84	36	11	11	6.7
13	20	82	162	25	60	52	115	70	35	8.9	11	5.9
14	19	99	123	30	64	48	92	60	30	7.6	15	13
15	17	102	135	36	89	62	78	56	25	18	25	11
16	16	91	156	33	92	209	68	52	24	16	24	7.6
17	16	82	135	34	78	665	89	56	24	12	100	6.7
18	16	69	110	31	70	362	98	52	28	9.8	30	8.0
19	50	67	100	37	65	230	95	47	22	12	20	6.3
20	57	94	95	40	60	177	86	50	20	17	16	5.9
21	45	94	120	34	56	181	76	45	47	21	18	5.9
22	37	91	340	37	55	195	68	42	33	29	23	4.6
23	33	82	260	38	53	160	64	195	25	22	18	4.6
24	31	71	190	34	53	132	62	268	20	25	14	4.2
25	28	67	150	33	48	121	72	251	17	36	12	4.2
26	25	99	120	31	50	115	237	170	16	29	9.8	3.6
27	23	115	94	48	66	115	430	129	14	18	8.0	3.6
28	50	107	79	55	81	103	534	219	18	13	7.6	3.6
29	61	94	69	61	-----	95	300	265	16	12	7.2	3.6
30	55	87	63	55	-----	86	184	184	13	9.8	6.3	6.3
31	50	-----	59	50	-----	74	-----	135	-----	13	5.9	-----
TOTAL	1,130	2,681	4,763	1,315	2,076	4,128	4,254	3,542	1,126	544.1	581.8	199.0
MEAN	36.5	89.4	154	42.4	74.1	133	142	114	37.5	17.6	18.8	6.63
MAX	94	141	545	65	118	665	534	268	98	36	100	19
MIN	16	50	59	25	45	48	62	42	13	7.6	5.9	3.6
CFSM	.70	1.71	2.95	.81	1.42	2.55	2.72	2.18	.72	.34	.36	.13
IN.	.81	1.91	3.39	.94	1.48	2.94	3.03	2.52	.80	.39	.41	.14

CAL YR 1972 TOTAL 33,986.0 MEAN 92.9 MAX 1,500 MIN 7.5 CFSM 1.78 IN 24.22
WTR YR 1973 TOTAL 26,339.9 MEAN 72.2 MAX 665 MIN 3.6 CFSM 1.38 IN 18.77

PEAK DISCHARGE (BASE, 700 CFS).--Mar.17 (0600) 765 cfs (3.62 ft).

03186500 Williams River at Dyer, W. Va.

LOCATION.--Lat 38°22'45", long 80°29'05", Webster County, on left bank at Dyer, 0.2 mi (0.3 km) downstream from Craig Run, 7.0 mi (11.3 km) southwest of Webster Springs, and at mile 2.1 (3.4 km).

DRAINAGE AREA.--128 mi² (332 km²).

PERIOD OF RECORD.--September 1929 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 2,193.46 ft (668.567 m) above mean sea level, adjustment of 1912. Prior to June 11, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 323 ft³/s (9.15 m³/s), 34.27 in/yr (870 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,500 ft³/s (241 m³/s) Nov. 1, gage height, 10.44 ft (3.182 m), from rating curve extended as explained below; minimum, 14 ft³/s (0.40 m³/s) Sept. 13, 14, gage height, 0.99 ft (0.302 m).

Period of record: Maximum discharge, 22,000 ft³/s (623 m³/s) July 4, 1932, gage height, 18.45 ft (5.624 m), from floodmarks, from rating curve extended above 7,000 ft³/s (198 m³/s) on basis of slope-area measurements at gage heights 12.33 and 18.45 ft (3.758 and 5.624 m); minimum daily, 0.5 ft³/s (0.014 m³/s) Oct. 13-16, 21, 1953; minimum gage height, 0.44 ft (0.134 m) Oct. 5, 6, 1953.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1275: 1930.

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	287	3,100	305	221	244	287	922	621	412	44	58	29
2	147	2,750	252	195	2,650	333	964	461	310	66	63	25
3	98	1,080	249	186	1,390	1,050	655	708	240	57	54	45
4	75	645	379	421	732	1,460	745	682	191	70	43	56
5	673	446	652	410	520	1,500	866	486	361	130	36	62
6	1,590	333	1,350	329	446	1,170	623	370	419	75	30	44
7	917	270	1,210	247	487	845	584	298	339	50	31	42
8	617	1,310	1,280	230	591	687	1,150	293	277	39	25	35
9	371	1,710	4,090	198	628	513	928	849	207	32	22	27
10	254	943	5,640	155	424	395	859	607	174	28	21	23
11	194	696	1,880	137	326	333	620	582	131	52	246	20
12	260	525	984	120	274	320	499	466	103	55	95	17
13	477	404	676	100	247	260	401	361	163	35	147	14
14	319	852	497	110	264	223	368	294	171	26	145	74
15	247	1,240	756	120	437	328	559	243	109	82	143	223
16	211	738	863	110	404	403	872	203	154	123	117	104
17	202	515	552	110	294	1,230	1,880	198	317	92	84	61
18	165	383	431	100	260	852	1,470	208	453	56	95	57
19	280	348	365	180	251	600	872	169	343	40	78	84
20	319	1,100	645	330	208	526	586	166	239	42	60	59
21	257	768	402	241	181	583	432	313	211	49	183	46
22	223	539	2,420	464	163	505	342	253	178	85	247	39
23	200	408	1,200	534	150	392	294	233	146	171	144	35
24	186	319	728	348	135	392	348	428	112	328	102	31
25	160	277	516	270	126	581	320	766	89	142	127	28
26	145	520	404	235	150	819	707	625	75	100	97	24
27	128	446	335	424	244	1,150	1,260	453	70	99	74	20
28	226	395	270	468	254	700	1,790	1,600	77	77	60	18
29	333	386	224	391	-----	518	1,130	1,760	71	128	51	26
30	356	342	210	284	-----	421	810	832	54	91	42	550
31	280	-----	247	267	-----	352	-----	585	-----	62	35	-----
TOTAL	10,197	23,788	28,412	7,935	12,480	19,728	23,856	16,113	6,196	2,526	2,755	1,918
MEAN	329	793	917	256	446	636	795	520	207	81.5	88.9	63.9
MAX	1,590	3,100	4,090	534	2,650	1,500	1,880	1,760	453	328	247	550
MIN	75	270	210	100	126	223	294	166	54	26	21	14
CFSM	2.57	6.20	7.16	2.00	3.48	4.97	6.21	4.06	1.62	.64	.69	.50
IN.	2.96	6.91	8.26	2.31	3.63	5.73	6.93	4.68	1.80	.73	.80	.56

CAL YR 1972 TOTAL 205,978 MEAN 563 MAX 5,860 MIN 11 CFSM 4.40 IN 59.86
 WTR YR 1973 TOTAL 155,904 MEAN 427 MAX 4,090 MIN 14 CFSM 3.34 IN 45.31

PEAK DISCHARGE (BASE, 4,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 1	1945	10.44	8,500	2- 2	0900	8.13	5,540
12- 9	0415	7.59	4,950				

03187000 Gauley River at Camden on Gauley, W. Va.

LOCATION.--Lat 38°21'55", long 80°36'05", Webster County, on right bank at Baltimore & Ohio Railroad station at Camden on Gauley, 0.2 mi (0.3 km) downstream from Coon Creek, 0.9 mi (1.4 km) upstream from Strouds Creek, and at mile 69.6 (112.0 km).

DRAINAGE AREA.--236 mi² (611 km²).

PERIOD OF RECORD.--July 1908 to September 1916, October 1929 to current year. Prior to October 1934, published as "at Allingdale". Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected in this vicinity since 1901 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 2,003.28 ft (610.600 m) above mean sea level, adjustment of 1912. July 1908 to Sept. 30, 1916, nonrecording gage at site 1.1 mi (1.8 km) downstream at datum 3.08 ft (0.939 m) lower. Oct. 20, 1929, to Oct. 29, 1934, nonrecording gage at site 1.1 mi (1.8 km) downstream at present datum.

AVERAGE DISCHARGE.--52 years, 580 ft³/s (14.43 m³/s), 33.37 in/yr (848 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 6,400 ft³/s (181 m³/s) Dec. 9; minimum, 29 ft³/s (0.82 m³/s) Aug. 10, gage height, 1.76 ft (0.536 m).

Period of record: Maximum discharge, 42,500 ft³/s (1,200 m³/s) July 4, 1932, gage height, 27.38 ft (8.345 m), present site and datum, from floodmarks, from rating curve extended above 17,000 ft³/s (481 m³/s) on basis of velocity-area studies; minimum, 0.3 ft³/s (0.008 m³/s) Oct. 23-27, 1953; minimum gage height, 0.36 ft (0.110 m) Sept. 9, 1964.

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

REVISIONS (WATER YEARS).--WSP 1275: 1908-16, 1931(M), 1934.

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	605	4,730	540	420	480	563	930	1,150	645	76	102	53
2	282	6,000	480	380	2,650	590	1,330	885	474	68	98	43
3	183	2,080	440	360	2,170	1,050	985	1,270	363	100	87	40
4	138	1,220	560	600	1,290	1,900	985	1,500	285	98	72	74
5	204	809	1,000	740	940	1,750	1,470	1,040	690	180	58	145
6	2,630	584	1,500	620	790	1,560	1,180	770	570	145	49	104
7	1,400	456	2,000	500	863	1,130	1,060	590	610	92	43	118
8	1,000	1,550	1,800	400	1,020	975	1,690	510	442	68	41	102
9	580	3,020	6,400	350	1,190	785	1,730	1,460	331	55	34	74
10	380	1,800	5,400	300	852	615	1,570	1,230	257	48	31	60
11	300	1,270	3,000	260	649	519	1,200	1,130	206	51	183	48
12	300	977	2,000	239	549	492	980	990	178	83	153	42
13	700	739	1,200	196	493	407	850	760	254	65	188	36
14	540	1,120	1,000	206	457	351	790	590	295	48	218	40
15	420	2,190	1,500	230	910	438	1,010	474	200	63	233	260
16	360	1,410	1,800	209	929	690	1,400	383	188	173	212	209
17	320	980	1,200	186	675	1,520	2,830	347	541	153	165	123
18	280	699	900	181	722	1,510	2,890	379	750	111	140	100
19	440	567	720	275	634	1,110	1,670	299	690	76	150	109
20	600	1,590	1,000	801	506	1,030	1,120	299	447	60	109	111
21	500	1,410	1,800	623	370	1,220	830	580	438	61	224	85
22	420	1,020	3,600	648	418	1,210	645	510	331	89	590	72
23	360	751	2,200	873	309	915	528	478	267	140	299	65
24	320	568	1,500	541	258	825	650	870	206	399	203	61
25	267	475	1,000	408	227	1,020	615	1,540	165	209	180	63
26	239	821	760	358	269	1,290	1,310	1,200	135	143	173	55
27	213	886	660	471	443	1,760	1,920	885	114	116	130	45
28	241	725	540	680	554	1,200	3,330	2,350	130	111	107	38
29	451	660	460	598	-----	920	2,180	2,040	120	295	89	55
30	541	600	400	572	-----	745	1,500	1,200	98	183	76	975
31	456	-----	440	607	-----	610	-----	910	-----	116	65	-----
TOTAL	15,670	41,707	48,000	13,832	21,617	30,700	41,178	28,619	10,420	3,675	4,502	3,405
MEAN	505	1,390	1,548	446	772	990	1,373	923	347	119	145	114
MAX	2,630	6,000	6,400	873	2,650	1,900	3,330	2,350	750	399	590	975
MIN	138	456	400	181	227	351	528	299	98	48	31	36
CFSM	2,14	5,89	6,56	1,89	3,27	4,19	5,82	3,91	1,47	50	61	48
IN.	2,47	6,57	7,57	2,18	3,41	4,84	6,49	4,51	1,64	58	71	54
CAL YR 1972	TOTAL 353,450		MEAN 966	MAX 11,000	MIN 21	CFSM 4.09	IN 55.71					
WTR YR 1973	TOTAL 263,325		MEAN 721	MAX 6,400	MIN 31	CFSM 3.06	IN 41.51					

PEAK DISCHARGE (BASE, 7,000 CFS)

NOTE.--No gage-height record
Nov. 29 to Jan. 11.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 1	2130	16.69	15,300	12- 9	unknown	-	unknown

03189100 Gauley River near Craigsville, W. Va.

LOCATION.--Lat 38°17'30", long 80°38'30", Nicholas County, on right bank at downstream side of highway bridge on W. Va. Route 20, 200 ft (61 m) downstream from Cherry River, 1.8 mi (2.9 km) downstream from Cranberry River, 2.7 mi (4.3 km) south of Craigsville, and at mile 60.0 (96.5 km).

DRAINAGE AREA.--528 mi² (1,368 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,870.00 ft (569.976 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 1,393 ft³/s (39.45 m³/s), 35.83 in/yr (910 mm/yr).

EXTREMES.--Current year: Maximum discharge, 32,000 ft³/s (906 m³/s) Nov. 1, gage height, 20.56 ft (6.267 m); minimum, 75 ft³/s (2.12 m³/s) Sept. 13, 14, gage height, 9.18 ft (2.798 m).
Period of record: Maximum discharge, 40,700 ft³/s (1,150 m³/s) Mar. 7, 1967, gage height, 22.73 ft (6.928 m); minimum, 13 ft³/s (0.37 m³/s) Sept. 27, 1967, gage height, 8.62 ft (2.627 m).

REMARKS.--Records good. Records of instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

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	1,140	10,900	1,290	980	1,050	1,300	2,120	2,850	1,500	221	337	156
2	576	13,300	1,080	885	7,850	1,350	3,290	2,110	1,130	251	331	133
3	379	4,830	1,000	822	5,630	2,460	2,400	2,820	878	251	285	115
4	279	2,870	1,250	1,380	3,210	4,500	2,580	3,390	714	257	230	133
5	379	1,930	2,150	1,700	2,300	4,130	3,740	2,370	1,600	355	194	221
6	3,580	1,420	3,400	1,410	1,910	3,700	2,910	1,730	1,460	319	181	194
7	2,710	1,130	4,800	1,000	2,020	2,620	2,540	1,340	1,470	221	156	212
8	2,140	3,860	3,860	903	2,290	2,180	3,880	1,240	1,090	181	141	198
9	1,300	7,360	13,400	786	2,550	1,730	4,000	3,440	830	149	122	152
10	874	4,290	13,200	678	1,870	1,370	3,870	2,940	657	130	108	156
11	663	3,020	8,420	573	1,470	1,160	2,970	2,750	531	290	398	126
12	671	2,340	4,280	540	1,170	1,070	2,360	2,340	467	240	361	99
13	1,650	1,790	2,960	490	1,050	913	1,970	1,750	660	185	410	84
14	1,220	2,590	2,150	535	1,080	795	1,760	1,360	688	137	517	119
15	931	4,620	3,120	548	2,020	937	2,240	1,100	500	561	524	576
16	774	3,150	4,060	501	2,100	1,500	2,980	905	456	647	482	489
17	747	2,230	2,620	464	1,490	3,930	6,070	834	1,040	569	385	279
18	623	1,640	1,940	446	1,220	3,550	6,600	873	2,920	385	385	230
19	961	1,350	1,630	591	1,180	2,610	3,850	721	1,990	262	367	279
20	1,400	3,300	2,100	1,410	976	2,380	2,620	694	1,270	246	290	257
21	1,100	3,070	3,240	1,230	849	3,270	1,880	1,050	1,070	319	1,120	198
22	931	2,280	8,990	1,370	752	3,100	1,460	1,010	892	417	1,850	169
23	818	1,730	5,320	2,050	685	2,200	1,210	1,000	721	663	992	149
24	800	1,350	3,320	1,400	621	1,870	1,360	1,600	561	1,370	663	141
25	645	1,150	2,310	1,090	571	2,340	1,270	3,560	456	747	561	133
26	565	1,710	1,780	936	643	3,050	2,820	2,940	373	503	496	115
27	507	1,910	1,490	1,180	1,050	3,630	4,320	2,080	319	385	385	96
28	677	1,630	1,200	1,660	1,300	2,630	8,210	6,160	337	319	308	84
29	1,170	1,560	990	1,520	-----	1,940	5,250	5,300	337	647	257	84
30	1,390	1,410	912	1,210	-----	1,590	3,520	3,020	273	496	216	1,430
31	1,180	-----	1,000	1,060	-----	1,320	-----	2,130	-----	325	185	-----
TOTAL	32,780	95,720	109,262	31,348	50,907	71,125	96,050	67,407	27,190	12,048	13,237	6,807
MEAN	1,057	3,191	3,525	1,011	1,818	2,294	3,202	2,174	906	389	427	227
MAX	3,580	13,300	13,400	2,050	7,850	4,500	8,210	6,160	2,920	1,370	1,850	1,430
MIN	279	1,130	912	446	571	795	1,210	694	273	130	108	84
CFSM	2.00	6.04	6.68	1.91	3.44	4.34	6.06	4.12	1.72	.74	.81	.43
IN.	2.31	6.74	7.70	2.21	3.59	5.01	6.77	4.75	1.92	.85	.93	.48

CAL YR 1972 TOTAL 815,701 MEAN 2,229 MAX 25,800 MIN 43 CFSM 4.22 IN 57.47
WTR YR 1973 TOTAL 613,881 MEAN 1,682 MAX 13,400 MIN 84 CFSM 3.19 IN 43.25

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 1	2030	20.56	32,000	2- 2	1500	15.64	13,200
12-10	1730	16.76	17,200				

03189590 Summersville Lake near Summersville, W. Va.

LOCATION.--Lat 38°13'20", long 80°53'35", Nicholas County, at Summersville Dam on Gauley River, 4.6 mi (7.4 km) southwest of Summersville, and at mile 34.5 (55.5 km).

DRAINAGE AREA.--803 mi² (2,080 km²).

PERIOD OF RECORD.--May 1965 to current year (monthend contents only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents, 196,400 acre-ft (242 hm³) June 18, elevation, 1,653.73 ft (504.056 m); minimum, 21,930 acre-ft (270 hm³) Dec. 6, elevation, 1517.80 ft (462.625 m).

Period of record: Maximum contents since storage began, 421,800 acre-ft (520 hm³) Mar. 5, 1966, elevation, 1,711.7 ft (521.73 m), caused by flood before valves were operational; minimum since initial filling, 6,990 acre-ft (8.62 hm³) Jan. 13, 1967, elevation, 1,464.5 ft (446.38 m).

REMARKS.--Reservoir is formed by rockfill dam with impervious core, completed in 1971; closure of dam was made and storage began in May 1965. Spillway is uncontrolled saddle spillway 1,250 ft (381.0 m) long. Flow is controlled by three 9-ft (2.7 m) and one 2.5-ft (0.76 m) diameter Howell-Bunger fixed-cone dispersion valves. Total level-pool capacity at elevation 1,710 ft (521.2 m), flood-control pool elevation, is 413,800 acre-ft (510 hm³) of which 390,800 acre-ft (482 hm³) is controlled storage above elevation 1,520 ft (463.3 m), minimum-pool elevation. Reservoir is used for flood control.

COOPERATION.--Records furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents acre-feet	(equivalent in cfs)
Sept. 30.....	1,633.97	146,500	-	-
Oct. 31.....	1,582.16	64,960	-81,540	-1,330
Nov. 30.....	1,519.13	22,460	-42,500	-714
Dec. 31.....	1,530.81	27,590	+5,130	+83
CAL YR 1972	-	-	+120	0
Jan. 31.....	1,537.00	30,720	+3,130	+51
Feb. 28.....	1,531.27	27,810	-2,910	-52
Mar. 31.....	1,600.60	87,310	+59,500	+968
Apr. 30.....	1,652.37	192,600	+105,300	+1,770
May 31.....	1,652.12	191,900	-700	-11
June 30.....	1,652.62	193,300	+1,400	+24
July 31.....	1,652.70	193,500	+200	+3
Aug. 31.....	1,652.76	193,700	+200	+3
Sept. 30.....	1,635.18	149,200	-44,500	-748
WTR YR 1973	-	-	+2,700	+4

03189600 Gauley River below Summersville Dam, W. Va.

LOCATION.--Lat 38°13'00", long 80°53'30", Nicholas County, on right bank 0.4 mi (0.6 km) downstream from Summersville Dam, 5.0 mi (8.0 km) southwest of Summersville, and at mile 34.1 (54.9 km).

DRAINAGE AREA.--804 mi² (2,082 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 1,350.00 ft (411.480 m) above mean sea level, levels by Corps of Engineers.

AVERAGE DISCHARGE.--7 years, 2,172 ft³/s (61.51 m³/s), 36.69 in/yr (932 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 15,200 ft³/s (430 m³/s) Apr. 28, gage height, 18.29 ft (5.575 m); minimum, 17 ft³/s (0.48 m³/s) Dec. 6, gage height, 4.74 ft (1.445 m); minimum daily, 101 ft³/s (2.86 m³/s) July 28.

Period of record: Maximum discharge, 17,800 ft³/s (504 m³/s) Mar. 26, 1966, gage height, 19.30 ft (5.883 m); minimum, 1.9 ft³/s (0.054 m³/s) Feb. 16, 17, 1967, gage height, 3.67 ft (1.119 m); minimum daily, 2.4 ft³/s (0.068 m³/s) Feb. 10, 13-16, 1967.

REMARKS.--Records good except those below 1,000 ft³/s (28.3 m³/s), which are fair. Flow regulated by Summersville Lake (see sta 03189590).

REVISIONS (WATER YEARS).--WRD W. Va. 1967: 1966.

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	4,020	8,300	2,110	1,790	3,350	2,370	130	4,120	2,070	468	444	122
2	2,600	14,900	1,880	1,500	7,870	2,380	125	4,170	2,080	213	444	122
3	1,840	14,700	1,530	1,090	8,210	2,600	690	4,180	1,410	109	444	183
4	1,410	11,000	1,590	1,700	4,310	5,390	960	5,620	480	565	444	308
5	1,590	5,190	3,400	2,650	3,680	4,810	130	4,730	2,120	990	444	504
6	7,180	4,020	600	2,260	2,390	4,440	150	3,070	3,710	388	444	996
7	5,220	3,000	6,940	1,690	3,700	3,600	128	2,210	1,850	388	444	1,090
8	1,960	2,300	4,170	2,020	3,620	2,710	130	1,740	1,230	266	444	996
9	2,040	11,700	5,540	1,390	4,240	2,720	150	5,400	1,230	121	234	996
10	2,530	6,910	325	1,010	3,640	2,720	133	5,560	1,230	121	115	1,590
11	2,290	6,820	329	695	2,840	2,080	133	4,590	960	269	113	1,220
12	2,110	5,020	4,390	504	1,930	1,300	133	4,030	392	484	540	735
13	3,500	3,530	11,300	635	1,630	834	133	3,000	996	346	1,190	1,460
14	3,270	3,860	10,600	912	1,930	840	1,240	2,550	1,680	115	760	1,860
15	2,620	6,770	10,400	912	3,700	1,230	4,200	2,180	870	770	942	1,860
16	2,480	6,610	10,200	665	3,820	2,490	5,220	1,640	548	1,150	942	1,380
17	2,820	4,920	9,690	540	2,800	5,110	6,320	1,210	1,370	1,150	680	715
18	2,580	3,500	9,530	620	2,160	5,750	9,640	996	4,030	894	508	1,110
19	2,160	2,560	9,080	888	2,270	4,540	5,680	1,210	4,540	440	508	1,240
20	2,160	3,720	4,450	1,850	2,220	1,300	4,410	1,550	1,860	440	508	1,680
21	3,000	4,330	3,690	2,460	1,760	148	3,400	1,550	1,370	440	1,060	2,020
22	3,640	3,780	9,810	3,010	1,170	625	2,330	1,550	1,370	876	3,600	2,420
23	2,870	2,630	11,700	1,900	1,110	2,310	1,920	1,550	1,370	1,100	2,520	1,840
24	2,210	2,170	5,400	308	1,420	1,900	1,930	2,850	1,010	1,680	1,710	1,100
25	3,770	2,160	3,700	332	1,860	1,150	2,320	4,980	424	2,170	1,190	1,100
26	4,270	2,160	2,680	336	1,220	1,970	4,370	4,550	424	996	750	1,100
27	3,080	2,990	2,620	343	1,460	2,460	7,910	3,120	193	311	500	1,100
28	2,700	2,990	1,990	346	2,370	1,350	12,800	7,190	107	101	124	1,090
29	3,160	2,590	1,200	1,800	-----	870	10,100	8,080	610	520	122	1,090
30	3,390	2,610	1,800	4,620	-----	552	5,310	4,290	840	1,280	122	2,460
31	3,370	-----	1,790	4,490	-----	182	-----	3,010	-----	780	122	-----
TOTAL	91,940	157,740	154,834	45,246	82,680	72,731	92,185	106,476	42,374	19,941	22,412	35,487
MEAN	2,966	5,258	4,995	1,460	2,953	2,346	3,073	3,435	1,412	643	723	1,183
MAX	7,180	14,900	11,700	4,620	8,210	5,750	12,800	8,080	4,540	2,170	3,600	2,460
MIN	1,410	2,160	325	308	1,110	148	125	996	107	101	113	122

CAL YR 1972 TOTAL 1,191,590 MEAN 3,256 MAX 15,600 MIN 44 MEAN† 3,256 CFSM† 4.05 IN† 55.13
 WTR YR 1973 TOTAL 924,046 MEAN 2,532 MAX 14,900 MIN 101 MEAN† 2,536 CFSM† 3.15 IN† 42.76

† Adjusted for change in contents in Summersville Lake.

03189650 Collison Creek near Nallen, W. Va.

LOCATION.--Lat 38°10'35", long 80°52'07", Nicholas County, on right bank 10 ft (3 m) upstream from culvert on U.S. Highway 19, 80 ft (24 m) upstream from unnamed tributary, 4.5 mi (7.2 km) north of Nallen, and at mile 3.2 (5.1 km).

DRAINAGE AREA.--2.78 mi² (7.20 km²).

PERIOD OF RECORD.--May 1965 to September 1966 (annual maximum only), October 1966 to current year.

GAGE.--Water-stage and rainfall recorders and culvert control. Metal weir since Oct. 7, 1966. Altitude of gage is 1,830 ft (558 m), from topographic map. Prior to Oct. 7, 1966, SR recorder at same site and datum.

AVERAGE DISCHARGE.--7 years, 4.50 ft³/s (0.127 m³/s), 21.98 in/yr (558 mm/yr).

EXTREMES.--Current year: Maximum discharge, 79 ft³/s (2.24 m³/s) Nov. 1, gage height, 5.22 ft (1.591 m); minimum, 0.06 ft³/s (0.002 m³/s) Sept. 2, 5-9, 11, 12, 13, 27; minimum gage height, 2.72 ft (0.829 m), Sept. 2. Period of record: Maximum discharge, 270 ft³/s (7.65 m³/s) Mar. 7, 1967, gage height, 8.75 ft (2.667 m), from rating curve extended above 120 ft³/s (3.40 m³/s) on basis of culvert rating computation; no flow Sept. 15-27, 1967.

REMARKS.--Records good. Rainfall records collected at site since October 1966 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	37	5.8	3.4	5.0	5.3	4.7	13	3.0	.95	1.1	.10
2	1.2	22	5.0	2.8	9.3	5.0	4.1	10	2.8	.80	.80	.08
3	.82	11	4.7	2.8	12	4.4	3.6	30	2.1	.69	.58	.08
4	.64	7.0	4.7	3.8	9.9	3.8	6.2	18	1.7	2.8	.48	.10
5	.94	5.8	4.7	3.4	8.4	3.6	11	11	3.2	1.9	.26	.06
6	2.0	4.4	5.5	3.4	7.6	3.2	10	7.6	3.2	1.4	.20	.06
7	4.0	3.6	6.4	2.8	7.0	3.0	9.0	5.5	2.8	.95	.20	.06
8	3.2	9.0	16	2.5	7.3	3.0	12	4.7	1.9	.58	.15	.06
9	2.3	15	49	2.3	6.7	3.0	15	20	1.6	4.7	.10	.08
10	1.4	12	42	2.2	5.8	3.0	28	12	1.4	5.5	.10	.10
11	1.1	8.7	24	2.1	5.0	3.0	16	9.0	.80	12	.38	.08
12	3.7	6.7	14	2.0	4.1	3.0	13	6.1	.80	5.8	.32	.08
13	6.6	5.8	9.6	1.9	3.9	2.8	12	4.7	1.7	3.0	.58	.06
14	5.1	7.0	7.0	1.8	3.8	2.8	10	3.6	1.2	1.9	.58	.20
15	3.6	9.0	25	1.8	5.0	5.5	7.9	3.0	.69	23	.48	.15
16	2.9	8.2	21	1.7	6.6	8.7	6.1	2.8	.80	12	.38	.10
17	2.5	6.7	12	2.0	6.0	17	20	3.0	1.4	6.7	.32	.08
18	1.8	5.8	9.0	1.7	5.3	13	20	2.8	3.4	3.6	.95	.15
19	5.5	5.0	7.0	2.4	4.8	10	12	2.5	1.9	2.5	.48	.15
20	6.6	7.0	7.0	2.3	3.9	9.6	8.7	2.8	3.8	2.5	.32	.15
21	5.9	7.3	9.6	2.2	3.8	33	6.4	2.8	5.8	3.8	1.4	.10
22	4.6	6.7	50	3.0	3.6	20	5.0	2.3	13	11	3.4	.10
23	3.9	5.8	20	3.8	3.6	13	4.1	3.0	7.0	6.7	2.3	.10
24	3.2	5.3	12	3.4	3.6	11	4.4	5.3	3.6	4.1	1.4	.10
25	2.6	5.3	8.7	3.4	3.2	9.3	3.8	8.4	2.5	2.8	1.1	.10
26	2.2	7.3	7.3	3.2	3.2	7.9	5.0	7.0	1.6	2.1	.69	.10
27	1.9	8.2	6.4	3.6	4.4	7.6	22	5.3	1.1	1.6	.48	.06
28	2.4	7.3	5.5	3.6	5.3	6.4	45	5.5	1.1	1.3	.32	.10
29	2.6	6.4	4.7	5.0	-----	5.8	18	4.7	1.1	1.3	.26	.15
30	2.9	6.1	4.4	5.0	-----	5.0	12	3.8	.69	.95	.20	.26
31	3.0	-----	4.1	5.0	-----	3.8	-----	3.6	-----	.69	.15	-----
TOTAL	92.70	262.4	412.1	90.3	158.1	235.5	357.0	223.8	77.68	129.61	20.46	3.15
MEAN	2.99	8.75	13.3	2.91	5.65	7.60	11.9	7.22	2.59	4.18	.66	.11
MAX	6.6	37	50	5.0	12	33	45	30	13	23	3.4	.26
MIN	.64	3.6	4.1	1.7	3.2	2.8	3.6	2.3	.69	.58	.10	.06
CFSM	1.08	3.15	4.78	1.05	2.03	2.73	4.28	2.60	.93	1.50	.24	.04
IN†	1.24	3.51	5.51	1.21	2.12	3.15	4.78	2.99	1.04	1.73	.27	.04
IN††	2.99	5.17	6.06	-	-	4.59	7.10	5.37	4.89	-	3.38	2.87

CAL YR 1972 TOTAL 2,635.50 MEAN 7.20 MAX 108 MIN .18 CFSM 2.59 IN† 35.27
WTR YR 1973 TOTAL 2,062.80 MEAN 5.65 MAX 50 MIN .06 CFSM 2.03 IN† 27.60

PEAK DISCHARGE (BASE, 70 CFS).--Nov. 1 (1500) 79 cfs (5.22 ft).

† Runoff.

†† Rainfall.

03190400 Meadow River near Mt. Lookout, W. Va.

LOCATION.--Lat 38°11'25", long 80°56'55", Nicholas County, on right bank 1,000 ft (305 m) upstream from mouth, and 2.5 mi (4.0 km) northwest of Mt. Lookout.

DRAINAGE AREA.--365 mi² (945 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft (366 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 765 ft³/s (21.66 m³/s), 28.46 in/yr (723 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,090 ft³/s (172 m³/s) Apr. 28, gage height, 9.09 ft (2.771 m); minimum, 31 ft³/s (0.88 m³/s) Sept. 29, gage height, 2.95 ft (0.899 m).
Period of record: Maximum discharge, 18,500 ft³/s (524 m³/s) Mar. 7, 1967, gage height, 13.44 ft (4.097 m); minimum 14 ft³/s (0.40 m³/s) Sept. 12, 13, 1966, gage height, 2.51 ft (0.765 m).

REMARKS.--Records good.

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	288	1,730	797	573	732	951	974	2,040	1,130	150	156	101
2	201	3,500	681	521	1,860	904	1,920	1,650	741	135	153	87
3	126	2,460	615	479	2,980	869	1,740	1,760	546	129	151	75
4	86	1,840	619	655	2,770	1,070	1,650	1,910	444	142	125	67
5	80	1,360	708	1,030	2,000	1,200	2,020	1,540	442	162	102	62
6	298	976	863	991	1,530	1,310	1,840	1,150	468	140	89	56
7	470	691	1,750	811	1,360	1,180	1,540	887	744	107	78	62
8	508	1,260	1,830	630	1,410	1,060	1,870	746	654	92	71	71
9	377	2,810	2,970	511	1,510	916	2,560	1,750	529	82	66	70
10	271	2,340	4,250	466	1,320	783	2,880	1,940	411	86	68	61
11	195	1,790	4,360	420	1,040	690	2,490	1,580	317	263	184	58
12	220	1,400	3,030	399	857	633	2,010	1,150	283	212	242	61
13	532	1,090	2,130	314	742	563	1,730	847	681	136	205	52
14	557	1,310	1,570	288	715	496	1,460	664	542	96	242	56
15	408	2,150	1,700	293	1,370	582	1,220	549	456	1,640	296	65
16	320	1,870	2,000	278	1,640	1,010	1,040	466	430	1,880	396	127
17	281	1,470	1,600	263	1,410	3,010	1,510	434	595	1,110	356	97
18	255	1,090	1,170	290	880	2,770	2,610	446	1,390	621	366	79
19	320	835	1,080	363	749	2,230	2,120	399	1,140	400	517	68
20	572	1,340	969	582	616	1,890	1,650	373	832	346	332	71
21	562	1,630	1,120	634	536	2,210	1,220	349	660	464	475	67
22	476	1,470	3,780	634	498	2,280	930	321	497	730	1,200	56
23	394	1,200	3,660	723	465	1,790	762	418	388	645	866	49
24	542	943	2,630	708	461	1,550	757	1,060	352	843	553	45
25	301	739	1,900	601	459	1,430	706	2,120	325	685	406	41
26	266	862	1,410	517	466	1,470	1,470	1,950	234	479	406	38
27	238	1,120	1,090	569	599	1,570	2,610	1,470	180	362	283	35
28	249	1,070	835	743	897	1,430	5,490	1,980	161	282	218	33
29	388	983	692	885	-----	1,200	4,000	3,070	161	238	176	33
30	518	883	615	819	-----	1,020	2,670	2,320	154	196	145	71
31	551	-----	591	687	-----	889	-----	1,660	-----	167	121	-----
TOTAL	10,632	44,212	53,015	17,675	31,872	40,956	57,449	38,979	15,887	13,020	9,044	1,914
MEAN	343	1,474	1,710	570	1,138	1,321	1,915	1,257	530	420	292	63.8
MAX	572	3,500	4,360	1,030	2,980	3,010	5,490	3,070	1,390	1,880	1,200	127
MIN	80	691	591	263	459	496	706	321	154	82	66	33
CFSM	.94	4.04	4.68	1.56	3.12	3.62	5.25	3.44	1.45	1.15	.80	.17
IN.	1.08	4.51	5.40	1.80	3.25	4.17	5.86	3.97	1.62	1.33	.92	.20

CAL YR 1972 TOTAL 403,638 MEAN 1,103 MAX 14,200 MIN 30 CFSM 3.02 IN 41.14
WTR YR 1973 TOTAL 334,655 MEAN 917 MAX 5,490 MIN 33 CFSM 2.51 IN 34.11

PEAK DISCHARGE (BASE, 5,000 CFS).--Apr. 28 (1000) 6,090 cfs (9.09 ft).

03192000 Gauley River above Belva, W. Va.

LOCATION.--Lat 38°14'00", long 81°10'45", Nicholas County, on right bank 0.5 mi (0.8 km) upstream from Belva, 1.0 mi (1.6 km) upstream from Twentymile Creek, and at mile 6.7 (10.8 km).

DRAINAGE AREA.--1,315 mi² (3,406 km²).

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 669.00 ft (203.911 m) above mean sea level, adjustment of 1912.

AVERAGE DISCHARGE.--45 years, 2,662 ft³/s (75.39 m³/s), 27.49 in/yr (698 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 24,000 ft³/s (680 m³/s) Apr. 28, gage height, 12.30 ft (3.749 m); minimum, 177 ft³/s (5.01 m³/s) Aug. 10, gage height, 1.29 ft (0.393 m).
Period of record: Maximum discharge, 105,000 ft³/s (2,970 m³/s) July 5, 1932, gage height, 28.60 ft (8.717 m), from rating curve extended above 65,000 ft³/s (1,840 m³/s) on basis of velocity-area studies and inflow and storage adjustment to record for Kanawha River at Kanawha Falls; minimum, 3.2 ft³/s (0.091 m³/s) Oct. 21, 1953, gage height, 0.10 ft (0.030 m).

REMARKS.--Records good. Flow regulated since 1965 by Summersville Lake (see sta 03189590).

REVISIONS (WATER YEARS).--WSP 783: Drainage area. WSP 873: 1938. WSP 1275: 1929-30.

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	4,590	9,270	3,190	2,310	4,970	3,050	1,090	6,210	3,230	661	572	237
2	2,980	19,900	2,560	2,220	6,660	3,020	1,910	5,970	2,690	489	551	216
3	2,000	17,700	2,330	1,680	13,300	3,000	1,970	6,340	2,150	341	534	202
4	1,350	14,700	2,050	2,000	7,840	5,350	3,110	7,630	1,230	302	520	249
5	1,430	6,720	3,100	3,250	5,990	6,230	2,280	6,780	1,840	883	496	341
6	4,680	5,610	2,860	3,740	4,190	5,470	2,200	4,530	4,410	721	482	615
7	7,530	3,700	7,970	2,330	5,050	5,020	1,910	3,510	2,960	474	474	949
8	2,220	3,140	5,680	2,560	4,490	3,500	2,500	2,410	1,830	449	463	892
9	2,040	13,800	13,100	2,180	5,660	3,340	3,610	6,560	1,640	318	454	904
10	2,550	10,300	7,710	1,590	5,180	3,180	4,540	8,040	1,510	232	243	1,050
11	2,400	8,890	6,510	1,310	3,920	2,820	3,650	6,200	1,580	320	245	1,460
12	2,090	7,030	5,600	924	2,980	2,020	2,770	5,440	723	613	341	701
13	3,450	4,740	13,300	889	2,200	1,300	2,300	3,950	936	592	1,210	840
14	4,170	5,070	12,500	1,220	2,180	1,210	2,120	3,000	2,020	362	744	1,620
15	3,040	8,370	12,600	1,270	4,390	1,420	4,300	2,790	1,640	1,340	1,060	1,590
16	2,410	9,180	13,100	1,190	6,000	2,770	6,480	1,930	779	3,270	1,140	1,610
17	2,880	6,580	12,000	864	4,530	8,110	6,200	1,730	1,430	2,270	1,110	689
18	2,770	5,140	11,100	855	3,120	9,140	14,200	1,360	4,090	1,710	808	858
19	2,410	3,780	10,400	1,130	2,890	7,420	8,170	1,310	6,110	847	954	1,080
20	2,680	4,630	6,810	2,160	3,150	4,930	6,500	1,700	3,050	738	836	1,200
21	3,100	6,700	4,350	2,760	2,300	3,170	4,700	1,660	1,910	812	677	1,650
22	4,120	5,570	14,200	3,490	2,020	3,500	3,540	1,620	1,720	1,210	4,150	2,000
23	3,520	4,470	17,600	3,870	1,390	4,350	2,570	1,690	1,570	1,640	3,400	2,630
24	2,360	3,180	9,720	1,110	1,740	3,880	2,590	2,760	1,470	1,840	2,450	988
25	2,960	2,920	6,050	1,020	1,820	3,010	2,620	6,660	761	2,610	1,560	943
26	5,020	3,020	4,760	924	1,990	2,860	5,020	6,270	637	1,940	1,220	936
27	3,360	3,760	3,860	1,010	1,410	4,260	11,900	4,780	563	759	783	933
28	2,760	4,240	3,790	1,220	2,940	3,110	20,800	6,910	346	500	561	926
29	3,130	4,020	1,990	1,900	-----	2,130	15,300	12,300	286	358	330	936
30	3,830	3,690	2,410	5,770	-----	1,900	8,870	6,920	897	940	292	1,590
31	3,850	-----	2,360	5,470	-----	1,240	-----	4,870	-----	1,220	263	-----
TOTAL	97,480	209,820	225,360	64,216	114,100	115,710	160,320	143,680	55,808	30,731	29,127	30,085
MEAN	3,145	6,994	7,270	2,071	4,075	3,733	5,344	4,635	1,860	993	940	1,003
MAX	7,530	19,900	17,600	5,770	13,300	9,140	20,800	12,300	6,110	3,270	4,150	2,030
MIN	1,350	2,920	1,990	855	1,390	1,210	1,090	1,310	286	232	243	202

CAL YR 1972 TOTAL 1,667,655 MEAN 4,556 MAX 26,700 MIN 115 MEAN† 4,556 CFSM† 3.46 IN† 46.97
WTR YR 1973 TOTAL 1,276,487 MEAN 3,497 MAX 20,800 MIN 202 MEAN† 3,501 CFSM† 2.66 IN† 36.11

† Adjusted for change in contents in Summersville Lake.

03193000 Kanawha River at Kanawha Falls, W. Va.

LOCATION.--Lat 38°08'20", long 81°12'45", Fayette County, on right bank 150 ft (46 m) downstream from toll bridge, 0.8 mi (1.3 km) downstream from village of Kanawha Falls, 2.0 mi (3.2 km) downstream from Gauley Bridge, 2.0 mi (3.2 km) downstream from confluence of New River and Gauley River, and at mile 94.5 (152.1 km).

DRAINAGE AREA.--8,367 mi² (21,671 km²).

PERIOD OF RECORD.--March 1877 to current year. October 1916 to September 1918 and October 1927 to October 1928, published as "at Lock 2, Montgomery."

GAGE.--Water-stage recorder. Datum of gage is 621.20 ft (189.342 m) above mean sea level. Prior to Oct. 27, 1928, nonrecording gages at several sites within 9.0 mi (14.5 km) of present site at various datums. Oct. 27, 1928, to Sept. 30, 1964, water-stage recorder at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--96 years, 12,460 ft³/s (352.9 m³/s), 20.22 in/yr (514 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 85,400 ft³/s (2,420 m³/s) Apr. 28, gage height, 15.65 ft (4.770 m); minimum, 1,990 ft³/s (56.4 m³/s) Sept. 3, 29, gage height, 2.24 ft (0.683 m); minimum daily, 2,160 ft³/s (61.2 m³/s) Sept. 3, 5.
Period of record: Maximum discharge, 320,000 ft³/s (9,060 m³/s) Sept. 14, 1878, gage height, 37.8 ft (11.52 m), site and datum then in use, from gage-height relation and rating curve extended above 150,000 ft³/s (4,250 m³/s), minimum, 640 ft³/s (18.1 m³/s) Aug. 15, 1930, gage height, -0.95 ft (-0.290 m), datum then in use; minimum daily, 690 ft³/s (19.5 m³/s) Oct. 29, 1921.

REMARKS.--Records excellent. Flow regulated since 1939 by Claytor Lake (see sta 03169000), since 1949 by Bluestone Lake (see sta 03179800), and since 1965 by Summersville Lake (see sta 03189590). Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 783: Drainage area. WSP 923: 1878, 1886, 1897, 1899, 1901-3. WSP 1305: 1902(M), 1940. WSP 1335: 1931.

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	19,300	20,000	16,400	10,100	19,400	14,200	17,600	38,700	46,000	7,290	5,140	3,380
2	14,700	36,600	14,200	10,800	26,100	13,300	19,300	29,600	35,000	6,660	4,770	2,420
3	9,590	38,400	12,500	8,420	65,300	13,500	25,100	25,900	19,100	6,070	5,850	2,160
4	6,760	28,900	8,820	11,200	62,400	16,500	26,100	26,500	13,200	6,240	7,430	2,440
5	7,060	17,500	10,400	14,300	50,300	19,400	23,900	24,900	12,200	6,660	6,130	2,160
6	22,800	13,600	12,900	16,200	37,300	20,100	26,700	20,700	16,200	5,670	5,770	2,380
7	32,300	9,890	21,600	15,200	28,500	27,700	21,900	16,500	16,800	5,870	5,460	3,920
8	19,200	10,900	26,000	12,100	25,200	20,600	25,100	13,500	16,300	6,240	5,630	4,330
9	11,900	37,200	37,200	10,600	29,400	20,100	38,700	19,600	15,200	4,830	6,420	4,350
10	11,100	30,400	39,200	11,100	30,200	18,800	36,100	24,800	12,900	3,510	5,330	3,640
11	9,000	25,000	37,700	10,300	21,500	16,900	33,400	23,700	12,100	5,810	5,480	3,530
12	7,670	19,900	36,600	8,010	14,300	14,100	28,000	20,300	8,710	5,710	7,230	3,240
13	8,360	15,100	67,700	7,120	16,800	13,400	21,800	16,300	10,700	5,910	6,670	3,180
14	9,000	13,000	55,900	7,710	15,700	12,900	19,800	14,200	9,800	5,160	4,780	3,680
15	7,750	35,500	43,100	6,370	18,900	12,300	20,300	12,300	8,390	6,560	6,770	5,190
16	5,940	36,000	39,000	6,220	21,200	17,000	21,900	12,900	8,320	8,840	6,050	6,000
17	5,940	24,300	41,200	6,820	19,800	52,300	19,700	9,990	10,000	7,960	6,820	3,960
18	6,530	20,100	33,000	6,990	16,100	68,600	30,800	9,640	13,200	10,800	7,210	5,040
19	6,570	15,000	27,600	7,440	12,700	64,400	26,800	9,230	16,600	6,930	8,150	4,990
20	7,630	16,000	23,700	8,800	11,200	58,000	24,400	9,110	15,200	6,620	5,610	4,590
21	8,280	32,900	18,900	11,600	12,200	48,300	19,900	9,530	11,100	6,130	4,620	4,220
22	9,690	27,500	42,800	11,000	12,200	42,500	16,500	5,920	10,100	6,710	9,220	4,480
23	7,330	22,300	69,300	10,600	10,000	33,300	14,500	10,300	11,500	6,410	9,500	4,530
24	5,710	17,000	48,200	8,520	10,500	28,300	12,600	14,200	12,300	5,540	8,300	3,450
25	7,040	13,400	30,600	6,440	9,810	23,100	11,300	22,000	8,140	7,280	6,530	3,040
26	9,130	14,900	24,400	7,790	8,890	22,000	17,100	26,400	7,560	8,700	5,440	3,000
27	7,690	19,500	19,000	10,300	8,600	28,000	38,700	20,800	7,440	7,360	4,440	3,870
28	7,460	21,600	19,000	13,000	13,300	25,800	77,100	26,600	6,950	6,830	3,420	3,680
29	8,470	21,900	14,800	16,300	-----	22,700	73,200	57,400	6,480	6,190	4,830	3,260
30	9,550	17,700	14,600	25,200	-----	18,800	53,700	66,100	7,610	4,600	4,650	4,300
31	10,200	-----	14,000	22,500	-----	16,700	-----	56,900	-----	4,540	4,300	-----
TOTAL	319,650	671,990	920,320	339,050	628,300	823,600	842,000	694,520	405,100	199,630	187,950	112,410
MEAN	10,310	22,400	29,690	10,940	22,440	26,570	28,070	22,400	13,500	6,440	6,063	3,747
MAX	32,300	38,400	69,300	25,200	65,300	68,600	77,100	66,100	46,000	10,800	9,500	6,000
MIN	5,710	9,890	8,820	6,220	8,600	12,300	11,300	5,920	6,480	3,510	3,420	2,160
CAL YR 1972	TOTAL 6,938,730		MEAN 18,960		MAX 102,000		MIN 2,460		CFSM 2.27		IN 30.84	
WTR YR 1973	TOTAL 6,144,520		MEAN 16,830		MAX 77,100		MIN 2,160		CFSM 2.01		IN 27.31	

03193830 Gilmer Run near Marlinton, W. Va.

LOCATION.--Lat 38°19'12", long 80°05'52", Pocahontas County, on left bank 8.0 ft (2.4 m) upstream from culvert on Forest Service Road 251, and 6.8 mi (10.9 km) north of Marlinton.

DRAINAGE AREA.--1.80 mi² (4.66 km²).

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

GAGE.--Water-stage and rainfall recorders and concrete dam and culvert control. Altitude of gage is 3,120 ft (951 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 4.16 ft³/s (0.118 m³/s), 31.38 in/yr (797 mm/yr).

EXTREMES.--Current year: Maximum discharge, 155 ft³/s (4.39 m³/s) Feb. 2, gage height, 6.41 ft (1.954 m), from rating curve extended as explained below; minimum daily, 0.02 ft³/s (0.001 m³/s) July 14, Aug. 28 to Sept. 2, Sept. 8-13, 27, 28.

Period of record: Maximum discharge, 169 ft³/s (4.79 m³/s) Dec. 7, 1971, gage height, 6.53 ft (1.990 m), from rating curve extended above 120 ft³/s (3.40 m³/s) on basis of culvert rating computation; minimum daily, 0.01 ft³/s (<0.001 m³/s) July 12, Sept. 30, Oct. 1, 1968, July 4, 1969, Aug. 8, 1970, Sept. 21-26, 1972.

REMARKS.--Records good. Rainfall records collected at site since June 1968 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

REVISIONS (WATER YEARS).--WRD W. Va. 1972: 1969-71(P).

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	.47	38	2.5	1.1	4.2	5.8	33	3.3	2.3	1.3	.42	.02
2	.16	18	2.2	.87	62	9.6	18	2.4	1.6	.96	.89	.02
3	.08	6.8	3.2	1.0	18	48	8.8	3.3	1.2	.42	.47	.03
4	.04	3.8	9.3	13	6.5	31	22	2.9	1.7	.61	.28	.16
5	38	2.3	9.0	6.4	4.3	35	14	2.3	2.9	.74	.16	.04
6	14	1.6	40	3.3	3.3	19	7.1	1.7	2.4	.28	.13	.03
7	6.8	1.7	13	1.9	6.2	12	7.1	1.3	2.3	.16	.10	.03
8	2.7	33	23	1.5	9.6	10	28	12	1.4	.10	.08	.02
9	1.3	12	38	1.3	6.0	6.5	14	18	1.3	.08	.06	.02
10	.74	5.8	32	1.1	4.0	4.3	16	6.5	.89	.06	.16	.02
11	.52	3.8	12	1.0	3.0	3.8	7.4	5.5	.66	.13	.19	.02
12	1.0	2.7	7.7	.90	2.0	3.8	5.0	3.6	.61	.06	.10	.02
13	1.9	2.1	6.3	.80	1.6	2.6	3.8	2.3	.96	.03	.28	.02
14	1.1	24	4.4	1.5	1.3	2.1	8.1	1.7	.61	.02	.28	4.5
15	.74	12	8.4	1.8	2.0	2.9	15	1.6	.38	1.3	.24	.81
16	.66	5.5	7.2	.66	2.5	14	11	1.1	1.3	.28	.08	.28
17	.52	3.4	5.7	.59	2.0	31	21	1.3	2.4	.13	.06	.13
18	.42	2.3	3.0	.71	1.5	11	13	1.0	10	.08	.16	.33
19	4.3	9.3	2.4	5.9	2.0	6.5	7.1	.81	2.6	.06	.06	.16
20	2.7	29	7.0	6.2	1.4	5.2	4.3	1.0	1.3	.06	.06	.08
21	1.6	9.0	22	3.4	.81	4.7	2.9	.96	.96	.06	.33	.06
22	1.2	4.9	36	17	.81	3.8	2.3	.74	.89	.16	.24	.06
23	.96	3.1	9.7	6.1	.74	4.0	1.9	2.1	.61	1.6	.08	.04
24	.89	2.2	5.2	3.0	.81	6.8	1.6	10	.42	1.1	.06	.04
25	.79	3.9	3.4	2.0	1.1	9.2	9.2	12	.33	.52	.04	.03
26	.59	18	2.6	1.6	2.4	15	14	6.2	.24	1.3	.03	.03
27	.47	6.8	2.0	17	3.3	13	33	10	.19	2.0	.03	.02
28	7.4	5.3	1.6	8.7	3.3	5.5	21	57	.42	.61	.02	.02
29	4.8	4.4	1.2	5.4	-----	3.6	9.2	15	.24	.96	.02	.42
30	2.8	3.3	1.2	4.8	-----	3.6	5.0	6.2	.10	.42	.02	1.3
31	2.0	-----	1.2	3.7	-----	3.1	-----	3.6	-----	.24	.02	-----
TOTAL	101.65	278.0	322.4	124.23	156.67	336.4	363.8	197.41	43.21	15.83	5.15	8.76
MFAN	3.28	9.27	10.4	4.01	5.60	10.9	12.1	6.37	1.44	.51	.17	.29
MAX	38	38	40	17	62	48	33	57	10	2.0	.89	4.5
MIN	.04	1.6	1.2	.59	.74	2.1	1.6	.74	.10	.02	.02	.02
CFSM	1.82	5.15	5.78	2.23	3.11	6.06	6.72	3.54	.80	.28	.09	.16
IN.†	2.10	5.75	6.66	2.57	3.24	6.95	7.52	4.08	.89	.33	.11	.18
IN.‡	4.30	6.47	6.18	2.43	4.29	4.61	-	-	3.76	4.16	2.21	3.70
CAL YR 1972	TOTAL 2,114.91	MEAN 5.78	MAX 68	MIN .01	CFSM 3.21	IN† 43.71						
WTR YR 1973	TOTAL 1,953.51	MEAN 5.35	MAX 62	MIN .02	CFSM 2.97	IN† 40.37						

PEAK DISCHARGE (BASE, 80 CFS)

† Runoff.

‡ Rainfall.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	1715	5.94	128	3- 3	1330	5.53	93
11- 1	1300	5.52	98	4- 1	0700	5.52	92
2- 2	0300	6.41	155	5-28	0330	5.85	116

03194700 Elk River below Webster Springs, W. Va.

LOCATION.--Lat 38°35'50", long 80°29'20", Webster County, on right bank 10 ft (3 m) upstream from swinging footbridge, 6.5 mi (10.5 km) upstream from town of Centralia, 8.9 mi (14.3 km) southwest of Salisbury Station, 8.9 mi (14.3 km) northwest of Webster Springs, and at mile 122.7 (197.4 km).

DRAINAGE AREA.--268 mi² (694 km²).

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,020 ft (311 m), by barometer.

AVERAGE DISCHARGE.--14 years, 691 ft³/s (19.57 m³/s) 35.01 in/yr (889 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,900 ft³/s (365 m³/s) Nov. 1, gage height, 10.88 ft (3.316 m), from rating curve extended above 11,000 ft³/s (312 m³/s); minimum, 35 ft³/s (0.99 m³/s) Sept. 29, gage height 3.41 ft (1.039 m).

Period of record: Maximum discharge, 21,400 ft³/s (606 m³/s) Mar. 7, 1967, gage height, 13.35 ft (4.069 m), from rating curve extended above 11,000 ft³/s (312 m³/s); minimum, 6.5 ft³/s (0.18 m³/s) Oct. 1, 1959; minimum gage height, 3.01 ft (0.917 m) Oct. 1, 1959, Aug. 18, 1965.

Flood in 1861, probably in September, reached a stage of 26.34 ft (8.028 m) and flood of July 26, 1896, reached a stage of 25.87 ft (7.885 m), present datum, at site 0.2 mi (0.3 km) upstream, from levels to floodmarks pointed out by a local resident.

REMARKS.--Records good. Records of instantaneous suspended-sediment discharge for the current year are published in Part 2 of this report.

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	936	3,900	772	492	573	882	837	1,300	688	210	198	129
2	564	6,240	640	456	2,100	900	1,670	963	522	396	179	110
3	355	2,290	591	420	2,420	1,100	1,370	1,130	420	310	154	100
4	258	1,400	738	656	1,570	2,130	1,260	1,460	350	335	132	107
5	305	954	1,280	927	1,140	1,780	1,880	1,100	420	375	107	148
6	4,250	708	1,700	774	962	1,720	1,610	837	468	274	90	512
7	2,480	564	2,650	605	1,110	1,220	1,370	648	584	190	79	440
8	1,910	1,580	2,300	498	1,340	1,010	1,900	552	444	154	75	260
9	1,160	3,820	8,580	462	1,590	837	2,050	1,590	345	125	63	182
10	720	2,220	7,310	370	1,170	664	1,910	1,530	286	106	58	154
11	522	1,510	4,340	340	855	558	1,490	1,510	234	101	132	141
12	510	1,130	2,230	320	648	510	1,220	1,300	200	98	260	113
13	1,220	882	1,500	270	564	450	1,100	981	246	92	305	95
14	972	1,120	1,080	250	522	390	945	738	300	80	452	116
15	712	2,330	1,630	280	810	402	1,290	591	246	82	666	533
16	546	1,690	2,380	274	1,030	552	1,870	486	206	95	526	498
17	474	1,190	1,610	279	801	1,170	3,700	438	474	124	380	305
18	390	882	1,150	246	648	1,520	3,670	456	468	127	295	218
19	456	712	909	303	612	1,200	2,090	390	468	90	310	198
20	605	1,770	1,180	836	510	1,110	1,410	370	370	76	242	179
21	552	1,780	1,810	728	450	1,290	1,010	765	498	83	597	148
22	498	1,320	4,260	619	418	1,360	765	729	438	365	1,080	129
23	456	990	2,750	989	375	1,050	619	640	360	375	714	116
24	414	756	1,730	723	345	981	774	855	274	1,260	458	157
25	380	633	1,190	553	320	1,220	756	2,090	222	547	337	116
26	340	882	927	467	370	1,480	1,370	1,830	182	422	270	63
27	310	1,120	792	489	656	2,130	1,960	1,220	157	392	206	49
28	305	981	619	874	900	1,580	4,280	1,910	175	275	160	41
29	468	954	528	867	-----	1,160	2,740	2,130	186	392	132	43
30	672	864	480	715	-----	909	1,820	1,330	145	290	167	650
31	612	-----	498	598	-----	704	-----	954	-----	226	160	-----
TOTAL	24,352	47,172	60,154	16,680	24,809	33,969	50,736	32,823	10,376	8,067	8,984	6,050
MEAN	786	1,572	1,940	538	886	1,096	1,691	1,059	346	260	290	202
MAX	4,250	6,240	8,580	989	2,420	2,130	4,280	2,130	688	1,260	1,080	650
MIN	258	564	480	246	320	390	619	370	145	76	58	41
CFSM	2.93	5.87	7.24	2.01	3.31	4.09	6.31	3.95	1.29	.97	1.08	.75
IN.	3.38	6.55	8.35	2.32	3.44	4.72	7.04	4.56	1.44	1.12	1.25	.84

CAL YR 1972 TOTAL 433,207 MEAN 1,184 MAX 12,500 MIN 49 CFSM 4.42 IN 60.13
WTR YR 1973 TOTAL 324,172 MEAN 888 MAX 8,580 MIN 41 CFSM 3.31 IN 45.00

PEAK DISCHARGE (BASE, 8,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 1	2200	10.88	12,900	12- 9	0600	10.21	10,900

03195400 Sutton Lake at Sutton, W. Va.

LOCATION.--Lat 38°39'40", long 80°41'40", Braxton County, at Sutton Dam on Elk River, 1.0 mi (1.6 km) upstream from Sutton, and at mile 101.1 (162.7 km).

DRAINAGE AREA.--537 sq mi (1,391 km²).

PERIOD OF RECORD.--October 1960 to current year (monthend contents only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level.

EXTREMES.--Current year: Maximum contents, 85,000 acre-ft (105 hm³) Apr. 29, elevation, 937.32 ft (285.695 m); minimum, 4,090 acre-ft (5.04 hm³) Mar. 8, elevation, 850.14 ft (259.123 m).

Period of record: Maximum contents, 111,300 acre-ft (137 hm³) May 8, 1961, elevation, 950.16 ft (289.609 m); minimum since initial filling, 734 acre-ft (0.905 hm³) Apr. 1, 1961, elevation, 832.33 ft (253.694 m).

REMARKS.--Reservoir is formed by concrete gravity-type dam completed in 1961; closure of dam was made in April 1959 and storage above minimum-pool elevation began Feb. 26, 1961. Spillway equipped with 6 taintor gates 40 ft (12.2 m) long by 31 ft (9.4 m) high and 5 sluice gates 5.67 ft (1.728 m) wide by 10 ft (3.0 m) high. Total level-pool capacity at elevation 1,000 ft (304.8 m), flood-control pool elevation, is 265,300 acre-ft (327 hm³) of which 261,200 acre-ft (322 hm³) is controlled storage above elevation 850 ft (259.1 m), minimum-pool elevation. Reservoir is used for flood control.

COOPERATION.--Records furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)	Change in Contents (equivalent in cfs)
Sept. 30.....	914.67	49,810	-	-
Oct. 31.....	891.10	25,850	-23,960	-390
Nov. 30.....	852.84	4,870	-20,980	-353
Dec. 31.....	850.63	4,230	-640	-11
CAL YR 1972	-	-	-20	0
Jan. 31.....	850.98	4,320	+90	+1
Feb. 28.....	851.84	4,570	+250	+5
Mar. 31.....	887.50	23,040	+18,470	+300
Apr. 30.....	932.01	75,450	+52,410	+881
May 31.....	925.33	64,640	-10,810	-176
June 30.....	925.08	64,260	-380	-6
July 31.....	925.15	64,370	+110	+2
Aug. 31.....	925.14	64,350	-20	0
Sept. 30.....	914.73	49,890	-14,460	-243
WTR YR 1973	-	-	+80	0

03195500 Elk River at Sutton, W. Va.

LOCATION.--Lat 38°39'45", long 80°42'35", Braxton County, on left bank 150 ft (46 m) upstream from highway bridge at Sutton, 0.5 mi (0.8 km) upstream from Granny Creek, 0.9 mi (1.4 km) downstream from Sutton Dam, 2.5 mi (4.0 km) downstream from Wolf Creek, and at mile 100.1 (161.1 km).

DRAINAGE AREA.--543 mi² (1,406 km²).

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only October 1938 to February 1939, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft (243.840 m) above mean sea level. Prior to Apr. 5, 1940, nonrecording gage and Apr. 5, 1940, to Sept. 30, 1960, water-stage recorder at site 150 ft (46 m) downstream at datum 8.03 ft (2.448 m) higher.

AVERAGE DISCHARGE.--35 years, 1,114 ft³/s (31.55 m³/s), 27.86 in/yr (708 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 9,450 ft³/s (268 m³/s) Dec. 15, gage height, 21.45 ft (6.538 m); minimum, 73 ft³/s (2.07 m³/s) Aug. 9, gage height, 10.67 ft (3.252 m).

Period of record: Maximum discharge, 34,200 ft³/s (969 m³/s) Jan. 29, 1957, gage height, 39.30 ft (11.979 m), present datum; minimum, 0.4 ft³/s (0.011 m³/s) Oct. 25, 26, 28, 29, 1953; minimum gage height, 9.87 ft (3.008 m) Oct. 25, 1953, present datum.

Flood of Mar. 13, 1918, reached a stage of 45.2 ft (13.78 m), present datum, from floodmarks, discharge, about 49,000 ft³/s (1,390 m³/s), from rating curve extended above 28,000 ft³/s (793 m³/s).

REMARKS.--Records good. Flow regulated since 1960 by Sutton Lake (see sta 03195400). Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1305: 1942(M), 1948-50(M).

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	1,760	2,270	1,630	902	1,300	1,450	124	6,400	1,210	184	276	118
2	1,300	4,890	1,340	845	1,780	1,440	297	3,370	895	1,110	576	110
3	925	7,380	1,150	759	3,750	1,470	817	1,300	689	188	259	110
4	848	5,960	1,380	1,040	3,690	2,200	969	2,690	551	1,080	136	115
5	708	4,570	2,070	1,330	2,790	2,220	2,320	2,290	881	1,510	139	110
6	2,460	3,120	2,660	1,370	2,200	2,070	1,990	1,510	1,280	946	143	195
7	4,090	2,140	5,000	1,150	1,910	1,790	1,210	1,120	1,210	293	146	411
8	3,720	2,430	3,910	859	2,330	1,420	1,630	1,120	723	231	115	532
9	855	5,530	2,480	635	2,780	1,220	2,600	3,020	583	231	104	146
10	1,460	5,450	198	602	2,540	1,020	2,810	3,410	576	227	146	243
11	1,440	4,050	514	545	1,780	881	2,140	2,410	427	178	161	340
12	1,550	2,370	4,490	384	1,290	774	1,290	2,140	520	97	311	344
13	2,260	1,820	8,570	335	1,040	766	917	1,660	2,930	94	866	344
14	1,620	1,950	9,360	335	1,050	621	817	1,220	1,170	97	954	427
15	1,270	3,710	8,410	444	1,550	526	969	924	570	99	1,540	484
16	1,300	3,860	8,580	502	2,010	648	1,910	759	484	97	1,210	570
17	1,130	2,760	9,250	496	1,830	1,200	3,960	668	738	97	810	621
18	758	1,970	6,710	490	1,400	2,390	6,380	675	1,060	97	702	628
19	1,080	1,420	3,100	496	1,370	2,550	5,180	675	774	97	602	621
20	1,130	2,690	2,260	1,110	1,230	1,750	2,430	675	551	181	539	615
21	1,040	3,710	2,670	1,620	936	991	1,700	924	675	136	1,890	615
22	1,040	3,550	4,520	1,650	747	1,460	1,370	1,110	668	635	2,890	608
23	1,090	2,470	7,040	1,240	522	1,380	1,250	1,150	311	1,040	1,440	655
24	1,250	1,520	5,320	384	635	1,380	1,850	1,310	354	1,890	946	675
25	1,270	1,280	3,230	1,890	635	1,580	2,290	2,860	354	628	570	668
26	995	1,740	1,940	1,220	740	1,990	1,520	2,790	354	557	450	668
27	694	2,100	1,510	1,050	1,140	2,550	3,400	1,660	263	895	311	661
28	675	2,070	1,160	1,570	1,580	1,940	6,170	2,870	195	682	198	576
29	964	2,010	991	1,750	-----	1,230	6,860	3,180	195	473	198	456
30	1,180	1,860	902	1,700	-----	689	6,900	1,840	195	838	198	615
31	1,170	-----	902	1,400	-----	400	-----	1,570	-----	107	181	-----
TOTAL	43,032	92,650	113,247	30,103	46,555	43,996	74,070	59,300	21,386	15,015	19,007	13,281
MEAN	1,388	3,088	3,653	971	1,663	1,419	2,469	1,913	713	484	613	443
MAX	4,090	7,380	9,360	1,890	3,750	2,550	6,900	6,400	2,930	1,890	2,890	675
MIN	675	1,280	198	335	522	400	124	668	195	94	104	110

CAL YR 1972 TOTAL 737,488 MEAN 2,015 MAX 11,100 MIN 102 MEAN† 2,015 CFSM† 3.71 IN† 50.50
WTR YR 1973 TOTAL 571,642 MEAN 1,566 MAX 9,360 MIN 94 MEAN† 1,566 CFSM† 2.88 IN† 39.09

† Adjusted for change in contents in Sutton Lake.

03195600 Granny Creek at Sutton, W. Va.

LOCATION.--Lat 38°40'28", long 80°42'57", Braxton County, on right bank 10 ft (3 m) upstream from culvert on U.S. Highway 19, 0.7 mi (1.1 km) upstream from mouth, and 1.0 mi (1.6 km) northwest of Sutton.

DRAINAGE AREA.--6.98 mi² (18.08 km²).

PERIOD OF RECORD.--June 1965 to May 1967 (annual maximum only), June 1967 to current year.

GAGE.--Water-stage and rainfall recorders and concrete dam and culvert control. Altitude of gage is 840 ft (256 m), from topographic map. Prior to June 23, 1967, SR recorder at same site and datum.

AVERAGE DISCHARGE.--6 years, 9.80 ft³/s, 19.07 in/yr (484 mm/yr).

EXTREMES.--Current year: Maximum discharge, 706 ft³/s (20.0 m³/s) Apr. 27, gage height, 8.67 ft (2.643 m), from rating curve extended as explained below; minimum, 0.19 ft³/s (0.005 m³/s) July 13, 14, gage height, 2.73 ft (0.832 m).

Period of record: Maximum discharge, 1,040 ft³/s (29.5 m³/s) Apr. 30, 1966, gage height, 11.85 ft (3.612 m), from rating curve extended above 320 ft³/s (9.06 m³/s) on basis of culvert rating computation; minimum, 0.02 ft³/s (0.001 m³/s) Oct. 1, 2, 1968, gage height, 2.64 ft (0.805 m).

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Rainfall records collected at site since June 1967 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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	3.2	85	13	4.7	10	11	10	23	4.7	.52	2.3	.88
2	1.9	28	14	4.2	21	11	11	17	3.5	.44	2.0	.76
3	1.5	17	12	5.7	26	11	11	36	2.7	1.2	1.3	.58
4	1.3	11	28	11	22	12	28	25	9.4	7.7	.97	11
5	2.4	8.3	22	7.7	15	11	35	16	9.4	2.9	.81	5.7
6	3.0	6.4	44	6.0	12	10	29	11	4.2	1.1	.65	2.7
7	2.9	6.7	23	4.2	16	8.5	28	8.3	2.9	.70	.50	2.0
8	2.1	44	81	4.0	19	9.0	65	8.7	2.1	.60	.42	1.3
9	1.8	25	86	3.7	22	8.3	52	61	2.9	.44	.35	1.4
10	1.5	13	76	3.7	13	7.7	74	17	1.8	.44	22	1.8
11	1.5	11	22	3.5	9.0	7.7	40	9.8	1.4	.44	6.3	1.1
12	11	9.0	15	3.0	7.0	7.4	44	7.0	7.7	.31	8.1	.96
13	7.7	7.4	11	2.5	6.0	7.4	40	5.2	11	.22	22	.82
14	4.7	25	9.0	2.0	7.5	7.4	30	4.2	5.5	11	18	43
15	3.0	23	30	2.4	20	7.7	24	3.5	2.9	40	32	14
16	2.6	12	23	2.5	16	8.0	21	2.9	2.9	5.5	18	5.5
17	2.4	8.7	13	2.2	14	33	28	4.7	12	2.6	23	3.3
18	2.1	6.0	9.8	2.3	13	28	30	4.0	23	1.5	11	28
19	14	30	8.3	3.0	12	31	25	2.7	5.7	1.0	6.0	9.1
20	8.0	29	14	8.5	11	28	22	2.9	3.5	.90	13	5.0
21	5.5	14	28	7.5	9.5	28	20	2.7	2.4	5.2	45	3.4
22	4.0	11	79	6.5	8.5	23	20	2.2	1.9	6.4	16	2.6
23	4.7	8.3	18	5.0	7.5	22	37	2.9	1.5	10	7.4	2.7
24	4.5	7.0	11	4.0	6.5	19	43	8.3	1.3	6.7	4.5	2.4
25	3.7	7.4	8.7	3.5	5.5	15	78	25	1.1	3.0	3.2	1.7
26	3.5	18	8.3	3.1	5.0	14	50	11	.90	6.7	2.4	1.4
27	2.9	14	9.0	10	7.0	12	217	6.4	.80	2.9	1.8	1.2
28	6.7	15	8.3	17	10	11	117	32	1.6	2.1	1.5	1.1
29	7.0	16	6.7	15	-----	11	43	17	1.0	2.6	1.3	2.9
30	7.0	13	6.4	13	-----	11	29	9.4	.70	1.4	1.2	3.7
31	5.7	-----	5.5	11	-----	11	-----	7.0	-----	1.2	.91	-----
TOTAL	133.8	529.2	743.0	182.4	351.0	442.1	1,301	393.8	132.40	127.71	273.91	162.00
MEAN	4.32	17.6	24.0	5.88	12.5	14.3	43.4	12.7	4.41	4.12	8.84	5.40
MAX	14	85	86	17	26	33	217	61	23	40	45	43
MIN	1.3	6.0	5.5	2.0	5.0	7.4	10	2.2	.70	.22	.35	.58
CFSM	.62	2.52	3.44	.84	1.79	2.05	6.22	1.82	.63	.59	1.27	.77
IN.†	.71	2.82	3.96	.97	1.87	2.36	6.93	2.10	.71	.68	1.46	.86
IN.††	3.04	5.68	6.35	-	-	-	8.83	4.55	3.38	7.05	-	5.02
CAL YR 1972	TOTAL 5,514.80	MEAN 15.1	MAX 244	MIN .19	CFSM 2.16	IN† 29.39						
WTR YR 1973	TOTAL 4,772.32	MEAN 13.1	MAX 217	MIN .22	CFSM 1.88	IN† 25.43						

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 1	1100	5.43	220	12-10	0930	5.74	266
12- 8	1445	5.42	218	4-27	0615	8.67	706

† Runoff.

†† Rainfall.

NOTE.--No gage-height record

Jan. 15 to Feb. 2, Feb. 5 to Mar. 7.

03196600 Elk River near Frametown, W. Va.

LOCATION.--Lat 38°35'34", long 80°53'06", Braxton County, on right bank opposite mouth of Birch River, at village of Glendon, 2.2 mi (3.5 km) upstream from Strange Creek, 3.2 mi (5.1 km) southwest of Frametown, and at mile 80.7 (129.8 km). Records include flow of Birch River.

DRAINAGE AREA.--752 mi² (1,948 km²), includes that of Birch River.

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 775.51 ft (236.375 m) above mean sea level. Prior to Mar. 25, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--15 years, 1,528 ft³/s (43.27 m³/s), 27.59 in/yr (701 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 12,400 ft³/s (351 m³/s) Nov. 1, gage height, 11.10 ft (3.383 m); minimum, 92 ft³/s (2.61 m³/s) Aug. 10, gage height, 1.85 ft (0.564 m).
Period of record: Maximum discharge, 21,600 ft³/s (612 m³/s) Mar. 15, 1967, gage height, 16.05 ft (4.892 m); minimum, 9.0 ft³/s (0.25 m³/s) Sept. 28, 29, 1959, gage height, 1.44 ft (0.439 m).

REMARKS.--Records good. Flow regulated since 1960 by Sutton Lake (see sta 03195400).

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	2,330	5,330	2,270	1,160	1,760	1,890	497	7,780	1,690	240	377	189
2	1,790	7,940	1,950	1,100	2,150	1,780	434	5,030	1,170	827	739	145
3	1,150	9,090	1,600	961	4,690	1,790	1,010	2,230	845	673	567	133
4	991	7,350	2,010	1,300	5,150	2,350	1,220	3,530	739	1,480	232	130
5	921	5,500	3,000	1,600	3,820	2,860	2,870	3,290	1,110	1,820	196	161
6	1,950	3,830	4,090	1,790	3,130	2,450	3,160	2,200	1,520	1,350	181	161
7	4,490	2,770	6,550	1,510	2,790	2,320	2,070	1,440	1,470	618	175	339
8	4,700	3,260	6,550	1,190	3,370	1,790	3,280	1,400	1,000	309	168	641
9	1,200	7,270	9,320	864	4,150	1,470	4,640	5,620	689	290	122	299
10	1,650	7,300	5,640	782	3,660	1,230	5,980	5,390	657	285	151	164
11	1,660	5,490	2,500	722	2,630	1,070	4,040	3,600	552	262	304	344
12	1,750	3,290	4,390	611	1,830	961	2,680	2,860	452	189	271	355
13	2,660	2,380	9,410	452	1,390	921	2,230	2,690	4,840	133	1,030	355
14	2,200	2,290	10,400	465	1,650	800	1,660	1,650	2,040	122	1,300	574
15	1,500	4,210	10,400	531	3,170	697	1,500	1,210	961	344	2,020	626
16	1,520	5,120	10,200	641	3,260	836	2,210	1,000	673	232	1,910	574
17	1,400	3,700	10,800	618	2,770	2,150	4,270	845	827	161	1,020	641
18	1,000	2,550	8,810	611	2,040	3,720	8,430	845	1,460	139	892	730
19	1,210	2,110	4,110	722	1,830	3,750	7,210	791	1,160	130	714	673
20	1,650	3,560	3,040	1,210	1,690	3,070	3,310	773	809	171	697	634
21	1,400	4,950	3,410	1,970	1,320	1,860	2,610	873	756	216	1,540	618
22	1,340	4,520	8,960	2,080	1,130	2,440	1,690	1,190	951	497	4,430	611
23	1,300	3,630	9,570	1,890	883	2,260	1,700	1,210	416	1,070	2,150	626
24	1,480	2,090	7,180	504	809	2,330	3,000	1,440	422	2,450	1,320	673
25	1,510	1,620	4,510	1,940	855	2,440	3,490	2,980	416	1,000	845	665
26	1,330	2,230	2,770	1,730	873	3,250	3,400	3,740	405	697	552	657
27	892	2,880	2,180	1,600	1,210	3,970	8,000	2,300	382	782	497	657
28	818	2,840	1,590	2,150	1,850	2,960	11,200	2,790	267	1,030	285	618
29	1,040	2,820	1,370	2,530	-----	1,940	9,280	4,930	249	1,010	258	524
30	1,440	2,630	1,190	2,440	-----	1,160	8,330	2,740	240	1,280	249	697
31	1,460	-----	1,170	2,040	-----	836	-----	2,070	-----	446	240	-----
TOTAL	51,732	124,550	160,940	39,714	65,860	63,351	115,401	80,437	29,168	20,253	25,432	14,214
MEAN	1,669	4,152	5,192	1,281	2,352	2,044	3,847	2,595	972	653	820	474
MAX	4,700	9,090	10,800	2,530	5,150	3,970	11,200	7,780	4,840	2,450	4,430	730
MIN	818	1,620	1,170	452	809	697	434	773	240	122	122	130

CAL YR 1972 TOTAL 1,015,596 MEAN 2,775 MAX 12,600 MIN 122 MEAN† 2,775 CFSM† 3.69 IN† 50.23
WTR YR 1973 TOTAL 791,052 MEAN 2,167 MAX 11,200 MIN 122 MEAN† 2,167 CFSM† 2.88 IN† 39.09

† Adjusted for change in contents in Sutton Lake.

03196800 Elk River at Clay, W. Va.

LOCATION.--Lat 38°27'36", long 81°05'15", Clay County, on right bank at downstream side of pier of highway bridge at Clay, 0.9 mi (1.4 km) downstream from Buffalo Creek, 2.1 mi (3.4 km) downstream from Lower Two Run Creek, and at mile 52.5 (84.5 km).

DRAINAGE AREA.--994 mi² (2,574 km²).

PERIOD OF RECORD.--October 1958 to current year. Gage-height records collected at same site since 1915 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 677.46 ft (206.490 m) above mean sea level. Prior to Mar. 27, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--15 years, 1,895 ft³/s (53.67 m³/s), 25.89 in/yr (658 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 17,500 ft³/s (496 m³/s) Dec. 9, gage height, 13.55 ft (4.130 m); minimum, 126 ft³/s (3.57 m³/s) Sept. 5, gage height, 0.75 ft (0.229 m).

Period of record: Maximum discharge, 48,000 ft³/s (1,360 m³/s) Mar. 15, 1967, gage height, 22.80 ft (6.949 m); minimum, 1.5 ft³/s (0.042 m³/s) Sept. 22, 1959, gage height, -0.13 ft (-0.040 m).

Flood of Mar. 14, 1918, reached a stage of 32.4 ft (9.88 m), from reports of National Weather Service.

REMARKS.--Records good. Flow regulated since 1960 by Sutton Lake (see sta 03195400).

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	2,490	7,540	3,200	1,130	2,320	2,550	977	9,250	3,060	345	541	275
2	2,260	10,800	2,830	1,060	2,630	2,300	710	7,460	2,180	493	1,330	205
3	1,320	9,570	2,240	970	4,150	2,370	851	4,050	1,660	1,300	904	160
4	1,070	8,120	2,580	1,260	5,540	2,610	1,380	4,840	1,110	1,110	507	138
5	1,000	6,250	4,260	1,640	4,500	3,720	2,640	4,980	1,230	1,950	309	132
6	849	4,670	5,620	1,870	3,790	3,120	3,930	3,710	1,740	1,900	268	177
7	4,210	3,460	7,670	1,610	3,480	3,110	2,900	2,700	1,810	1,010	247	212
8	4,800	4,100	8,490	1,310	2,900	2,540	4,610	2,370	1,510	454	225	460
9	2,480	7,620	15,600	991	4,140	2,190	6,480	8,710	944	341	204	575
10	1,300	8,260	11,800	788	3,530	1,740	8,760	7,810	777	327	186	275
11	1,650	6,440	6,740	693	2,610	1,520	6,200	5,550	723	334	327	254
12	1,720	4,360	4,430	682	2,160	1,430	4,120	4,240	623	302	356	384
13	2,420	3,080	9,520	600	1,950	1,350	3,720	4,260	4,210	211	1,130	380
14	2,640	2,720	10,800	575	1,950	1,310	2,790	2,590	3,230	157	1,890	600
15	1,680	4,210	11,700	654	4,530	1,210	2,320	1,990	1,510	229	2,520	844
16	1,580	5,790	11,400	776	4,550	1,380	2,470	1,600	964	430	2,760	638
17	1,550	4,490	11,800	776	3,790	3,240	3,970	1,350	978	261	1,510	676
18	1,250	3,270	10,400	788	2,950	5,550	8,780	1,290	1,950	186	1,160	770
19	1,150	2,680	5,930	956	2,440	5,580	8,580	1,180	1,830	190	942	794
20	2,030	4,400	4,300	1,430	2,280	5,160	5,000	1,130	1,330	254	879	710
21	1,660	5,810	4,220	2,140	1,930	3,250	3,840	1,110	1,420	281	1,560	676
22	1,530	5,360	10,800	2,510	1,620	3,800	2,280	1,420	1,250	998	5,190	660
23	1,470	4,750	9,660	2,380	1,340	3,610	2,270	1,640	897	1,190	3,200	660
24	1,560	2,920	7,340	1,330	1,120	3,640	3,960	1,830	520	2,640	1,900	726
25	1,670	2,290	4,700	1,050	1,160	3,520	4,490	3,280	536	1,820	1,270	715
26	1,630	2,840	2,960	2,060	1,150	3,900	6,340	5,000	512	878	806	704
27	1,140	3,580	2,330	1,570	1,400	5,830	11,000	3,700	488	746	649	704
28	963	3,620	1,680	2,500	2,120	4,750	15,700	3,300	488	1,120	505	698
29	1,060	3,720	1,390	2,920	-----	3,400	11,600	6,440	414	1,450	342	693
30	1,530	3,520	1,230	2,950	-----	1,850	9,750	4,540	383	1,330	317	1,460
31	1,670	-----	1,160	2,700	-----	1,320	-----	3,430	-----	1,010	296	-----
TOTAL	55,332	150,240	198,780	44,669	78,030	92,850	152,418	116,750	40,277	25,247	34,230	16,355
MEAN	1,785	5,008	6,412	1,441	2,787	2,995	5,081	3,766	1,343	814	1,104	545
MAX	4,800	10,800	15,600	2,950	5,540	5,830	15,700	9,250	4,210	2,640	5,190	1,460
MIN	849	2,290	1,160	575	1,120	1,210	710	1,110	383	157	186	132

CAL YR 1972 TOTAL 1,262,621 MEAN 3,450 MAX 23,700 MIN 167 MEAN† 3,450 CFSM† 3.47 IN† 47.23
WTR YR 1973 TOTAL 1,005,178 MEAN 2,754 MAX 15,700 MIN 132 MEAN† 2,754 CFSM† 2.77 IN† 37.60

† Adjusted for change in contents in Sutton Lake.

03197000 Elk River at Queen Shoals, W. Va.

LOCATION.--Lat 38°28'20", long 81°17'10", Kanawha County, on right bank 50 ft (15 m) upstream from Queen Shoals Creek, 100 ft (30 m) downstream from highway bridge at Queen Shoals, 4.0 mi (6.4 m) upstream from Big Sandy Creek, and at mile 25.8 (41.5 m). Records include flow of Queen Shoals Creek.

DRAINAGE AREA.--1,145 mi² (2966 km²), includes that of Queen Shoals Creek.

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only October, November 1928, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 604.09 ft (184.127 m) above mean sea level. Prior to June 19, 1932, nonrecording gage and June 19, 1932, to Sept. 30, 1946, water-stage recorder, at bridge 100 ft (30 m) upstream at same datum.

AVERAGE DISCHARGE.--45 years, 1,983 ft³/s (56.16 m³/s), 23.52 in/yr (597 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 20,000 ft³/s (566 m³/s) Dec. 9, gage height, 14.11 ft (4.301 m); minimum, 144 ft³/s (4.08 m³/s) Sept. 6, gage height, 4.18 ft (1.274 m).
Period of record: Maximum discharge, 72,000 ft³/s (2,040 m³/s) July 5, 1932, gage height, 29.2 ft (8.90 m), from rating curve extended above 40,000 ft³/s (1,130 m³/s); minimum, 0.3 ft³/s (0.008 m³/s) Nov. 4, 5, 1953.

REMARKS.--Records good. Flow regulated since 1960 by Sutton Lake (see sta 03195400). Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 783: Drainage area. WSP 1335: 1929-32, 1935(M), 1936, 1939, 1943(M).

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	2,660	8,290	3,930	1,920	2,670	2,440	1,570	9,120	3,050	303	615	286
2	2,800	13,300	3,500	1,750	3,060	2,300	1,160	7,900	2,230	326	1,260	265
3	1,950	9,400	2,970	1,610	4,660	2,280	1,000	4,990	1,660	1,040	1,090	205
4	1,400	8,660	3,040	1,760	6,810	2,360	1,640	5,050	1,250	850	770	169
5	1,240	6,910	5,220	2,180	5,810	3,370	2,360	5,400	1,130	1,790	389	149
6	1,130	5,540	5,980	2,450	4,640	3,370	4,290	4,210	1,690	1,990	265	153
7	3,300	4,190	8,240	2,370	4,140	3,190	3,650	3,000	1,880	1,330	229	205
8	5,070	4,590	9,000	2,000	4,060	2,810	4,950	2,330	1,710	750	209	281
9	4,080	7,420	17,700	1,580	6,050	2,280	7,360	8,350	1,180	376	186	690
10	1,280	8,770	14,000	1,230	5,440	1,870	9,410	8,560	892	320	186	474
11	1,910	7,270	9,910	988	4,400	1,630	7,570	6,480	809	314	186	255
12	1,940	5,580	5,090	892	3,080	1,460	5,370	5,400	680	308	326	275
13	2,380	3,960	8,530	750	2,320	1,280	4,690	4,570	3,130	260	615	395
14	3,150	3,330	10,200	644	2,040	1,190	3,660	3,240	4,200	182	1,690	482
15	2,300	4,370	11,100	760	4,700	1,110	2,910	2,410	1,990	157	2,120	871
16	1,790	6,180	11,300	780	5,390	1,120	2,680	1,820	1,240	338	2,730	799
17	1,810	5,510	11,200	820	4,440	2,990	3,820	1,560	1,090	350	1,900	680
18	1,610	4,160	10,600	820	3,470	5,920	7,780	1,400	1,710	219	1,250	770
19	1,470	3,240	7,270	860	2,790	5,990	8,830	1,290	2,090	169	1,100	903
20	2,220	5,070	4,970	1,280	2,480	5,500	6,360	1,200	1,490	200	1,000	809
21	2,160	6,190	4,600	1,870	2,170	4,340	4,460	1,170	1,600	224	1,120	760
22	1,860	6,160	12,600	2,590	1,750	4,200	3,160	1,300	1,260	789	4,260	729
23	1,740	5,610	12,100	2,590	1,480	4,140	2,670	1,580	1,280	871	3,940	719
24	1,730	3,980	9,680	2,010	1,220	4,040	4,040	1,780	652	1,960	2,280	750
25	1,860	2,920	7,210	830	1,120	3,840	5,140	3,650	554	2,500	1,570	789
26	1,830	3,080	5,150	2,480	1,110	3,960	7,530	5,120	521	1,070	1,070	770
27	1,530	4,170	4,010	1,860	1,230	6,140	10,400	4,220	489	819	739	750
28	1,220	4,360	3,330	2,810	1,790	5,490	17,800	3,310	505	892	642	750
29	1,260	4,500	2,670	3,310	-----	4,000	12,300	6,050	437	1,340	430	779
30	1,590	4,290	2,300	3,420	-----	2,910	9,620	4,980	332	1,310	326	1,580
31	1,900	-----	2,050	3,150	-----	2,020	-----	3,840	-----	1,390	303	-----
TOTAL	64,170	171,000	229,450	54,364	94,320	99,540	168,180	125,280	42,731	24,737	34,796	17,492
MEAN	2,070	5,700	7,402	1,754	3,369	3,211	5,606	4,041	1,424	798	1,122	583
MAX	5,070	13,300	17,700	3,420	6,810	6,140	17,800	9,120	4,200	2,500	4,260	1,580
MIN	1,130	2,920	2,050	644	1,110	1,110	1,000	1,170	332	157	186	149

CAL YR 1972 TOTAL 1,391,397 MEAN 3,802 MAX 26,100 MIN 181 MEAN† 3,802 CFSM† 3.32 IN† 45.19
WTR YR 1973 TOTAL 1,126,060 MEAN 3,085 MAX 17,800 MIN 149 MEAN† 3,085 CFSM† 2.69 IN† 36.52

† Adjusted for change in contents in Sutton Lake.

03198000 Kanawha River at Charleston, W. Va.

LOCATION.--Lat 38°22'10", long 81°42'05", Kanawha County, on left bank at old lock 6, 1.0 mi (1.6 km) upstream from Davis Creek, 1.5 mi (2.4 km) downstream from Twomile Creek, 2.0 mi (3.2 km) downstream from Patrick Street Bridge at Charleston, 3.5 mi (5.6 km) downstream from Elk River, and at mile 54.3 (87.4 km).

DRAINAGE AREA.--10,419 mi² (26,985 km²).

PERIOD OF RECORD.--June 1939 to current year. Monthly discharge only September 1939 to February 1940, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 548.00 ft (167.030 m) above mean sea level, levels by Corps of Engineers. Auxiliary water-stage recorder 2.3 mi (3.7 km) upstream from base gage at datum 547.00 ft (166.726 m) above mean sea level, Corps of Engineers bench mark. Prior to Oct. 1, 1955, auxiliary gages at different sites and datum.

AVERAGE DISCHARGE.--34 years, 14,480 ft³/s (410.1 m³/s), 18.87 in/yr (479 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 118,000 ft³/s (3,340 m³/s) Apr. 28, gage height, 31.40 ft (9.571 m); minimum daily, 2,360 ft³/s (66.8 m³/s) Sept. 5; minimum gage height, 17.45 ft (5.319 m) July 9.
Period of record: Maximum discharge, 216,000 ft³/s (6,120 m³/s) Aug. 15, 1940; maximum gage height, 39.72 ft (12.107 m) Mar. 7, 1955; minimum discharge, less than 1,030 ft³/s (29.2 m³/s) during period Oct. 1-5, 1953; minimum gage height, 17.27 ft (5.264 m) July 1, 1963.
Flood of Sept. 29, 1861, reached a stage of about 54.3 ft (16.55 m).

REMARKS.--Records good. Since 1939, flow regulated by increasing number of reservoirs upstream from station. Records of water temperatures for 1972 and 1973 water years are published in Part 2 of this report.

REVISIONS (WATER YEARS)--WSP 1335: 1943.

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	21,500	22,700	22,200	13,600	24,100	18,300	20,300	53,900	52,000	7,990	6,480	3,730
2	17,600	56,800	19,600	13,400	26,000	16,400	20,700	41,200	40,400	7,550	6,590	2,740
3	12,000	49,800	17,500	11,200	66,000	16,800	25,900	34,400	22,500	7,050	6,860	2,420
4	7,510	41,600	14,400	13,300	71,800	17,800	28,500	34,200	14,300	7,440	8,190	2,660
5	8,250	27,000	17,000	17,300	60,400	23,300	26,300	32,400	13,500	8,370	7,280	2,360
6	19,400	20,600	22,800	19,200	45,000	22,800	31,000	27,200	17,400	7,700	6,790	2,600
7	33,500	14,800	29,600	18,200	33,000	30,800	26,800	21,300	18,000	7,400	6,410	4,170
8	23,800	16,700	36,800	15,100	30,300	25,700	30,300	17,300	17,600	6,200	6,360	4,650
9	16,500	38,000	65,300	13,100	35,500	23,600	48,500	29,000	17,000	5,400	7,160	5,070
10	12,400	43,100	69,300	13,000	37,000	21,500	50,300	37,600	13,900	4,010	6,930	4,160
11	11,200	33,800	66,000	12,200	28,100	20,700	46,200	34,000	12,800	6,900	5,660	3,850
12	10,100	27,100	41,600	9,140	18,500	17,600	35,900	28,600	9,670	6,360	7,700	3,570
13	10,100	20,300	69,900	8,330	19,600	16,000	28,000	22,500	12,100	6,380	8,100	3,610
14	11,200	16,700	70,600	8,730	18,800	15,100	25,100	20,100	14,700	5,500	6,070	4,290
15	9,850	35,800	59,600	7,840	25,400	15,400	23,700	15,500	9,410	7,250	8,310	6,360
16	8,370	43,400	56,400	7,570	28,800	15,300	25,500	16,200	10,200	10,100	8,260	6,970
17	8,090	30,200	56,700	7,930	26,400	51,400	23,100	13,600	11,400	8,800	8,360	4,740
18	7,460	24,600	46,900	8,130	21,100	77,500	35,500	12,500	15,100	11,300	8,110	5,940
19	8,000	19,100	37,900	9,010	17,300	74,800	36,200	12,400	19,400	7,310	9,130	6,080
20	10,100	21,200	30,800	10,000	15,300	67,800	33,300	11,800	17,600	7,090	8,350	5,610
21	8,000	37,400	23,500	13,200	14,800	58,600	25,100	11,400	16,700	6,590	6,390	5,060
22	11,700	34,400	53,100	14,400	16,000	51,800	21,100	8,150	12,600	8,180	9,430	5,270
23	9,900	28,300	89,900	13,200	13,100	41,700	18,000	11,800	12,700	7,850	13,600	5,290
24	7,040	22,300	69,900	11,400	12,400	34,300	17,800	16,000	12,400	8,700	10,600	4,240
25	8,760	17,200	43,100	7,930	11,800	29,200	17,900	26,500	8,930	12,000	9,740	3,870
26	10,200	19,400	33,300	9,630	11,600	26,300	23,900	32,700	8,290	11,600	6,650	3,800
27	8,250	22,700	24,600	12,600	10,800	34,300	52,800	26,200	8,110	9,650	5,280	4,640
28	7,670	27,100	25,000	15,700	14,800	32,700	111,000	26,500	7,910	8,280	4,150	4,450
29	9,980	27,900	18,800	19,700	-----	29,100	98,500	61,200	7,710	8,020	5,340	4,080
30	11,500	23,800	18,300	28,200	-----	23,600	73,400	72,000	7,760	6,330	5,050	6,120
31	11,300	-----	18,000	26,000	-----	19,500	-----	65,600	-----	6,190	4,680	-----
TOTAL	371,230	863,800	1,268.4M	408,240	753,700	969,700	1,080.6M	873,750	462,090	239,490	228,010	132,400
MEAN	11,980	28,790	40,920	13,170	26,920	31,280	36,020	28,190	15,400	7,725	7,355	4,413
MAX	33,500	56,800	89,900	28,200	71,800	77,500	111,000	72,000	52,000	12,000	13,600	6,970
MIN	7,040	14,800	14,400	7,570	10,800	15,100	17,800	8,150	7,710	4,010	4,150	2,360
CAL YR	1972	TOTAL 8,791,730	MEAN 24,020	MAX 132,000	MIN 2,800	CFSM 2.31	IN 31.38					
WTR YR	1973	TOTAL 7,651,410	MEAN 20,960	MAX 111,000	MIN 2,360	CFSM 2.01	IN 27.31					

03198450 Drawdy Creek near Peytona, W. Va.

LOCATION.--Lat 38°07'29" (corrected), long 81°41'33", Boone County, on right bank 75 ft (23 m) upstream from bridge at entrance to Drawdy Cemetery, 1.0 mi (1.6 km) southwest of Peytona, and at mile 1.3 (2.1 km).

DRAINAGE AREA.--7.75 mi² (20.07 km²).

PERIOD OF RECORD.--October 1964 to September 1968 (annual maximum only), October 1968 to current year.

GAGE.--Water-stage and rainfall recorders. Altitude of gage is 770 ft (235 m), from topographic map. Prior to Sept. 21, 1968, SR recorder 100 ft (30 m) downstream at same datum.

AVERAGE DISCHARGE.--5 years, 9.69 ft³/s (0.274 m³/s), 16.98 in/yr (431 mm/yr).

EXTREMES.--Current year: Maximum discharge, 273 ft³/s (7.73 m³/s) Apr. 27, gage height, 6.88 ft (2.097 m), from rating curve extended as explained below; minimum, 0.45 ft³/s (0.013 m³/s) Sept. 3-6, 7-9, 13, 14, gage height, 2.81 ft (0.856 m).
Period of record: Maximum discharge, 848 ft³/s (24.0 m³/s) July 18, 1971, gage height, 10.54 ft (3.213 m), from rating curve extended above 130 ft³/s (3.68 m³/s) on basis of contracted-opening measurements at gage heights 6.50 ft (1.981 m) and 10.54 ft (3.213 m); minimum, 0.07 ft³/s (0.002 m³/s) Aug. 18, 1970, gage height, 2.74 ft (0.835 m).

REMARKS.--Records good. Rainfall records collected at site since September 1968 are contained in files of U. S. Geological Survey with only monthly totals published in this report.

REVISIONS (WATER YEARS)--WRD W. Va. 1969: 1965-68(M).

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	3.6	40	17	9.6	7.3	8.6	13	21	7.6	2.3	1.6	.51
2	2.4	15	14	8.1	12	8.6	11	16	5.9	2.0	1.4	.51
3	1.8	7.8	12	9.6	18	9.3	9.3	29	4.5	2.2	1.3	.45
4	1.8	5.1	16	8.6	21	9.3	8.9	25	3.6	6.0	1.1	.45
5	1.7	3.9	20	7.6	18	9.9	7.8	19	4.5	3.7	1.0	.45
6	1.2	3.2	38	7.3	16	9.3	6.9	15	3.4	3.0	.90	.70
7	1.1	3.6	39	6.4	14	9.6	8.1	12	4.3	2.4	.90	.45
8	1.0	13	64	6.1	19	11	24	12	3.9	1.9	.80	.45
9	.90	12	140	6.0	23	9.9	33	13	3.3	1.7	.70	1.1
10	.82	9.3	168	6.0	19	9.9	45	8.9	2.7	1.6	3.5	1.0
11	.74	9.3	71	7.5	16	11	33	7.3	2.4	3.5	1.4	.60
12	1.2	7.8	39	6.0	13	9.9	25	6.1	2.3	2.5	2.7	.51
13	.90	7.1	28	5.0	11	9.3	18	5.1	2.1	1.8	2.4	.45
14	.82	8.6	21	4.3	19	8.6	14	4.3	2.0	1.5	1.4	3.1
15	.74	8.1	44	4.1	32	13	12	3.8	1.6	1.3	1.4	1.2
16	.74	7.8	52	3.8	26	18	9.9	3.5	3.1	15	2.3	.80
17	.66	7.1	32	3.6	19	77	11	3.8	18	7.0	1.3	.70
18	.90	5.9	23	3.5	17	49	9.3	3.2	24	3.0	1.2	1.3
19	5.3	8.1	18	4.9	14	34	9.3	2.9	9.3	2.3	1.1	.90
20	2.9	13	16	4.7	12	27	8.6	3.0	7.3	1.6	2.4	.70
21	2.4	14	22	4.3	11	55	7.8	2.6	55	3.9	2.0	.60
22	2.0	12	97	4.5	9.6	46	7.3	2.3	26	4.1	1.9	.60
23	1.8	10	54	4.5	8.6	39	9.3	4.9	10	2.3	1.6	1.2
24	1.6	8.3	33	4.3	7.6	41	12	8.1	5.0	8.3	1.3	1.3
25	1.4	8.6	29	4.1	6.9	38	22	8.6	2.8	7.3	1.2	.80
26	1.3	18	26	3.9	6.4	34	35	8.9	2.3	4.5	1.0	.70
27	1.2	18	25	4.9	8.3	37	182	7.1	2.1	3.3	.90	.60
28	3.2	18	22	4.7	8.1	31	144	11	2.0	2.6	.80	.60
29	2.4	19	18	6.9	-----	24	52	8.6	3.8	2.0	.70	9.8
30	2.3	19	15	6.6	-----	19	30	9.9	2.8	1.9	.60	7.0
31	2.2	-----	13	7.1	-----	15	-----	9.6	-----	1.6	.60	-----
TOTAL	53.02	340.6	1,226	178.5	412.8	731.2	818.5	295.5	227.6	108.1	43.40	39.53
MEAN	1.71	11.4	39.5	5.76	14.7	23.6	27.3	9.53	7.59	3.49	1.40	1.32
MAX	5.3	40	168	9.6	32	77	182	29	55	15	3.5	9.8
MIN	.66	3.2	12	3.5	6.4	8.6	6.9	2.3	1.6	1.3	.60	.45
CFSM	.22	1.47	5.10	.74	1.90	3.05	3.52	1.23	.98	.45	.18	.17
IN.†	.25	1.63	5.88	.86	1.98	3.51	3.93	1.42	1.09	.52	.21	.19
IN.††	3.16	4.89	6.49	1.44	2.42	4.22	5.93	5.03	-	-	3.34	3.50
CAL YR 1972	TOTAL	5,165.64	MEAN	14.1	MAX	245	MIN	.28	CFSM	1.82	IN†	24.80
WTR YR 1973	TOTAL	4,474.75	MEAN	12.3	MAX	182	MIN	.45	CFSM	1.59	IN†	21.48

PEAK DISCHARGE (BASE, 150 CFS)

† Runoff.
†† Rainfall.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1100	6.85	270	6-17	2115	5.89	180
4-27	1830	6.88	273				

03198500 Big Coal River at Ashford, W. Va.

LOCATION.--Lat 38°10'45", long 81°42'40", Boone County, on left bank at downstream side of highway bridge at Ashford, 300 ft (91 m) upstream from Lick Creek, 1.0 mi (1.6 km) downstream from Brush Creek, 1.8 mi (2.9 km) upstream from Bull Creek, and at mile 29.5 (47.5 km).

DRAINAGE AREA.--393 mi² (1,018 km²).

PERIOD OF RECORD.--June 1908 to September 1916, May 1930 to current year. Published as Coal River at Brushton, June 1908 to September 1916 and as Coal River at Ashford, May 1930 to September 1960.

GAGE.--Water-stage recorder. Datum of gage is 622.46 ft (189.726 m) above mean sea level. Prior to Aug. 9, 1916, nonrecording gage at site 1.0 mi (1.6 km) upstream at different datum. May 7, 1930 to Feb. 10, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--51 years, 504 ft³/s (14.27 m³/s), 17.42 in/yr (442 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,400 ft³/s (351 m³/s) Apr. 28, gage height, 17.50 ft (5.334 m); minimum, 32 ft³/s (0.91 m³/s) Sept. 27, 28, gage height, 1.76 ft (0.536 m).
Period of record: Maximum discharge observed, 35,800 ft³/s (1,010 m³/s) Aug. 9, 1916, gage height, 36.3 ft (11.06 m), from floodmark, site and datum then in use, or 35.66 ft (10.869 m), from floodmark, present site and datum, from rating curve extended above 25,000 ft³/s (708 m³/s); no flow Sept. 18-21, 24, Oct. 6-12, 1930.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 783: Drainage area. WSP 1305: 1913-14(M). WSP 1335: 1912, 1916(M).

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	376	1,160	758	665	478	893	724	1,330	712	117	113	53
2	193	1,300	674	572	590	809	714	1,030	567	113	126	50
3	125	794	590	522	860	735	674	1,210	447	246	117	47
4	102	566	566	622	950	684	660	1,610	349	225	104	45
5	101	404	638	660	882	656	821	1,280	400	204	92	46
6	94	294	794	657	815	746	889	1,010	418	161	85	55
7	98	213	1,180	579	792	759	867	838	349	126	79	39
8	87	464	1,490	504	814	740	1,080	727	278	111	72	37
9	77	686	4,930	484	1,100	748	1,390	1,030	249	102	71	41
10	69	662	6,650	442	1,140	697	2,020	1,020	252	122	83	52
11	61	602	4,450	353	950	639	1,950	878	201	154	77	56
12	63	536	2,070	321	787	622	1,410	731	171	108	72	52
13	76	464	1,420	260	680	549	1,100	608	1,150	89	201	43
14	69	512	1,070	283	683	498	883	500	689	82	141	63
15	63	800	1,280	295	1,100	664	758	418	374	350	134	73
16	59	758	2,340	269	1,290	1,380	663	353	296	548	158	70
17	56	656	1,640	247	1,060	6,160	657	332	386	296	115	54
18	52	554	1,170	234	896	3,600	925	323	530	176	97	62
19	124	494	983	265	789	2,010	990	273	264	137	86	72
20	211	836	893	351	706	1,510	892	266	204	181	101	69
21	173	1,060	850	321	641	1,660	783	249	650	143	113	55
22	131	968	5,090	314	597	1,900	689	216	394	222	158	48
23	110	818	3,830	341	554	1,670	632	500	239	253	158	44
24	97	680	1,860	314	511	1,490	684	1,240	182	728	124	44
25	90	584	1,440	285	460	1,360	710	1,310	149	602	104	42
26	84	632	1,240	271	429	1,250	913	1,070	128	716	89	39
27	78	788	1,150	310	512	1,210	3,270	795	117	400	80	34
28	104	830	1,010	399	868	1,110	10,400	824	182	253	73	33
29	157	830	890	497	-----	997	3,810	994	188	185	68	51
30	177	776	800	493	-----	890	1,900	936	141	147	63	159
31	153	-----	737	474	-----	780	-----	878	-----	121	62	-----
TOTAL	3,510	20,721	54,483	12,604	21,934	39,416	43,858	24,779	10,656	7,418	3,216	1,628
MEAN	113	691	1,758	407	783	1,271	1,462	799	355	239	104	54.3
MAX	376	1,300	6,650	665	1,290	6,160	10,400	1,610	1,150	728	201	159
MIN	52	213	566	234	429	498	632	216	117	82	62	33
CFSM	.29	1.76	4.47	1.04	1.99	3.23	3.72	2.03	.90	.61	.26	.14
IN.	.33	1.96	5.16	1.19	2.08	3.73	4.15	2.35	1.01	.70	.30	.15
CAL YR 1972	TOTAL 315,284	MEAN 861	MAX 16,000	MIN 51	CFSM 2.19	IN 29.84						
WTR YR 1973	TOTAL 244,223	MEAN 669	MAX 10,400	MIN 33	CFSM 1.70	IN 23.12						

PEAK DISCHARGE (BASE, 5,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1600	13.75	7,880	3-17	1530	14.45	8,550
12-22	1600	13.53	7,680	4-28	1000	17.50	12,400

03199000 Little Coal River at Danville, W. Va.

LOCATION.--Lat 38°03'45", long 81°50'15", Boone County, on right bank at upstream side of highway bridge at Danville, 900 ft (274 m) upstream from Turtle Creek, 2.3 mi (3.7 km) downstream from confluence of Pond and Spruce Forks, and at mile 24.7 (39.7 km).

DRAINAGE AREA.--270 mi² (699 km²).

PERIOD OF RECORD.--May 1930 to current year. Prior to October 1941, published as "at Madison."

GAGE.--Water-stage recorder. Datum of gage is 661.09 ft (201.500 m) above mean sea level. Prior to Oct. 1, 1941, nonrecording gage at site 1.5 mi (2.4 km) upstream at datum 6.80 ft (2.073 m) higher.

AVERAGE DISCHARGE.--43 years, 343 ft³/s (9.714 m³/s), 17.25 in/yr (438 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,850 ft³/s (222 m³/s) Apr. 28, gage height, 15.56 ft (4.743 m); minimum, 27 ft³/s (0.76 m³/s) Sept. 8, 9, 27, gage height, 1.91 ft (0.582 m).
Period of record: Maximum discharge, 42,800 ft³/s (1,210 m³/s) Feb. 3, 1939, gage height, 30.2 ft (9.20 m), from floodmarks, present site and datum, from rating curve extended above 12,000 ft³/s (340 m³/s) on basis of slope-area measurement of peak flow; no flow at times July to October 1930.

REMARKS.--Records good.

REVISIONS (WATER YEARS)--WSP 1725: 1951(M), 1955(M).

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	185	529	515	452	250	640	580	895	599	91	85	40
2	94	486	435	396	332	563	490	666	488	89	89	37
3	72	283	390	368	436	518	380	1,100	396	159	77	37
4	66	188	400	420	496	464	540	1,240	320	147	66	37
5	78	143	435	372	500	452	480	895	509	166	63	50
6	69	118	665	364	492	420	360	689	480	115	60	40
7	62	110	970	324	488	400	330	568	408	94	55	33
8	58	303	1,280	304	612	412	1,400	512	316	82	57	30
9	53	338	4,090	288	890	392	2,100	885	253	74	60	37
10	48	293	4,500	284	770	376	2,500	756	210	71	68	87
11	51	283	2,600	253	617	376	1,000	622	181	111	63	50
12	56	237	1,480	232	503	380	1,100	504	164	84	63	44
13	67	210	1,020	193	440	336	1,000	424	304	71	87	42
14	56	237	734	222	488	328	620	360	210	69	79	73
15	48	271	1,100	204	805	702	540	308	164	294	81	66
16	42	257	1,710	183	795	1,700	540	264	159	188	77	49
17	38	241	1,160	166	640	4,020	440	264	384	127	63	44
18	50	202	815	164	545	2,380	440	232	775	96	55	68
19	134	196	658	198	496	1,490	434	201	312	101	50	60
20	125	525	612	229	448	1,120	420	213	195	123	65	50
21	84	565	594	204	408	1,260	404	188	392	98	101	43
22	70	530	3,400	210	384	1,260	380	164	324	238	101	36
23	64	420	2,200	210	356	1,120	372	716	201	178	79	43
24	60	325	1,380	195	320	1,140	424	1,060	149	210	65	44
25	61	289	1,160	188	284	1,080	436	1,340	125	576	57	36
26	57	495	1,030	181	268	1,200	572	860	111	332	52	32
27	47	595	930	201	444	2,300	3,450	599	100	195	50	33
28	88	580	790	195	676	1,400	5,910	720	145	134	48	44
29	87	560	662	243	-----	910	2,360	738	117	111	49	74
30	83	545	576	222	-----	820	1,340	617	100	94	48	159
31	76	-----	518	229	-----	720	-----	707	-----	85	44	-----
TOTAL	2,229	10,354	38,809	7,894	14,183	30,679	31,342	19,307	8,591	4,603	2,057	1,518
MEAN	71.9	345	1,252	255	507	990	1,045	623	286	148	66.4	50.6
MAX	185	595	4,500	452	890	4,020	5,910	1,340	775	576	101	159
MIN	38	110	390	164	250	328	330	164	100	69	44	30
CFSM	.27	1.28	4.64	.94	1.88	3.67	3.87	2.31	1.06	.55	.25	.19
IN,	.31	1.43	5.35	1.09	1.95	4.23	4.32	2.66	1.18	.63	.28	.21
CAL YR 1972	TOTAL 216,299	MEAN 591	MAX 9,720	MIN 38	CFSM 2.19	IN 29.80						
WTR YR 1973	TOTAL 171,566	MEAN 470	MAX 5,910	MIN 30	CFSM 1.74	IN 23.64						

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1330	12.79	5,650	3-17	1145	13.55	6,240
12-22	1215	11.87	5,020	4-28	0630	15.56	7,850

03200500 Coal River at Tornado, W. Va.

LOCATION.--Lat 38°20'20", long 81°50'30", Kanawha County, on downstream side of highway bridge at Tornado, 0.2 mi (0.3 km) upstream from Falls Creek and at mile 11.5 (18.5 km).

DRAINAGE AREA.--861 mi² (2,230 km²), includes that of Falls Creek.

PERIOD OF RECORD.--June 1908 to June 1912 (gage heights only, October 1911 to June 1912), November 1928 to September 1931, August 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 570.46 ft (173.876 m) above mean sea level. Aug. 1, 1971 to Jan. 9, 1973, nonrecording gage at same site and datum. Prior to Aug. 1, 1961, nonrecording gage at same site at different datum.

AVERAGE DISCHARGE.--17 years (1908-11, 1929-31, 1961-73), 1,218 ft³/s (34.49 m³/s), 19.21 in/yr (488 mm/yr).

EXTREMES.--Current year: Maximum discharge, 20,800 ft³/s (589 m³/s) Apr. 28, gage height, 21.94 ft (6.687 m); minimum, 63 ft³/s (1.78 m³/s) Sept. 28, 29, gage height, 10.33 ft (3.149 m).
Period of record: Maximum discharge, 35,500 ft³/s (1,010 m³/s) Mar. 7, 1967, gage height, 31.98 ft (9.748 m); minimum (estimated), 2.0 ft³/s (0.057 m³/s) Oct. 1-10, 1930.

REMARKS.--Records fair prior to Jan. 9 and good thereafter. Records of suspended-sediment discharge for the current year are published in Part 2 of this report.

COOPERATION.--Prior to Jan. 9 gage-height record furnished by National Weather Service.

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	1,170	1,950	1,810	1,460	920	1,670	1,540	2,920	1,610	288	215	95
2	1,150	3,340	1,850	1,280	1,100	1,530	1,440	2,180	1,290	255	225	83
3	367	1,930	1,560	1,100	1,510	1,390	1,330	2,300	1,040	321	235	73
4	310	1,350	2,090	995	1,780	1,310	1,260	3,430	870	493	196	73
5	429	995	2,050	1,370	1,710	1,220	1,400	2,750	814	404	160	73
6	429	860	2,410	1,370	1,610	1,280	1,480	2,140	1,070	391	152	135
7	378	680	3,110	1,370	1,590	1,280	1,400	1,730	915	287	135	113
8	310	1,170	3,380	1,280	1,680	1,360	2,470	1,670	770	235	120	78
9	310	1,540	10,600	800	2,360	1,330	2,890	3,120	651	205	113	78
10	250	1,540	14,600	680	2,400	1,260	3,660	2,500	617	196	152	95
11	205	1,350	10,800	637	2,000	1,250	3,670	2,000	522	245	186	152
12	205	1,150	4,930	650	1,590	1,280	2,800	1,590	454	266	225	120
13	298	995	3,380	546	1,360	1,130	2,200	1,290	1,080	196	344	101
14	310	1,540	2,650	546	1,460	1,040	1,740	1,070	1,110	160	332	128
15	205	1,520	2,450	695	2,320	1,240	1,460	931	674	255	266	196
16	195	1,350	3,240	695	2,540	2,750	1,280	817	533	796	321	177
17	310	1,350	2,350	624	2,170	9,710	1,190	768	546	571	266	135
18	195	1,350	2,760	585	1,790	8,390	1,460	751	1,580	368	196	113
19	205	995	2,250	598	1,560	4,290	1,590	661	845	266	169	143
20	310	1,540	1,950	740	1,380	3,210	1,490	640	579	332	169	160
21	310	2,110	2,150	710	1,250	3,490	1,350	620	838	356	225	128
22	572	2,110	5,630	665	1,140	3,880	1,220	554	966	441	276	101
23	455	1,930	8,320	695	1,060	3,500	1,150	782	658	545	321	89
24	455	1,170	2,690	680	993	3,250	1,300	2,340	488	723	276	83
25	442	1,170	3,280	624	902	3,000	1,490	3,020	388	1,050	215	107
26	275	1,540	2,350	598	850	2,920	2,020	2,540	321	1,030	169	89
27	310	2,130	2,760	657	876	3,670	6,980	1,850	277	723	135	83
28	429	2,110	2,350	746	1,500	3,170	19,100	1,650	286	507	128	68
29	585	2,310	2,150	873	-----	2,530	9,520	2,190	489	379	107	83
30	650	2,130	1,850	919	-----	2,100	4,140	1,830	363	298	107	416
31	572	-----	1,650	893	-----	1,750	-----	1,890	-----	245	101	-----
TOTAL	12,596	47,205	115,400	26,081	43,401	81,180	86,020	54,524	22,644	12,827	6,237	3,568
MEAN	406	1,574	3,723	841	1,550	2,619	2,867	1,759	755	414	201	119
MAX	1,170	3,340	14,600	1,460	2,540	9,710	19,100	3,430	1,610	1,050	344	416
MIN	195	680	1,560	546	850	1,040	1,150	554	277	160	101	68
CFSM	47	1.83	4.32	.98	1.80	3.04	3.33	2.04	.88	.48	.23	.14
IN	.54	2.04	4.99	1.13	1.88	3.51	3.72	2.36	.98	.55	.27	.15
CAL YR 1972	TOTAL 686,574	MEAN 1,876	MAX 24,100	MIN 195	CFSM 2,118	IN 29,666						
WTR YR 1973	TOTAL 511,683	MEAN 1,402	MAX 19,100	MIN 68	CFSM 1,63	IN 22,11						

PEAK DISCHARGE (BASE, 16,000 CFS)

a From graph based on gage readings.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	2100	a19.20	16,100	4-28	1600	21.94	20,800

03201000 Pocatalico River at Sissonville, W. Va.

LOCATION.--Lat 38°31'35", long 81°37'50", Kanawha County, on right bank at downstream side of bridge on U.S. Highway 21 at Sissonville, 0.3 mi (0.5 km) downstream from Grapevine Creek, 1.8 mi (2.9 km) downstream from Pocatalico Creek, and at mile 25.0 (40.2 km).

DRAINAGE AREA.-- 238 mi² (616 km²).

PERIOD OF RECORD.--June 1908 to September 1916, May 1930 to September 1931, February 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 594.56 ft (181.222 m) above mean sea level, adjustment of 1912. Prior to Nov. 5, 1948, nonrecording gage at same site, at datum 0.59 ft (0.180 m) lower June 26, 1908, to Sept. 30, 1916.

AVERAGE DISCHARGE.--45 years, 289 ft³/s (8.184 m³/s), 16.49 in/yr (419 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,500 ft³/s (241 m³/s) Dec. 9, gage height, 26.29 ft (8.013 m); minimum, 3.9 ft³/s (0.11 m³/s) Sept. 5, 6, 8, 9, 13, gage height 1.91 ft (0.582 m).

Period of record: Maximum discharge, 17,000 ft³/s (481 m³/s) June 27, 1910, from rating curve extended above 9,100 ft³/s (258 m³/s); maximum gage height, 34.4 ft (10.49 m) Apr. 16, 1939, from floodmarks; no flow Sept. 25-29, 1959, July 9, Aug. 4, 6-8, 20, 21, Sept. 11, 12, 17, 18, 1966.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1908-10, 1912-13, 1915-16.

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	574	3,040	618	216	358	149	237	1,450	260	35	62	8.7
2	207	4,690	715	173	835	142	233	934	155	24	51	7.5
3	112	1,120	776	158	1,330	156	203	825	114	32	60	5.9
4	74	431	679	490	936	218	528	947	93	40	43	5.3
5	56	251	1,110	453	589	238	934	563	77	39	27	4.3
6	46	170	1,760	310	484	273	532	376	75	32	19	4.7
7	40	134	2,750	228	814	256	384	278	71	23	16	7.0
8	34	864	2,430	179	1,230	741	1,320	356	60	16	14	5.0
9	27	1,040	7,850	147	1,860	715	1,690	2,330	46	13	14	4.4
10	22	523	5,280	130	804	428	2,190	1,430	37	12	13	4.8
11	19	380	2,410	110	460	328	1,310	1,070	31	444	12	5.4
12	18	397	944	95	303	488	762	600	26	140	12	5.6
13	34	305	631	85	256	350	910	358	23	61	51	4.4
14	31	325	497	77	723	258	638	247	22	34	38	51
15	34	871	848	86	2,750	229	440	190	22	30	46	172
16	26	541	1,830	101	1,410	226	327	149	28	78	74	80
17	23	321	944	101	552	1,770	269	136	41	52	47	40
18	21	222	519	98	376	2,020	233	129	112	28	30	60
19	75	219	438	155	339	1,380	210	110	83	18	24	91
20	228	999	504	380	274	916	194	132	51	15	39	64
21	154	762	700	276	251	897	163	126	242	27	190	34
22	101	446	3,330	240	231	786	144	100	285	274	213	22
23	77	347	2,490	253	206	578	204	110	102	157	121	16
24	62	271	856	194	186	433	1,370	319	56	74	68	17
25	52	240	541	150	153	387	1,140	1,470	36	1,120	43	16
26	45	1,130	416	130	142	594	1,430	638	25	585	29	13
27	39	1,060	477	318	146	838	3,330	420	19	669	21	11
28	69	809	449	934	158	600	5,680	309	21	144	17	8.5
29	178	1,210	345	636	-----	397	2,020	226	33	165	14	7.8
30	159	765	287	499	-----	318	809	195	47	156	12	14
31	102	-----	255	354	-----	262	-----	486	-----	73	10	-----
TOTAL	2,719	23,883	43,679	7,756	18,156	17,371	29,834	17,009	2,293	4,610	1,430	790.3
MEAN	87.7	796	1,409	250	648	560	994	549	76.4	149	46.1	26.3
MAX	574	4,690	7,850	934	2,750	2,020	5,680	2,330	285	1,120	213	172
MIN	18	134	255	77	142	142	144	100	19	12	10	4.3
CFSM	.37	3.34	5.92	1.05	2.72	2.35	4.18	2.31	.32	.63	.19	.11
IN.	.42	3.73	6.83	1.21	2.84	2.72	4.66	2.66	.36	.72	.22	.12

CAL YR 1972 TOTAL 198,515.7 MEAN 542 MAX 7,850 MIN 8.5 CFSM 2.28 IN 31.03
WTR YR 1973 TOTAL 169,530.3 MEAN 464 MAX 7,850 MIN 4.3 CFSM 1.95 IN 26.50

PEAK DISCHARGE (BASE, 3,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11- 1	2000	21.90	6,050	12-22	1830	17.29	4,020
12- 9	1330	26.29	8,500	4-28	0600	22.66	6,430

03201410 Poplar Fork at Teays, W. Va.

LOCATION.--Lat 38°27'23", long 81°55'54", Putnam County, on left bank at Teays, and 50 ft (15 m) upstream from culvert on Interstate Highway 64 at Winfield interchange.

DRAINAGE AREA.--8.71 mi² (22.56 km²).

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

GAGE.--Water-stage and rainfall recorders and concrete dam and culvert control. Altitude of gage is 640 ft (195 m), from topographic map.

AVERAGE DISCHARGE.--6 years, 10.4 ft³/s (0.295 m³/s), 16.21 in/yr (412 mm/yr).

EXTREMES.--Current year: Maximum discharge, 996 ft³/s (28.2 m³/s) Dec. 8, gage height, 12.36 ft (3.767 m), from rating curve extended as explained below; minimum, 0.18 ft³/s (0.005 m³/s) Sept. 8, gage height, 6.91 ft (2.106 m).

Period of record: Maximum discharge, 1,800 ft³/s (51.0 m³/s) May 27, 1968, gage height, 15.34 ft (4.676 m), from rating curve extended above 330 ft³/s (9.35 m³/s) on basis of culvert rating computation; minimum daily, 0.02 ft³/s (0.001 m³/s) July 7, 9, 10, 18, 21, 24, 1968.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Rainfall records collected at site since January 1967 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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	3.7	111	14	5.7	9.4	4.2	14	51	5.3	3.0	1.0	.25
2	2.1	18	11	4.9	42	4.2	9.4	22	4.5	2.5	1.0	.25
3	1.5	8.5	9.0	9.4	24	5.7	7.2	110	3.5	8.0	.81	.25
4	1.5	5.3	30	17	16	5.7	39	27	3.0	6.0	.61	.25
5	2.1	4.1	20	11	12	6.1	22	16	2.5	4.5	.55	.34
6	1.5	3.5	75	8.3	15	6.1	14	11	3.5	3.5	.49	.43
7	1.5	5.0	24	6.1	17	6.8	12	8.8	2.5	2.5	.38	.30
8	1.4	28	335	5.3	49	15	44	38	2.0	2.0	.34	.21
9	1.2	12	242	4.9	30	11	37	42	2.0	1.5	.30	.71
10	1.9	7.3	147	4.9	17	12	40	18	1.5	1.5	.43	.43
11	1.8	6.3	33	4.2	12	9.4	21	48	3.0	1.0	.43	.30
12	2.2	5.3	20	3.2	8.3	7.7	16	20	5.5	1.0	.55	.25
13	2.0	4.8	14	2.9	7.2	6.4	12	12	4.0	.90	1.3	.21
14	1.5	6.9	10	3.0	80	6.1	9.9	8.3	2.0	.80	.55	8.8
15	1.2	7.3	41	3.8	54	6.4	7.7	6.8	1.5	.70	.71	2.0
16	1.4	5.8	30	3.8	22	8.8	7.2	5.7	3.0	.70	.81	.81
17	1.5	5.1	14	3.8	13	35	6.8	5.3	6.0	.60	.49	.71
18	1.3	4.5	11	4.2	11	25	6.4	4.9	10	.60	.43	1.2
19	5.3	20	9.9	9.4	8.8	17	9.4	4.5	6.0	.60	.38	.61
20	4.3	29	15	7.7	8.3	16	7.7	9.9	9.0	2.5	2.3	.55
21	2.7	13	35	6.1	7.7	62	6.4	5.3	21	2.0	1.3	.49
22	2.0	9.9	99	6.8	6.8	28	5.7	3.8	15	1.5	.81	.43
23	1.9	8.5	29	6.1	6.4	20	11	14	9.0	4.0	.61	1.2
24	1.8	7.1	17	4.9	5.7	14	17	33	5.0	3.5	.49	1.5
25	1.8	11	13	4.2	4.9	15	34	23	3.0	3.0	.49	.71
26	1.6	33	12	3.8	4.9	22	22	25	1.5	2.3	.38	.49
27	1.4	14	12	12	4.9	26	350	13	1.0	1.8	.34	.38
28	3.3	32	9.9	12	4.5	15	120	12	1.5	1.4	.34	.38
29	2.9	22	7.2	13	-----	12	27	7.7	2.5	1.2	.30	.61
30	2.2	14	6.8	9.4	-----	9.9	144	8.8	4.0	1.0	.30	1.4
31	1.9	-----	6.4	8.3	-----	8.8	-----	9.9	-----	.91	.25	-----
TOTAL	64.4	462.2	1,352.2	210.1	501.8	447.3	1,079.8	624.7	143.8	67.01	19.47	26.45
MEAN	2.08	15.4	43.6	6.78	17.9	14.4	36.0	20.2	4.79	2.16	.63	.88
MAX	5.3	111	335	17	80	62	350	110	21	8.0	2.3	8.8
MIN	1.2	3.5	6.4	2.9	4.5	4.2	5.7	3.8	1.0	.60	.25	.21
CFSM	.24	1.77	5.01	.78	2.06	1.65	4.13	2.32	.55	.25	.07	.10
IN.†	.28	1.97	5.78	.90	2.14	1.91	4.61	2.67	.61	.29	.08	.11
IN.††	2.07	5.65	5.94	1.56	2.33	3.37	-	-	-	-	1.23	3.00
CAL YR 1972	TOTAL 5,767.24	MEAN 15.8	MAX 358	MIN .45	CFSM 1.81	IN† 24.63						
WTR YR 1973	TOTAL 4,999.23	MEAN 13.7	MAX 350	MIN .21	CFSM 1.57	IN† 21.35						

PEAK DISCHARGE (BASE, 500 CFS)

† Runoff.

†† Rainfall.

NOTE.--No gage-height record June 1 to July 26.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	1515	12.36	996	4-30	1815	11.09	692
4-27	1145	11.16	708				

03201500 Ohio River at Point Pleasant, W. Va.

LOCATION.--Lat 38°50'25", long 82°08'30", Mason County, on left bank at Point Pleasant, 1,200 ft (366 m) upstream from Kanawha River, and at mile 265.4 (427.0 km) measured downstream from Pittsburgh, Pa.. Records include flow of Kanawha River.

DRAINAGE AREA.--52,760 mi² (136,650 km²), approximately, includes that of Kanawha River.

PERIOD OF RECORD.--March 1940 to current year (since October 1952, no low-flow records). Records of gage heights collected in this vicinity since 1889 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 514.10 ft (156.698 m) above mean sea level, Sandy Hook datum. Prior to Oct. 1, 1951, water-stage recorder at site 0.3 mi (0.5 km) upstream at same datum. Auxiliary water-stage recorder 13.1 mi (21.1 km) downstream from the base gage at datum 505.22 ft (153.991 m) above mean sea level, Sandy Hook datum.

EXTREMES.--Current year: Maximum discharge, 388,000 ft³/s (11,000 m³/s) Dec. 11, gage height, 42.93 ft (13.085 m); minimum gage height, 23.62 ft (7.199 m) July 4.

Period of record: Maximum discharge, 522,000 ft³/s (14,800 m³/s) Jan. 1, 1943; maximum gage height, 55.00 ft (16.764 m) Apr. 16, 1948; minimum daily discharge, not determined; minimum gage height recorded, 22.52 ft (6.864 m) Sept. 10, 1956.

Maximum stage since at least 1896, 62.8 ft (19.14 m) Mar. 30, 1913. Flood of Jan. 27, 1937, reached a stage of 62.7 ft (19.11 m).

REMARKS.--Records fair. Discharge less than 50,000 ft³/s (1,420 m³/s) on days for which no discharge is shown. Flow partly regulated by locks, dams, and reservoirs 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	SEPT
1	-	50,100	109,000	94,600	104,000	57,800	100,000	265,000	131,000			
2	72,400	97,600	103,000	84,600	103,000	68,400	96,900	198,000	112,000			
3	59,900	102,000	97,400	80,200	143,000	67,700	97,600	165,000	90,500			
4	35,100	114,000	89,100	94,800	207,000	74,800	112,000	156,000	66,500			
5	33,800	109,000	91,400	115,000	235,000	105,000	140,000	146,000	69,300			
6	38,000	102,000	97,900	121,000	208,000	108,000	153,000	129,000	94,500			
7	66,600	75,000	129,000	119,000	161,000	132,000	162,000	111,000	102,000			
8	79,500	83,100	186,000	109,000	141,000	134,000	162,000	94,200	91,600			
9	63,700	105,000	351,000	91,200	153,000	125,000	185,000	113,000	72,800			
10	41,700	130,000	381,000	64,900	157,000	117,000	211,000	149,000	70,900			
11	41,500	136,000	385,000	63,200	142,000	108,000	220,000	157,000	60,100			
12	44,300	128,000	351,000	50,500	118,000	100,000	205,000	149,000	44,400			
13	-	110,000	288,000	40,000	98,400	91,500	182,000	146,000	57,400			
14	-	96,300	258,000	36,200	91,300	89,300	167,000	132,000	60,800			
15	-	102,000	241,000	39,500	105,000	83,000	152,000	117,000	55,800			
16	-	142,000	247,000	43,700	123,000	102,000	132,000	107,000	37,800			
17	-	163,000	252,000	38,900	126,000	189,000	116,000	94,800	48,300			
18	-	141,000	226,000	45,800	98,500	273,000	110,000	85,100	62,900			
19	-	123,000	188,000	49,800	74,300	293,000	116,000	78,200	79,200			
20	-	122,000	165,000	57,600	71,100	283,000	119,000	66,400	76,700			
21	-	138,000	169,000	62,900	66,300	255,000	115,000	64,400	65,100			
22	-	151,000	204,000	75,400	70,200	226,000	99,300	63,600	60,000			
23	-	142,000	291,000	80,200	70,000	195,000	82,800	63,800	52,000			
24	-	125,000	304,000	85,200	63,400	171,000	107,000	72,100	57,700			
25	-	106,000	263,000	80,800	63,700	155,000	118,000	93,500	43,600			
26	-	97,700	206,000	79,400	57,700	141,000	127,000	115,000	28,200			
27	-	109,000	175,000	73,100	55,800	139,000	143,000	109,000	31,500			
28	-	120,000	160,000	96,200	56,000	148,000	290,000	90,500	35,700			
29	-	127,000	140,000	111,000	-----	146,000	368,000	114,000	33,900			
30	-	123,000	120,000	115,000	-----	125,000	325,000	129,000	28,200			
31	-	-----	105,000	118,000	-----	107,000	-----	144,000	-----			
TOTAL	-	3,469.8M	6,372.8M	2,416.7M	3,162.7M	4,409.5M	4,713.6M	3,717.6M	1,920.4M	-	-	-
MEAN	-	115,700	205,600	77,960	113,000	142,200	157,100	119,900	64,010	-	-	-
MAX	-	163,000	385,000	121,000	235,000	293,000	368,000	265,000	131,000	-	-	-
MIN	-	50,100	89,100	36,200	55,800	57,800	82,800	63,600	28,200	-	-	-
CAL YR 1972	TOTAL	-	MEAN	-	MAX 385,000	MIN	-	CFSM	-	IN	-	-
WTR YR 1973	TOTAL	-	MEAN	-	MAX 385,000	MIN	-	CFSM	-	IN	-	-

03202400 Guyandotte River near Baileysville, W. Va.

LOCATION.--Lat 37°36'15", long 81°38'44", Wyoming County, on right bank 75 ft (23 m) upstream from Doublecamp Branch, and 3.1 mi (5.0 km) east of Baileysville.

DRAINAGE AREA.--308 mi² (798 km²).

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

GAGE.-- Water-stage recorder. Datum of gage is 1,140.00 ft (347.472 m) above mean sea level. Prior to Sept. 10, 1969, at site 25 ft (8 m) upstream at same datum.

AVERAGE DISCHARGE.--5 years, 402 ft³/s (11.38 m³/s), 17.72 in/yr (450 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,200 ft³/s (317 m³/s) Mar. 17, gage height, 13.35 ft (4.069 m), from rating curve extended above 7,300 ft³/s (207 m³/s); minimum, 57 ft³/s (1.61 m³/s) Sept. 28, 29, gage height, 2.76 ft (0.841 m).
Period of record: Maximum discharge, 16,300 ft³/s (462 m³/s) Dec. 31, 1969, gage height, 16.22 ft (4.944 m), from rating curve extended above 7,300 ft³/s (207 m³/s); maximum gage height, 17.26 ft (5.261 m) Feb. 26, 1972; minimum discharge, 21 ft³/s (0.59 m³/s) Oct. 14, 1970, gage height, 2.44 ft (0.744 m).

REMARKS.--Records good.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	650	674	475	470	350	463	608	1,090	615	173	175	80
2	364	1,120	407	430	415	466	624	851	526	211	181	84
3	262	782	365	390	558	444	594	852	449	183	155	80
4	212	575	350	450	520	473	595	829	392	304	133	77
5	336	450	350	540	473	545	633	762	367	306	123	76
6	435	364	370	520	480	722	591	664	525	231	160	78
7	350	332	452	480	531	679	617	588	505	185	140	77
8	283	393	477	450	617	697	747	550	399	160	136	76
9	234	420	3,310	400	857	571	835	842	413	157	132	82
10	205	448	6,770	370	849	494	1,030	854	339	160	116	100
11	180	499	4,000	330	683	487	976	724	306	289	108	89
12	165	488	1,890	310	564	504	849	598	412	212	103	79
13	185	457	1,350	290	506	456	728	516	334	163	101	69
14	175	518	1,060	270	490	435	622	445	288	142	143	75
15	155	540	1,060	320	582	534	560	401	252	213	205	91
16	144	502	1,290	280	608	3,420	506	363	262	267	143	85
17	148	466	1,150	284	547	7,360	598	365	274	206	147	73
18	150	399	920	273	500	2,630	800	348	276	175	186	76
19	304	383	798	292	506	1,670	781	316	237	166	135	76
20	435	559	727	324	460	1,320	681	317	210	194	121	71
21	328	602	777	296	419	1,310	598	293	279	185	162	66
22	269	568	2,920	305	396	1,640	532	272	233	168	168	64
23	234	495	2,160	312	382	1,210	491	1,250	216	163	167	66
24	225	413	1,400	290	362	1,070	497	2,660	199	211	141	66
25	208	387	1,080	277	331	911	468	1,710	188	215	124	63
26	185	481	893	268	321	792	1,190	1,110	176	266	113	63
27	180	536	800	310	385	641	3,150	799	165	211	102	59
28	283	546	750	329	441	677	4,430	1,510	192	173	94	58
29	392	510	650	344	-----	612	2,290	1,640	196	148	90	60
30	364	474	600	346	-----	603	1,420	1,050	168	131	84	88
31	328	-----	500	341	-----	544	-----	808	-----	126	80	-----
TOTAL	8,368	15,381	40,101	10,891	14,133	34,380	29,041	25,377	9,393	6,093	4,168	2,247
MEAN	270	513	1,294	351	505	1,109	968	819	313	197	134	74.9
MAX	650	1,120	6,770	540	857	7,360	4,430	2,660	615	306	205	100
MIN	144	332	350	268	321	435	468	272	165	126	80	58
CFSM	.88	1.67	4.20	1.14	1.64	3.60	3.14	2.66	1.02	.64	.44	.24
IN.	1.01	1.86	4.84	1.32	1.71	4.15	3.51	3.07	1.13	.74	.50	.27

CAL YR 1972 TOTAL 253,076 MEAN 691 MAX 9,500 MIN 101 CFSM 2.24 IN 30.57
WTR YR 1973 TOTAL 199,573 MEAN 547 MAX 7,360 MIN 58 CFSM 1.78 IN 24.10

PEAK DISCHARGE (BASE, 4,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1730	12.02	9,030	4-27	2330	9.57	5,540
3-17	0345	13.35	11,200				

03202480 Briar Creek at Fanrock, W. Va.

LOCATION.--Lat 37°33'50", long 81°39'16", Wyoming County, on right bank on Secondary State Route 14, 0.3 mi (0.5 km) south of Fanrock, and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA.--7.20 mi² (18.65 km²).

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage and rainfall recorders and concrete control. Altitude of gage is 1,220 ft (372 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 538 ft³/s (15.2 m³/s) Mar. 16, gage height, 5.69 ft (1.734 m), from rating curve extended as explained below; minimum 0.37 ft³/s (0.010 m³/s) Aug. 31 to Sept. 1, gage height, 1.73 (0.527 m).
Period of record: Maximum discharge, 806 ft³/s (22.8 m³/s) Aug. 18, 1972, gage height, 6.62 ft (2.018 m), from rating curve extended above 100 ft³/s (2.83 m³/s) on basis of step-backwater method; minimum daily, 0.06 ft³/s (0.002 m³/s) Oct. 22-31, 1969.

REMARKS.--Records good. Rainfall records collected at site since April 1969 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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	14	43	11	8.5	8.5	6.0	13	18	7.7	1.1	4.3	.44
2	6.0	38	8.5	7.4	8.9	6.3	12	13	6.3	1.2	3.5	.44
3	3.8	22	7.4	7.8	8.5	6.7	11	17	5.5	2.9	2.4	.52
4	3.2	14	7.0	9.6	7.4	6.7	14	15	4.3	6.0	1.9	.52
5	8.5	11	6.7	9.3	7.4	8.9	14	14	4.3	3.5	1.6	1.1
6	7.0	8.2	8.2	9.3	8.2	9.6	14	11	4.6	1.9	2.9	.60
7	5.5	7.0	11	8.5	8.2	10	15	9.3	4.1	1.1	1.6	.52
8	4.3	9.6	11	7.5	13	14	17	8.9	3.2	.91	1.2	.52
9	3.2	8.9	136	6.5	20	15	17	20	2.6	.80	.91	1.2
10	2.2	8.5	210	5.5	19	13	17	17	2.4	1.9	.80	1.1
11	1.9	11	76	5.0	14	12	14	13	2.2	4.3	.80	.60
12	1.9	9.6	37	5.0	10	10	12	9.6	4.3	1.6	.70	.52
13	2.2	9.3	29	5.0	8.5	8.5	10	7.8	2.9	1.2	.80	.52
14	1.9	13	23	4.5	9.3	7.8	8.5	6.3	2.4	.80	3.5	1.2
15	2.2	13	26	4.9	11	24	7.4	5.5	1.9	8.2	2.6	1.1
16	2.2	11	31	4.6	12	243	7.0	4.9	2.6	5.7	1.4	.80
17	1.9	9.6	26	4.1	11	176	15	5.7	2.2	3.8	1.1	.70
18	1.4	7.7	19	3.8	9.6	53	28	4.6	1.9	2.2	.80	1.1
19	9.6	11	15	5.2	9.3	38	26	4.1	1.1	2.4	.80	.70
20	7.8	26	14	5.4	8.5	29	20	4.1	1.6	2.2	.80	.60
21	5.7	24	23	4.3	7.8	38	15	3.5	1.4	1.6	.91	.52
22	4.6	18	110	5.2	7.0	44	12	3.2	1.2	2.2	.91	.52
23	4.1	13	50	5.4	6.7	31	11	53	1.1	1.2	.80	.52
24	4.1	9.3	29	4.6	5.7	23	12	76	.91	.91	.70	.44
25	3.5	9.3	22	4.3	5.2	20	15	43	.91	21	.70	.44
26	2.9	15	17	4.3	5.2	17	37	24	.80	20	.60	.44
27	2.9	17	15	5.5	6.3	19	141	15	.70	7.0	.60	.44
28	7.0	16	14	5.2	6.0	18	121	34	1.1	4.1	.60	.44
29	7.4	13	12	8.5	-----	17	46	26	1.1	2.6	.60	.70
30	6.3	11	10	8.0	-----	15	27	15	.80	1.9	.60	1.6
31	5.7	-----	9.6	8.0	-----	12	-----	11	-----	2.9	.52	-----
TOTAL	144.9	437.0	1,024.4	190.7	262.2	951.5	728.9	512.5	78.12	119.12	41.95	20.86
MEAN	4.67	14.6	33.0	6.15	9.36	30.7	24.3	16.5	2.60	3.84	1.35	.70
MAX	14	43	210	9.6	20	243	141	76	7.7	21	4.3	1.6
MIN	1.4	7.0	6.7	3.8	5.2	6.0	7.0	3.2	.70	.80	.52	.44
CFSM	.65	2.03	4.58	.85	1.30	4.26	3.38	2.29	.36	.53	.19	.10
IN.†	.75	2.26	5.29	.99	1.35	4.92	3.77	2.65	.40	.62	.22	.11
IN.††	-	3.75	4.83	-	2.08	6.12	5.43	5.48	3.37	-	1.91	-

CAL YR 1972 TOTAL 6,624.10 MEAN 18.1 MAX 326 MIN .85 CFSM 2.51 IN† 34.22
WTR YR 1973 TOTAL 4,512.15 MEAN 12.4 MAX 243 MIN .44 CFSM 1.72 IN† 23.31

PEAK DISCHARGE (BASE, 150 CFS)

† Runoff.
†† Rainfall.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1230	4.72	299	4-27	1715	4.28	217
3-16	2115	5.69	538				

03203600 Guyandotte River at Logan, W. Va.

LOCATION.--Lat 37°50'10", long 81°59'50", Logan County, on right bank 200 ft (61 m) downstream from Middelburg Bridge at Logan, 0.8 mi (1.3 km) downstream from Dingess Run, and 1.1 mi (1.8 km) upstream from Island Creek.

DRAINAGE AREA.--836 mi² (2,165 km²).

PERIOD OF RECORD.--October 1960 to September 1962 (annual maximum only), October 1962 to current year. Gage-height records collected in this vicinity since November 1915 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 640.00 ft (195.072 m) above mean sea level. Prior to Oct. 1, 1962, at datum 1.32 ft (0.402 m) lower.

AVERAGE DISCHARGE.--11 years, 1,082 ft³/s (30.64 m³/s), 17.58 in/yr (447 mm/yr).

EXTREMES.--Current year: Maximum discharge, 29,200 ft³/s (827 m³/s) Mar. 17, gage height, 24.18 ft (7.370 m), from rating curve extended as explained below; minimum daily, 121 ft³/s (3.43 m³/s) Sept. 28.
Period of record: Maximum discharge, 55,000 ft³/s (1,560 m³/s) Mar. 12, 1963, gage height, 34.98 ft (10.662 m), from rating curve extended above 26,000 ft³/s (736 m³/s) on basis of slope-area measurements at gage heights 25.6 ft (7.80 m) and 34.98 ft (10.662 m); minimum 33 ft³/s (0.93 m³/s) Sept. 17, 1964, gage height, 4.07 ft (1.241 m).

REMARKS.--Records good above 1,000 ft³/s (2.83 m³/s) and fair below.

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	1,700	1,040	1,250	1,220	809	1,080	1,700	2,810	1,780	400	450	169
2	900	2,690	1,110	1,090	889	1,100	1,750	2,220	1,440	474	426	159
3	530	2,000	967	1,010	1,090	1,100	1,640	2,410	1,200	708	415	152
4	412	1,420	923	1,270	1,230	1,070	1,560	2,630	1,020	890	405	145
5	385	1,090	912	1,390	1,170	1,150	1,700	2,260	1,860	1,060	370	142
6	400	848	1,060	1,380	1,180	1,430	1,720	1,940	1,390	800	335	140
7	488	694	1,530	1,250	1,270	1,590	1,700	1,680	1,630	582	311	137
8	448	1,000	1,690	1,110	1,530	1,730	1,920	1,530	1,300	510	298	134
9	375	1,170	7,890	1,010	2,420	1,890	2,180	2,110	1,010	474	284	134
10	338	1,120	15,800	880	2,430	1,660	2,630	2,320	910	432	266	148
11	302	1,110	12,300	750	1,950	1,450	2,760	2,000	753	410	262	152
12	274	1,070	4,990	650	1,520	1,360	2,330	1,690	708	410	251	152
13	232	999	3,200	600	1,280	1,190	1,990	1,430	1,410	410	241	150
14	234	1,080	2,510	550	1,250	1,070	1,720	1,220	1,000	385	236	145
15	233	1,330	3,030	689	1,610	2,100	1,510	1,060	753	890	275	145
16	228	1,310	4,090	643	1,850	6,990	1,370	950	870	1,220	385	143
17	223	1,160	3,370	583	1,700	24,000	1,390	900	1,100	930	375	143
18	217	990	2,480	536	1,440	9,500	1,930	850	1,220	618	330	143
19	317	919	2,010	588	1,360	4,970	2,180	753	890	554	311	140
20	687	2,030	1,810	683	1,220	3,690	1,980	744	717	534	298	140
21	644	2,190	1,830	659	1,100	3,350	1,740	708	771	618	320	138
22	494	1,790	10,800	646	1,000	4,180	1,550	642	682	699	365	136
23	410	1,440	7,680	671	933	3,790	1,420	1,740	568	575	360	134
24	390	1,150	4,040	642	870	2,920	1,430	7,120	516	699	355	131
25	375	998	2,940	585	776	2,480	1,340	6,090	492	1,580	335	128
26	360	1,290	2,420	555	709	2,290	1,730	3,490	468	2,320	306	125
27	346	1,670	2,150	598	830	2,580	6,650	2,140	444	1,330	275	123
28	361	1,640	1,860	673	1,020	2,430	17,100	3,130	426	850	245	121
29	698	1,460	1,630	754	-----	2,140	8,060	4,310	405	603	221	130
30	726	1,300	1,440	793	-----	1,930	4,070	2,640	390	522	200	169
31	580	-----	1,330	793	-----	1,730	-----	1,850	-----	486	184	-----
TOTAL	14,307	39,998	111,042	25,251	36,436	99,940	82,750	67,367	28,123	22,973	9,690	4,248
MEAN	462	1,333	3,582	815	1,301	3,224	2,758	2,173	937	741	313	142
MAX	1,700	2,690	15,800	1,390	2,430	24,000	17,100	7,120	1,860	2,320	450	169
MIN	217	694	912	536	709	1,070	1,340	642	390	385	184	121
CFSM	.55	1.59	4.28	.97	1.56	3.86	3.30	2.60	1.12	.89	.37	.17
IN.	.64	1.78	4.94	1.12	1.62	4.45	3.68	3.00	1.25	1.02	.43	.19
CAL YR 1972	TOTAL 737,578	MEAN 2,015	MAX 29,100	MIN 170	CFSM 2.41	IN 32.82						
WTR YR 1973	TOTAL 542,125	MEAN 1,485	MAX 24,000	MIN 121	CFSM 1.78	IN 24.12						

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	2300	19.13	19,200	3-17	1100	24.18	29,200
12-22	1600	15.71	13,100	4-28	0800	19.44	19,800

03203670 Whitman Creek at Whitman, W. Va.

LOCATION.--Lat 37°48'28", long 82°01'42", Logan County, on right bank 75 ft (23 m) upstream from abandoned bridge off Secondary State Route 9/1, 0.8 mi (1.3 km) south of Whitman, and at mile 2.0 (3.2 km).

DRAINAGE AREA.--10.9 mi² (28.2 km²).

PERIOD OF RECORD.--April 1969 to current year.

GAGE.--Water-stage and rainfall recorders. Concrete control since Sept. 11, 1969. Altitude of gage is 760 ft (232 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 238 ft³/s (6.74 m³/s) Apr. 28, gage height, 3.34 ft (1.018 m), from rating curve extended above 100 ft³/s (2.83 m³/s) as explained below; no flow for many days.

Period of record: Maximum discharge, 583 ft³/s (16.5 m³/s) Oct. 21, 1970, gage height, 4.66 ft (1.420 m), caused by mine regulations, from rating curve extended above 100 ft³/s (2.83 m³/s) by step-backwater method; no flow for several days each year.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Rainfall records collected at site since April 1969 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

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	.68	2.4	19	16	3.2	12	20	36	22	1.9	1.9	0
2	.05	1.7	18	14	5.1	14	19	26	18	1.3	1.5	0
3	0	1.3	16	15	7.7	15	16	35	14	3.4	1.0	0
4	1.0	1.1	15	18	8.6	14	14	39	12	3.4	.44	0
5	1.0	.75	13	16	11	16	12	35	12	4.0	.17	.82
6	.05	.53	17	14	13	16	9.9	26	8.6	3.6	.06	0
7	0	1.5	20	13	14	17	10	20	9.2	2.8	.14	0
8	0	14	20	12	21	30	14	17	7.0	2.2	.02	0
9	0	12	100	10	34	33	20	18	6.1	1.9	.02	.14
10	0	11	150	9.5	33	25	28	14	4.9	1.6	.03	0
11	0	20	100	9.0	26	18	30	12	4.4	1.5	.03	0
12	0	17	55	8.0	21	16	28	10	4.4	.82	.40	0
13	0	16	40	7.5	17	16	24	8.4	4.6	.52	.14	0
14	0	21	30	7.0	20	16	20	7.0	4.4	.36	.03	0
15	0	23	35	7.5	26	67	18	4.5	4.2	2.6	.29	0
16	0	20	40	7.0	29	103	16	4.6	6.4	.90	.02	0
17	0	17	35	6.5	26	146	17	4.6	11	.52	0	0
18	0	15	30	5.8	22	74	14	3.6	13	.36	0	0
19	1.3	26	27	7.0	20	49	12	3.2	7.6	3.2	0	0
20	.31	40	24	5.5	17	39	11	3.0	4.9	1.8	0	0
21	.05	37	40	4.8	15	36	9.2	2.3	4.6	1.8	0	0
22	0	32	110	5.5	14	34	8.7	1.8	4.0	2.5	0	0
23	0	25	75	5.3	13	35	9.6	24	3.4	5.8	0	0
24	0	16	50	4.6	11	37	9.8	64	2.6	10	0	0
25	0	16	40	3.9	9.9	39	11	98	2.2	13	0	0
26	0	24	35	3.5	9.2	42	12	51	1.9	9.6	0	0
27	.05	28	30	3.7	12	56	95	34	2.3	6.7	0	0
28	1.1	27	26	3.9	12	47	176	39	4.0	4.6	0	0
29	.31	24	23	4.6	-----	38	78	38	2.0	3.4	0	0
30	.10	19	20	3.9	-----	30	49	31	1.3	2.6	0	0
31	.10	-----	18	3.5	-----	24	-----	28	-----	2.2	0	-----
TOTAL	6.10	509.28	1,271	255.5	470.7	1,154	811.2	738.0	207.0	100.88	6.19	.96
MEAN	.20	17.0	41.0	8.24	16.8	37.2	27.0	23.8	6.90	3.25	.20	.032
MAX	1.3	40	150	18	34	146	176	98	22	13	1.9	.82
MIN	0	.53	13	3.5	3.2	12	8.7	1.8	1.3	.36	0	0
CFSM	.02	1.56	3.76	.76	1.54	3.41	2.48	2.18	.63	.30	.02	.003
IN.†	.02	1.74	4.34	.87	1.61	3.94	2.77	2.52	.71	.34	.02	.003
IN.††	2.40	3.99	6.74	1.35	2.77	4.98	5.02	6.46	4.11	3.65	.85	2.69

CAL YR 1972 TOTAL 8,521.44 MEAN 23.3 MAX 360 MIN 0 CFSM 2.14 IN† 29.08
WTR YR 1973 TOTAL 5,530.81 MEAN 15.2 MAX 176 MIN 0 CFSM 1.39 IN† 18.88

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	unknown	-	unknown	4-28	0300	3.34	238
12-22	unknown	-	unknown	5-24	2200	2.88	149
3-17	0245	3.09	188				

† Runoff.

†† Rainfall.

NOTE.--No gage-height record Nov. 11 to Jan. 17.

03204000 Guyandotte River at Branchland, W. Va.

LOCATION.--Lat 38°13'15", long 82°12'10", Lincoln County, on right bank at upstream side of highway bridge at Branchland, opposite mouth of Fourmile Creek, and at mile 34.4 (55.3 km). Records include flow of Fourmile Creek.

DRAINAGE AREA.--1,226 mi² (3,175 km²), includes that of Fourmile Creek.

PERIOD OF RECORD.--July 1915 to September 1922 (1918-22, gage heights only), December 1928 to current year. Prior to October 1959, published as Guyandot River at Branchland. Monthly discharge only for July to September 1916, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 547.91 ft (167.003 m) above mean sea level, adjustment of 1912. Prior to June 20, 1932, nonrecording gage and June 20, 1932, to Oct. 24, 1968, water-stage recorder at site 20 ft (6 m) downstream at same datum. Oct. 1, 1942, to Jan. 23, 1969, auxiliary nonrecording gage and since Jan. 24, 1969, auxiliary water-stage recorder 4.0 mi (6.4 km) upstream from base gage at datum 552.90 ft (168.524 m) above mean sea level.

AVERAGE DISCHARGE.--46 years (1915-17, 1929-73), 1,581 ft³/s (44.77 m³/s), 17.51 in/yr (445 mm/yr).

EXTREMES.--Current year: Maximum discharge, 24,900 ft³/s (705 m³/s) Dec. 11, gage height, 31.37 ft (9.562 m); minimum, 122 ft³/s (3.46 m³/s) Sept. 28, 29, gage height, 3.27 (0.997 m).
Period of record: Maximum discharge, 44,500 ft³/s (1,260 m³/s) Mar. 13, 1963, gage height, 43.83 ft (13.359 m); minimum, 3.6 ft³/s (0.10 m³/s) Oct. 25, 1930, gage height, 2.66 ft (0.811 m).
Flood, probably in 1907, reached a stage of about 44 ft (13.4 m), from floodmark, discharge, 43,500 ft³/s (1,230 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 803: Drainage area. WSP 853: 1918(M). WSP 1335: 1916-17, 1929-30, 1932-35.

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	2,100	2,510	2,140	2,060	1,290	1,490	2,370	5,270	3,090	834	428	170
2	1,620	3,410	1,930	1,840	1,460	1,580	2,340	3,870	2,360	554	398	160
3	908	2,420	1,640	1,660	1,690	1,610	2,190	3,500	1,950	616	452	151
4	642	1,710	1,760	1,790	2,010	1,630	2,180	4,180	1,730	833	410	145
5	582	1,300	1,930	1,960	2,040	1,630	2,080	3,720	1,810	1,030	360	148
6	544	1,030	2,460	2,030	1,970	1,660	2,150	3,070	2,100	1,010	315	154
7	660	1,330	3,010	1,960	2,060	1,790	2,150	2,580	1,830	784	285	164
8	658	1,770	4,580	1,760	2,360	1,960	3,230	2,350	1,890	602	295	148
9	563	1,740	10,900	1,580	3,200	2,130	3,580	4,000	1,440	488	280	148
10	474	1,580	19,400	1,440	3,720	2,310	3,770	3,730	1,170	422	262	178
11	401	1,490	24,100	1,310	3,500	2,210	4,040	3,230	1,030	392	262	215
12	355	1,410	17,800	1,100	2,720	2,070	3,900	2,630	896	422	240	203
13	330	1,290	7,220	950	2,120	1,890	3,300	2,110	1,010	512	240	195
14	312	1,280	4,670	900	2,070	1,710	2,020	1,730	1,450	404	248	199
15	310	1,500	4,370	992	2,810	2,080	2,240	1,470	1,000	428	244	219
16	306	1,650	6,460	1,020	3,060	4,950	1,940	1,270	833	1,080	416	195
17	280	1,540	6,120	952	2,970	13,500	1,780	1,180	976	1,140	416	188
18	264	1,320	4,600	888	2,530	22,700	1,980	1,140	1,750	872	320	199
19	549	1,310	3,560	896	2,230	9,870	2,610	1,060	1,350	623	271	203
20	778	2,150	3,020	1,020	2,030	6,380	2,620	1,020	952	651	320	195
21	640	3,220	2,780	1,050	1,830	5,690	2,310	944	840	693	280	192
22	558	2,850	6,180	1,020	1,660	5,860	2,010	872	848	707	404	174
23	492	2,260	13,000	1,020	1,510	6,040	1,820	1,540	770	805	380	160
24	444	1,720	7,590	1,000	1,390	5,220	1,890	5,700	644	665	350	151
25	414	1,430	5,660	952	1,270	4,450	2,130	9,030	560	976	325	142
26	390	1,980	4,630	896	1,150	4,150	2,400	6,610	506	2,240	285	139
27	510	2,440	4,100	944	1,120	4,870	6,530	4,460	464	2,090	248	133
28	696	2,840	3,560	1,010	1,320	4,700	17,400	3,600	494	1,220	223	124
29	876	2,840	2,980	1,130	-----	3,860	17,300	5,570	524	833	207	127
30	844	2,380	2,580	1,200	-----	3,200	9,330	5,060	470	623	192	178
31	1,690	-----	2,290	1,240	-----	2,720	-----	3,950	-----	506	181	-----
TOTAL	20,190	57,700	187,020	39,570	59,090	135,910	115,590	100,446	36,737	25,055	9,537	5,097
MEAN	651	1,923	6,033	1,276	2,110	4,384	3,853	3,240	1,225	808	308	170
MAX	2,100	3,410	24,100	2,060	3,720	22,700	17,400	9,030	3,090	2,240	452	219
MIN	264	1,030	1,640	888	1,120	1,490	1,780	872	464	392	181	124
CFSM	.53	1.57	4.92	1.04	1.72	3.58	3.14	2.64	1.00	.66	.25	.14
IN.	.61	1.75	5.67	1.20	1.79	4.12	3.51	3.05	1.11	.76	.29	.15
CAL YR 1972	TOTAL	1,064,392	MEAN	2,908	MAX	38,200	MIN	222	CFSM	2.37	IN	32.30
WTR YR 1973	TOTAL	791,942	MEAN	2,170	MAX	24,100	MIN	124	CFSM	1.77	IN	24.03

PEAK DISCHARGE (BASE, 13,000 CFS)

a Backwater.

b Backwater, occurred Apr. 29.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-11	1700	31.37	24,900	3-18	1200	a30.64	23,700
12-23	0800	a22.92	14,300	4-28	2200	b30.31	20,800

03204500 Mud River near Milton, W. Va.

LOCATION.--Lat 38°23'15", long 82°06'46", Cabell County, on right bank 75 ft (23 m) downstream from highway bridge, 700 ft (213 m) downstream from Little Twomile Creek, 0.9 mi (1.4 km) upstream from Charley Creek, 3.4 mi (5.5 km) south of Milton, and at mile 25.3 (40.7 km).

DRAINAGE AREA.--256 mi² (663 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 572.64 ft (174.541 m) above mean sea level, adjustment of 1912, levels by Corps of Engineers. Prior to Nov. 21, 1957, nonrecording gage at site 75 ft (23 m) upstream at same datum.

AVERAGE DISCHARGE.--35 years, 276 ft³/s (7.816 m³/s), 14.64 in/yr (372 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,580 ft³/s (158 m³/s) Dec. 10, gage height, 19.76 ft (6.023 m); minimum, 1.6 ft³/s (0.045 m³/s) Aug. 31 to Sept. 4, gage height, 0.62 (0.189 m).
Period of record: Maximum discharge, 15,100 ft³/s (428 m³/s) Feb. 27, 1962, gage height, 28.60 ft (8.717 m); maximum gage height, 29.35 ft (8.946 m) Feb. 3, 1939, from floodmarks; minimum discharge, 0.01 ft³/s (<0.001 m³/s) Sept. 8, 1957; minimum gage height, 0.06 ft (0.018 m) Sept. 21, 23, 1959.

REMARKS.--Records good.

REVISIONS.--WSP 1555: 1953, drainage area.

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	552	933	518	246	298	132	352	810	378	34	6.9	1.6
2	180	1,410	515	206	450	122	296	507	248	25	6.2	1.6
3	96	458	424	190	559	132	253	885	188	55	6.2	1.6
4	60	258	460	442	492	176	528	837	146	95	5.5	1.6
5	53	183	885	380	420	177	658	676	119	48	5.5	2.7
6	53	136	996	286	374	179	390	364	148	32	5.1	5.5
7	44	114	1,620	235	639	170	318	290	117	24	4.8	6.2
8	37	612	1,570	199	797	237	1,290	316	103	20	4.1	3.7
9	32	680	4,500	174	1,160	282	1,790	2,300	74	16	3.7	3.4
10	27	342	5,360	168	667	275	1,230	1,450	59	14	3.7	3.7
11	23	249	4,480	163	446	249	832	599	50	14	3.4	3.2
12	21	226	1,760	146	332	446	555	390	43	14	5.9	2.9
13	21	188	724	128	280	344	432	282	40	11	32	3.2
14	24	176	500	114	634	271	350	226	37	10	29	14
15	21	240	698	106	2,190	328	292	185	33	9.6	14	13
16	19	217	1,780	111	962	656	251	152	32	9.6	8.2	16
17	16	181	1,000	105	507	1,060	226	138	33	9.2	6.9	10
18	15	152	546	96	360	1,520	217	128	130	7.8	6.6	6.6
19	22	179	430	119	334	859	233	111	96	8.7	5.5	5.1
20	94	933	426	210	276	557	320	141	49	26	4.8	5.5
21	94	579	464	185	255	1,220	255	140	38	24	4.4	4.8
22	62	352	2,160	170	233	1,280	226	125	38	34	11	4.1
23	50	271	2,110	165	217	954	215	292	32	35	8.2	3.7
24	42	219	873	143	194	731	428	641	27	26	6.2	3.7
25	38	194	586	124	168	641	518	1,370	25	20	5.1	3.2
26	34	864	518	111	154	875	1,060	757	21	15	4.1	2.7
27	30	771	573	185	146	1,220	2,180	515	18	16	3.4	2.9
28	35	634	500	336	141	1,060	5,100	402	16	13	2.9	3.4
29	111	1,110	394	340	-----	608	3,300	344	18	10	2.4	3.7
30	108	678	324	342	-----	454	974	271	35	8.2	2.1	6.2
31	82	-----	284	288	-----	368	-----	819	-----	6.9	1.9	-----
TOTAL	2,096	13,539	37,978	6,213	13,685	17,583	25,069	16,463	2,391	691.0	219.7	149.5
MEAN	67.6	451	1,225	200	489	567	836	531	79.7	22.3	7.09	4.98
MAX	552	1,410	5,360	442	2,190	1,520	5,100	2,300	378	95	32	16
MIN	15	114	284	96	141	122	215	111	16	6.9	1.9	1.6
CFSM	.26	1.76	4.79	.78	1.91	2.21	3.27	2.07	.31	.09	.03	.02
IN.	.30	1.97	5.52	.90	1.99	2.56	3.64	2.39	.35	.10	.03	.02

CAL YR 1972 TOTAL 167,853.8 MEAN 459 MAX 5,400 MIN 3.9 CFSM 1.79 IN 24.39
WTR YR 1973 TOTAL 136,077.2 MEAN 373 MAX 5,360 MIN 1.6 CFSM 1.46 IN 19.77

PEAK DISCHARGE (BASE, 3,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	0100	19.76	5,580	4-28	1500	19.57	5,480

03206000 Ohio River at Huntington, W. Va.

LOCATION.--Lat 38°24'48", long 82°30'02", Lawrence County, Ohio, on right bank at lock 28 at Sybene, Ohio, 0.1 mi (0.2 km) upstream from Fourpole Creek, 3.0 mi (4.8 km) downstream from Symmes Creek, and at mile 311.6 (501.4 km), measured downstream from Pittsburgh, Pa.

DRAINAGE AREA.--55,900 mi² (144,800 km²), approximately.

PERIOD OF RECORD.--August 1934 to current year (since October 1968, no low-flow records). Gage-height records collected at same site since 1913 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 490.263 ft (149.432 m) above mean sea level, Sandy Hook datum. Prior to July 8, 1942, at datum 1.737 ft (0.529 m) higher. Auxiliary water-stage recorder 4.7 mi (7.6 km) upstream from base gage at datum 490.102 ft (149.383 m) above mean sea level, Sandy Hook datum.

EXTREMES.--Current year: Maximum daily discharge, 385,000 ft³/s (1,090 m³/s) Dec. 10; maximum gage height, 49.22 ft (15.002 m) Dec. 11; minimum discharge, not determined; minimum gage height 24.04 ft (7.327 m) Aug. 23.

Period of record: Maximum discharge, 654,000 ft³/s (1,850 m³/s) Jan. 28, 1937; maximum gage height, 69.45 ft (21.168 m) Jan. 27, 1937, present datum; minimum daily discharge determined, 3,200 ft³/s (90.6 m³/s) Sept. 6, 13, Nov. 2, 1934, Oct. 3, 1935, Oct. 1, 1937.

REMARKS.--Records fair. Discharge less than 50,000 ft³/s (1,420 m³/s) on days for which no discharge is shown. Flow partly regulated by locks, dams, and reservoirs upstream.

REVISIONS (WATER YEARS).--WSP 853: 1934, 1936. WSP 893: Drainage area. WSP 1305: 1935(M), 1939(M).

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	45,000	64,000	119,000	102,000	116,000	67,400	110,000	280,000	152,000			
2	61,000	110,000	110,000	88,500	119,000	74,200	105,000	190,000	128,000			
3	64,000	120,000	102,000	82,900	142,000	72,300	105,000	170,000	102,000			
4	43,000	135,000	90,600	113,000	200,000	82,000	125,000	175,000	70,700			
5	36,000	120,000	98,600	134,000	235,000	110,000	145,000	167,000	74,200			
6	36,000	110,000	117,000	138,000	210,000	120,000	160,000	143,000	106,000			
7	67,000	76,000	162,000	136,000	170,000	139,000	170,000	126,000	115,000			
8	78,000	99,700	220,000	124,000	148,000	142,000	180,000	108,000	101,000			
9	69,000	124,000	350,000	97,200	155,000	140,000	200,000	135,000	79,700			
10	46,000	150,000	385,000	64,500	158,000	135,000	227,000	171,000	76,900			
11	-	148,000	380,000	62,000	150,000	124,000	227,000	177,000	67,000			
12	-	136,000	350,000	50,500	122,000	112,000	207,000	167,000	47,500			
13	-	116,000	300,000	37,200	102,000	104,000	190,000	161,000	59,200			
14	-	97,800	270,000	36,900	99,500	98,800	178,000	148,000	66,700			
15	-	120,000	240,000	38,500	131,000	90,000	162,000	136,000	59,900			
16	-	163,000	260,000	42,800	143,000	110,000	144,000	123,000	44,800			
17	-	170,000	250,000	39,100	142,000	200,000	127,000	109,000	51,700			
18	-	147,000	240,000	47,000	114,000	280,000	125,000	93,000	65,000			
19	-	134,000	200,000	51,500	73,600	300,000	136,000	80,700	86,300			
20	-	144,000	180,000	57,700	78,200	290,000	136,000	68,100	83,700			
21	-	159,000	180,000	65,200	65,500	260,000	130,000	69,400	71,400			
22	-	164,000	270,000	74,700	70,800	230,000	106,000	70,300	69,200			
23	-	149,000	280,000	82,100	70,200	200,000	82,700	66,200	60,000			
24	-	131,000	300,000	87,900	62,500	165,000	131,000	74,900	62,100			
25	-	108,000	270,000	82,200	63,800	158,000	143,000	107,000	45,400			
26	-	108,000	220,000	79,300	55,200	152,000	151,000	136,000	40,600			
27	-	126,000	166,000	73,500	52,100	151,000	168,000	130,000	39,200			
28	-	142,000	158,000	107,000	51,000	152,000	260,000	103,000	33,500			
29	-	145,000	149,000	129,000	-----	150,000	370,000	129,000	40,300			
30	-	136,000	136,000	130,000	-----	140,000	340,000	150,000	32,900			
31	-	-----	117,000	133,000	-----	129,000	-----	186,000	-----			
TOTAL	-	3,852.5M	6,670.2M	2,587.2M	3,299.4M	4,677.7M	5,040.7M	4,149.6M	2,131.9M	-	-	-
MEAN	-	128,400	215,200	83,460	117,800	150,900	168,000	133,900	71,060	-	-	-
MAX	-	170,000	385,000	138,000	235,000	300,000	370,000	280,000	152,000	-	-	-
MIN	-	64,000	90,600	36,900	51,000	67,400	82,700	66,200	32,900	-	-	-
CAL YR 1972	TOTAL	-	MEAN	-	MAX	385,000	MIN	-	CFSM	-	IN	-
WTR YR 1973	TOTAL	-	MEAN	-	MAX	385,000	MIN	-	CFSM	-	IN	-

03206600 East Fork Twelvepole Creek near Dunlow, W. Va.

LOCATION.--Lat 38°01'02", long 82°17'46", Wayne County, on left bank 0.2 mi (0.3 km) upstream from Maynard Branch, 0.9 mi (1.4 km) downstream from McComas Branch, 1.5 mi (2.4 km) upstream from Devilstrace Branch, and 7.5 mi (12.1 km) east of Dunlow.

DRAINAGE AREA.--38.2 mi² (98.9 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 710.00 ft (216.408 m) above mean sea level. Prior to Dec. 22, 1964, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--9 years, 47.8 ft³/s (1.354 m³/s), 16.99 in/yr (432 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,420 ft³/s (40.2 m³/s) Dec. 10, gage height, 10.81 ft (3.295 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s); minimum, 0.01 ft³/s (<0.001 m³/s) Sept. 8, 9, gage height, 4.55 ft (1.387 m).

Period of record: Maximum discharge, 2,500 ft³/s (70.8 m³/s) Feb. 26, 1972, gage height, 13.00 ft (3.962 m), from rating curve extended above 1,300 ft³/s (36.8 m³/s); minimum, 0.01 ft³/s (<0.001 m³/s) July 2-13, 1966, Sept. 18-28, 1967, Sept. 8, 9, 1973; minimum gage height, 4.44 ft (1.353 m) Sept. 26, 27, 1967.

REMARKS.--Records good.

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	21	66	90	48	43	25	64	105	71	6.9	1.8	.16
2	9.4	56	77	39	60	25	56	77	50	7.6	2.7	.10
3	6.6	35	66	38	77	29	47	90	35	7.4	1.8	.08
4	6.6	24	128	49	86	28	55	83	25	14	1.4	.05
5	9.4	17	139	42	82	28	52	70	21	13	1.1	.04
6	6.9	13	280	41	82	26	46	58	30	6.4	.93	.03
7	5.0	23	237	35	82	26	55	49	28	5.0	.93	.02
8	4.3	146	378	32	138	31	285	81	20	3.6	.93	.02
9	3.6	81	819	27	176	30	213	203	16	2.9	.85	.38
10	3.1	53	1,040	26	132	38	189	100	14	3.3	.85	1.2
11	2.4	48	412	24	99	46	135	74	12	3.5	.85	.77
12	3.1	37	185	22	76	55	108	53	9.7	2.7	.85	.64
13	2.9	31	125	20	61	46	83	41	9.1	2.0	.93	.53
14	2.9	35	93	21	112	45	65	32	7.9	1.7	1.2	3.5
15	2.9	31	231	24	174	123	54	25	7.4	4.3	1.1	3.9
16	3.1	27	292	21	132	174	47	22	7.4	4.5	1.1	1.7
17	3.6	24	159	20	100	418	47	23	16	2.6	.93	1.2
18	4.1	21	113	20	88	255	45	19	21	1.8	.85	2.0
19	20	59	90	27	68	151	43	17	12	1.6	.77	1.7
20	14	127	86	24	57	117	40	24	8.4	1.6	.70	1.4
21	9.4	89	94	22	50	187	37	18	9.1	1.6	.64	1.1
22	7.9	69	352	24	43	191	35	16	8.4	3.1	.64	.93
23	7.1	54	252	22	39	168	39	268	6.9	4.1	.64	1.0
24	6.9	42	152	21	33	165	55	330	5.6	2.0	.64	.93
25	5.8	42	134	20	29	159	90	315	5.0	2.0	.64	.93
26	5.4	102	123	19	28	227	141	181	3.9	2.0	.53	.85
27	5.2	90	117	28	28	252	708	110	3.6	1.8	.48	.70
28	17	110	101	28	26	165	888	96	7.1	1.4	.43	.64
29	17	124	82	36	-----	120	288	66	6.1	1.2	.38	.64
30	13	107	68	36	-----	95	152	72	5.4	1.1	.28	.85
31	11	-----	59	45	-----	75	-----	102	-----	1.1	.23	-----
TOTAL	240.6	1,783	6,574	901	2,201	3,520	4,162	2,820	482.0	117.8	28.10	27.99
MEAN	7.76	59.4	212	29.1	78.6	114	139	91.0	16.1	3.80	.91	.93
MAX	21	146	1,040	49	176	418	888	330	71	14	2.7	3.9
MIN	2.4	13	59	19	26	25	35	16	3.6	1.1	.23	.02
CFSM	.20	1.56	5.55	.76	2.06	2.98	3.64	2.38	.42	.10	.02	.02
IN.	.23	1.74	6.40	.88	2.14	3.43	4.05	2.75	.47	.11	.03	.03

CAL YR 1972 TOTAL 31,292.75 MEAN 85.5 MAX 1,770 MIN .77 CFSM 2.24 IN 30.47
WTR YR 1973 TOTAL 22,857.49 MEAN 62.6 MAX 1,040 MIN .02 CFSM 1.64 IN 22.26

PEAK DISCHARGE (BASE, 840 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1030	10.81	1,420	4-27	2230	10.60	1,340

03206780 East Lynn Lake near East Lynn, W. Va.

LOCATION.--Lat 38°08'43", long 82°22'58", Wayne County, at East Lynn Dam on East Fork Twelvepole Creek, 0.1 mi (0.2 km) upstream from Laurel Creek, 1.5 mi (2.4 km) south of East Lynn, and at mile 42.0 (67.6 km).

DRAINAGE AREA.--133 mi² (344 km²).

PERIOD OF RECORD.--March 1972(corrected) to current year (monthend contents only).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level, levels by Corps of Engineers.

EXTREMES.--Current year: Maximum contents, 30,960 acre-ft (38.2 hm³) Dec. 12, elevation, 673.50 ft (205.283 m); minimum, 11,690 acre-ft (14.4 hm³) Feb. 18, elevation, 655.98 ft (199.943 m).

Period of record: Maximum contents, 30,960 acre-ft (38.2 hm³) Dec. 12, 1972, elevation, 673.50 ft (205.283 m); minimum since first filling, 10,810 acre-ft (13.3 hm³) Apr. 11, 1972, elevation, 654.88 ft (199.607 m).

REMARKS.--Reservoir is formed by rockfill dam with impervious core, completed in 1972; closure of dam was made and storage began in March 1972. Spillway is uncontrolled saddle spillway, crest elevation, 701.0 ft (213.66 m). Flow is controlled by one 2.5-ft (0.76 m) diameter bypass valve and three 5.67 ft (1.727 m) wide by 10.0 ft (3.05 m) high gates. Total level-pool capacity at elevation 701.0 ft (213.66 m), spillway crest, is 82,500 acre-ft (102 hm³) of which 70,790 acre-ft (87.3 hm³) is controlled storage above elevation 656.0 ft (199.95 m), minimum-pool elevation. Reservoir is used for flood control, recreation, and low-flow augmentation.

COOPERATION.--Records furnished by Corps of Engineers.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)	(equivalent in cfs)
Sept. 30.....	663.18	18,400	-	-
Oct. 31.....	662.38	17,570	-830	-13
Nov. 30.....	656.36	12,010	-5,560	-93
Dec. 31.....	658.68	14,110	+2,100	+34
CAL YR 1972	-	-	+14,110	+19
Jan. 31.....	656.53	12,150	-1,960	-32
Feb. 28.....	656.12	11,810	-340	-6
Mar. 31.....	661.23	16,430	+4,620	+75
Apr. 30.....	662.80	18,010	+1,580	+27
May 31.....	662.27	17,460	-550	-9
June 30.....	662.68	17,880	+420	+7
July 31.....	661.92	17,110	-770	-12
Aug. 31.....	661.20	16,400	-710	-12
Sept. 30.....	660.76	15,970	-430	-7
WTR YR 1973			-2,430	-3

03206790 East Fork Twelvepole Creek below East Lynn Dam, W. Va.

LOCATION.--Lat 38°08'52", long 82°23'00", Wayne County, on left bank 800 ft (244 m) downstream from Laurel Creek, 1,700 ft (518 m) downstream from East Lynn Dam, 1.4 mi (2.3 km) south of East Lynn, and at mile 41.7 (67.1 km).

DRAINAGE AREA.--138 mi² (357 km²).

PERIOD OF RECORD.--June 1962 to current year. Prior to October 1967 published as "near East Lynn."

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft (182.880 m) above mean sea level, levels by Corps of Engineers. Prior to Oct. 1, 1967, water-stage recorder at site 0.7 mi (1.1 km) downstream at same datum.

AVERAGE DISCHARGE.--11 years, 150 ft³/s (4.248 m³/s), 14.76 in/yr (375 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,510 ft³/s (71.1 m³/s) Dec. 13, gage height, 22.53 ft (6.867 m); minimum, 4.6 ft³/s (0.13 m³/s) June 14, gage height, 11.00 ft (3.353 m).
 Period of record: Maximum discharge, 4,960 ft³/s (140 m³/s) Mar. 12, 1968, gage height, 31.50 ft (9.601 m), from floodmarks; no flow Sept. 10-27, 1964.
 Maximum discharge known since at least 1913, about 13,000 ft³/s (368 m³/s) Feb. 3, 1939, gage height, about 37 ft (11.3 m), from floodmarks, from rating curve based on conveyance-slope study. Flood of Feb. 28, 1962, reached a stage of 36.25 ft (11.049 m), from floodmarks, discharge, about 12,000 ft³/s (340 m³/s).

REMARKS.--Records fair. Flow regulated since March 1972 by East Lynn Lake (see sta 03206780).

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	180	296	188	218	144	88	22	748	313	55	5.8	8.0
2	179	409	16	150	200	88	21	238	172	72	5.6	7.8
3	152	337	13	62	290	89	20	227	129	74	8.8	7.1
4	116	187	29	95	324	89	182	241	70	68	14	7.6
5	106	187	135	95	356	89	257	249	44	84	12	7.6
6	63	160	404	94	338	89	249	246	44	95	12	7.3
7	26	139	834	92	319	89	251	244	44	94	12	7.1
8	16	440	1,200	91	329	90	809	277	43	92	11	7.1
9	15	626	1,080	90	520	90	1,140	688	42	44	8.5	7.3
10	14	407	107	90	604	94	966	862	42	18	7.3	7.1
11	14	220	46	90	422	94	526	574	42	18	7.1	7.1
12	9.7	152	217	89	218	33	335	265	41	18	7.3	7.1
13	6.8	140	2,140	89	179	17	267	155	25	18	7.3	7.1
14	6.8	141	2,460	89	216	16	179	71	11	16	7.6	8.5
15	7.1	141	2,160	52	550	38	145	70	9.0	16	7.6	7.3
16	7.3	140	2,070	37	713	279	145	69	9.0	15	7.6	7.3
17	7.6	140	1,820	73	610	675	104	70	10	15	7.8	7.6
18	7.6	139	1,340	96	268	794	136	69	14	11	7.3	8.0
19	8.5	154	416	101	164	704	187	69	16	9.7	7.6	8.0
20	8.5	384	272	101	164	564	160	72	16	10	7.6	7.8
21	8.5	492	244	100	204	594	131	70	16	8.8	7.6	7.6
22	8.3	447	796	268	196	534	131	69	16	8.8	7.6	7.8
23	8.0	389	1,100	412	152	474	131	295	16	8.8	7.6	8.0
24	8.3	272	677	351	135	468	182	978	15	6.6	7.6	8.0
25	8.3	150	400	212	103	472	220	1,280	15	5.6	7.6	8.0
26	8.3	242	376	163	89	564	490	568	15	5.6	7.6	8.3
27	8.3	414	376	89	89	691	1,200	338	16	5.6	7.8	8.3
28	10	429	372	89	88	560	1,900	338	19	5.6	7.8	8.3
29	18	454	272	91	-----	184	1,910	268	33	5.6	7.8	8.5
30	59	474	220	122	-----	22	1,640	168	35	5.6	8.0	9.0
31	101	-----	218	142	-----	21	-----	338	-----	5.6	8.0	-----
TOTAL	1,196.9	8,702	21,998	3,933	7,984	8,693	14,036	10,214	1,332.0	914.9	256.8	231.6
MEAN	38.6	290	710	127	285	280	468	329	44.4	29.5	8.28	7.72
MAX	180	626	2,460	412	713	794	1,910	1,280	313	95	14	9.0
MIN	6.8	139	13	37	88	16	20	69	9.0	5.6	5.6	7.1

CAL YR 1972 TOTAL 92,113.2 MEAN 252 MAX 2,460 MIN 6.0 MEAN† 271 CFSM† 1.96 IN† 26.68
 WTR YR 1973 TOTAL 79,492.2 MEAN 218 MAX 2,460 MIN 5.6 MEAN† 215 CFSM† 1.56 IN† 21.18

† Adjusted for change in contents in East Lynn Lake.

03207020 Twelvepole Creek below Wayne, W. Va.

LOCATION.--Lat 38°14'56", long 82°26'06", Wayne County, on left bank just downstream from highway bridge on Secondary State Route 52/43, 1.9 mi (3.1 km) northeast of Wayne, and at mile 29.2 (47.0 km).

DRAINAGE AREA.--300 mi² (777 km²).

PERIOD OF RECORD.--July 1915 to September 1922 (gage heights only, October 1917 to September 1922), October 1928 to September 1931, August 1946 to September 1954, October 1955 to current year. Prior to October 1966 published as "at Wayne." Gage-height records collected at site 2.0 mi (3.2 km) upstream from 1924 to March 1949 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 560.00 ft (170.688 m) above mean sea level. Prior to Aug. 29, 1957, nonrecording gage, and Aug. 29, 1957, to Sept. 30, 1966, water-stage recorder at site 2.0 mi (3.2 km) upstream at datum 16.53 ft (5.038 m) higher. Oct. 1, 1966, to Dec. 15, 1966, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--31 years (1915-17, 1928-31, 1946-54, 1955-73), 326 ft³/s (9.232 m³/s), 14.76 in/yr (375 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 5,240 ft³/s (148 m³/s) Dec. 9, gage height, 18.68 ft (5.694 m); minimum, 6.0 ft³/s (0.17 m³/s) Sept. 26, 27; minimum gage height, 3.54 ft (1.079 m) Aug. 31, Sept. 26, 27.

Period of record: Maximum discharge, 15,900 ft³/s (450 m³/s) Feb. 28, 1962, gage height, 29.46 ft (8.979 m), site and datum then in use, from rating curve extended above 9,500 ft³/s (269 m³/s) on basis of slope-area measurement of peak flow; no flow Oct. 21-27, Nov. 2, 1953, Nov. 4, 1959.

Flood of June 30, 1928, reached a stage of 28.3 ft (8.63 m), former site and datum, discharge, 14,000 ft³/s (396 m³/s) and flood of Feb. 4, 1939, reached a stage of 31.03 ft (9.458 m), former site and datum, discharge, 22,000 ft³/s (623 m³/s), from readings by National Weather Service.

REMARKS.--Records good. Flow regulated since March 1972 by East Lynn Lake (see sta 03206780).

REVISIONS (WATER YEARS).--WSP 1335: 1916-17, 1930.

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	311	476	649	372	250	177	275	1,480	730	64	16	8.5
2	248	605	305	315	330	174	242	637	418	84	27	9.0
3	212	524	251	238	511	181	212	595	288	92	21	9.0
4	157	357	375	365	637	188	568	568	228	96	17	9.5
5	134	223	527	300	616	190	652	499	154	105	19	10
6	114	256	927	262	628	192	493	445	152	125	17	10
7	61	195	1,410	236	664	188	451	406	168	112	15	9.5
8	41	616	2,300	220	808	206	1,250	424	144	106	15	9.0
9	33	879	4,580	196	1,040	208	1,930	1,180	125	95	14	14
10	30	688	3,410	183	1,120	310	1,850	1,350	112	52	14	14
11	28	407	2,270	181	886	282	1,220	1,070	98	65	11	10
12	27	270	1,070	172	523	260	769	532	92	55	10	9.5
13	25	228	1,940	167	375	208	625	365	84	42	10	9.0
14	23	228	2,620	159	811	192	436	220	62	34	10	28
15	21	234	2,780	156	1,360	481	335	190	48	32	10	19
16	20	225	2,810	124	1,290	631	305	172	43	28	11	12
17	20	214	2,660	127	1,060	1,610	262	163	42	28	10	11
18	19	207	2,140	161	646	1,790	275	152	51	28	9.5	10
19	24	310	919	186	395	1,400	322	144	54	21	10	10
20	33	811	589	214	352	1,050	340	185	50	26	10	9.0
21	36	811	553	192	345	1,460	272	165	42	22	10	9.0
22	35	718	1,420	238	340	1,280	258	143	44	20	9.5	9.5
23	29	587	1,930	487	285	1,100	265	820	52	18	9.0	8.0
24	27	483	1,460	466	244	979	390	1,640	42	21	9.0	8.0
25	25	313	892	270	218	1,010	685	2,390	34	22	8.5	7.0
26	24	432	796	248	186	1,420	844	1,590	31	16	9.0	6.5
27	22	619	802	168	181	1,380	2,370	834	29	15	8.5	6.5
28	33	907	739	170	177	1,240	4,030	742	32	16	8.5	7.0
29	41	904	607	185	-----	754	3,750	577	55	14	8.5	7.5
30	57	830	442	196	-----	362	2,430	502	77	12	9.0	9.5
31	113	-----	406	222	-----	295	-----	1,020	-----	12	8.5	-----
TOTAL	2,023	14,557	44,579	7,176	16,278	21,198	28,106	21,200	3,581	1,478	374.5	308.5
MEAN	65.3	485	1,438	231	581	684	937	684	119	47.7	12.1	10.3
MAX	311	907	4,580	487	1,360	1,790	4,030	2,390	730	125	27	28
MIN	19	195	251	124	177	174	212	143	29	12	8.5	6.5

CAL YR 1972 TOTAL 198,387.0 MEAN 542 MAX 6,270 MIN 11 MEAN† 561 CFSM† 1.87 IN† 25.45
WTR YR 1973 TOTAL 160,859.0 MEAN 441 MAX 4,580 MIN 6.5 MEAN† 438 CFSM† 1.46 IN† 19.82

† Adjusted for change in contents in East Lynn Lake.

03213000 Tug Fork at Litwar, W.Va.

LOCATION.--Lat 37°29'05", long 81°50'40", McDowell County, on left bank 200 ft (61 m) downstream from War Branch, 0.5 mi (0.8 km) downstream from Litwar, 2.2 mi (3.5 km) northwest of Iaeger, 2.7 mi (4.3 km) downstream from Dry Fork, and at mile 105.6 (169.9 km).

DRAINAGE AREA.-- 502 mi² (1,300 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 936.36 ft (285.403 m) above mean sea level. Prior to Oct. 16, 1942, nonrecording gage at highway bridge 0.5 mi (0.8 km) upstream at same datum.

AVERAGE DISCHARGE.--43 years, 534 ft³/s (15.12 m³/s), 14.45 in/yr (367 mm/yr).

EXTREMES.--Current year: Maximum discharge, 18,700 ft³/s (530 m³/s) Mar. 17, gage height, 12.93 ft (3.941 m); minimum, 75 ft³/s (2.12 m³/s) Sept. 28, 29, gage height, 0.87 ft (0.265 m).
Period of record: Maximum discharge, 35,700 ft³/s (1,010 m³/s) Jan. 29, 1957, gage height, 21.60 ft (6.584 m); minimum observed, 11 ft³/s (0.31 m³/s) Oct. 3, 4, 7, 1930.

REMARKS.--Records good.

REVISIONS (WATER YEARS).-- WSP 728: 1931. WSP 1335: 1930, 1931-35(M), 1937, 1943-46, 1947(M), 1948, 1949(P), 1950, 1952-53.

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	1,290	1,320	653	767	454	560	1,010	1,600	869	291	285	111
2	611	1,770	597	700	611	500	970	1,350	761	447	327	108
3	424	1,010	541	692	794	500	884	1,320	671	434	261	105
4	340	724	527	740	676	500	893	1,280	761	644	210	100
5	1,120	597	514	692	611	520	920	1,170	617	468	173	139
6	1,190	502	520	668	611	540	866	1,070	574	357	279	127
7	724	460	597	618	632	580	857	968	542	303	220	116
8	541	576	611	590	708	740	1,030	923	482	255	185	108
9	430	576	2,720	562	1,120	676	1,060	986	526	235	159	130
10	388	569	8,690	508	1,100	632	1,150	860	468	220	155	162
11	292	618	5,480	502	920	618	1,120	815	427	297	165	122
12	280	618	2,700	484	767	660	1,040	743	526	240	143	113
13	280	597	1,940	442	680	625	950	680	447	193	215	103
14	265	646	1,580	448	640	604	848	617	395	181	461	116
15	255	611	1,590	442	820	911	776	574	357	388	297	116
16	245	548	2,060	436	880	7,060	716	534	1,030	414	201	103
17	240	527	1,770	418	800	12,000	812	558	689	339	173	98
18	230	490	1,420	412	680	3,660	911	542	608	261	162	113
19	430	502	1,230	442	660	2,440	884	482	447	210	152	139
20	454	660	1,130	466	620	1,940	794	475	434	205	185	105
21	364	653	1,190	436	700	1,800	716	440	421	215	321	93
22	328	625	2,950	442	660	1,800	668	427	482	201	230	88
23	304	597	2,740	454	620	1,630	632	905	421	185	197	88
24	286	534	1,980	448	500	1,460	700	1,750	357	181	169	86
25	255	514	1,600	418	460	1,350	684	1,810	333	447	159	91
26	245	639	1,350	400	450	1,270	1,000	1,310	303	1,090	149	83
27	245	740	1,230	442	540	1,360	3,620	1,270	291	503	139	81
28	382	732	1,090	436	600	1,260	4,810	2,400	351	327	133	77
29	460	684	980	472	-----	1,140	2,950	2,140	327	245	125	91
30	436	646	902	454	-----	1,090	2,050	1,360	267	205	119	152
31	394	-----	857	448	-----	980	-----	1,090	-----	189	113	-----
TOTAL	13,728	20,285	53,739	15,879	19,314	51,406	36,321	32,449	15,184	10,170	6,262	3,264
MEAN	443	676	1,734	512	690	1,658	1,211	1,047	506	328	202	109
MAX	1,290	1,770	8,690	767	1,120	12,000	4,810	2,400	1,030	1,090	461	162
MIN	230	460	514	400	450	500	632	427	267	181	113	77
CFSM	.88	1.35	3.45	1.02	1.37	3.30	2.41	2.09	1.01	.65	.40	.22
IN.	1.02	1.50	3.98	1.18	1.43	3.81	2.69	2.40	1.13	.75	.46	.24

CAL YR 1972 TOTAL 385,005 MEAN 1,052 MAX 11,000 MIN 162 CFSM 2.10 IN 28.53
WTR YR 1973 TOTAL 278,001 MEAN 762 MAX 12,000 MIN 77 CFSM 1.52 IN 20.60

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1800	9.83	12,800	3-17	0300	12.93	18,700

03213500 Panther Creek near Panther, W. Va.

LOCATION.--Lat 37°26'45", long 81°52'15", McDowell County, on left bank 200ft (61 m) downstream from Cub Branch, 2.1 mi (3.4 km) upstream from Trace Fork, 3.0 mi (4.8 km) southwest of Panther, and at mile 4.1 (6.6 km).

DRAINAGE AREA.--30.8 mi² (79.8 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 1,050 ft (320 m) from topographic map.

AVERAGE DISCHARGE.--27 years, 35.6 ft³/s (1.008 m³/s), 15.70 in/yr (399 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,510 ft³/s (71.1 m³/s) Mar. 16, gage height, 8.70 ft (2.652 m), minimum, 0.54 ft³/s (0.015 m³/s) Sept. 28, gage height, 1.65 ft (0.503 m).

Period of record: Maximum discharge, 4,600 ft³/s (130 m³/s) Mar. 7, 1967, gage heights, 10.71 ft (3.264 m), from rating curve extended above 2,800 ft³/s (79.3 m³/s) on basis of slope-area measurement at gage height 10.67 ft (3.252 m); no flow at times during August and September 1955.

REMARKS.-- Records good.

REVISIONS (WATER YEARS).--WSP 1505: 1955(P). WSP 1908: 1955(M), 1957(M).

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	37	125	37	31	22	17	56	69	34	13	3.6	2.0
2	17	104	30	28	26	17	60	53	27	15	4.2	2.0
3	12	57	27	24	27	22	52	59	25	13	3.9	2.0
4	8.7	37	26	27	24	18	55	55	20	12	2.8	2.0
5	27	29	24	26	26	20	55	49	33	9.5	2.4	2.1
6	26	22	29	27	30	19	56	42	60	7.4	2.7	2.2
7	20	21	34	25	32	20	57	37	38	7.1	2.5	2.2
8	14	34	37	23	50	94	55	36	25	5.1	3.2	2.0
9	10	39	439	22	81	75	50	39	22	4.4	2.3	3.0
10	7.6	37	682	21	71	54	52	32	18	3.9	2.7	3.4
11	6.0	37	300	19	50	44	47	29	12	4.0	2.5	3.4
12	5.2	32	133	18	40	41	47	25	9.9	4.7	2.4	2.2
13	5.5	30	87	17	32	37	42	22	7.4	3.8	2.7	2.1
14	3.7	37	64	16	33	33	36	20	6.4	4.4	4.9	4.2
15	3.0	40	96	15	38	144	34	17	6.6	12	4.5	3.2
16	3.0	37	169	15	39	890	31	14	8.2	12	2.9	2.4
17	3.3	33	108	14	38	714	44	18	8.2	6.0	3.3	2.4
18	2.9	27	75	14	36	242	70	14	6.0	1.8	3.6	3.9
19	21	30	57	18	35	140	70	15	4.0	1.2	3.3	2.9
20	20	72	47	18	32	102	61	17	6.9	3.8	6.9	2.3
21	17	72	67	18	29	105	52	12	5.8	5.8	6.2	2.2
22	12	57	350	24	27	130	46	11	12	5.8	5.3	2.2
23	10	40	201	20	27	108	42	72	6.9	4.0	4.2	2.1
24	9.5	32	103	19	24	88	58	175	3.0	4.0	4.4	2.1
25	7.6	32	76	18	20	79	62	124	3.4	29	3.6	3.6
26	6.6	81	63	18	19	71	79	75	5.1	21	3.3	2.0
27	6.2	92	53	20	20	77	490	56	5.6	8.9	3.4	1.2
28	25	67	47	20	18	77	421	232	11	5.1	3.2	1.5
29	29	45	39	23	-----	64	185	111	12	4.4	3.0	1.5
30	24	41	37	22	-----	56	98	65	7.1	3.3	2.3	2.8
31	21	-----	37	22	-----	50	-----	46	-----	3.3	2.1	-----
TOTAL	420.8	1,439	3,574	642	946	3,648	2,563	1,641	449.5	238.7	108.3	73.1
MEAN	13.6	48.0	115	20.7	33.8	118	85.4	52.9	15.0	7.70	3.49	2.44
MAX	37	125	682	31	81	890	490	232	60	29	6.9	4.2
MIN	2.9	21	24	14	18	17	31	11	3.0	1.2	2.1	1.2
CFSM	.44	1.56	3.73	.67	1.10	3.83	2.77	1.72	.49	.25	.11	.08
IN.	.51	1.74	4.32	.78	1.14	4.41	3.10	1.98	.54	.29	.13	.09

CAL YR 1972 TOTAL 22,465.1 MEAN 61.4 MAX 855 MIN 1.2 CFSM 1.99 IN 27.13
 WTR YR 1973 TOTAL 15,743.4 MEAN 43.1 MAX 890 MIN 1.2 CFSM 1.40 IN 19.01

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	1300	6.41	945	3-16	2045	8.70	2,510

03213700 Tug Fork at Williamson, W. Va.

LOCATION.--Lat 37°40'21", long 82°16'50", Pike County, Ky., on left bank at Williamson, 100 ft (30 m) upstream from bridge on U.S. Highway 119, and 0.8 mi (1.3 km) downstream from Pond Creek.

DRAINAGE AREA.--932 mi² (2,414 km²).

PERIOD OF RECORD.--October 1967 to current year. Gage-height records collected in this vicinity since 1926 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 620.90 ft (189.250 m) above mean sea level, Ohio River datum, levels by Corps of Engineers. Prior to Jan. 21, 1969, at datum 0.92 ft (0.280 m) lower.

AVERAGE DISCHARGE.--6 years, 1,089 ft³/s (30.84 m³/s), 15.87 in/yr (403 mm/yr).

EXTREMES.--Current year: Maximum discharge, 23,800 ft³/s (674 m³/s) Mar. 17, gage height, 32.65 ft (9.952 m); minimum, 109 ft³/s (3.09 m³/s) Sept. 28, 29, gage height, 2.33 ft (0.710 m).
 Period of record: Maximum discharge, 23,800 ft³/s (674 m³/s) Mar. 17, 1973, gage height, 32.65 ft (9.952 m); minimum, 59 ft³/s (1.67 m³/s) Oct. 18-20, 1969, gage height, 2.04 ft (0.622 m).
 Floods of Jan. 30, 1957, Mar. 12, 1963, and Mar. 7, 1967, reached stages of 43.6 ft (13.29 m), 44.5 ft (13.56 m), and 40.7 ft (12.41 m) respectively, from reading by National Weather Service.

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	3,430	1,860	1,380	1,580	885	860	1,570	2,910	1,460	973	330	158
2	1,650	3,950	1,240	1,400	885	840	1,650	2,230	1,190	1,240	420	148
3	990	2,600	1,140	1,340	1,180	840	1,520	2,380	1,020	820	429	140
4	708	1,800	1,100	1,510	1,240	855	1,410	2,480	900	788	372	136
5	830	1,380	1,040	1,600	1,180	1,010	1,520	2,050	1,000	904	322	140
6	2,070	1,120	1,060	1,520	1,170	1,050	1,440	1,730	912	690	282	176
7	1,410	985	1,340	1,430	1,300	1,040	1,380	1,460	996	536	342	220
8	1,000	1,340	1,430	1,300	1,600	1,280	1,490	1,310	876	450	318	171
9	752	1,630	5,220	1,220	2,700	1,830	1,590	2,060	764	402	275	215
10	616	1,370	13,000	1,110	2,660	1,650	1,710	1,850	756	405	255	292
11	512	1,330	14,200	975	2,120	1,440	1,780	1,400	690	550	252	258
12	414	1,240	5,760	985	1,710	1,360	1,680	1,210	634	447	290	198
13	418	1,160	3,980	870	1,450	1,240	1,530	1,060	770	375	265	158
14	387	1,180	3,170	895	1,450	1,200	1,330	944	634	360	288	200
15	372	1,240	3,300	930	1,620	2,680	1,210	854	568	858	588	212
16	357	1,090	4,370	830	1,750	7,860	1,120	795	795	920	474	198
17	346	1,060	3,710	795	1,560	21,800	1,090	781	1,000	683	305	169
18	338	1,030	2,940	748	1,330	10,800	1,320	792	816	550	265	190
19	488	1,070	2,570	760	1,370	4,940	1,420	711	718	480	232	185
20	885	2,370	2,300	825	1,270	3,470	1,340	683	613	402	235	180
21	724	2,350	2,220	720	1,220	3,280	1,220	669	686	358	310	167
22	600	1,820	7,580	728	1,100	3,540	1,120	620	700	375	408	160
23	534	1,490	6,540	775	1,060	3,220	1,070	1,290	655	411	322	134
24	492	1,190	4,270	760	990	2,790	1,140	3,830	546	411	290	126
25	450	1,070	3,420	736	995	2,460	1,150	4,720	474	543	255	128
26	400	1,430	3,070	700	850	2,240	1,460	3,020	441	1,630	235	120
27	378	2,100	2,790	720	885	2,230	5,570	2,020	417	1,050	218	122
28	548	1,900	2,500	770	895	2,150	11,600	3,160	498	908	210	111
29	810	1,670	2,190	860	-----	1,970	6,580	4,460	494	638	198	109
30	820	1,480	1,960	910	-----	1,800	3,940	2,680	498	369	188	162
31	712	-----	1,760	900	-----	1,620	-----	1,960	---	348	174	---
TOTAL	24,441	47,305	112,550	31,202	38,425	95,345	63,950	58,119	22,521	19,874	9,347	5,083
MEAN	788	1,577	3,631	1,007	1,372	3,076	2,132	1,875	751	641	302	169
MAX	3,430	3,950	14,200	1,600	2,700	21,800	11,600	4,720	1,460	1,630	588	292
MIN	338	985	1,040	700	850	840	1,070	620	417	348	174	109
CFSM	.85	1.69	3.90	1.08	1.47	3.30	2.29	2.01	.81	.69	.32	.18
IN.	.98	1.89	4.49	1.25	1.53	3.80	2.55	2.32	.90	.79	.37	.20

CAL YR 1972 TOTAL 713,646 MEAN 1,950 MAX 16,400 MIN 226 CFSM 2.09 IN 28.48
 WTR YR 1973 TOTAL 528,162 MEAN 1,447 MAX 21,800 MIN 109 CFSM 1.55 IN 21.08

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G.H.	DISCHARGE	DATE	TIME	G.H.	DISCHARGE
12-11	0230	27.78	18,700	4-28	1030	21.52	12,700
3-17	1100	32.65	23,800				

03214000 Tug Fork near Kermit, W. Va.

LOCATION.--Lat 37°49'05", long 82°23'20", Mingo County, on right bank 2.0 mi (3.2 km) upstream from Wolf Creek, 3.0 mi (4.8 km) upstream from Kermit, 3.0 mi (4.8 km) downstream from Pigeon Creek, and at mile 37.7 (60.7 km).

DRAINAGE AREA.--1,185 mi² (3,069 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 581.82 ft (177.339 m) above mean sea level.

AVERAGE DISCHARGE.--39 years, 1,351 ft³/s (38.26 m³/s), 15.48 in/yr (393 mm/yr).

EXTREMES.--Current year: Maximum discharge, 34,600 ft³/s (980 m³/s) Mar. 17, gage height, 36.56 ft (11.143 m), from rating curve extended as explained below; minimum, 132 ft³/s (3.74 m³/s) Sept. 29, gage height, 1.54 ft (0.469 m).

Period of record: Maximum discharge, 69,600 ft³/s (1,970 m³/s) Mar. 13, 1963, gage height, 45.65 ft (13.914 m), from floodmarks, from rating curve extended above 29,000 ft³/s (821 m³/s) on basis of slope-area measurement of peak flow; minimum, 23 ft³/s (0.65 m³/s) Sept. 14, 1939, gage height, 1.13 ft (0.344 m). Stage of about 43.3 ft (13.20 m) was reached on unknown date prior to 1915.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 953: 1934-41. WSP 1505: 1955.

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	4,430	1,090	1,780	2,060	1,120	1,410	1,960	3,650	2,010	657	383	181
2	2,070	3,730	1,620	1,830	1,220	1,280	2,010	2,820	1,570	2,040	410	171
3	1,140	2,920	1,430	1,650	1,490	1,260	1,890	3,010	1,310	1,070	457	165
4	798	2,000	1,350	1,770	1,790	1,260	1,770	3,560	1,110	939	417	159
5	810	1,490	1,430	1,870	1,670	1,310	1,810	2,880	1,210	1,190	355	156
6	1,520	1,160	1,560	1,840	1,620	1,450	1,750	2,380	1,120	887	316	171
7	1,560	983	1,990	1,720	1,760	1,460	1,650	2,040	1,260	671	312	246
8	1,110	1,440	2,230	1,580	2,280	1,510	1,860	1,790	1,130	551	355	206
9	862	1,810	7,990	1,470	3,680	2,080	2,100	2,300	934	476	302	209
10	681	1,630	16,900	1,350	3,480	2,000	2,300	2,480	863	435	278	332
11	547	1,460	22,800	1,220	2,740	1,780	2,400	1,930	788	543	288	279
12	463	1,350	10,500	1,150	2,170	1,710	2,280	1,590	691	523	281	240
13	428	1,250	5,460	1,060	1,820	1,590	2,090	1,340	792	446	278	201
14	422	1,220	3,990	959	1,750	1,470	1,840	1,170	739	383	267	240
15	406	1,310	4,070	988	2,210	3,330	1,620	1,050	631	772	476	246
16	388	1,250	6,140	935	2,330	8,450	1,480	955	747	1,130	468	230
17	372	1,170	5,210	879	2,130	26,600	1,400	919	1,160	915	341	198
18	364	1,090	3,910	839	1,850	23,700	1,590	911	1,000	699	291	208
19	454	1,010	3,150	879	1,740	7,690	1,750	855	819	580	264	210
20	839	2,220	2,780	964	1,640	4,690	1,690	807	707	539	257	217
21	856	2,680	2,600	951	1,520	4,080	1,530	768	780	472	288	217
22	688	2,080	8,550	919	1,410	4,420	1,410	707	863	480	376	174
23	593	1,680	9,770	947	1,330	4,220	1,330	1,640	760	484	355	161
24	538	1,400	5,900	927	1,250	3,690	1,440	5,420	655	503	305	154
25	498	1,240	4,470	891	1,130	3,270	1,550	7,070	547	691	274	148
26	452	1,630	4,000	843	1,050	3,030	1,770	4,340	519	1,600	257	145
27	420	2,310	3,650	887	1,330	2,870	5,820	2,710	468	1,630	242	150
28	539	2,240	3,220	927	1,510	2,760	18,100	3,250	584	939	225	146
29	813	2,070	2,810	1,020	-----	2,520	11,700	5,150	523	635	211	135
30	914	1,870	2,470	1,100	-----	2,320	5,440	3,380	527	484	204	168
31	832	-----	2,250	1,110	-----	2,100	-----	2,570	-----	410	191	-----
TOTAL	26,807	50,783	155,980	37,535	51,020	131,310	87,340	75,442	26,822	23,744	9,724	5,863
MEAN	865	1,693	5,032	1,211	1,822	4,236	2,911	2,434	894	767	314	195
MAX	4,430	3,730	22,800	2,060	3,680	26,600	18,100	7,070	2,010	2,040	476	332
MIN	364	983	1,350	839	1,050	1,260	1,330	707	468	383	191	135
CFSM	.73	1.43	4.25	1.02	1.54	3.57	2.46	2.05	.75	.65	.27	.16
IN.	.84	1.59	4.90	1.18	1.60	4.12	2.74	2.37	.84	.75	.31	.13

CAL YR 1972 TOTAL 964,644 MEAN 2,636 MAX 42,700 MIN 234 CFSM 2.22 IN 30.28
WTR YR 1973 TOTAL 682,410 MEAN 1,870 MAX 26,600 MIN 135 CFSM 1.58 IN 21.42

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-11	1000	31.54	24,700	3-17	2300	36.56	34,600
12-22	2100	21.23	12,000	4-28	1400	28.01	19,700

03215000 Big Sandy River at Louisa, Ky.

LOCATION.--Lat 38°10'16", long 82°38'05", Lawrence County, on left bank 1.6 mi (2.6 km) upstream from Blaine Creek, 4.3 mi (6.9 km) northwest of Louisa, and at mile 21.2 (34.1 km).

DRAINAGE AREA.--3,892 mi² (10,080 km²).

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for October, November 1938, October 1947 to September 1948, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 512.81 ft (156.304 m) above mean sea level. Prior to Nov. 10, 1951, water-stage recorder or nonrecording gages at lock 3, 5.0 mi (8.0 km) upstream at datum 3.65 ft (1.113 m) higher. Auxiliary water-stage recorder, formerly base gage, at site 5.0 mi (8.0 km) upstream; prior to Nov. 10, 1951, auxiliary water-stage recorder or nonrecording gage at mouth of Blaine Creek, 1.6 mi (2.6 km) downstream from present base gage.

AVERAGE DISCHARGE.--35 years, 4,286 ft³/s (121.4 m³/s), 14.95 in/yr (380 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 55,800 ft³/s (1,580 m³/s) Mar. 18; maximum gage height, 35.67 ft (10.870 m) Dec. 12; minimum daily discharge, 404 ft³/s (11.4 m³/s) Sept. 7.

Period of record: Maximum discharge, 89,400 ft³/s (2,530 m³/s) Mar. 2, 1955; maximum gage height, 46.37 ft (14.134 m) May 8, 1958; minimum discharge not determined.

Flood of Apr. 3, 1908, reached a stage of 48.4 ft (14.75 m), former site and datum.

REMARKS.--Records good above 4,000 ft³/s (113 m³/s) and poor below. Flow regulated since October 1968 by Fishtrap Lake, since July 1966 by North Fork Pound River Lake, since March 1965 by John W. Flannagan Lake, and since May 1950 by Dewey Lake.

COOPERATION.--Gage height records furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 1505: 1939.

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	6,660	3,590	5,800	5,910	3,820	4,310	6,160	21,600	7,390	1,480	1,280	501
2	9,600	4,600	5,290	5,280	3,950	4,170	6,000	17,000	5,960	1,940	1,300	474
3	5,560	5,970	4,620	4,840	4,250	4,000	5,960	13,100	4,910	3,960	1,100	450
4	3,160	4,570	4,490	4,970	4,830	3,890	6,030	12,500	4,220	3,410	1,070	432
5	2,210	4,050	5,260	5,220	5,050	3,860	6,300	11,400	3,610	3,070	1,060	423
6	2,570	3,380	5,600	5,050	5,120	4,200	6,140	8,020	3,610	3,520	941	406
7	4,940	2,720	7,130	4,960	5,470	4,130	5,920	6,460	3,770	2,840	856	404
8	4,130	3,370	8,070	4,590	6,190	4,160	7,860	5,900	4,240	2,040	788	562
9	2,930	4,550	20,500	4,280	10,800	4,490	8,850	7,290	3,730	1,560	826	605
10	2,270	4,680	34,900	3,950	12,700	5,750	8,090	7,360	3,080	1,350	795	595
11	1,830	4,390	45,600	3,620	10,700	5,850	7,640	6,460	2,610	1,580	767	780
12	1,550	4,300	45,000	3,260	7,910	5,620	7,210	5,820	2,200	1,370	768	826
13	1,300	3,940	26,000	3,360	6,270	5,360	6,700	5,200	2,050	1,350	803	816
14	1,180	3,500	17,900	3,580	5,740	4,970	5,960	4,520	2,550	1,230	826	917
15	1,180	3,630	19,800	3,510	8,180	5,190	5,390	4,030	2,230	1,120	897	1,010
16	1,260	4,100	24,600	3,470	8,310	15,600	4,960	3,450	1,910	1,660	1,370	1,000
17	1,220	3,490	25,700	2,900	7,300	34,700	4,650	3,010	2,610	2,120	1,450	907
18	1,100	4,020	21,300	2,870	6,190	52,600	4,620	2,780	2,860	1,970	1,100	815
19	1,180	3,690	16,200	2,900	5,650	48,300	4,850	2,640	2,340	1,780	932	842
20	1,520	4,750	11,200	3,120	5,230	29,000	4,920	2,780	2,010	2,080	853	1,060
21	2,610	7,510	9,040	3,180	4,810	20,700	4,780	2,570	1,730	1,480	776	1,200
22	2,990	7,290	12,200	3,340	4,490	20,700	4,600	2,380	1,990	1,370	767	1,170
23	2,440	5,800	26,700	3,410	4,260	20,900	4,410	4,840	2,970	1,430	921	1,090
24	2,130	3,760	27,900	3,420	4,130	18,500	4,670	13,300	2,250	1,570	991	1,020
25	1,970	4,200	19,200	3,360	3,840	16,200	5,770	18,600	1,700	2,030	868	948
26	1,730	4,250	13,200	3,190	3,540	14,000	7,000	16,100	1,440	2,540	760	862
27	1,500	4,650	11,100	3,070	3,360	11,600	11,500	10,300	1,310	3,610	697	834
28	1,490	6,100	9,820	3,190	3,810	9,690	35,300	7,740	1,270	4,340	640	743
29	1,700	7,120	8,250	3,610	-----	8,140	43,300	12,200	1,510	3,110	612	747
30	2,210	6,770	7,270	3,750	-----	7,170	32,200	14,800	1,480	2,150	586	768
31	2,950	-----	6,580	3,880	-----	6,540	-----	10,300	-----	1,450	524	-----
TOTAL	81,070	138,740	506,220	119,040	165,900	404,290	277,740	264,450	85,540	66,510	27,924	23,207
MEAN	2,615	4,625	16,330	3,840	5,925	13,040	9,258	8,531	2,851	2,145	901	774
MAX	9,600	7,510	45,600	5,910	12,700	52,600	43,300	21,600	7,390	4,340	1,450	1,200
MIN	1,100	2,720	4,490	2,870	3,360	3,860	4,410	2,380	1,270	1,120	524	404

CAL YR 1972 TOTAL 2,911,007 MEAN 7,954 MAX 69,300 MIN 595 MEAN† 7,954 CFSM† 2.04 IN† 27.83
WTR YR 1973 TOTAL 2,160,631 MEAN 5,920 MAX 52,600 MIN 404 MEAN† 5,903 CFSM† 1.52 IN† 20.59

† Adjusted for change in contents in Fishtrap, North Fork Pound River, John W. Flannagan and Dewey Lakes.

03216600 Ohio River at Greenup Dam, Ky.

LOCATION.--Lat 38°38'48", long 82°51'38", Greenup County, at left end of Greenup Dam on Ohio River, 1.1 mi (1.8 km) upstream from Grays Branch, 4.7 mi (7.6 km) downstream from Little Sandy River, 5.0 mi (8.0 km) north of Greenup, and at mile 341.0 (548.7 km), measured downstream from Pittsburgh, Pa.

DRAINAGE AREA.--62,000 mi² (161,000 km²), approximately.

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

GAGE.--Gate-opening and water-stage recorders. Headwater gage 0.4 mi (0.6 km) upstream at datum 503.06 ft (153.333 m) above mean sea level, Ohio River datum and 502.51 ft (153.165 m) above mean sea level, datum of 1929. Tailwater gage 0.4 mi (0.6 km) downstream at datum 30.12 ft (9.181 m) lower.

AVERAGE DISCHARGE.--5 years, 89,520 ft³/s (2,535 m³/s), 19.61 in/yr (498 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 475,000 ft³/s (13,500 m³/s) Dec. 11; maximum headwater gage height, 25.45 ft (7.757 m) Dec. 12; maximum tailwater gage height, 54.41 ft (16.584 m) Dec. 12; minimum daily discharge, 8,100 ft³/s (229 m³/s) Sept. 3.

Period of record: Maximum daily discharge, 475,000 ft³/s (13,500 m³/s) Dec. 11, 1972; maximum headwater gage height, 25.45 ft (7.757 m) Dec. 12, 1972; maximum tailwater gage height, 54.41 ft (16.584 m) Dec. 12, 1972; minimum daily discharge, 8,100 ft³/s (229 m³/s) Sept. 3, 1973.

REMARKS.--Records poor. Daily discharge computed from head, gage openings, and lockages. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

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	49,200	64,000	134,000	118,000	121,000	71,400	126,000	360,000	176,000	30,100	29,300	16,200
2	76,800	126,000	122,000	102,000	117,000	74,100	119,000	260,000	145,000	32,300	21,500	9,800
3	68,600	131,000	114,000	95,600	161,000	76,000	119,000	230,000	112,000	38,500	31,900	8,100
4	45,700	141,000	103,000	116,000	227,000	87,600	140,000	200,000	82,600	31,200	18,800	10,800
5	42,300	130,000	108,000	144,000	250,000	119,000	184,000	190,000	80,000	27,800	27,000	11,200
6	41,500	120,000	126,000	152,000	230,000	127,000	199,000	181,000	103,000	35,000	12,800	16,600
7	78,100	88,000	182,000	148,000	210,000	147,000	207,000	148,000	111,000	34,100	17,300	16,300
8	84,200	98,100	245,000	137,000	183,000	159,000	210,000	125,000	111,000	28,000	17,400	14,200
9	73,100	131,000	345,000	110,000	201,000	146,000	240,000	136,000	88,500	27,300	16,200	11,600
10	51,100	163,000	440,000	79,500	208,000	143,000	250,000	183,000	83,100	27,300	16,100	18,000
11	47,900	168,000	475,000	72,100	190,000	132,000	250,000	203,000	72,800	16,800	17,300	9,700
12	46,500	152,000	455,000	64,500	155,000	117,000	230,000	196,000	52,100	33,500	14,000	13,900
13	45,600	126,000	390,000	51,600	120,000	112,000	220,000	184,000	63,600	27,300	23,000	14,400
14	38,300	107,000	350,000	51,200	115,000	106,000	200,000	167,000	69,000	16,100	20,600	18,000
15	38,200	117,000	310,000	51,800	143,000	94,800	190,000	146,000	66,000	21,600	28,200	16,100
16	34,400	173,000	290,000	55,700	171,000	124,000	164,000	130,000	44,900	21,300	42,300	15,000
17	29,200	194,000	300,000	53,100	165,000	225,000	140,000	114,000	53,800	23,000	32,300	21,600
18	25,700	174,000	280,000	57,000	123,000	330,000	133,000	101,000	66,200	20,200	39,700	15,400
19	32,700	148,000	230,000	57,500	86,400	370,000	140,000	87,200	85,800	24,600	34,100	18,100
20	25,500	157,000	220,000	65,500	88,400	350,000	147,000	86,200	84,000	18,300	21,300	18,700
21	29,000	170,000	210,000	68,900	80,900	315,000	140,000	79,300	73,900	25,500	47,400	19,800
22	34,000	180,000	240,000	77,900	83,900	280,000	115,000	77,200	66,900	38,800	40,100	14,100
23	31,700	165,000	320,000	83,600	79,300	250,000	95,600	77,400	62,600	32,000	43,800	30,200
24	29,000	147,000	355,000	90,200	75,500	225,000	142,000	80,000	67,000	32,900	38,700	14,800
25	30,100	119,000	325,000	90,200	75,300	210,000	157,000	120,000	49,900	31,800	37,000	15,100
26	38,500	112,000	270,000	85,700	68,000	190,000	174,000	145,000	35,600	48,500	25,300	17,200
27	32,200	129,000	220,000	81,600	66,400	190,000	204,000	150,000	38,800	50,500	15,400	21,100
28	29,400	151,000	200,000	102,000	67,200	200,000	310,000	123,000	35,200	39,400	15,000	11,200
29	32,300	162,000	180,000	126,000	-----	197,000	360,000	135,000	37,000	32,100	14,900	22,300
30	35,700	152,000	160,000	131,000	-----	165,000	380,000	170,000	32,600	33,600	21,800	41,900
31	34,900	-----	134,000	136,000	-----	137,000	-----	186,000	-----	16,500	18,700	-----
TOTAL	1,331.4M	4,195.1M	7,833.0M	2,855.2M	3,861.3M	5,469.9M	5,685.6M	4,770.3M	2,249.9M	915,900	799,200	501,400
MEAN	42,950	139,800	252,700	92,100	137,900	176,400	189,500	153,900	75,000	29,550	25,780	16,710
MAX	84,200	194,000	475,000	152,000	250,000	370,000	380,000	360,000	176,000	50,500	47,400	41,900
MIN	25,500	64,000	103,000	51,200	66,400	71,400	95,600	77,200	32,600	16,100	12,800	8,100
CAL YR 1972	TOTAL 47,191,200	MEAN 128,900	MAX 475,000	MIN 14,200	CFSM 2.08	IN 28.31						
WTR YR 1973	TOTAL 40,468,200	MEAN 110,900	MAX 475,000	MIN 8,100	CFSM 1.79	IN 24.27						

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 time of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements at low-flow partial-record stations during water year 1973

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
Monongahela River basin						
03070200	Salt Lick Creek at Rowlesburg, W. Va.	Lat 39°21'00", long 79°39'50" Preston County, at timber railroad and highway bridge, at Rowlesburg, and 0.2 mi (0.3 km) upstream from mouth.	34.6	1942-69, 1973	8-16-73	9.1
Little Kanawha River basin						
03152500	Leading Creek near Glenville, W. Va.	Lat 38°57'45", long 80°52'00", Gilmer County, 2.8 mi (4.5 km) northwest of Glenville, and at mile 1.4 (2.3 km).	144	1938-1952†, 1953, 1955-57, 1964-71, 1973	10-19-72	17

† Operated as a continuous-record gaging station.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage 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, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1973

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Potomac River basin							
01605700	Unnamed Run on North Fork Mountain near Franklin, W. Va.	Lat 38°41'47", long 79°23'55", Pendleton County, at culvert on U.S. Highway 33, 0.7 mi (1.1 km) upstream from mouth, and 5.0 mi (8.0 km) northwest of Franklin.	0.45	1965-73	1973	<4.22	(+)
01606000	North Fork South Branch Potomac River at Cabins, W. Va.	Lat 38°59'05", long 79°14'10", Grant County, on left bank 380 ft (116 m) upstream from highway bridge at Cabins, 1.8 mi (2.9 km) downstream from Jordan Run, 6.0 mi (9.7 km) west of Petersburg, and at mile 3.0 (4.8 km).	314	1940-61†, 1962-73a	10- 6-72	13.38	20,200
01606800	Brushy Run near Petersburg, W. Va.	Lat 38°48'20", long 79°12'50", Pendleton County (corrected), at culvert on State Route 4, 14.0 mi (22.5 km) southwest of Petersburg, and at mile 3.2 (5.1 km).	1.43	1965-73	10-5-72	2.86	10
01608100	Williams Hollow near Moorefield, W. Va.	Lat 39°05'20", long 78°53'55", Hardy County, at culvert on State Route 55, 4.0 mi (6.4 km) northeast of Moorefield, and at mile 3.8 (6.1 km).	0.24	1965-73	4-27-73	5.08	50
01611150	Tearcoat Creek Tributary near Augusta, W. Va.	Lat 39°12'40", long 78°41'07", Hampshire County, at culvert at intersection of State Routes 7 and 7/9, 0.1 mi (0.2 km) upstream from mouth, and 6.0 mi (9.7 km) southwest of Augusta.	2.65	1965-73	4-27-73	3.62	76
Monongahela River basin							
03050650	Unnamed Run at Gilman, W. Va.	Lat 38°58'35", long 79°50'16", Randolph County, at culvert on U.S. Highway 219, 0.3 mi (0.5 km) northeast of Gilman, 0.4 mi (0.6 km) upstream from mouth, and 3.7 mi (6.0 km) north of Elkins.	0.38	1964-73	1973	<3.50	(+)
03052300	Bridge Run near Buckhannon, W. Va.	Lat 39°00'41", long 80°17'25", Upshur County, on right upstream wingwall of culvert on U.S. Highway 33 and 119, and 3.3 mi (5.3 km) west of Buckhannon.	2.60	1967-73	12- 8-72	10.20	200
03052340	Mud Lick Run near Buckhannon, W. Va.	Lat 39°00'17", long 80°15'23", Upshur County, on left upstream wingwall of culvert on U.S. Highway 33 and 119, 0.2 mi (0.3 km) upstream from mouth, and 1.5 mi (2.4 km) west of Buckhannon.	2.33	1966-73	12- 8-72	7.23	180
03055020	Bonica Run on U.S. Highway 250 near Philippi, W. Va.	Lat 39°07'29", long 79°59'50", Barbour County, at culvert on U.S. Highway 250, 2.0 mi (3.2 km) southwest of Philippi, and at mile 2.5 (4.0 km).	0.60	1965-73	12- 8-72	4.90	86
03055040	Bonica Run on State Route 38 near Philippi, W. Va.	Lat 39°09'11", Long 79°58'44", Barbour County, at culvert on State Route 38, 0.5 mi (0.8 km) upstream from mouth, and 3.2 mi (5.1 km) east of Philippi.	3.15	1964-73	1973	<2.82	(+)

See footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Monongahela River basin--Continued							
03056600	Right Fork Wickwire Run on U.S. Highway 119 near Grafton, W. Va.	Lat 39°22'44", long 79°57'48", Taylor County, at culvert at intersection of U.S. Highway 119 and Wickwire Road, 0.7 mi (1.1 km) upstream from confluence with Wickwire Run, and 4.0 mi (6.4 km) northeast of Grafton.	2.33	1965-73	5- 9-73	6.63	145
03057500	Skin Creek near Brownsville, W. Va.	Lat 38°58'30", long 80°26'40", Lewis County, 2.6 mi (4.2 km) southeast of Brownsville, 4.7 mi (7.6 km) southeast of Weston, and at mile 3.0 (4.8 km).	25.7	1946-60+, 1961-73a	12- 9-72	6.20	1,180
03063950	Job Run near Wymer, W. Va.	Lat 38°52'55", long 79°35'45", Randolph County, at culvert on U.S. Highway 33, 0.1 mi (0.2 km) upstream from mouth, and 1.2 mi (1.9 km) southeast of Wymer.	1.08	1965-73	1973	<3.77	(+)
03069650	Right Fork Clover Run near Parsons, W. Va.	Lat 39°09'10", long 79°45'46", Tucker County, on left bank 12 ft (4 m) upstream from culvert entrance, at intersection of State Route 38 and Secondary Route 15/5, and 6.0 mi (9.7 km) northwest of Parsons.	2.21	1967-73	4-27-73	4.61	(+)
03069850	Long Run near Parsons, W. Va.	Lat 39°15'32", long 79°43'18", Tucker County, on left bank 8 ft (2 m) upstream from entrance to culvert on State Route 72, 0.1 mi (0.2 km) southeast of Tucker County line, and 11.0 mi (17.7 km) north of Parsons.	0.95	1967-73	9-29-73	7.42	70
Middle Island Creek basin							
03114550	Buffalo Run near Friendly, W. Va.	Lat 39°30'23", long 81°01'41", Tyler County, on right bank 10 ft (3 m) upstream from culvert on State Secondary Route 6, 1.8 mi (2.9 km) southeast of Friendly.	0.88	1967-73	12- 8-72	4.96	106
03114600	Little Buffalo Run near Friendly, W. Va.	Lat 39°30'10", long 81°00'59", Tyler County, on left bank 12 ft (4 m) upstream from culvert on State Secondary Route 6, 2.5 mi (4.0 km) southeast of Friendly.	1.22	1967-73	1973	<3.40	(+)
Little Kanawha River basin							
03155450	Big Island Run near Elizabeth, W. Va.	Lat 39°05'00", long 81°15'40", Ritchie-Wirt County line, at culvert on State Route 53, and 7.5 mi (12.1 km) east of Elizabeth.	3.52	1965-73	5- 8-73	4.50	240
Mill Creek basin							
03159700	Grasslick Run near Ripley, W. Va.	Lat 38°45'53", long 81°40'40", Jackson County, at culvert on U.S. Highway 21, 1.0 mi (1.6 km) upstream from Burnt Run, and 3.8 mi (6.1 km) southeast of Ripley.	0.70	1965-73	5-25-73	5.00	80
Kanawha River basin							
03180350	West Fork Greenbrier River Tributary at Durbin, W. Va.	Lat 38°33'30", long 79°49'52", Pocahontas County, at culvert on U.S. Highway 250, 0.2 mi (0.3 km) upstream from mouth, and 0.9 mi (1.4 km) northeast of Durbin.	1.13	1966-68, 1970-73	12- 8-72	4.34	48

See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Kanawha River basin--Continued							
03180530	Brush Run near Bartow, W. Va.	Lat 38°30'30", long 79°47'03", Pocahontas County, on left bank 12 ft (4 m) upstream from culvert on State Route 28, 2.3 mi (3.7 km) south of Bartow, and at mile 4.2 (6.8 km).	1.28	1966-73	1973	<3.50	(+)
03180680	Cooper Run near Green Bank W. Va.	Lat 38°24'32", long 79°48'43", Pocahontas County, at culvert on Secondary Route 6, 0.4 mi (0.6 km) up-stream from mouth, and 1.3 mi (2.1 km) southeast of Green Bank.	1.52	1965-73	10- 5-72	7.20	240
03181900	Moody Moore Hollow near Huntersville, W. Va.	Lat 38°13'55", long 79°58'44", Pocahontas County, at culvert on Secondary Route 11, 0.1 mi (0.2 km) upstream from mouth, and 3.5 mi (5.6 km) northeast of Huntersville.	0.55	1966-73	1973	<3.50	(+)
03183550	Griffith Creek near Alderson W. Va.	Lat 37°44'15", long 80°42'36", Summers County (corrected), at culvert on State Secondary Route 7/14 at Griffith School, 4.0 mi (6.4 km) northwest of Alderson, and at mile 2.0 (3.2 km).	3.84	1966-73	6-21-73	10.25	350
03183570	Buggar Lick at Pence Springs, W. Va.	Lat 37°41'03", long 80°43'00", Summers County, at culvert on State Route 3, at Pence Springs, and 0.3 mi (0.5 km) upstream from mouth.	2.71	1966-73	1973	4.60	70
03185020	Little Beaver Creek Tributary near Shady Spring, W. Va.	Lat 37°43'30", long 81°06'02", Raleigh County, at culvert on U.S. Highways 19 and 21 and State Highway 3, 0.3 mi (0.5 km) upstream from mouth, and 1.3 mi (2.1 km) north of Shady Spring.	0.62	1966-73	1973	<4.00	(+)
03190500	Meadow Creek near Summersville, W. Va.	Lat 38°13'31", long 80°55'37", Nicholas County, at culvert on Secondary Route 23, 0.7 mi (1.1 km) south of Keslers Cross Lanes, 6.0 mi (9.7 km) southeast of Summersville, and at mile 2.4 (3.9 km).	4.22	1966-73	12- 9-73	6.60	320
03191400	Laurel Creek near Summersville, W. Va.	Lat 38°15'28", long 80°59'24", Nicholas County, at culvert on Secondary Route 22, at intersection of Secondary Routes 11 and 22, at Tipton, 7.8 mi (12.6 km) southwest of Summersville, and at mile 1.4 (2.3 km).	4.28	1966-73	12- 9-73	4.70	100
03193725	Little Fork at Mossy, W. Va.	Lat 37°58'52", long 81°16'25", Fayette County, at culvert on State Route 15, 100 ft (30 m) upstream from mouth, and 0.6 mi (1.0 km) northeast of Mossy.	0.42	1966-73	1973	<4.00	(+)
03193760	Greens Branch at Fairfield, W. Va.	Lat 38°08'09", long 81°26'48", Kanawha County, at culvert on State Route 79, at Fairfield, and 300 ft (91 m) up-stream from mouth.	2.25	1966-73	1971 1972 1973	4.82 5.21 4.28	80 107 47
03197150	Ashleycamp Run near Left Hand, W. Va.	Lat 38°37'34", long 81°14'02", Roane County, at culvert on State Route 36, 1.2 mi (1.9 km) east of Left Hand, and at mile 1.0 (1.6 km).	2.01	1966-73	1973	6.15	171

See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1973--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Kanawha River basin--Continued							
03197900	Elk Twomile Creek Tributary near Charleston, W. Va.	Lat 38°21'13", long 81°31'22", Kanawha County, at culvert on Elk Twomile Road, 0.1 mi (0.2 km) upstream from mouth, and 5.0 mi (8.0 km) northeast of Charleston.	0.49	1965-73	6-21-73	8.94	210
03198780	Hunters Branch near Madison, W. Va.	Lat 38°00'20", long 81°48'55", Boone County, at culvert on U.S. Highway 119, 0.1 mi (0.2 km) upstream from mouth, and 4.0 mi (6.4 km) south of Madison.	1.97	1966-73	1970	<4.00	(+)
03198800	Low Gap Creek near Madison, W. Va.	Lat 38°01'41", long 81°50'03", Boone County, at culvert at entrance to Low Gap Memory Garden, 0.2 mi (0.3 km) upstream from mouth, and 2.7 mi (4.3 km) southwest of Madison.	1.28	1963, 1965-73	1973	13.00	110
03200600	Little Scary Creek near Nitro, W. Va.	Lat 38°27'04", long 81°51'14", Putnam County, at culvert on Interstate Highway 64, 0.2 mi (0.3 km) west of St. Albans interchange, 2.5 mi (4.0 km) northwest of Nitro, and at mile 1.0 (1.6 km).	0.87	1966-68, 1971-73	1973	11.20	73
03201420	Long Branch near Teays, W. Va.	Lat 38°28'43", long 81°55'49", Putnam County, on State Route 34, 1.5 mi (2.4 km) north of Winfield interchange on Interstate 64, and 2.0 mi (3.2 km) north of Teays.	2.05	1965-73	12- 8-72	8.70	252
03201440	Sixteenmile Creek near Pliny, W. Va.	Lat 38°28'39", long 82°02'53", Putnam County, at culvert on Pliny to Apple Grove Road, 2.0 mi (3.2 km) from Mason-Putnam County line, and 3.7 mi (6.0 km) northwest of Pliny.	1.04	1965-73	1973	13.10	870
03201480	Threemile Creek Tributary near Point Pleasant, W. Va.	Lat 38°50'15", long 82°05'42", Mason County, at culvert on State Route 2, at intersection of U.S. Highway 35 and State Route 2, 0.2 mi (0.3 km) upstream from mouth, and 2.5 mi (4.0 km) southeast of Point Pleasant.	0.70	1965-73	12- 8-72	5.80	71
Guyandotte River basin							
03203000	Guyandotte River at Man, W. Va.	Lat 37°44'30", long 81°52'45", Logan County, on right bank at downstream side of highway bridge at Man, 500 ft (152 m) upstream from Buffalo Creek, and 0.7 mi (1.1 km) downstream from Huff Creek.	762	1928-62†, 1963-73a	3-17-73	17.38	25,800

(+) Not determined.

† Operated as a continuous-record gaging station.

a Recorder chart on file in district office.

Discharge measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*); measurements of peak flow by a dagger (†).

Discharge measurements made at miscellaneous sites during water year 1973

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Part 3 A Kanawha River basin						
East Fork Greenbrier River	Greenbrier River	Lat 38°32'39", long 79°49'18", Pocahontas County, at Durbin, at highway bridge 2,000 ft (610 m) up-stream from mouth of West Fork Greenbrier River, and 2,500 ft (762 m) upstream from (Sta 03180500), Greenbrier River at Durbin, W. Va.	69.8	1961	10-26-72	49
West Fork Greenbrier River	Greenbrier River	Lat 38°32'37", long 79°49'55" Pocahontas County, at mouth and at Durbin, W. Va.	63.3	1947	10-26-72	64
Spring Creek	Greenbrier River	Lat 37°58'28", long 80°22'45", Greenbrier County, 1.7 mi (2.7 km) southwest of Renick, W. Va., and at mile 3.7 (6.0 km).	50.1	1946, 1972	10- 4-72 10-25-72 11-29-72 3- 1-73 3-29-73 4-26-73 5-30-73	*.55 *2.1 18 *9.8 15 81 113
Jericho Draft	Howard Creek	Lat 37°49'38", long 80°16'57" Greenbrier County, at bridge on Montigue Road, 0.9 mi (1.4 km), upstream from mouth, and 2.5 mi (4.0 km) northeast of White Sulphur Springs, W. Va.	6.84		3- 9-73 4- 2-73 4-23-73 5-24-73 6-25-73 7-23-73 8-20-73	15 5.4 4.7 8.6 *1.2 *.69 0
Wades Creek	Howard Creek	Lat 37°47'56", long 80°17'57", Greenbrier County, at Ingleside Avenue bridge at White Sulphur Springs, W. Va., 200 ft (61 m) up-stream from mouth, and 0.3 mi (0.5 km) northwest of U.S. Highway 60.	7.48		3- 9-73 4- 2-73 4-23-73 5-24-73 6-25-73 7-23-73 8-20-73	22 19 14 10 *5.7 *6.4 *2.8
Dry Creek	Howard Creek	Lat 37°47'38", long 80°17'41" Greenbrier County, at White Sulphur Springs, W. Va., 0.3 mi (0.5 km) upstream from U.S. Highway 60, and 0.5 mi (0.8 km) upstream from mouth.	23.0	1972	3- 9-73 4- 2-73 4-23-73 5-24-73 6-25-73 7-23-73 8-20-73	42 95 25 24 *14 *3.1 *1.2
Howard Creek	Greenbrier River	Lat 37°47'33", long 80°18'19", Greenbrier County, at bridge at White Sulphur Springs, W. Va., and 0.3 mi (0.5 km) northwest of U.S. Highway 60.	60.6		3- 9-73 4- 2-73 4-23-73 5-24-73 6-25-73 7-23-73 8-20-73	130 141 69 58 *29 *20 *8.5

PART 2. WATER QUALITY RECORDS

01606500 SOUTH BRANCH POTOMAC RIVER NEAR PETERSBURG, W. VA.

LOCATION.--Lat 38°59'34", long 79°10'26", Grant County, at the Potomac Edison powerplant, 1,000 ft (305 m) upstream from gaging station, and 2.5 mi (4.0 km) west of Petersburg.

DRAINAGE AREA.--642 mi² (1,663 km²).

PERIOD OF RECORD.--Water temperatures: January 1947 to September 1953, November 1954 to June 1965, October 1965 to June 1973 (discontinued).

EXTREMES.--October 1972 to June 1973:

Water temperatures: Maximum, 23.5°C June 27; minimum, freezing point Jan. 9, 13, Feb. 17, 18.

Period of record:

Water temperatures: Maximum, 29°C June 27, July 23, 1952, and Aug. 3, 1955; minimum, freezing point on many days during winter months most years.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	12.5	4.5	8.5	3.0	6.0	10.5	10.5	15.0	---	---	---
2	13.5	12.0	5.0	7.0	4.0	6.5	10.0	13.5	16.5	---	---	---
3	14.0	12.0	6.0	5.0	5.5	7.5	9.0	14.0	18.5	---	---	---
4	15.0	11.5	6.5	5.5	5.0	8.5	9.5	11.0	19.5	---	---	---
5	15.5	11.0	7.0	5.5	5.0	8.5	8.0	10.5	19.0	---	---	---
6	14.5	11.0	8.0	4.5	5.5	8.0	8.0	12.0	19.5	---	---	---
7	14.0	10.5	6.0	1.5	5.0	8.5	9.0	13.0	20.5	---	---	---
8	14.0	10.0	4.5	0.5	5.0	9.5	9.0	14.5	21.0	---	---	---
9	13.5	9.5	7.0	0.0	3.0	10.0	9.5	14.5	23.0	---	---	---
10	11.0	9.0	9.5	0.5	1.5	11.0	8.0	15.5	23.5	---	---	---
11	10.5	8.0	7.0	1.5	1.0	12.0	5.5	15.5	22.5	---	---	---
12	13.5	7.5	8.0	1.0	0.5	11.5	4.5	15.0	22.0	---	---	---
13	9.5	8.0	8.5	0.0	1.0	11.0	5.5	14.0	22.0	---	---	---
14	9.0	9.5	8.0	0.5	2.0	11.5	7.0	13.5	21.5	---	---	---
15	13.5	7.5	6.5	1.5	1.0	12.5	9.0	13.5	21.5	---	---	---
16	14.0	5.5	4.0	2.0	1.5	13.5	10.5	13.0	21.0	---	---	---
17	14.0	6.0	1.5	3.0	0.0	11.0	11.0	13.0	21.5	---	---	---
18	13.0	6.0	1.5	4.0	0.0	5.5	12.5	11.5	21.0	---	---	---
19	10.0	6.5	4.0	4.5	1.0	4.5	13.5	13.0	21.0	---	---	---
20	8.5	6.5	6.0	3.5	3.0	6.0	14.5	14.5	22.0	---	---	---
21	10.0	6.5	6.5	2.5	4.0	6.0	16.0	14.5	22.5	---	---	---
22	10.5	7.0	7.0	3.0	3.0	6.0	17.0	14.5	22.5	---	---	---
23	10.5	7.0	7.0	4.0	2.5	5.5	16.0	15.0	23.0	---	---	---
24	11.5	6.5	7.5	4.0	3.5	8.0	14.5	15.5	22.5	---	---	---
25	11.5	5.5	8.0	3.5	4.5	8.0	13.0	14.0	23.0	---	---	---
26	10.5	5.5	7.0	4.5	5.0	8.5	10.5	14.0	23.0	---	---	---
27	11.0	6.0	6.0	6.5	4.5	9.0	10.5	14.0	23.5	---	---	---
28	11.0	5.5	5.0	4.5	5.5	9.5	10.0	14.0	23.0	---	---	---
29	13.0	4.5	4.5	4.5	---	9.5	10.5	14.5	23.0	---	---	---
30	13.5	4.0	5.5	1.5	---	10.5	10.0	15.5	22.5	---	---	---
31	13.0	---	8.0	1.5	---	10.5	---	14.5	---	---	---	---
MONTH	12.5	8.0	6.0	3.0	3.0	9.0	10.5	13.5	21.5	---	---	---

POTOMAC RIVER BASIN

01606500 SOUTH BRANCH POTOMAC RIVER NEAR PETERSBURG, W. VA.

LOCATION.--Lat 38°59'34", long 79°10'26", Grant County, 1.2 mi (1.9 km) downstream from North Fork South Branch Potomac River, 2.5 mi (4.0 km) west of Petersburg, and at mile 72.6 (116.8 km).

DRAINAGE AREA.--642 mi² (1,663 km²).

PERIOD OF RECORD.--Sediment records: April 1968 to current year (partial-record station).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 18...	2	1100	10.5	395	1	1.1
NOV. 16...	2	1145	5.0	2230	4	24
DEC. 22...	2	1400	10.0	7280	90	1770
JAN. 17...	2	1035	3.0	486	1	1.3
MAR. 14...	2	1010	12.0	956	2	5.2
APR. 11...	2	1320	5.5	3060	15	124
MAY 04...	2	1305	10.5	1430	6	23
JUNE 08...	2	1105	20.0	672	7	13
SEPT. 12...	2	1400	22.0	97	1	.26

POTOMAC RIVER BASIN

01611500 CACAPON RIVER NEAR GREAT CACAPON, W. VA.

LOCATION.--Lat 39°34'43", long 78°18'34", Morgan County, 3.0 mi (4.8 km) southwest of Great Cacapon, and at mile 6.5 (10.5 km).

DRAINAGE AREA.--677 mi² (1,753 km²).

PERIOD OF RECORD.--Sediment records: April 1968 to current year (partial-record station).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 11...	2	1810	13.0	460	6	7.5
NOV. 08...	2	1620	9.5	477	3	3.9
DEC. 14...	2	1400	5.0	1550	6	25
JAN. 10...	2	1220	1.0	715	4	7.7
FEB. 07...	2	1340	4.0	1510	6	24
Mar. 07...	2	1325	7.0	790	3	6.4
APR. 04...	2	1325	10.0	1890	37	189
APR. 28...	2	1110	7.5	10100	727	19800
MAY 02...	2	1155	14.5	1580	14	60
MAY 31...	2	1015	-	1190	12	39
JULY 02...	2	1400	25.0	337	7	6.4
JULY 09...	2	1145	28.0	226	8	4.9
AUG. 07...	2	1505	29.0	116	7	2.2
SEPT. 05...	2	1505	29.0	152	3	1.2

03050400 TYGART VALLEY RIVER AT ELKINS, W. VA.

LOCATION.--Lat 38°55'00", long 79°50'43", Randolph County, at city water plant, at Elkins, 2.5 mi (4.0 km) upstream from gaging station.

DRAINAGE AREA.--268 mi² (694 km²) upstream from water plant: 272 mi² (704 km²) upstream from gaging station.

PERIOD OF RECORD.--Water temperatures: January 1947 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 24.5°C July 8, 9, 11, 12, 19, 29, Sept. 2, 4-6; minimum, 0.5°C Feb. 22, 23.

Period of record:

Water temperatures: Maximum, 33°C July 22, 1952; minimum, freezing point on many days during winter months most years.

REMARKS.--No appreciable inflow between water plant and gaging station except during periods of heavy local rains. During flood periods part of the flow is diverted around the water plant in a flood by-pass channel.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	15.0	4.5	8.0	1.0	5.0	12.0	11.0	16.0	23.5	23.0	23.5
2	18.0	15.5	3.5	6.5	3.0	5.5	12.0	14.0	17.0	23.5	23.5	24.5
3	18.5	15.0	3.0	5.0	5.5	8.0	10.0	14.0	18.0	23.0	22.5	24.0
4	18.5	13.5	1.5	4.5	5.5	9.0	9.5	11.0	19.0	23.5	23.5	24.5
5	19.0	11.0	2.0	4.5	5.0	9.0	8.0	10.0	19.5	23.5	23.5	24.5
6	18.5	9.0	4.0	4.5	4.5	10.0	8.0	12.0	20.0	23.5	23.5	24.5
7	18.0	7.5	5.5	3.5	5.5	11.0	9.0	13.0	20.0	23.5	24.0	24.0
8	15.0	6.5	8.5	2.5	4.0	11.0	9.0	14.5	19.5	24.5	23.5	23.0
9	14.5	5.0	9.0	1.5	3.0	11.5	9.0	15.5	20.0	24.5	23.5	23.0
10	13.5	4.5	9.5	2.0	2.5	12.0	8.0	14.0	21.5	24.0	23.5	22.0
11	13.0	5.0	9.5	1.0	1.5	13.0	5.5	14.5	22.0	24.5	23.5	21.0
12	13.0	5.0	9.0	1.0	2.0	12.5	4.5	15.5	22.0	24.5	24.0	21.5
13	13.0	6.0	8.0	1.0	2.5	12.0	4.5	14.5	23.5	24.0	23.5	21.0
14	13.5	7.5	8.0	2.0	1.5	12.5	7.0	14.0	22.0	24.0	23.0	20.5
15	13.5	8.5	8.0	1.0	2.0	13.0	9.0	13.5	20.5	24.0	22.5	20.5
16	14.0	9.0	9.5	2.0	1.5	13.0	10.5	13.5	21.5	23.5	22.0	20.0
17	14.0	9.5	9.0	1.0	1.5	12.0	11.0	11.5	23.0	24.0	21.5	20.0
18	14.5	10.0	5.5	1.0	1.5	7.5	11.0	12.0	22.5	24.0	21.5	20.0
19	14.5	10.0	3.0	1.0	1.5	4.5	11.5	13.0	23.5	24.5	21.5	19.0
20	15.0	9.0	3.0	1.0	1.5	5.0	13.5	13.0	23.5	24.0	21.0	19.0
21	15.0	6.5	5.5	1.5	1.5	6.5	15.0	14.5	23.5	24.0	20.5	18.5
22	15.0	4.0	6.0	1.5	0.5	5.0	16.5	14.5	23.5	23.5	20.0	18.5
23	15.0	2.5	5.5	1.5	0.5	5.5	16.5	14.5	23.5	24.0	19.0	19.0
24	15.0	1.5	5.0	1.5	1.5	8.0	15.5	15.5	22.5	24.0	19.0	19.0
25	15.5	1.5	5.0	2.0	3.5	8.5	14.5	15.5	22.5	23.5	19.0	19.5
26	15.0	1.5	6.0	2.5	4.5	9.0	11.5	15.0	22.5	23.5	21.0	20.0
27	14.5	3.0	8.0	3.5	5.0	9.0	10.5	16.0	23.0	23.5	22.0	20.0
28	15.0	3.5	9.0	4.5	5.5	9.5	11.0	16.5	23.0	23.5	22.5	19.5
29	14.5	4.5	8.5	4.5	---	9.0	10.5	17.0	22.5	24.5	23.0	19.5
30	14.5	4.5	8.5	4.0	---	9.0	10.5	17.0	23.0	23.5	23.5	20.0
31	15.0	---	6.5	2.0	---	10.5	---	16.5	---	23.5	23.5	---
MONTH	15.0	7.0	6.5	2.5	3.0	9.0	10.5	14.0	21.5	24.0	22.5	21.0
YEAR	MAX	24.5	MIN	0.5	MEAN	13.0						

MONONGAHELA RIVER BASIN

03054500 TYGART VALLEY RIVER AT PHILIPPI, W. VA.

LOCATION.--39°09'00", long 80°02'25", Barbour County, at Philippi, 0.2 mi (0.3 km) downstream from Anglins Run, 5.0 mi (8.0 km) downstream from Buckhannon River, and at mile 44.9 (72.2 km).

DRAINAGE AREA.--916 mi² (2,372 km²).

PERIOD OF RECORD.--Sediment records: May 1968 to current year (partial-record station).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.						
11...	2	1130	12.5	1200	8	26
NOV.						
07...	2	1130	13.0	1450	3	12
DEC.						
08...	2	0930	9.0	1700	22	101
JAN.						
04...	2	1030	5.5	1600	9	39
Feb.						
06...	2	1130	4.0	2620	10	71
MAR.						
07...	2	1030	10.0	2000	8	43
Apr.						
02...	2	1745	9.0	3970	42	450
APR.						
02...	2	2000	10.5	4140	42	469
APR.						
02...	2	2200	10.5	4220	72	820
APR.						
02...	2	2400	10.5	4300	118	1370
APR.						
03...	2	0200	10.5	4390	74	877
APR.						
03...	2	0600	10.5	4490	49	594
APR.						
28...	2	1330	12	15500	151	6320
JULY						
03...	2	1410	26.0	335	6	5.4
JULY						
25...	2	0910	22.5	825	31	69
SEPT.						
19...	2	0930	17.0	345	8	7.5

MONONGAHELA RIVER BASIN

03061000 WEST FORK RIVER AT ENTERPRISE, W. VA.

LOCATION.--Lat 39°25'20", long 80°16'40", Harrison County, 150 ft (46 m) downstream from highway bridge at Enterprise, 0.8 mi (1.3 km) upstream from Bingamon Creek, and at mile 12.1 (19.5 km).

DRAINAGE AREA.--759 mi² (1,966 km²).

PERIOD OF RECORD.--Sediment records: May 1968 to current year (partial-record station).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC.						
21...	2	1100	5.0	2480	54	362
FEB.						
22...	2	1230	2.0	1080	42	122
APR.						
20...	2	1500	15.0	1240	28	94
APR.						
27...	2	1215	11.0	7510	500	10100
APR.						
27...	2	1220	11.0	7590	448	9180
APR.						
27...	2	1225	11.0	7660	442	8690
APR.						
27...	2	1230	11.0	7740	444	9280
APR.						
27...	2	1245	11.0	7890	482	10300
APR.						
27...	2	1340	11.0	8770	654	15500
APR.						
27...	2	1345	11.0	8830	596	14200
APR.						
27...	22	1350	11.0	8880	594	14200
APR.						
27...	2	1400	11.0	9020	581	14100
APR.						
27...	2	1410	11.0	9070	585	14300
APR.						
28...	2	1125	10.5	13500	445	16200
MAY						
22...	2	1550	17.0	495	40	53
JUNE						
20...	2	1445	27.0	187	9	4.5
AUG.						
22...	2	1330	19.0	1130	103	338
SEPT.						
18...	2	1545	19.5	1250	407	1370

03069000 SHAVERS FORK AT PARSONS, W. VA.

LOCATION.--Lat 39°05'45", long 79°40'40", Tucker County, at intake to industrial water supply system, Armour Leather Company plant at Parsons, and 0.4 mi (0.6 km) downstream from gaging station.

DRAINAGE AREA.--214 mi² (554 km²) at gaging station.

PERIOD OF RECORD.--Water temperatures: October 1964 to December 1948, April to September 1949, January to September 1950, October 1952 to September 1964, water year 1973 (partial-record).

EXTREMES.--1946-50, 1952-64:

Water Temperatures: Maximum, 30.5°C Aug. 26, 1959; minimum, freezing point on many days during winter months.

REMARKS.--Records furnished by Armour Leather Company. Water temperature records collected at site January 1966 to September 1972 are contained in files of U.S. Geological Survey.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	6.5	2.0	---	3.5	3.5	---	---	---	---	25.5	---
2	19.0	6.5	.5	3.5	3.5	3.5	8.5	15.5	---	23.0	---	---
3	18.0	6.5	---	3.5	3.5	---	9.0	15.5	---	23.5	25.5	18.0
4	---	6.5	---	---	---	---	9.0	15.5	21.0	---	25.5	18.0
5	16.0	---	2.0	3.5	3.5	---	9.0	15.5	21.0	24.5	---	18.0
6	16.0	7.5	2.0	3.5	3.5	3.5	---	---	---	24.5	25.5	18.0
7	---	---	2.0	---	---	4.0	9.0	15.5	21.0	24.5	25.5	18.0
8	---	8.0	2.0	3.5	3.5	5.5	---	15.5	21.0	---	25.5	---
9	15.0	8.0	2.0	3.5	3.5	6.5	9.5	15.5	21.0	25.5	25.5	---
10	11.0	8.0	---	3.5	3.5	8.0	10.5	15.5	---	25.5	---	18.0
11	10.0	8.0	2.0	3.5	---	---	12.0	15.5	21.0	26.0	25.5	18.0
12	10.0	---	---	---	3.5	8.0	13.0	15.5	21.0	26.0	---	18.0
13	10.0	7.0	2.0	3.5	3.5	8.5	13.5	---	21.0	26.0	25.0	---
14	10.0	6.5	2.0	---	3.5	10.5	13.5	15.5	21.0	26.0	23.5	18.0
15	---	5.5	2.0	3.5	3.5	10.0	---	16.5	21.0	---	22.0	---
16	8.5	5.5	2.0	3.5	3.5	9.5	---	---	21.0	26.0	20.5	---
17	7.5	5.5	---	3.5	3.5	8.5	14.5	16.5	---	25.5	19.0	---
18	6.5	5.5	2.0	3.5	---	---	14.5	16.5	21.0	25.5	19.0	18.0
19	6.5	---	2.0	3.5	3.5	8.5	14.5	16.5	21.5	25.5	---	18.0
20	6.5	4.0	2.0	---	3.5	8.5	15.0	---	21.5	25.5	---	18.0
21	6.5	3.5	2.0	---	3.5	---	15.5	18.0	21.5	25.5	17.5	---
22	---	3.5	2.0	3.5	3.5	8.5	---	18.0	21.5	---	16.5	18.0
23	6.5	3.5	2.0	3.5	3.5	9.0	15.5	18.0	---	25.5	16.5	---
24	6.5	3.5	2.0	3.5	3.5	9.0	---	18.0	---	25.5	16.5	18.0
25	6.5	3.5	2.0	3.5	---	---	15.5	18.0	21.5	25.5	16.5	18.0
26	6.5	---	2.5	3.5	3.5	8.5	15.5	18.0	21.5	25.5	---	18.0
27	6.5	3.5	2.5	3.5	3.5	8.5	---	---	21.5	25.5	16.5	18.0
28	---	2.0	2.5	---	3.5	8.5	15.5	---	22.0	---	18.0	18.0
29	---	2.0	2.5	3.5	---	---	---	---	22.0	---	18.0	18.0
30	---	2.0	2.5	3.5	---	8.5	15.5	---	---	25.5	18.0	---
31	6.5	---	---	3.5	---	8.5	---	---	---	25.5	18.0	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	MAX	26.0	MIN	0.5	MEAN	12.0						

C3070000 CHEAT RIVER AT ROWLESBURG, W. VA.

LOCATION.--Lat 39°20'50", long 79°40'00", Preston County, 50 ft (15 m) downstream from Baltimore & Ohio Railroad bridge at Rowlesburg, 300 ft (91 m) upstream from Saltlick Creek, and at mile 44.1 (71.0 km).

DRAINAGE AREA.--972 mi² (2,517 km²).

PERIOD OF RECORD.--Sediment records: April 1968 to current year (partial-record station).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.						
12...	2	1600	12.0	1320	2	7.1
DEC.						
08...	2	1300	5.0	5910	6	96
JAN.						
05...	2	1330	3.0	8750	9	213
FEB.						
08...	2	1245	4.0	3450	4	37
MAR.						
08...	2	1210	10.0	4180	8	90
APR.						
04...	2	1630	7.0	6440	14	243
APR.						
04...	2	1830	7.0	6880	51	947
APR.						
04...	2	2030	7.0	7490	17	344
APR.						
04...	2	2230	7.0	7870	16	340
APR.						
05...	2	0230	7.0	8480	23	527
APR.						
05...	2	0630	7.0	8320	19	427
APR.						
05...	2	0830	7.0	8230	15	333
MAY						
11...	2	1400	19.0	3680	6	60
JUNE						
15...	2	1100	20.0	1260	9	31
JULY						
12...	2	1135	22.0	201	2	1.1
AUG.						
16...	2	1310	21.5	2600	22	154
SEPT.						
13...	2	1040	20.0	125	1	0.34

03071600 CHEAT RIVER AT LAKE LYNN, PA.

LOCATION.--Lat 39°43'15", long 79°51'20", Fayette County, at the Lake Lynn hydroelectric plant of the West Penn Power Company at Lake Lynn, 3.0 mi (4.8 km) upstream from mouth.

DRAINAGE AREA.--1,411 mi² (3,654 km²).

PERIOD OF RECORD.--Water temperatures: October 1948 to September 1957, water years 1958 to current year (partial-record).

EXTREMES.--1948-57:

Water temperatures: Maximum, 29.5°C July 30, 1949, July 28, 1952, and Aug 6, 1955; minimum, 0.5°C several days during 1951, 1952, 1954, 1955, 1957.

REMARKS.--Records furnished by the West Penn Power Company.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11.5	3.5	---	1.0	2.0	---	11.0	19.0	27.0	25.5	29.0
2	22.0	13.0	---	6.0	3.5	3.0	10.0	11.5	---	28.0	25.5	29.0
3	22.0	13.0	---	5.5	---	---	9.5	10.0	---	27.5	26.0	29.0
4	21.0	---	4.0	5.0	---	---	9.0	9.5	21.0	---	---	29.0
5	20.5	---	5.0	4.5	4.5	6.5	9.5	---	23.0	26.5	---	28.5
6	20.5	12.0	4.5	---	4.5	8.0	10.0	---	23.0	26.0	27.0	28.0
7	---	11.5	5.5	---	4.5	8.0	---	14.0	24.0	---	28.0	26.5
8	---	11.5	8.0	3.5	4.0	9.0	---	14.5	25.5	---	28.0	---
9	14.0	11.0	---	3.5	3.5	10.0	8.0	14.5	26.0	28.0	28.0	---
10	15.5	11.0	---	3.5	---	---	7.5	15.0	26.5	28.0	27.5	25.5
11	17.0	---	8.0	2.5	---	---	6.5	13.5	28.0	26.0	---	25.0
12	15.0	---	8.0	1.0	3.5	10.0	6.5	---	28.0	26.0	---	24.5
13	14.5	8.5	6.5	---	2.5	11.0	6.5	---	26.5	25.5	26.5	24.0
14	---	9.0	5.5	---	2.0	13.0	---	14.5	24.5	---	26.0	23.5
15	---	8.5	6.0	1.0	1.0	12.5	---	14.5	25.0	---	26.0	---
16	13.5	9.0	---	1.0	0.0	12.0	7.0	14.0	---	26.0	26.5	---
17	13.5	9.0	---	2.0	---	---	8.0	13.5	---	26.0	26.5	23.5
18	13.5	---	4.5	2.0	---	---	9.0	13.5	25.0	25.5	---	23.0
19	13.0	---	3.5	2.5	---	10.0	12.0	---	25.0	26.5	---	23.5
20	14.5	6.5	2.5	---	0.5	9.5	13.0	---	25.5	27.0	25.5	22.0
21	---	6.5	3.0	---	0.5	9.0	---	14.0	25.5	---	24.5	22.5
22	---	5.5	3.5	3.0	0.0	8.0	---	15.0	26.0	---	24.5	---
23	---	---	---	3.0	0.0	6.5	---	15.5	---	26.0	24.5	---
24	12.5	5.5	---	2.5	---	---	14.5	15.0	---	26.5	24.5	23.5
25	12.5	---	---	2.5	---	---	14.5	15.5	26.5	26.0	---	20.0
26	13.5	---	5.5	3.0	1.0	8.5	14.5	---	26.0	25.5	---	23.0
27	13.5	4.5	5.5	---	1.0	7.5	13.5	---	26.0	25.0	26.5	23.5
28	---	4.0	5.5	---	1.0	9.0	---	18.0	25.5	---	27.0	23.0
29	---	3.5	---	1.0	---	9.0	---	18.0	25.5	27.0	29.5	---
30	12.5	3.5	---	0.5	---	10.0	9.0	18.5	---	27.0	29.0	---
31	11.5	---	---	0.5	---	---	---	18.0	---	26.0	29.0	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YFAR	MAX	29.5	MIN	0.0	MEAN	14.5						

MIDDLE ISLAND CREEK BASIN

03114500 MIDDLE ISLAND CREEK AT LITTLE, W. VA.

LOCATION.--Lat 39°28'30", long 80°59'50", Tyler County, at highway bridge at Little, 0.1 mi (0.2 km) upstream from Stewarts Run, 5.0 mi (8.0 km) west of Middlebourne, and at mile 24.5 (39.4 km).

DRAINAGE AREA.--458 mi² (1,186 km²).

PERIOD OF RECORD.--Sediment records: April 1968 to current year (partial-record station).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.						
18...	2	1130	11.0	17	14	0.64
NOV.						
14...	2	1240	10.0	160	17	7.3
DEC.						
12...	2	1450	9.0	1440	35	136
JAN.						
10...	2	1230	2.0	360	8	7.8
MAR.						
12...	2	1100	11.0	410	22	24
JUNE						
19...	2	0945	22.0	38	495	51
JULY						
17...	2	0845	-	6.8	34	0.62
AUG.						
15...	2	0935	23.5	24	60	3.9

03153500 LITTLE KANAWHA RIVER AT GRANTSVILLE, W. VA.

LOCATION.--Lat 38°55'20", long 81°05'50", Calhoun County, 1,000 ft (305 m) downstream from bridge on State Highway 16 at Grantsville, 1,200 ft (366 m) downstream from Philip Run, and at mile 80.0 (128.7 km).

DRAINAGE AREA.--913 mi² (2,365 km²).

PERIOD OF RECORD.--Sediment records: January 1968 to current year (partial-record station).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.						
02...	2	1000	17.0	348	18	17
OCT.						
18...	2	1400	12.0	184	16	7.9
DEC.						
07...	2	1300	8.0	9300	91	2290
DEC.						
22...	2	1115	7.0	12600	185	6290
JAN.						
23	2	1100	7.0	1280	11	38
FEB.						
21	2	1030	4.0	1060	8	23
MAR.						
27...	2	1030	-	3640	241	2370
APR.						
09...	2	0735	5.0	15000	307	12400
APR.						
18...	2	1315	-	1300	198	695
JUNE						
19...	2	1150	-	240	25	16
JULY						
17...	2	1130	-	313	51	43
SEPT.						
17...	2	1330	26.0	260	115	81

03179000 BLUESTONE RIVER NEAR PIPESTEM, W. VA.

LOCATION.--Lat 37°32'45", long 81°00'30", Summers County, 1.2 mi (1.9 km) downstream from Mountain Creek, 2.5 mi (4.0 km) west of Pipestem, and at mile 8.0 (12.9 km).

DRAINAGE AREA.--363 mi² (940 m²).

PERIOD OF RECORD.--Sediment records: March 1968 to current year (partial-record station).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 03...	2	1110	12.0	495	31	41
OCT. 26...	2	0930	9.0	183	2	0.99
NOV. 27...	2	1130	4.0	575	4	6.2
DEC. 26...	2	1230	4.0	915	24	59
JAN. 23...	2	0910	3.0	255	2	1.4
FEB. 28...	2	1330	---	617	14	23
APR. 04...	2	1100	---	620	7	12
APR. 24...	2	1130	---	381	29	30
MAY 22...	2	1120	---	189	9	4.6
JUNE 28...	2	1130	---	148	17	6.8
AUG. 22...	2	1130	---	420	95	108
SEPT. 26...	2	1105	20.0	46	1	0.12

03182000 KNAPP CREEK AT MARLINTON, W. VA.

LOCATION.--Lat 38°12'40", long 80°04'30", Pocahontas County, at city water plant, at Marlinton, 1.0 mi (1.6 km) upstream from mouth, and 2.0 mi (3.2 km) downstream from discontinued gaging station.

DRAINAGE AREA.--108 mi² (280 km²) at discontinued gaging station.

PERIOD OF RECORD.--Water temperatures: October 1946 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 24.5°C Sept. 1; minimum, freezing point on many days during winter months.

Period of record:

Water temperatures: Maximum, 28°C July 24, 1952 and June 2, 1959; minimum, freezing point on many days during winter months.

REMARKS.--Records furnished by Marlinton city water plant.

TEMPERATURE(°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	9.5	2.5	2.5	1.5	4.5	9.5	9.5	13.5	18.0	20.0	24.5
2	15.5	10.0	3.5	1.5	2.5	4.5	6.5	12.0	14.5	20.5	21.0	23.5
3	13.0	10.5	4.5	1.0	3.0	3.5	5.5	13.0	15.5	20.0	20.0	23.5
4	13.5	9.5	5.5	3.0	3.5	3.5	4.5	11.0	16.0	21.0	20.5	24.0
5	15.5	9.0	4.5	2.5	2.5	3.5	3.5	9.0	18.5	18.5	21.0	23.5
6	15.5	8.0	4.5	1.0	2.0	5.5	3.5	10.0	18.0	19.0	21.0	22.5
7	14.5	7.5	3.5	0.0	1.5	4.5	2.5	12.0	15.0	20.0	21.5	22.0
8	14.5	6.5	4.0	0.0	3.0	4.5	3.5	11.0	18.0	20.0	21.0	21.0
9	13.5	5.5	4.5	0.0	0.5	5.5	6.0	13.5	18.0	21.0	21.5	21.0
10	12.5	5.5	3.5	0.0	0.0	5.5	5.5	12.5	18.5	21.0	21.5	20.0
11	11.0	6.5	3.5	0.0	0.0	5.5	4.5	11.0	19.5	21.0	21.0	18.5
12	11.0	5.5	4.5	0.0	0.5	7.0	4.5	11.0	20.5	18.5	21.0	18.5
13	11.5	6.5	5.5	0.0	0.0	6.5	5.5	11.0	21.0	19.5	22.0	18.0
14	11.0	8.0	4.5	0.0	1.5	8.0	5.5	13.0	21.0	20.5	21.5	16.5
15	12.0	4.5	3.5	0.5	2.0	9.0	4.5	12.0	20.0	21.5	21.5	16.5
16	12.5	2.5	1.0	1.0	0.0	10.0	7.0	11.0	21.0	21.0	21.0	16.5
17	13.0	3.5	0.0	1.5	0.0	8.0	8.0	11.0	20.0	19.5	20.5	15.5
18	12.0	3.5	0.0	2.0	0.0	1.0	8.0	10.0	15.5	20.5	21.0	15.5
19	10.0	3.5	1.5	2.0	0.0	1.5	9.0	12.0	18.0	20.5	20.5	16.5
20	5.5	2.5	2.0	1.0	0.0	2.0	8.0	13.0	19.0	20.5	19.5	15.5
21	5.5	2.0	2.0	0.0	1.0	1.0	9.0	13.0	20.5	20.0	18.5	17.0
22	7.0	1.5	2.5	1.5	0.0	0.0	10.0	14.0	18.0	21.0	19.5	18.0
23	9.0	1.5	4.5	2.0	1.0	0.0	12.0	14.0	16.0	20.0	18.5	16.5
24	8.0	1.0	4.5	1.0	1.0	0.0	13.5	13.5	18.0	21.0	18.5	14.5
25	9.0	1.5	5.5	0.0	2.0	1.5	12.0	13.5	18.0	20.5	19.5	15.5
26	9.0	2.5	6.0	0.5	3.0	3.0	11.0	14.0	19.0	21.0	20.5	17.0
27	9.0	3.5	1.5	1.5	4.0	4.0	10.0	14.5	20.0	21.0	21.5	17.5
28	10.0	2.5	1.0	1.0	4.5	5.5	9.0	14.5	18.5	20.5	22.0	18.0
29	11.0	1.5	0.0	0.0	---	5.5	8.0	13.0	18.0	20.0	23.5	18.5
30	10.0	1.5	1.0	0.0	---	7.0	8.5	14.0	18.0	21.0	23.5	16.5
31	10.0	---	2.0	1.0	---	7.0	---	14.5	---	20.0	22.5	---
MONTH	11.0	5.0	3.0	1.0	1.5	4.5	7.5	12.5	18.0	20.5	21.0	18.5
YEAR	MAX	24.5	MIN	0.0	MEAN	10.5						

KANAWHA RIVER BASIN

03184000 GREENBRIER RIVER AT HILLDALE, W. VA.

LOCATION.--Lat 37°38'25", long 80°48'20", Summers County, 100 ft (30 m) downstream from highway bridge on State Highway 3 at Hilldale, 0.1 mi (0.2 km) upstream from Howard Creek, 0.9 mi (1.4 km) upstream from Powley Creek, 5.0 mi (8.0 km) southeast of Hinton, and at mile 5.6 (9.0 km).

DRAINAGE AREA.--1,625 mi² (4,209 km²), includes that of Howard Creek.

PERIOD OF RECORD.--Sediment records: March 1968 to current year (partial-record station).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 04...	2	1430	13.0	470	36	46
OCT. 24...	2	1120	10.0	845	3	6.8
NOV. 29...	2	1025	4.0	3760	3	30
JAN. 24...	2	1330	2.0	2160	6	35
FEB. 28...	2	1150	7.0	1850	9	45
MAR. 27...	2	1100	---	5400	50	729
APR. 26...	2	0800	---	3330	62	557
MAY 29...	2	1545	---	19400	119	6230
SEPT. 05...	2	1530	26.0	145	1	0.39

KANAWHA RIVER BASIN

03189100 GAULEY RIVER NEAR CRAIGSVILLE, W. VA.

LOCATION.--Lat 38°17'30", long 80°38'30", Nicholas County, at highway bridge on W. Va. Route 20, 200 ft (61 m) downstream from Cherry River, 1.8 mi (2.9 km) downstream from Cranberry River, and 2.7 mi (4.3 km) south of Craigsville, and at mile 60.0 (96.5 km).

DRAINAGE AREA.--528 mi² (1,368 km²).

PERIOD OF RECORD.--Sediment records: April 1968 to July 1973 (partial-record station), discontinued.

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 24...	2	1615	10.0	732	1	2.0
DEC. 01...	2	1210	2.0	1290	4	14
FEB. 08...	2	0730	4.0	2170	4	23
MAR. 14...	2	1200	---	3000	2	16
APR. 19...	2	0845	---	4040	12	131
MAY 19...	2	1510	---	885	1	2.4
JUNE 11...	2	1505	---	517	2	2.8
JULY 18...	2	1300	---	374	6	6.1

LOCATION.--Lat 38°08'20", long 81°12'45", Fayette County, temperature recorder at gaging station on right bank 150 ft (46 m) downstream from toll bridge, 0.8 mi (1.3 km) downstream from village of Kanawha Falls, 2.0 mi (3.2 km) downstream from Gauley Bridge, 2.0 mi (3.2 km) downstream from confluence of New River and Gauley River, and at mile 94.5 (152.1 km).

PERIOD OF RECORD.--Water temperatures: December 1957 to September 1966, July 1968 to current year.

Water temperatures: Maximum, 27.0°C Aug. 31 to Sept. 6; minimum, 0.5° C Jan. 11-16.

Water temperatures: Maximum, 28.5°C Aug. 20, 1959, June 29, July 28, 29, 1964; minimum, freezing point on several days during 1958-60, 1963, 1971.

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

KANAWHA RIVER BASIN

03193770 KANAWHA RIVER AT CABIN CREEK, W. VA.

LOCATION.--Lat 38°11'58", long 81°28'41", Kanawha County, at the Appalachian Electric Power Company, Cabin Creek steam electric cooling water intakes, at Cabin Creek.

DRAINAGE AREA.--8,661 mi² (22,432 km²).

PERIOD OF RECORD.--Water temperatures: October 1950 to September 1972, October 1972 to September 1973 (partial-record).

EXTREMES.--1950-72:

Water temperatures: Maximum, 33°C on several days in August 1955 and 1959; minimum, freezing point Feb. 10, 1951, Feb. 14-16, 1958, Jan. 16, 1964, and Feb. 2, 3, 1971.

REMARKS.--Records furnished by the Appalachian Electric Power Company. Number of missing days of record exceed 20 percent of year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.0	6.0	---	7.5	5.5	---	---	18.0	---	27.0	---
2	20.0	13.5	5.5	7.0	4.5	5.5	---	13.0	18.0	25.5	28.0	28.0
3	20.0	13.5	---	7.5	4.5	---	13.0	16.5	---	24.0	26.5	---
4	20.0	14.0	6.0	7.5	---	---	13.0	13.0	20.0	---	26.5	30.0
5	20.0	---	6.5	6.0	5.0	8.5	11.5	12.5	20.0	26.5	---	30.0
6	19.0	13.0	6.5	6.0	---	9.0	10.0	---	21.0	26.5	27.0	30.0
7	---	12.5	6.5	---	5.0	9.0	10.0	13.5	22.0	27.0	26.5	30.0
8	---	12.0	6.5	4.0	5.5	10.5	10.0	14.0	21.0	---	28.0	---
9	16.0	12.0	7.0	3.0	5.0	11.0	10.0	16.0	22.5	28.0	28.0	---
10	15.5	11.5	8.5	3.0	3.5	11.5	10.0	14.5	---	27.5	28.5	28.0
11	15.5	11.5	8.5	2.5	---	---	7.5	16.0	23.5	29.0	---	28.5
12	15.0	---	8.5	1.0	2.0	---	8.0	---	24.5	---	---	---
13	16.0	11.0	9.0	2.0	2.0	12.0	8.0	---	25.0	---	29.0	26.0
14	16.0	11.0	9.5	---	2.5	12.5	---	15.0	24.5	28.0	29.0	26.0
15	16.5	11.0	8.5	1.0	3.0	13.0	---	16.0	25.0	---	---	---
16	16.5	10.0	8.0	1.0	3.0	13.5	9.5	15.5	25.5	26.5	29.0	---
17	16.5	10.0	5.5	1.0	2.5	13.5	10.5	16.5	25.0	26.5	27.0	---
18	16.5	9.5	5.0	1.5	---	10.5	11.0	15.0	25.0	---	27.0	24.0
19	16.0	9.0	4.0	1.5	1.0	8.5	---	---	24.5	23.5	---	23.5
20	---	8.5	4.0	1.5	2.0	9.0	---	---	22.5	---	26.5	23.0
21	14.5	8.0	4.5	---	2.5	8.5	---	---	24.5	25.0	26.0	23.0
22	14.0	8.0	5.0	2.5	3.0	5.0	---	16.0	24.5	---	26.0	23.5
23	13.0	8.0	5.0	4.5	2.5	7.0	15.0	18.5	24.5	27.5	24.5	23.5
24	14.0	7.5	---	4.5	3.0	8.0	15.0	16.5	24.5	---	23.0	23.5
25	12.5	7.0	---	5.5	---	---	16.0	16.5	24.5	27.0	23.0	24.0
26	14.0	6.5	8.0	5.5	4.5	9.5	---	16.5	24.5	26.5	---	24.5
27	14.0	5.5	7.5	5.0	5.0	9.5	14.0	---	26.0	26.0	23.0	24.5
28	14.0	6.0	6.5	---	5.5	9.0	12.5	---	26.5	---	25.5	24.5
29	---	6.0	6.0	6.0	---	10.0	---	18.0	25.5	---	27.0	---
30	14.0	6.0	6.0	4.0	---	10.0	11.5	18.0	26.0	26.5	27.0	---
31	13.5	---	---	3.5	---	10.5	---	17.5	---	27.0	---	---
MONTH	16.0	10.0	6.5	4.0	3.5	9.5	---	---	23.5	---	---	---
YEAR	MAX	30.0	MIN	1.0	MEAN	14.5						

KANAWHA RIVER BASIN

03194700 ELK RIVER BELOW WEBSTER SPRINGS, W. VA.

LOCATION.--Lat 38°35'50", long 80°29'20", Webster County, 6.5 mi (10.5 km) upstream from town of Centralia, 8.9 mi (14.3 km) southwest of Salisbury Station, 8.9 mi (14.3 km) northwest of Webster Springs, and at mile 122.7 (197.4 km).

DRAINAGE AREA.--268 mi² (694 km²).

PERIOD OF RECORD.--Sediment records: April 1968 to current year (partial-record station).

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TYPE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.						
24...	2	1305	11.0	432	1	1.2
NOV.						
30...	2	1135	4.0	864	5	12
JAN.						
10...	2	1230	1.5	396	2	2.1
FEB.						
05...	2	1330	5.5	1120	5	15
MAR.						
12...	2	1250	11.0	516	2	2.8
APR.						
18...	2	1250	---	3470	54	506
MAY						
18...	2	1435	---	3280	64	567
JUNE						
14...	2	1230	12.0	729	2	3.9
JULY						
11...	2	0940	---	238	4	2.6
SEPT.						
18...	2	0915	---	135	4	1.5
11...	2	1730	21.5	141	1	.38

LOCATION.--Lat 38°39'45", long 80°42'35", Braxton County, temperature recorder at gaging station on left bank 150 ft (46 m) upstream from highway bridge at Sutton, 0.5 mi (0.8 km) upstream from Granny Creek, 0.9 mi (1.4 km) downstream from Sutton Dam, 2.5 mi (4.0 km) downstream from Wolf Creek, and at mile 100.1 (161.1 km).

PERIOD OF RECORD.--Water temperatures: March 1960 to current year.

Water temperatures: Maximum, 27.0°C July 13; minimum, freezing point Dec. 19, 20.

Water temperatures: Maximum, 29.0°C Aug. 30 and Sept. 1, 1960; minimum, freezing point Feb. 25, 26, 1963, many days during December 1968, January 1969, January 1970, and Dec. 19, 20, 1972.

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	20.5	10.5	10.0	4.5	3.5	5.5	3.5	4.0	3.5	6.0	6.0
2	21.0	20.0	11.0	10.0	7.5	3.5	6.5	5.5	5.0	4.0	6.0	5.5
3	20.0	17.5	10.5	10.0	4.0	3.5	6.0	5.5	7.5	6.0	6.5	6.0
4	17.5	17.0	10.0	10.0	5.0	4.0	5.5	4.0	7.5	6.0	8.5	6.5
5	17.0	17.0	10.5	10.0	5.5	5.0	4.0	3.5	5.0	5.0	9.0	8.5
6	19.5	16.5	10.5	10.5	8.5	6.5	4.0	4.0	5.0	5.5	10.0	8.5
7	18.0	16.0	10.5	9.5	8.0	6.5	4.0	3.0	6.0	6.0	10.5	9.5
8	16.0	14.5	9.5	9.0	6.5	4.5	3.0	1.5	6.0	6.0	11.5	10.5
9	14.5	13.5	8.0	8.0	6.5	4.5	1.5	1.0	6.0	4.5	12.5	11.0
10	13.5	12.5	9.0	7.0	7.5	6.5	1.0	1.0	4.5	3.5	12.5	11.5
11	12.5	11.5	7.0	6.5	7.0	6.0	1.0	1.0	3.5	3.0	12.5	12.0
12	11.5	11.0	6.5	6.5	7.5	6.5	1.0	1.0	3.0	3.0	12.5	12.5
13	11.0	11.0	7.0	6.5	7.5	7.5	1.5	1.0	3.0	2.5	14.0	12.5
14	11.0	11.0	7.0	7.0	7.5	7.0	1.5	1.0	2.5	2.5	13.5	12.5
15	11.0	11.0	7.0	7.0	7.0	5.0	1.0	1.0	3.5	2.5	14.0	12.5
16	11.0	11.0	7.0	7.0	6.0	5.5	1.5	1.0	4.5	3.5	14.0	13.0
17	11.0	10.5	7.0	5.5	5.5	4.5	1.5	1.5	4.5	3.5	14.0	13.0
18	10.5	10.5	5.5	5.0	4.5	1.0	1.5	1.0	3.5	2.5	13.0	8.0
19	11.0	10.5	5.0	5.0	1.0	0.0	2.0	1.5	2.5	2.5	8.5	6.5
20	10.5	10.5	5.0	4.5	1.5	0.0	2.0	1.5	2.5	2.5	7.0	6.0
21	10.5	10.5	5.5	5.0	4.0	1.5	1.5	1.5	2.5	2.5	7.0	6.5
22	10.5	8.5	5.5	5.0	5.5	4.0	2.0	1.5	3.0	2.5	7.0	6.5
23	8.5	7.5	5.0	4.0	5.5	5.5	3.5	2.0	3.5	3.0	7.0	6.5
24	7.5	7.5	4.0	3.5	6.0	5.5	4.5	3.5	3.5	3.0	6.5	6.5
25	8.0	7.5	4.0	4.0	6.0	5.0	5.5	4.5	3.5	3.0	8.0	6.5
26	9.5	8.0	4.0	3.5	6.0	5.5	5.0	4.5	4.0	3.5	8.0	7.5
27	9.5	9.0	3.5	3.0	5.5	5.0	4.5	4.0	5.0	4.0	9.0	8.0
28	10.0	9.5	4.0	3.5	5.0	4.0	5.5	4.5	6.0	5.0	9.5	9.0
29	9.5	9.5	4.5	4.0	4.0	3.0	6.5	5.5	---	---	9.5	9.0
30	10.0	9.5	4.5	4.5	3.0	3.0	6.5	4.5	---	---	10.0	9.5
31	10.0	10.0	---	---	3.5	3.0	5.0	4.0	---	---	11.0	10.0
MONTH	21.0	7.5	11.0	3.0	8.5	0.0	6.5	1.0	7.5	2.5	14.0	5.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	10.0	12.0	11.5	13.0	17.0	23.0	21.0	22.5	21.5	23.0	19.5
2	10.5	10.0	11.5	11.0	18.0	17.5	22.0	21.0	22.5	22.0	23.0	19.5
3	11.5	10.5	11.0	11.0	18.0	17.5	25.5	21				

LOCATION.--Lat 38°28'20", long 81°17'10", Kanawha County, temperature recorder at gaging station on right bank 50 ft (15 m) upstream from Queen Shoals Creek, 100 ft (30 m) downstream from highway bridge at Queen Shoals, 4.0 (6.4 m) upstream from Big Sandy Creek, and at mile 25.8 (41.5 km).

PERIOD OF RECORD.--Water temperatures: November 1960 to current year.

Water temperatures: Maximum, 24.5°C June 12, 13; minimum, freezing point Jan. 20, 22, 23, Feb. 1, 2.

Water temperatures: Maximum, 29.0°C on several days in July 1963, 1964, and 1968; minimum, freezing point on many days during winter months most years.

OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	17.0	11.0	11.0	6.0	5.0	---	---	1.0	0.0	6.0	5.5
2	17.0	17.0	11.0	11.0	5.0	5.0	6.0	6.0	1.0	0.0	5.5	5.5
3	17.0	17.0	11.5	11.0	5.0	5.0	6.0	5.0	2.5	1.0	6.5	5.5
4	17.0	17.0	11.5	11.5	5.0	5.0	5.0	5.0	2.5	2.5	7.5	6.5
5	17.0	17.0	11.5	11.5	6.0	5.0	5.0	5.0	2.5	2.0	8.0	7.5
6	17.0	17.0	11.5	11.0	7.0	6.0	5.5	5.0	2.5	2.5	8.5	8.0
7	17.0	17.0	11.0	11.0	7.0	7.0	5.0	4.5	2.5	2.5	9.5	8.5
8	17.0	17.0	11.0	11.0	7.0	7.0	4.5	4.5	3.0	2.5	9.5	9.5
9	17.0	16.0	11.0	10.5	7.0	7.0	5.5	4.5	3.5	3.0	10.0	9.5
10	16.0	15.5	10.5	10.0	7.5	7.0	5.5	4.5	4.0	3.5	10.0	10.0
11	15.5	15.0	10.0	10.0	8.0	7.5	5.5	4.5	3.5	2.5	11.0	10.0
12	15.0	14.5	10.0	9.5	7.5	6.5	5.0	4.5	5.0	2.5	11.0	11.0
13	14.5	14.5	9.5	9.5	7.0	6.5	5.0	4.0	3.5	2.0	11.0	11.0
14	14.5	14.5	9.5	9.5	7.5	7.0	5.0	3.0	2.0	2.0	11.0	11.0
15	14.5	14.5	9.5	9.5	7.5	7.5	3.0	3.0	3.0	2.0	11.0	11.0
16	14.5	14.0	10.5	9.5	7.5	7.5	3.0	1.5	4.5	3.0	11.5	11.0
17	14.0	13.0	10.0	10.0	7.5	7.0	2.5	1.0	5.5	4.5	12.0	11.5
18	13.0	13.0	10.0	9.5	7.0	6.5	1.5	0.5	6.5	4.0	11.5	9.0
19	13.0	13.0	10.5	9.5	6.5	5.5	0.5	0.5	4.0	3.0	9.5	8.5
20	13.0	12.0	9.0	9.0	5.5	5.0	1.0	0.0	3.5	3.0	9.0	8.5
21	12.0	11.0	9.0	9.0	5.0	5.0	2.0	0.5	4.0	3.5	8.5	8.5
22	11.0	11.0	9.0	8.0	---	---	0.5	0.0	4.5	4.0	8.5	7.5
23	11.0	10.5	8.0	8.0	---	---	1.0	0.0	4.5	3.5	7.5	7.5
24	11.0	10.5	8.0	7.0	---	---	1.0	0.5	3.5	3.5	8.0	7.5
25	11.5	11.0	7.0	7.0	---	---	1.5	1.0	4.5	3.5	8.5	7.5
26	11.5	11.5	7.0	7.0	---	---	1.0	0.5	4.5	4.5	8.5	8.5
27	11.5	10.5	7.0	6.0	---	---	1.0	0.5	5.0	4.5	8.5	8.5
28	10.5	10.5	6.0	6.0	---	---	1.0	0.5	5.0	5.0	8.5	8.5
29	11.0	10.5	5.0	6.0	---	---	1.5	1.0	---	---	9.5	8.5
30	11.0	11.0	5.0	6.0	---	---	2.0	1.5	---	---	9.5	8.5
31	11.0	11.0	---	---	---	---	2.0	1.0	---	---	10.0	9.5
MONTH	17.5	10.5	11.5	6.0	---	---	6.0	0.0	6.5	0.0	12.0	5.5
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	12.0	12.0	19.0	17.5	23.5	23.0	19.0	19.0	---	---
2	11.5	10.5	12.0	12.0	19.0	18.0	23.0	23.0	19.0	19.0	---	---
3	11.5	11.5	12.5	12.5								

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.5	23.0	13.5	13.0	7.0	7.0	8.0	7.5	5.5	5.0	7.5	7.0
2	23.0	21.5	13.0	13.0	7.5	6.5	8.0	8.0	6.0	5.5	7.5	7.5
3	21.5	21.0	13.0	13.0	7.5	7.0	8.5	8.0	6.0	5.0	8.0	7.5
4	21.0	20.5	13.0	13.0	8.0	7.0	8.0	8.0	6.0	5.0	9.0	8.0
5	21.5	21.0	13.0	13.0	8.0	7.5	9.0	7.5	6.0	6.0	10.0	9.0
6	21.5	20.5	13.0	13.0	8.5	8.0	7.5	7.0	6.5	6.0	10.0	9.5
7	20.5	19.0	13.0	12.5	8.5	8.0	7.0	6.5	7.0	6.5	11.0	10.0
8	19.0	19.0	13.0	12.5	8.0	7.0	6.5	5.5	7.0	7.0	11.5	10.0
9	19.0	18.5	12.5	11.5	8.0	7.0	5.5	5.0	7.0	6.0	12.0	11.5
10	19.5	17.0	11.0	10.5	8.5	8.0	5.5	4.0	6.0	5.0	12.5	12.0
11	17.5	17.0	11.0	10.5	8.5	8.5	5.0	4.0	5.5	5.0	12.5	12.5
12	18.0	17.5	10.5	10.5	8.5	8.5	4.5	3.0	5.0	4.5	13.0	12.5
13	18.0	17.5	11.0	10.5	8.5	8.5	4.5	2.5	5.0	4.5	14.0	13.0
14	17.5	17.0	11.0	11.0	9.0	8.5	3.5	2.5	4.5	4.5	14.0	13.0
15	17.5	17.0	11.0	10.5	9.0	8.5	3.5	2.0	4.5	4.5	14.0	13.5
16	17.5	17.0	10.5	10.0	8.5	7.5	3.5	2.0	5.0	4.5	14.0	14.0
17	17.5	16.5	10.5	10.5	7.5	5.5	4.0	3.0	4.5	4.0	14.5	12.5
18	17.5	16.5	10.5	10.0	5.5	5.0	5.0	3.0	4.5	3.5	12.5	10.0
19	16.5	16.0	10.0	10.0	5.0	5.0	5.0	3.5	4.0	4.0	10.0	9.5
20	16.0	15.0	10.0	9.5	5.0	5.0	6.0	5.0	4.5	4.0	9.5	9.5
21	15.0	14.0	9.5	8.5	5.5	5.0	6.0	5.5	4.5	4.0	9.5	9.0
22	14.5	14.0	8.5	8.0	5.5	5.0	6.0	5.0	5.0	4.0	9.0	8.5
23	14.0	14.0	8.0	8.0	6.5	5.0	6.0	6.0	5.0	5.0	8.5	8.5
24	15.0	13.5	8.0	7.5	7.5	6.5	7.0	6.0	5.5	4.5	9.0	8.5
25	14.0	13.0	7.5	7.5	8.0	7.5	7.5	6.0	6.0	5.0	9.5	9.0
26	13.5	12.5	7.5	7.5	8.0	8.0	7.5	7.0	6.5	6.0	10.0	9.0
27	13.5	12.0	7.5	7.0	8.0	7.5	7.5	7.0	7.0	5.0	10.0	10.0
28	13.0	13.0	7.5	7.0	7.5	7.0	7.5	7.0	7.5	6.5	10.5	10.0
29	13.5	13.0	7.5	7.0	7.5	7.0	7.0	6.5	---	---	11.0	10.5
30	13.5	13.5	7.0	7.0	7.5	7.0	6.5	6.0	---	---	11.5	11.0
31	13.5	13.0	---	---	7.5	7.0	5.0	5.5	---	---	11.5	11.5
MONTH	23.5	12.5	13.5	7.0	6.0	5.0	8.5	2.0	7.5	3.5	14.5	7.0
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	11.5	13.0	12.5	19.0	18.0	26.5	26.5	27.0	26.0	25.0	23.5
2	13.0	12.5	14.0	13.0	17.5	19.0	27.5	26.5	28.0	26.5	26.0	23.5
3	13.0	13.0	14.5	14.0	20.5	19.5	27.5	26.5	26.5	25.5	25.5	24.0
4	13.0	12.5	14.5	14.5	21.5	20.5	28.5	27.0	27.0	26.5	25.5	24.0
5	12.5	12.0	14.5	14.0	22.5	21.5	28.5	27.5	27.5	26.5	26.0	25.0
6	13.0	11.5	14.5	14.0	22.5	22.0	29.0	27.5	27.0	26.0	26.0	24.0
7	11.5	11.5	15.0	14.5	23.0	22.5	28.5	27.0	27.0	26.0	25.0	23.0
8	11.5	11.0	15.5	15.0	23.0	22.5	28.5	27.5	28.0	26.0	25.0	23.5
9	11.0	10.5	16.5	15.5	24.0	23.0	29.0	27.5	27.5	26.5	25.0	23.0
10	10.5	10.0	16.5	16.0	25.0	24.0	29.5	27.5	27.5	26.5	24.0	23.0
11	10.0	9.0	16.0	15.5	25.0	24.5	29.5	27.5	28.0	26.5	24.5	23.5
12	9.0	8.5	17.0	16.0	25.5	25.0	29.5	29.0	27.0	26.5	24.5	22.0
13	9.0	8.5	17.0	17.0	26.0	26.5	29.0	28.5	26.5	25.5	24.0	21.5
14	9.5	8.5	17.0	16.5	26.0	25.5	30.0	28.5	27.0	25.0	23.5	21.5
15	9.5	9.5	17.0	16.5	25.0	24.0	30.0	29.0	25.0	24.5	23.5	21.0
16	11.0	9.5	17.5	16.5	25.5	25.5	29.0	29.0	24.5	24.0	22.0	21.0
17	11.0	11.0	17.5	16.5	25.0	25.5	29.0	28.0	24.5	24.0	21.0	20.0
18	11.5	11.0	17.5	16.0	25.5	24.5	29.0	28.0	24.0	23.5	22.0	20.0
19	11.5	11.5	17.5	16.5	25.5	25.5	29.0	26.0	24.0	23.5	20.5	19.5
20	13.0	11.5	17.5	16.5	26.5	24.5	27.0	26.0	24.0	23.0	20.5	19.0
21	13.5	13.0	17.0	17.0	24.5	23.5	28.0	26.5	23.0	21.0	20.5	19.5
22	14.5	13.5	17.5	17.0	25.0	24.0	28.0	27.0	21.5	20.5	21.0	20.0
23	15.5	14.5	18.5	17.5	26.0	25.0	28.5	27.5	20.5	20.0	22.0	20.0
24	16.5	15.5	18.5	18.5	26.5	25.5	28.5	27.5	20.5	20.0	21.5	20.5
25	16.5	16.5	18.5	18.0	26.5	26.0	27.5	26.5	20.5	19.5	21.5	20.5
26	16.5	16.0	18.5	18.0	26.5	25.5	28.0	27.0	20.5	19.0	22.0	21.0
27	16.0	13.5	19.0	18.0	26.5	26.0	28.0	27.0	21.0	20.5	22.0	21.0
28	14.0	12.5	19.5	19.0	26.5	25.5	27.5	26.5	22.0	21.0	22.5	21.5
29	12.5	12.0	19.5	18.5	26.5	25.5	27.5	26.5	23.0	21.0	23.5	21.5
30	12.5	12.0	18.5	17.5	26.5	26.0	28.0	26.5	23.5	21.5	23.0	22.0
31	---	---	18.0	17.5	---	---	27.5	26.0	25.0	22.5	---	---
MONTH	16.5	8.5	19.5	12.5	26.5	18.0	30.0	26.0	28.0	19.0	26.0	19.0
YEAR	30.0	2.0										

03200500 COAL RIVER AT TORNADO, W. VA.

LOCATION.--Lat 38°20'20", long 81°50'30", Kanawha County, on downstream side of highway bridge at Tornado, 0.2 mi (0.3 km) upstream from Falls Creek and at mile 11.5 (18.5 km).

DRAINAGE AREA.--861 mi² (2,230 km²), includes that of Falls Creek.

PERIOD OF RECORD.--Sediment records: December 1972 to September 1973.

REMARKS.--Daily sediment records based on once-daily sediment samples and water-discharge hydrograph.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1170	--	--	1950	--	--	1810	30	147
2	1150	--	--	3340	--	--	1850	35	175
3	367	--	--	1930	--	--	1560	30	126
4	310	--	--	1350	--	--	2090	70	395
5	429	--	--	995	--	--	2050	70	387
6	429	--	--	860	--	--	2410	155	1010
7	378	--	--	680	--	--	3110	135	1130
8	310	--	--	1170	--	--	3380	430	3920
9	310	--	--	1540	--	--	10600	1430	40900
10	250	--	--	1540	--	--	14600	1170	46100
11	205	--	--	1350	--	--	10800	700	20400
12	205	--	--	1150	--	--	4930	340	4530
13	298	--	--	995	--	--	3380	170	1550
14	310	--	--	1540	--	--	2650	100	716
15	205	--	--	1520	--	--	2450	100	662
16	195	--	--	1350	--	--	3240	120	1050
17	310	--	--	1350	--	--	2350	50	317
18	195	--	--	1350	--	--	2760	80	596
19	205	--	--	995	--	--	2250	60	365
20	310	--	--	1540	--	--	1950	40	211
21	310	--	--	2110	--	--	2150	120	697
22	572	--	--	2110	--	--	5630	490	7450
23	455	--	--	1930	--	--	8320	1260	28300
24	455	--	--	1170	--	--	2690	230	1670
25	442	--	--	1170	--	--	3280	150	1330
26	275	--	--	1540	--	--	2350	135	857
27	310	--	--	2130	--	--	2760	80	596
28	429	--	--	2110	--	--	2350	110	698
29	585	--	--	2310	--	--	2150	70	406
30	650	--	--	2130	--	--	1850	65	325
31	572	--	--	--	--	--	1650	45	200
TOTAL	12596	--	--	47205	--	--	115400	--	167216

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1460	30	118	920	18	45	1670	175	789
2	1280	20	69	1100	57	169	1530	82	339
3	1100	15	45	1510	108	440	1390	55	206
4	995	20	54	1780	132	634	1310	36	127
5	1370	40	148	1710	95	439	1220	22	72
6	1370	35	129	1610	42	183	1280	26	90
7	1370	35	129	1590	45	193	1280	50	173
8	1280	30	104	1680	105	476	1360	50	184
9	800	25	54	2360	250	1590	1330	32	115
10	680	25	46	2400	275	1780	1260	24	82
11	637	21	36	2000	100	540	1250	20	68
12	650	22	39	1590	35	150	1280	19	66
13	546	20	29	1360	40	147	1130	19	58
14	546	24	35	1460	70	276	1040	10	28
15	695	23	43	2320	350	2190	1240	50	167
16	695	22	41	2540	830	5690	2750	700	5200
17	624	21	35	2170	530	3110	9710	4000	105000
18	585	14	22	1790	320	1550	8390	1750	39600
19	598	5	8.1	1560	75	316	4290	500	5790
20	740	16	32	1380	40	149	3210	210	1820
21	710	24	46	1250	38	128	3490	230	2170
22	665	16	29	1140	35	108	3880	320	3350
23	695	10	19	1060	32	92	3500	170	1610
24	680	6	11	993	30	80	3250	140	1230
25	624	5	8.4	902	20	49	3000	130	1050
26	598	4	6.5	850	10	23	2920	100	788
27	657	4	7.1	876	10	24	3670	390	3860
28	746	5	10	1500	110	446	3170	190	1630
29	873	40	94	--	--	--	2530	90	615
30	919	90	223	--	--	--	2100	65	369
31	893	52	125	--	--	--	1750	40	189
TOTAL	26081	--	1795.1	43401	--	21017	81180	--	176835

03200500 COAL RIVER AT TORNADO, W. VA.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1540	26	108	2920	150	1180	1610	155	674
2	1440	26	101	2180	70	412	1290	110	383
3	1330	20	72	2300	330	2050	1040	50	140
4	1260	40	136	3430	720	6670	870	20	47
5	1400	50	189	2750	110	817	814	60	132
6	1480	60	240	2140	40	231	1070	150	433
7	1400	55	208	1730	20	93	915	110	272
8	2470	190	1270	1670	150	676	770	75	156
9	2890	190	1480	3120	900	7580	651	40	70
10	3660	340	3360	2500	330	2230	617	30	50
11	3670	320	3170	2000	75	405	522	20	28
12	2800	80	605	1590	55	236	454	20	25
13	2200	60	356	1290	30	104	1080	570	1660
14	1740	30	141	1070	10	29	1110	850	2550
15	1460	20	79	931	8	20	674	230	419
16	1280	10	35	817	5	11	533	140	201
17	1190	15	48	768	5	10	546	130	192
18	1460	40	158	751	5	10	1580	950	4050
19	1590	110	472	661	4	7.1	845	300	684
20	1490	75	302	640	5	8.6	579	90	141
21	1350	20	73	620	5	8.4	838	340	769
22	1220	10	33	554	5	7.5	966	460	1200
23	1150	5	16	782	100	211	658	280	497
24	1300	30	105	2340	500	3160	488	250	329
25	1490	60	241	3020	300	2450	388	200	210
26	2020	140	764	2540	120	823	321	150	130
27	6980	850	16000	1850	50	250	277	100	75
28	19100	1850	95400	1650	40	178	286	90	69
29	9520	900	23100	2190	180	1060	489	510	673
30	4140	360	4020	1830	90	445	363	290	284
31	--	--	--	1890	180	919	--	--	--
TOTAL	86020	--	152282	54524	--	32291.6	22644	--	16543

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	288	140	109	215	30	17	95	6	1.5
2	255	50	34	225	30	18	83	6	1.3
3	321	95	82	235	25	16	73	5	1.3
4	493	195	260	196	20	11	73	8	1.6
5	404	50	55	160	15	6.5	73	10	2.0
6	391	40	42	152	15	6.2	135	16	5.8
7	287	30	23	135	15	5.5	113	15	4.6
8	235	20	13	120	12	3.9	78	13	2.7
9	205	18	10	113	10	3.1	78	12	2.5
10	196	15	7.9	152	30	12	95	12	3.1
11	245	25	17	186	60	30	152	10	4.1
12	266	35	25	225	100	61	120	9	2.9
13	196	30	16	344	170	158	101	8	2.2
14	160	25	11	332	40	36	128	8	2.8
15	255	70	48	266	50	36	196	10	5.3
16	796	180	387	321	110	95	177	10	4.8
17	571	155	239	266	70	50	135	15	5.5
18	368	115	114	196	40	21	113	20	6.1
19	266	95	68	169	30	14	143	15	5.8
20	332	100	90	169	20	9.1	160	10	4.3
21	356	140	135	225	18	11	128	7	2.4
22	441	140	167	276	20	15	101	7	1.9
23	545	80	118	321	20	17	89	7	1.7
24	723	350	683	276	21	16	83	6	1.3
25	1050	550	1560	215	20	12	107	10	2.9
26	1030	540	1500	169	15	6.8	89	11	2.6
27	723	275	537	135	15	5.5	83	12	2.7
28	507	165	226	128	15	5.2	68	12	2.2
29	379	110	113	107	10	5.9	83	12	2.7
30	298	50	40	107	8	2.3	416	25	28
31	245	30	20	101	8	2.2	--	--	--
TOTAL	12827	--	6749.9	6237	--	705.2	3568	--	118.29

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD DECEMBER TO SEPTEMBER (TONS)

511683

575553.09

03212600 TUG FORK AT WELCH, W. VA.

LOCATION.--Lat 37°24'56", long 81°35'25", McDowell County, at city water plant, at Welch.

DRAINAGE AREA.--85.8 mi² (222.2 km²).

PERIOD OF RECORD.--Water Temperatures: October 1972 to September 1973.

EXTREMES.--Current year:

Water temperatures: Maximum, 23.0°C Sept. 1; minimum; freezing point Feb. 17, 18.

REMARKS.--Records furnished by West Virginia Water Service Company. Water temperature records collected at site October 1960 to September 1972 are contained in files at U.S. Geological Survey.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.5	11.5	5.5	10.0	4.0	6.5	10.0	11.5	15.0	17.0	19.0	23.0
2	11.0	12.0	4.0	10.0	5.0	8.0	11.0	12.5	15.0	17.0	19.0	21.5
3	11.0	11.5	4.5	9.0	4.5	10.0	9.5	12.0	15.5	19.0	21.0	21.5
4	14.0	11.0	6.0	8.5	4.5	10.0	9.0	10.0	16.5	20.0	20.0	22.0
5	15.0	15.0	8.0	8.0	5.5	11.0	9.0	9.0	18.5	19.5	21.0	20.5
6	15.0	8.0	8.5	6.0	5.5	12.0	9.5	11.5	18.5	18.0	21.0	20.0
7	15.0	7.5	5.0	5.5	5.0	12.0	9.5	13.0	19.0	19.0	20.5	20.0
8	11.0	6.5	6.0	2.5	4.5	12.0	9.5	13.5	19.0	19.5	22.0	19.5
9	12.0	7.0	7.0	2.5	3.5	12.0	9.0	13.5	18.5	21.0	22.0	19.0
10	11.0	7.0	7.0	.5	3.0	11.5	8.0	14.5	18.0	20.5	21.0	19.0
11	12.5	11.5	8.0	1.0	1.5	11.0	8.0	14.5	20.5	19.0	21.5	16.5
12	12.5	9.0	9.0	1.0	1.0	12.0	6.5	14.0	22.0	18.0	21.0	16.5
13	13.5	8.0	9.0	.5	2.0	11.0	6.5	11.0	21.0	18.0	21.0	19.5
14	14.0	12.0	9.0	1.0	5.5	11.0	6.5	11.5	20.5	18.5	20.5	18.5
15	14.0	8.0	9.0	4.5	6.5	11.0	8.0	12.0	20.5	21.0	19.0	19.0
16	11.5	5.0	4.5	5.0	5.0	10.5	8.0	12.0	20.0	21.0	19.5	16.5
17	12.0	5.5	1.5	5.0	0	9.0	9.0	11.0	20.0	20.5	20.5	17.0
18	11.0	6.5	3.0	6.0	0	5.5	11.0	10.5	20.5	20.5	20.5	16.5
19	10.5	7.0	4.5	6.0	1.0	6.0	12.0	12.0	20.0	19.5	20.0	15.0
20	7.5	6.5	6.5	5.5	3.0	8.0	13.5	13.5	19.5	21.0	20.5	15.0
21	6.5	6.5	6.5	4.5	5.0	6.5	13.5	13.5	18.5	21.0	18.5	15.5
22	10.0	5.5	8.0	6.5	3.5	6.0	12.5	14.5	19.0	21.5	18.0	16.0
23	10.0	5.0	8.5	5.5	4.0	6.0	13.5	14.5	18.0	21.0	18.0	16.5
24	10.5	4.0	8.0	5.5	4.5	6.5	14.5	14.0	19.0	21.5	17.0	16.5
25	10.5	5.0	9.0	5.5	4.5	8.0	14.0	14.5	20.0	21.0	19.0	18.5
26	9.0	5.5	8.5	6.0	5.0	9.0	13.0	14.5	20.0	19.0	19.5	16.5
27	10.0	5.0	6.0	7.5	6.0	9.0	13.0	14.0	19.0	20.5	21.0	16.0
28	11.5	6.0	5.5	7.0	6.5	9.0	10.5	14.5	18.5	21.0	21.5	14.5
29	15.0	6.0	6.0	5.5	---	10.0	11.0	14.5	16.5	20.5	21.0	15.5
30	11.0	5.0	6.5	3.5	---	10.0	11.5	14.0	16.0	20.5	21.5	18.0
31	11.5	---	---	2.5	---	10.0	---	14.0	---	20.0	21.5	---
MONTH	11.5	7.5	6.5	5.0	4.0	9.5	10.5	13.0	19.0	20.0	20.0	18.0
YEAR	MAX	23.0	MIN	0	MEAN	12.0						

03214500 TUG FORK AT KERMIT, W. VA.

LOCATION.--Lat 37°50'17", long 82°24'35", Mingo County, at city water plant, at Kermit, 0.8 mi (1.3 km) downstream from Wolf Creek, and 3.0 mi (4.8 km) downstream from gaging station near Kermit.

DRAINAGE AREA.--1,274 mi² (3,300 km²) at water plant; 1,185 mi² (3,069 km²) at gaging station.

PERIOD OF RECORD.--Water temperatures: October 1946 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 29.5°C July 10; Minimum 3.5°C Jan. 10, 12.

Period of record:

Water temperatures: Maximum, 32.0°C July 29, 1949; minimum, freezing point on several days in 1947, 1951, and Jan. 18, 1972.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENTS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	14.5	9.0	11.5	6.0	8.5	15.5	10.0	20.5	24.5	25.5	24.0
2	16.0	14.5	8.5	11.5	7.5	10.0	15.5	15.5	19.5	23.5	25.0	26.5
3	16.0	15.5	9.0	9.5	9.0	10.5	14.0	16.0	21.0	23.5	24.5	28.0
4	20.5	15.5	9.0	10.0	7.0	11.5	14.5	15.0	22.0	24.0	25.5	28.5
5	18.0	15.5	11.0	10.0	9.0	13.0	13.0	14.5	24.0	25.0	26.0	28.0
6	15.5	13.0	13.0	9.0	9.0	13.5	11.0	15.5	23.0	24.5	26.0	26.5
7	18.5	13.0	10.0	6.5	9.0	15.0	13.0	15.5	23.0	24.0	26.5	26.5
8	16.5	13.5	9.5	5.5	9.5	15.0	12.5	17.0	23.0	24.0	26.5	24.0
9	16.5	13.0	11.5	4.5	9.5	16.0	11.0	17.5	24.0	28.0	28.0	24.5
10	15.5	11.0	10.0	3.5	6.5	19.0	11.0	19.0	25.0	29.5	28.0	22.5
11	15.5	13.0	11.5	6.0	5.5	17.5	9.0	18.5	26.5	27.0	27.5	23.0
12	16.5	13.0	11.5	3.5	5.5	15.0	9.0	17.5	28.0	23.5	26.5	22.5
13	16.5	12.5	13.0	4.0	4.5	16.5	11.0	18.5	27.0	24.0	26.5	22.5
14	17.0	14.0	12.5	5.5	6.0	15.5	10.5	16.5	25.5	24.5	26.5	22.0
15	16.5	13.0	13.5	5.5	7.0	16.5	11.0	16.5	24.0	25.5	26.0	22.0
16	15.5	10.0	10.0	7.0	7.0	14.0	13.0	17.0	26.5	25.5	25.5	21.0
17	15.5	13.0	7.5	4.5	4.5	11.0	15.5	17.0	26.5	24.5	26.0	21.0
18	15.5	13.0	6.0	6.0	4.5	11.0	15.5	15.5	26.5	25.5	26.5	21.5
19	14.5	10.0	6.5	7.0	4.5	10.0	15.0	16.5	26.5	26.0	26.5	21.0
20	11.5	10.0	11.5	7.0	5.5	11.0	15.5	17.0	25.5	25.5	26.5	21.0
21	11.5	10.0	10.0	7.0	5.0	8.0	16.5	16.5	26.5	26.5	27.0	20.5
22	12.5	10.0	11.0	8.5	4.5	9.0	17.5	17.5	25.5	26.5	24.0	18.5
23	14.5	9.5	12.0	10.0	7.0	9.0	18.5	18.5	24.0	26.5	21.5	21.5
24	14.5	8.0	10.0	8.0	8.0	11.0	17.5	17.5	24.0	25.0	23.0	22.5
25	14.0	7.5	10.0	7.5	8.0	13.0	18.5	17.0	25.0	26.0	23.5	23.5
26	14.0	8.5	12.0	7.0	8.0	13.0	16.5	17.5	26.0	25.5	25.5	23.5
27	13.0	9.0	10.0	7.5	9.5	13.0	15.5	19.5	25.5	24.0	25.5	23.0
28	14.5	10.0	8.0	9.0	8.5	11.5	13.0	18.5	24.0	26.0	26.5	23.5
29	14.0	10.0	9.0	9.0	---	13.5	12.5	18.5	23.5	25.5	28.0	21.0
30	14.0	9.0	10.0	6.0	---	13.0	13.0	18.5	24.5	25.5	29.0	22.0
31	13.0	---	11.0	5.5	---	14.5	---	18.5	---	26.0	28.5	---
MONTH	15.5	11.5	10.0	7.0	7.0	13.0	14.0	17.0	24.5	25.5	26.0	23.5
YEAR	MAX	29.5	MIN	3.5	MEAN	16.0						

PART 3. GROUND WATER RECORDS

GROUND WATER RECORDS
WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

BARBOUR COUNTY

390220NO800349.1. Local number 14-8-1. West Virginia Dept. of Natural Resources, Audra State Park. Drilled unused water-table well in Allegheny and Pottsville Groups of Middle and Lower Pennsylvanian age, diam 8 in (20 cm), depth 200 ft (61.0 m), cased with steel to 20 ft (6.1 m). Lsd is about 1,830 ft (558 m) above msl. MP top of casing 0.65 ft (20 cm) below lsd. Highest water level 71.59 ft (21.821 m), Apr. 30, 1973; lowest water level 95.38 ft (29.072 m), Sept. 6, 1971. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 2, 1972	90.97	Dec. 4, 1972	83.67	Feb. 12, 1973	77.30	Apr. 2, 1973	72.30
9	89.69	12	81.68	19	77.09	9	72.73
16	88.50	18	80.49	26	77.37	16	72.71
30	90.58	26	79.45	Mar. 5	77.01	23	72.91
Nov. 6	88.95	Jan. 2, 1973	79.90	12	76.85	30	71.59
13	86.47	8	80.65	19	76.60		
20	87.15	15	81.27	26	75.58		
27	84.47	22	81.68				
		29	82.17				

BERKELEY COUNTY

392725NO775824.1. Local number 20-5-7. Martinsburg Mills, Inc. Plant grounds, Martinsburg. Drilled unused well in Beekmantown Limestone of Lower Ordovician age, diam 8 in (20 cm), depth 250 ft (76.2 m), cased with steel to 10 ft (3.0 m). Lsd is about 445 ft (136 m) above msl. MP top edge of recorder shelter base 3.3 ft (1.01 m) above lsd. Highest water level 623.00 ft (7.010 m), June 24, 1972; lowest water level 68.45 ft (20.864 m), Dec. 7, 1969. Records available: 1956-73. Average daily water level from digital punch tape.

Average daily water level from digital punch tape, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5		47.69	43.84	36.26	33.28	36.20	33.75	33.01	34.00	38.86	41.45	42.45
10		46.42	37.19	36.76	33.15	35.65	31.89	33.98	34.98	39.64	42.03	43.18
15	44.61	44.53	37.75	37.45	33.73	36.03	32.93	35.17	36.20	39.88	39.98	40.54
20	45.28	43.60	37.76	38.18	34.60	36.34	33.51	35.69	37.11	39.89	40.11	42.27
25	46.38	44.77	35.00	38.09	35.49	36.96	34.04	35.57	37.69	40.10	40.28	43.84
Eom	47.09	43.10	36.87	35.61	35.92	37.11	31.12	33.51	37.91	40.97	41.69	44.98

BRAXTON COUNTY

384003NO804626.1. Local number 34-2-15. Claude Cunningham, Gassaway. Drilled unused water-table well in Conemaugh Group of Upper Pennsylvanian age, diam 6 in (15 cm), depth 100 ft (30.5 m), cased with steel. Lsd is about 1,100 ft (335 m) above msl. MP top of casing 1.92 ft (58 cm) above lsd. Highest water level 72.28 ft (22.031 m), Mar. 7, 1973; lowest water level 74.88 ft (22.823 m), Aug. 11, 1971. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1972	73.88	Jan. 3, 1973	72.93	Apr. 4, 1973	72.63	July 4, 1973	73.77
11	73.88	10	72.87	11	72.58	11	73.80
18	73.88	17	73.18	18	72.60	18	73.82
25	73.86	24	73.19	25	72.53	25	73.80
Nov. 1	73.83	31	73.03	May 2	72.54	Aug. 1	73.79
8	73.56	Feb. 7	72.88	9	72.55	8	73.80
15	73.35	14	72.81	16	72.83	15	73.80
22	73.23	21	72.72	23	72.96	22	73.73
29	73.11	28	72.85	30	73.30	29	73.73
Dec. 6	72.88	Mar. 7	72.28	June 6	73.44	Sept. 5	73.73
13	72.62	14	72.68	13	73.58	12	73.75
20	72.60	21	72.78	20	72.68	19	73.79
27	72.64	28	72.65	27	73.73	26	73.80

382648N0810552.1. Local number 35-2-1. Clay County School, Clay. Drilled unused water-table well in Pottsville Group of Lower Pennsylvanian age, diam 6 in (15 cm), depth 76 ft (23.2 m), cased with steel. Lsd is about 700 ft (213 m) above msl. MP top of casing 3.5 ft (1.07 m) below lsd. Highest water level 13.47 ft (4.106 m), Feb. 26, 1972; lowest water level 27.70 ft (8.443 m), July 14, 1973. Records available: 1972-73. Water level at noon, from recorder graph.

Water level at noon, from recorder graph, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	26.02	22.32	...	...	23.19	...	24.50	...	25.50	25.20	27.39	...
10	25.67	21.92	...	...	23.14	...	...	21.67	26.40	27.24	27.55	...
15	25.38	...	...	26.43	...	...	...	...	25.48	27.35	24.58	...
20	25.02	...	...	25.66	...	...	...	...	25.86	27.54	...	26.46
25	25.40	...	...	26.00	...	...	...	...	...	26.05	...	26.48
Eom	25.42	...	...	24.39	...	...	...	...	27.25	26.82	...	25.88

GILMER COUNTY

385604N0804959.1. Local number 33-3-1. Glenville State College, Glenville. Dug unused water-table well in upper part of Conemaugh Formation of Upper Pennsylvanian age, diam 3 ft (91 cm), depth 25 ft (7.6 m), cased with concrete tile. Lsd is about 820 ft (250 m) above msl. MP top of concrete cover at lsd. Highest water level 13.58 ft (4.139 m), Jan. 26, 1958; lowest water level 18.75 ft (5.715 m), Nov. 30, 1953. Records available: 1953-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 2, 1972	17.70	Jan. 2, 1973	16.05	Apr. 2, 1973	16.37	July 2, 1973	17.34
9	17.66	8	16.27	9	16.51	9	17.31
16	17.66	15	16.70	16	15.49	16	16.98
23	17.61	22	16.91	23	16.01	23	17.04
30	17.56	29	16.82	30	14.95	30	17.06
Nov. 6	17.37	Feb. 5	15.98	May 7	15.80	Aug. 6	17.02
13	17.21	12	15.70	14	15.85	13	17.14
20	17.03	21	15.77	21	16.29	20	17.10
27	16.68	26	16.17	28	16.60	27	17.09
Dec. 4	16.40	Mar. 5	16.52	June 4	16.90	Sept. 4	17.30
11	14.89	12	16.50	11	17.22	10	17.46
18	15.57	21	15.66	18	17.27	17	17.53
27	15.60	26	16.12	25	17.39	24	17.50

GREENBRIER COUNTY

374804N0801740.1. Local number 45-8-2. U.S. Fish and Wildlife Service, Fish Culture Station, White Sulphur Springs. Drilled unused water-table well in Marcellus Formation and Hamilton Formation of Middle Devonian age, diam 6 in (15 cm), depth 61 ft (18.6 m), cased with steel. Lsd is about 1,875 ft (572 m) above msl. MP top of casing 0.9 ft (27 cm) above lsd. Highest water level 2.80 ft (85.3 cm), Mar. 16, 1955; lowest water level 7.77 ft (2.368 m), Sept. 28, Oct. 5, 1968. Records available: 1953-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 7, 1972	4.60	Jan. 6, 1973	5.46	Apr. 7, 1973	4.59	July 7, 1973	5.90
14	5.48	13	5.66	14	5.30	14	5.70
21	5.35	20	5.70	21	5.18	21	5.38
28	5.61	27	5.57	28	4.75	28	5.80
Nov. 4	5.24	Feb. 3	5.01	May 5	5.36	Aug. 4	5.56
11	5.28	10	5.38	12	5.60	11	5.85
18	5.38	17	5.74	19	5.32	18	5.90
25	5.42	24	5.85	26	4.82	25	5.93
Dec. 2	5.46	Mar. 3	5.67	June 2	5.22	Sept. 1	5.97
9	4.67	10	5.42	9	5.26	8	5.50
16	5.14	17	3.73	16	5.58	15	5.48
23	4.90	24	5.24	23	5.39	22	5.56
30	5.54	31	5.28	30	5.65	29	6.03

374809N0801739.1. Local number 45-8-4. West Virginia Dept. of Natural Resources, Greenbrier State Park. Drilled unused artesian well in Marcellus Formation of Middle Devonian age, diam 6 in (15 cm), depth 44 ft (13.4 m), cased with steel. Lsd is about 1,875 ft (572 m) above msl. MP top of breather pipe, in sanitary seal, 1.48 ft (45.1 cm) above lsd. Highest water level 3.22 ft (98.1 cm), May 25, Dec. 21, 1972; lowest water level 11.46 ft (3.493 m), Oct. 18, 1973. Records available: 1970-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 5, 1972	9.28	Jan. 4, 1973	5.12	Apr. 5, 1973	4.32	July 5, 1973	7.62
12	9.27	11	5.52	12	5.82	12	7.76
20	9.24	18	6.02	19	5.87	19	9.08
Nov. 2	7.32	25	7.42	May 4	4.32	Aug. 2	9.62
9	5.92	Feb. 8	4.54	11	5.82	9	9.74
22	5.02	15	5.80	17	5.92	16	9.83
Dec. 7	4.82	22	6.22	25	4.82	23	10.02
14	3.32	Mar. 1	5.22	June 7	6.02	Sept. 6	10.07
21	3.22	8	5.12	14	7.32	13	10.17
		15	4.32	21	7.82	20	10.32
		22	4.72				

HAMPSHIRE COUNTY

391900N0784130.1. Local number 23-6-1. State Road Commission. Shanks Roadside Park near Romney. Drilled unused water-table well in sandstone and shale of Hampshire Formation of Upper Devonian age, diam 6 in (15 cm), depth 51 ft (15.5 m), cased. Lsd is about 1,150 ft (350 m) above msl. MP edge of hole in pump base at lsd. Highest water level 3.52 ft (1.073 m), May 31, 1968; lowest water level 14.53 ft (4.429 m), Sept. 3, 1957. Records available: 1955-59, 1966-73. Measurements discontinued Jan. 26, 1973.

Date	Water level
Oct. 9, 1972	10.40
Nov. 15	6.79
Dec. 26	5.94
Jan. 26, 1973	9.59

391257N0784046.1. Local number 23-6-46. Loring Hott, Augusta. Drilled unused artesian well in Hampshire Formation of Upper Devonian age, diam 6 in (15 cm), depth 37 ft (11.3 m), cased with tile. Lsd is about 1,400 ft (427 m) above msl. MP top of casing at lsd. Highest water level 0.38 ft (11.6 cm), Apr. 10, Oct. 30, 1973; lowest water level e16.69 ft (5.087 m), July 15, 1973. Records available: 1972-73. Water level at noon, from recorder graph.

Water level at noon, from recorder graph, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	...	10.72	2.30	...	...	...	0.45	7.00	...	e16.24	...	...
10	13.32	...	0.47	...	...	...	0.38	...	...	e16.59	...	...
15	14.12	0.45	0.50	...	...	...	1.48	...	...	e16.69	...	...
20	14.46	0.56	1.31	...	11.60	...	5.75	...	...	...	...	...
25	14.50	4.70	0.66	...	12.63	...	9.20	14.71	e15.87	...	...	...
Eom	14.01	1.87	5.45	...	12.92	12.13	0.77	13.28	e15.94	...	...	...

HARDY COUNTY

390431N0784159.1. Local number 25-2-42. Potomac Valley Soil Conservation District, Baker. Drilled unused water-table well in Tonoloway Formation of Upper Silurian age, diam 6 in (15 cm), depth 58 ft (17.7 m), cased with tin pipe to 1 ft (30 cm). Lsd is about 1,863 ft (568 m) above msl. MP top of tin casing 0.3 ft (9 cm) above lsd. Highest water level e18.00 ft (5.486 m), June 25, 1972; lowest water level e39.25 ft (11.963 m), Sept. 29, 1973. Records available: 1972-73. Water level at noon, from recorder graph.

Water level at noon, from recorder graph, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	...	...	26.70	...	23.92	29.04	24.69	23.23	25.87	29.58	33.21	e32.00
10	33.42	...	22.84	26.07	...	27.84	21.07	25.22	27.14	30.72	32.15	33.32
15	34.30	26.71	24.38	28.10	e24.60	28.39	22.20	27.20	28.80	31.70	...	35.51
20	35.40	26.35	...	29.22	26.40	28.42	24.23	28.77	29.66	34.12	...	37.13
25	35.48	27.38	...	28.22	28.23	28.71	25.37	29.70	29.52	35.13	...	e38.55
Eom	e35.95	26.36	...	26.10	28.40	29.33	20.44	26.73	28.97	34.43	e30.85	e39.20

385714N0784413.1. Local number 25-4-5. U.S. Forest Service. Trout Pond Recreation Area. Drilled unused water-table well in Helderberg Group of Early Devonian age and Tonoloway Formation of Late Silurian age, diam 6 in (15 cm), depth 460 ft (140.2 m), cased with steel to 190 ft (57.9 m). Lsd is about 1,920 ft (585 m) above msl. MP top of well casing 0.9 ft (27.4 cm) above lsd. Highest water level 263.00 ft (80.162 m), July 15, 1972; lowest water level 274.00 ft (83.515 m), Oct. 27, Oct. 28, 1970. Records available: 1968-73. Water level at noon, from recorder graph.

Water level at noon, from recorder graph, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	272.99	273.29	272.32	271.15	270.82	270.54	270.50	269.24	269.61	...	...	...
10	273.30	273.16	272.03	271.09	270.73	270.60	269.98	269.60	269.65	...	...	...
15	273.14	273.12	271.54	270.98	270.36	270.50	269.89	269.68	...	269.30	...	...
20	273.20	272.80	271.50	270.89	270.46	270.55	269.62	269.80	...	...	...	...
25	273.07	272.74	271.43	270.90	270.65	270.38	269.49	269.59	...	...	...	...
Eom	273.23	272.26	271.13	270.90	270.54	270.50	269.25	269.54	...	...	...	...

KANAWHA COUNTY

382055N0813753.1. Local number 40-5-14. Coyle and Richardson Department Store, Dickinson and Lee Sts., Charleston. Drilled unused artesian well in Pottsville Formation of Lower Pennsylvanian age, diam 8 in (20 cm), depth 208 ft (63.4 m), cased to 42 ft (12.8 m). Lsd is about 575 ft (175 m) above msl. MP top of casing 12 ft (3.66 m) below lsd. Highest water level 26.76 ft (8.156 m), Mar. 20, 1963; lowest water level 43.44 ft (13.241 m), Sept. 6, 1945. Records available: 1941-73. Water level at noon, from recorder graph.

Water level at noon, from recorder graph, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	29.00	28.75	28.69	28.31	27.52	28.41	28.13	27.10	27.90	28.39	28.21	28.82
10	29.07	28.70	28.14	28.45	28.15	28.43	27.91	27.26	28.10	28.49	28.16	28.87
15	29.03	28.75	27.07	28.42	28.13	28.40	28.13	27.94	28.24	28.53	28.18	28.92
20	29.11	28.64	27.80	28.58	28.30	27.75	28.02	27.99	28.28	28.10	28.20	28.96
25	28.94	28.56	27.57	28.67	28.48	27.83	28.06	28.09	28.29	28.10	28.77	28.98
Eom	29.07	28.64	28.10	28.62	28.53	28.06	26.95	27.62	28.39	28.11	28.85	28.95

LEWIS COUNTY

390553N0802808.1. Local number 16-1-8. West Virginia University. Jackson's Mill. Drilled unused water-table well in Conemaugh and Allegheny Formations of Upper and Middle Pennsylvanian age, diam 12 in (30 cm), depth 92 ft (28.04 m), cased. Lsd is about 1,020 ft (311 m) above msl. MP hole in concrete pump platform at lsd. Highest water level 9.40 ft (2.865 m), Dec. 30, 1969; lowest water level 23.85 ft (7.269 m), Oct. 14, 1963. Records available: 1961-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 2, 1972	21.77	Jan. 1, 1973	21.14	Apr. 2, 1973	20.86	July 2, 1973	22.40
8	20.88	8	21.20	9	19.80	16	22.39
16	21.30	15	22.13	16	19.85	23	22.72
23	21.24	22	21.06	23	20.32	30	22.80
30	21.40	29	21.08	30	18.12	Aug. 7	22.60
Nov. 6	20.50	Feb. 5	18.37	May 7	20.80	13	22.59
13	20.54	12	20.00	14	20.70	20	21.44
20	20.99	19	20.00	21	21.86	27	22.05
27	19.35	26	21.22	29	21.90	Sept. 4	22.53
Dec. 4	20.08	Mar. 5	20.83	June 4	21.63	10	22.56
11	11.80	12	20.83	11	22.34	17	21.95
18	19.18	20	20.69	18	22.98	24	21.02
		26	20.07	25	23.00		

390553N0802808.2. Local number 16-1-9. West Virginia University. Jackson's Mill. Drilled unused water-table well in Conemaugh and Allegheny Formations of Upper and Middle Pennsylvanian age, diam 12 in (30 cm), depth 122 ft (37.2 m), cased. Lsd is about 1,020 ft (311 m) above msl. MP drilled hole in steel plate covering casing, at lsd. Highest water level 8.88 ft (2.706 m), Dec. 30, 1969; lowest water level 23.95 ft (7.300 m), Sept. 18, 1961. Records available: 1961-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 2, 1972	21.67	Jan. 1, 1973	21.08	Apr. 2, 1973	20.78	July 2, 1973	22.21
8	20.80	8	21.14	9	19.61	16	22.26
16	21.24	15	22.06	16	19.68	23	22.57
23	21.18	22	20.93	23	20.50	30	22.60
30	21.24	29	20.96	30	18.10	Aug. 7	22.45
Nov. 6	20.44	Feb. 5	18.26	May 7	20.72	13	22.49
13	20.42	12	19.83	14	20.70	20	21.31
20	20.84	19	19.95	21	21.80	27	21.93
27	19.20	26	21.12	29	21.82	Sept. 4	22.42
Dec. 4	20.00	Mar. 5	20.65	June 4	21.56	10	22.45
11	12.00	12	20.75	11	22.23	17	21.77
18	19.20	20	20.64	18	22.95	24	20.83
		26	20.05	25	23.04		

395608N0804523.1. Local number 4-3-8. Triangle Conduit and Cable Co. U.S. Highway 250, Glendale. Drilled unused water-table well in gravel, diam 10 in (25 cm), depth 100 ft (30.5 m), cased. Lsd is about 650 ft (198 m) above msl. MP top edge of recorder shelter base 4 ft (1.22 m) below lsd. Highest water level 54.68 ft (16.666 m), Jan. 31, 1952; lowest water level 73.80 ft (22.494 m), Nov. 8, Nov. 22, 1957. Records available: 1950-65, 1967-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 2, 1972	68.75	Jan. 2, 1973	65.04	Apr. 2, 1973	66.22	July 2, 1973	67.18
9	69.06	8	65.34	9	65.85	9	67.71
16	69.22	15	65.62	16	66.10	16	68.31
23	69.53	22	65.92	23	66.57	23	68.26
30	69.26	29	66.35	30	66.35	30	69.15
Nov. 6	69.51	Feb. 5	66.00	May 7	65.47	Aug. 6	69.79
13	69.71	17	65.85	14	65.36	13	70.01
20	68.25	19	66.46	21	65.54	20	70.30
27	68.19	26	67.07	28	65.65	27	70.53
Dec. 4	68.33	Mar. 5	67.84	June 4	66.35	Sept. 4	70.61
11	67.15	12	67.59	11	66.52	10	70.67
18	65.85	19	66.82	18	66.93	17	70.77
22	65.65	26	67.88	25	67.28	29	70.73

395048N0803340.1. Local number 4-6-4. William H. Cumpston, Sr., Cameron. Drilled unused water-table well in Dunkard Group of Permian age, diam 8 in (20 cm), depth 140 ft (42.7 m), cased with steel. Lsd is about 1,080 ft (329 m) above msl. MP top of casing 2.0 ft (61 cm) below lsd. Highest water level 5.40 ft (1.646 m), Feb. 15, 1972; lowest water level 8.75 ft (2.667 m), Aug. 3, 1971. Records available: 1971-73. Measurements discontinued Jan. 23, 1973.

Date	Water level	Date	Water level
Oct. 3, 1972	8.10	Dec. 5, 1972	7.10
10	8.20	12	6.20
17	8.10	19	6.40
24	8.20	26	7.00
31	8.55	Jan. 2, 1973	6.90
Nov. 7	7.80	9	7.00
14	7.60	16	7.40
21	7.40	23	6.90
28	7.40		

MASON COUNTY

385450N0820646.1. Local number 38-3-53. West Virginia University. Ohio Valley Agricultural Experiment Station. State Highway 2, 4 mi (6.4 km) N of Pt. Pleasant. Drilled water-table irrigation well in alluvial sand and gravel, diam 12 in (30 cm), depth 73 ft (22.3 m), cased with steel to 61 ft (18.6 m), screened 61-73 ft (18.6 m - 22.3 m). Lsd is about 600 ft (183 m) above msl. MP edge of pump housing above hole on east side of pump 1.4 ft (43 cm) above lsd. Highest water level 36.72 ft (11.192 m), May 27, 1963; lowest water level 42.54 ft (12.966 m), Jan. 16, 1970. Records available: 1958-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 8, 1972	38.00	Jan. 5, 1973	38.47	Apr. 6, 1973	38.25	July 6, 1973	37.28
13	38.09	12	38.41	13	38.25	13	37.24
20	38.22	19	38.35	20	38.15	20	37.30
27	38.30	26	38.30	27	38.07	27	37.28
Nov. 3	38.41	Feb. 2	38.27	May 4	37.91	Aug. 3	37.35
10	38.51	9	38.30	11	37.99	10	37.45
17	38.65	16	38.30	18	38.02	17	37.51
24	38.69	23	38.25	25	37.73	24	37.58
Dec. 1	38.80	Mar. 2	38.26	June 1	37.65	31	37.64
8	38.84	9	38.27	8	37.55	Sept. 7	37.70
15	38.78	16	38.24	15	37.48	14	37.72
22	38.71	23	38.30	22	37.46	21	37.75
29	38.57	30	38.25	29	37.30		

385451N0820620.1. Local number 38-3-54. West Virginia University. Ohio Valley Agricultural Experiment Station, Point Pleasant. Drilled unused artesian well in Conemaugh Formation of Upper Pennsylvanian age, diam 6 in (15 cm), depth 131 ft (39.9 m), cased with steel to 60 ft (18.3 m). Lsd is approximately 615 ft (187 m) above msl. MP top of casing 3 ft (91 cm) above lsd. Highest water level 23.98 ft (7.309 m), May 28, May 29, 1973; lowest water level 26.20 ft (7.986 m), Jan. 1, 1966. Records available: Nov. 13, 1959 to 1973. Water level at noon, from recorder graph.

Water level at noon, from recorder graph, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	25.00	25.10	25.04	24.51	24.50	24.50	24.46	24.20	24.05	24.09	24.36	24.68
10	25.05	25.08	24.89	24.51	24.50	24.51	24.42	24.12	24.07	24.16	24.44	24.67
15	25.09	25.07	24.79	24.50	24.48	24.51	24.44	24.10	24.02	24.20	24.41	24.70
20	25.11	25.08	24.70	24.50	24.49	24.49	24.44	24.06	24.00	24.26	24.45	24.74
25	25.14	25.09	24.61	24.50	24.50	24.50	24.37	24.03	24.04	24.28	24.51	24.79
Eom	25.17	25.05	24.56	24.51	24.52	24.50	24.29	24.00	24.08	24.31	24.61	24.82

MERCER COUNTY

372623N0810711.1. Local number 48-2-4. Spanishburg High School, Princeton. Drilled water-table well in Mauch Chunk Group of Upper Mississippian age, diam 8 in (20 cm), reported depth 200+ ft (61+ m), cased with steel. Lsd is about 2,070 ft (631 m) above msl. MP top of sanitary seal on casing 2.05 ft (62 cm) above lsd. Highest water level 13.55 ft (4.130 m), Sept. 13, 1973; lowest water level 24.65 ft (7.513 m), Mar. 2, 1972. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 5, 1972	23.97	Jan. 4, 1973	21.75	Apr. 5, 1973	19.75	Aug. 2, 1973	22.15
12	21.01	11	20.94	12	21.15	9	20.65
19	20.03	18	21.05	18	22.05	16	21.05
26	17.96	25	21.35	26	22.05	23	22.35
Nov. 2	21.97	Feb. 1	20.75	May 3	23.15	30	20.35
9	20.99	8	21.75	10	22.35	Sept. 6	18.75
16	19.96	15	22.05	17	21.75	13	13.55
23	22.03	22	19.35	24	24.05	19	15.15
30	22.15	Mar. 1	18.75	31	20.75		
Dec. 7	23.25	8	21.65	June 7	22.15		
14	24.05	15	20.35	14	21.75		
20	22.75	22	19.75	20	22.15		
28	22.05	29	20.35				

372149N0810550.1. Local number 48-5-1. West Virginia Service Company. Company No. 1 well, Princeton. Drilled unused artesian well in sandstone and shale of Hinton Group of Upper Mississippian age, diam 6 in (15 cm), depth 249 ft (75.9 m), cased. Lsd is about 2,387 ft (728 m) above msl. MP top of well at lsd. Highest water level 0.0 ft (0.0 cm); lowest water level 90.58 ft (27.609 m), Dec. 10, 1969 (water level affected by local pumpage). Records available: 1960-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1972	flowing	Jan. 3, 1973	flowing	Apr. 4, 1973	flowing	July 4, 1973	flowing
11	flowing	10	flowing	11	flowing	11	flowing
18	flowing	17	flowing	18	flowing	18	flowing
25	flowing	24	flowing	25	flowing	25	flowing
Nov. 1	flowing	31	flowing	May 2	flowing	Aug. 1	flowing
8	flowing	Feb. 7	flowing	9	flowing	8	flowing
15	flowing	14	flowing	16	flowing	15	flowing
22	flowing	21	flowing	23	flowing	22	flowing
29	flowing	28	flowing	30	flowing	29	flowing
Dec. 6	flowing	Mar. 7	flowing	June 6	flowing	Sept. 5	flowing
13	flowing	14	flowing	13	flowing	12	flowing
20	flowing	21	flowing	20	flowing	19	flowing
27	flowing	28	flowing	27	flowing	26	flowing

MINERAL COUNTY

393018NO784553.1. Local number 22-1-32. Mineral County School, Fort Ashby. Drilled unused water-table well in Mahantango Formation of Middle Devonian age, diam 10 in (25 cm), depth 96 ft (29.3 m), cased with steel. Lsd is about 600 ft (183 m) above msl. MP top of casing 1.5 ft (46 cm) below lsd. Highest water level 8.96 ft (2.731 m), Apr. 11, 1973; lowest water level 13.57 ft (4.136 m), Sept. 20, 1972. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1972	13.47	Jan. 3, 1973	10.74	Apr. 4, 1973	9.12	July 4, 1973	10.52
11	13.12	10	10.41	11	8.96	11	12.30
18	13.18	17	11.00	18	9.29	18	12.32
20	13.26	18	11.01	25	9.22	20	12.35
25	13.08	24	11.00	May 2	9.04	25	12.36
Nov. 1	13.05	31	10.66	9	9.39	Aug. 1	12.14
8	12.07	Feb. 7	10.08	16	9.99	8	12.59
15	11.11	14	10.16	23	10.20	15	12.27
22	10.55	21	10.61	25	10.16	22	10.50
29	10.91	28	10.94	30	9.21	Sept. 26	11.41
Dec. 6	10.19	Mar. 7	10.11	June 6	9.28		
13	9.86	14	9.87	13	10.09		
20	9.99	21	9.77	20	10.58		
27	10.02	28	10.28	27	10.90		
		30	10.18				

392114NO790811.1. Local number 22-5-23. Gerald Whisner. Near Elk Garden. Drilled unused artesian well in Conemaugh Formation of Late Pennsylvanian age, diam 6 in (15 cm), depth 37 ft (11.3 m), cased with steel. Lsd is about 2,480 ft (756 m) above msl. MP top of casing 0.7 ft (21 cm) above lsd. Highest water level +0.69 ft (0.210 m), 1968-72; lowest water level 10.81 ft (3.295 m), Oct. 29, 1968 (water level affected by recent pumpage). Records available: 1968-73. Water level above and below lsd.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 6, 1972	-3.70	Jan. 5, 1973	+0.68	Apr. 6, 1973	+0.68	July 6, 1973	-1.12
13	2.40	12	0.68	13	0.68	13	1.60
20	2.40	19	0.68	20	0.68	20	1.40
27	1.52	26	0.69	27	0.68	27	1.40
Nov. 3	1.44	Feb. 2	0.69	May 4	0.68	27	3.00
10	-0.32	9	0.69	11	0.68	Aug. 3	3.10
17	+0.64	16	0.69	18	0.68	10	3.70
24	0.69	23	0.69	24	0.68	24	3.60
30	0.69	Mar. 2	0.68	June 1	0.66	31	2.98
Dec. 1	0.69	9	0.68	8	0.68	Sept. 7	3.12
8	0.68	16	0.66	15	0.18	14	3.56
15	0.69	23	0.64	22	+0.64	21	3.82
22	0.69	30	0.66	29	-0.90	28	4.00
29	0.68						

MONONGALIA COUNTY

394006NO801948.1. Local number 9-1-47. Mrs. Wilma Shriver, Wadestown. Drilled unused water-table well in Dunkard Group of Permian age, diam 6 in (15 cm), depth 65 ft (19.8 m), cased with steel. Lsd is about 1,060 ft (323 m) above msl. MP top of casing 1.2 ft (37 cm) above lsd. Highest water level 6.19 ft (1.887 m), Apr. 14, 1973; lowest water level 11.35 ft (3.459 m), Aug. 6, 1971. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 7, 1972	8.37	Jan. 6, 1973	6.63	Apr. 7, 1973	6.37	July 7, 1973	8.21
14	8.24	13	6.87	14	6.19	14	8.38
21	8.28	20	6.88	21	6.30	21	8.31
28	8.18	27	6.60	28	5.87	28	8.15
Nov. 4	8.01	Feb. 3	6.28	May 5	6.50	Aug. 4	8.35
11	7.66	10	6.45	12	6.68	11	8.29
18	7.39	17	6.50	19	7.00	17	8.21
25	7.29	24	6.60	26	7.24	25	8.10
Dec. 2	7.20	Mar. 3	6.77	June 2	7.53	Sept. 1	8.30
9	6.41	10	6.50	9	7.68	8	8.43
16	6.31	17	6.37	16	7.77	15	8.35
23	6.20	24	6.36	23	8.37	23	7.41
30	6.52	31	6.53	30	8.01		

392923NO795718.1. Local number 9-7-33. Paul H. Price. Halleck. Drilled unused water-table well in Buffalo-Mahoning Sandstone of Conemaugh Formation of Upper Pennsylvanian age, diam 6 in (15 cm), depth 141 ft (43.0 m), cased with steel to 21 ft (6.4 m). Lsd is about 1,850 ft (564 m) above msl. MP 0.35 ft (11 cm) above lsd. Highest water level 40.95 ft (12.482 m), Jan. 4, 1960; lowest water level 80.57 ft (24.558 m), Oct. 25, 1973. Records available: 1953-73.

Date	Water level	Date	Water level	Date	Water level
Oct. 24, 1972	79.51	Feb. 22, 1973	61.42	June 21, 1973	74.02
Nov. 21	61.34	Mar. 23	60.53	July 20	77.47
Dec. 22	58.45	Apr. 25	61.29	Aug. 23	77.68
Jan. 22, 1973	58.96	May 23	64.00	Sept. 19	80.33

MONROE COUNTY

373435NO803231.1. Local number 47-3-3. Robert K. Riner, Union. Drilled water-table well in Greenbrier Group of Middle Mississippian age, diam 6 in (15 cm), depth 133 ft (40.5 m), cased with steel to 12 ft (3.7 m). Lsd is about 2,050 ft (625 m) above msl. MP top of sanitary seal on top of casing 0.6 ft (18 cm) above lsd. Highest water level 49.60 ft (15.118 m), Mar. 1, 1972; lowest water level 53.36 ft (16.264 m), Oct. 20, 1971. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1972	51.70	Jan. 3, 1973	50.80	Apr. 4, 1973	52.00	July 4, 1973	51.10
11	51.60	10	50.80	11	51.80	11	51.20
18	51.60	17	50.90	18	51.60	18	51.50
25	51.60	24	50.70	25	51.70	25	51.70
Nov. 1	51.20	31	51.30	May 2	51.20	Aug. 1	51.90
8	51.30	Feb. 7	51.40	9	51.40	8	52.20
15	51.20	14	51.50	16	51.30	15	52.30
22	51.20	21	51.40	23	51.40	22	52.50
29	50.90	28	51.30	30	51.30	29	52.60
Dec. 6	51.20	Mar. 7	51.40	June 6	51.30	Sept. 5	52.80
13	51.00	14	51.60	13	51.50	12	52.80
20	50.80	21	51.50	20	51.60	19	52.40
27	50.70	28	51.70	27	51.40	26	52.30

MORGAN COUNTY

393043NO781740.1. Local number 19-5-14. West Virginia Dept. of Natural Resources, Cacapon State Park. Drilled unused artesian well in Tonoloway Formation of Upper Silurian age, diam 8 in (20 cm), reported depth 250 ft (76.2 m), cased with steel to 33 ft (10.1 m). Lsd is about 875 ft (267 m) above msl. MP top of breather pipe, in cap on casing, 1.2 ft (37 cm) above lsd. Highest water level 31.77 ft (9.683 m), Apr. 18, 1973; lowest water level 37.80 ft (11.521 m), Sept. 8, 1971. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1972	34.70	Jan. 3, 1973	32.79	Apr. 4, 1973	32.20	July 4, 1973	32.69
11	34.30	10	33.30	11	32.25	11	33.56
17	34.50	17	33.39	18	31.77	18	33.18
Nov. 1	34.18	24	33.15	25	32.08		
8	32.78	31	33.09	May 2	32.46		
15	32.98	Feb. 7	32.40	9	32.25		
22	32.72	14	33.16	16	32.45		
29	33.45	21	33.32	23	32.95		
Dec. 6	32.78	28	33.32				
13	32.45	Mar. 7	32.25				
20	32.60	14	32.75				
27	32.98	21	33.30				

381301NO805622.1. Local number 37-5-1. West Virginia Dept. of Natural Resources, Carnifax Ferry State Park. Drilled unused water-table well in Pottsville Group of Lower Pennsylvanian age, diam 6 in (15 cm), depth 106 ft (32.3 m), cased with steel. Lsd is about 1,620 ft (494 m) above msl. MP top of concrete slab 2.0 ft (61 cm) above lsd. Highest water level 54.30 ft (16.551 m), Dec. 23, 1970; lowest water level 61.44 ft (18.727 m), July 21, 1971. Records available: 1970-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1972	60.95	Jan. 3, 1973	57.48	Apr. 4, 1973	58.25	July 4, 1973	59.85
11	61.09	10	57.29	12	58.79	11	60.16
25	59.90	17	59.42	18	58.03	18	60.31
Nov. 1	59.35	24	59.80	26	58.02	25	60.36
8	59.01	31	58.27	May 3	57.72	Aug. 1	60.09
15	58.96	Feb. 8	58.30	10	57.54	8	60.61
22	58.57	14	58.10	17	59.00	16	60.45
Dec. 6	58.66	22	58.30	23	59.04	22	59.93
13	57.41	28	58.20	30	59.12	30	60.42
20	57.61	Mar. 7	58.86	June 6	59.02	Sept. 5	60.29
27	57.69	15	59.09	13	58.89	12	60.52
		21	58.60	20	59.40	20	60.91
		28	58.25	27	59.55	27	61.20

POCAHONTAS COUNTY

380634NO801648.1. Local number 44-4-1. West Virginia Dept. of Natural Resources, Droop Mountain State Park. Drilled unused water-table well in Mauch Chunk Group of Upper Mississippian age, diam 6 in (15 cm), depth 153 ft (46.6 m), cased with steel to 20 ft (6.1 m). Lsd is about 2,700 ft (823 m) above msl. MP top of casing at lsd. Highest water level 66.20 ft (20.178 m), Dec. 7, 1971; lowest water level 79.23 ft (24.149 m), Oct. 1, 1970. Records available: 1970-73. Water level affected by local pumpage.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 3, 1972	69.60	Jan. 2, 1973	68.80	Apr. 3, 1973	68.35	July 3, 1973	69.40
10	69.50	9	68.80	10	67.65	10	69.50
17	69.35	16	69.20	17	67.65	17	69.40
24	69.30	23	68.75	24	68.40	24	69.10
31	69.10	30	68.85	May 1	67.87	31	69.60
Nov. 7	68.90	Feb. 6	68.55	8	68.60	Aug. 7	69.65
14	68.10	13	68.70	15	68.60	14	69.65
21	68.20	20	68.75	22	69.10	21	69.70
28	68.25	27	68.65	29	68.30	28	69.70
Dec. 5	68.40	Mar. 6	68.35	June 5	68.70	Sept. 4	69.70
12	68.10	13	68.45	12	69.20	11	69.75
19	68.10	20	68.20	19	68.75	18	69.65
26	67.95	27	68.05	26	69.30	25	69.80

380708NO801022.1. Local number 44-4-9. West Virginia Dept. of Natural Resources, Watoga State Park. Drilled unused water-table well in Hampshire Formation of Upper Devonian age, diam 8 in (20 cm), depth 53 ft (16.2 m), cased with steel. Lsd is about 2,100 ft (640 m) above msl. MP top of seal on casing 0.55 ft (17 cm) above lsd. Highest water level 4.28 ft (1.305 m), Feb. 23, 1971; lowest water level 12.03 ft (3.667 m), Apr. 13, 1971. Records available: 1970-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 3, 1972	11.32	Jan. 2, 1973	9.73	Apr. 3, 1973	8.79	July 3, 1973	10.60
10	9.95	9	9.90	10	7.57	10	10.23
17	10.77	16	10.01	17	8.97	17	10.10
23	10.61	23	10.49	24	9.91	24	10.90
31	10.31	30	9.31	May 1	8.51	31	11.35
Nov. 7	9.80	Feb. 6	8.25	8	10.01	Aug. 7	10.73
14	9.83	13	9.95	15	9.97	14	11.36
21	7.63	20	9.91	22	9.57	21	11.07
28	8.87	27	10.20	29	8.51	28	11.40
Dec. 5	10.02	Mar. 6	8.27	June 5	9.96	Sept. 4	11.77
12	5.99	13	9.55	12	10.35	11	11.73
19	9.45	20	8.03	19	9.87	18	11.91
26	8.45	27	8.79	26	10.41	25	11.73

380630NO800744.1. Local number 44-4-10. West Virginia Dept. of Natural Resources, Watoga State Park. Drilled unused water-table well in Hampshire Formation of Upper Devonian age, diam 6 in (15 cm), reported depth 285 ft (86.9 m), cased with steel. Lsd is about 3,050 ft (930 m) above msl. MP top of casing 0.85 ft (26 cm) above lsd. Highest water level 15.35 ft (4.679 m), July 27, 1971; lowest water level 22.87 ft (6.971 m), Oct. 30, 1973. Records available: 1970-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 3, 1972	20.55	Jan. 2, 1973	19.43	Apr. 3, 1973	18.69	July 3, 1973	19.00
10	20.60	9	19.63	10	18.25	10	19.55
17	20.06	16	19.81	17	18.40	17	19.65
23	20.11	23	19.56	24	18.74	24	19.91
31	20.19	30	18.25	May 1	18.42	31	19.81
Nov. 7	19.77	Feb. 6	18.83	8	18.92	Aug. 7	19.83
14	19.31	13	19.21	15	18.83	14	19.89
21	18.07	20	19.36	22	19.21	21	19.90
28	17.81	27	19.62	29	18.37	28	19.95
Dec. 5	19.21	Mar. 6	18.81	June 5	19.01	Sept. 4	20.06
12	18.11	13	19.05	12	19.18	11	19.94
19	19.11	20	18.33	19	18.30	18	20.19
26	18.15	27	18.28	26	19.03	25	20.30

PRESTON COUNTY

393306NO794745.1. Local number 11-3-8. G. E. Lemmons. East Depot St., Masontown. Drilled domestic artesian well in sandstone of Pottsville Formation of Lower Pennsylvanian age, diam 8 in (20 cm), depth 785 ft (239.3 m), cased to 350 ft (106.7 m), perforated at or near Upper Freeport Coal. Lsd is about 1,770 ft (539 m) above msl. MP, N edge, top of casing 3.0 ft (91 cm) below lsd. Highest water level 7.15 ft (2.179 m), Jan. 20, 1947; lowest water level 108+ ft (32.918 m), Feb. 3, 1959. Records available: 1942-73.

Date	Water level	Date	Water level	Date	Water level
Oct. 24, 1972	66.85	Feb. 22, 1973	65.60	June 21, 1973	66.18
Nov. 21	65.03	Mar. 23	66.09	July 20	67.10
Dec. 22	65.08	Apr. 25	66.25	Aug. 23	65.79
Jan. 22, 1973	65.14	May 23	66.14	Sept. 19	66.73

392053NO794004.1. Local number 11-7-14. U.S. Army, Corps of Engineers, Rowlesburg. Drilled unused water-table well in Chemung Formation of Upper Devonian age, diam 8 in (20 cm), depth 104 ft (31.7 m), cased with steel. Lsd is about 1,400 ft (427 m) above msl. MP top of casing 1.6 ft (49 cm) above lsd. Highest water level 4.64 ft (1.414 m), Dec. 9, 1972; lowest water level 11.76 ft (3.584 m), Dec. 30, 1971. Records available: 1971-73. Average daily water level from digital punch tape.

Average daily water level from digital punch tape, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	11.12	9.67	9.30	9.54	9.12	8.87	8.45	9.42	10.29	11.09	10.99	11.58
10	9.70	8.12	5.29	10.05	...	9.65	8.66	9.05	10.40	11.33	11.37	11.63
15	10.48	8.30	8.59	10.41	...	10.23	9.33	9.96	10.44	11.45	10.60	11.48
20	10.88	8.82	9.01	10.41	10.03	9.90	8.97	10.28	9.83	11.40	10.67	10.86
25	10.81	9.50	8.53	10.34	10.52	9.77	8.86	10.13	10.55	10.95	11.02	11.04
Eom	10.54	9.43	9.76	9.80	10.35	9.75	8.34	9.60	10.91	11.13	11.38	10.78

RALEIGH COUNTY

374607N0811222.1. Local number 43-3-8. Raleigh Bottling and Ice Co., Mabscott. Drilled unused artesian well in New River Series of Lower Pennsylvanian age, diam 8 in (20 cm), depth 475 ft (144.8 m). Lsd is approximately 2,285 ft (696 m) above msl. MP top of casing 1 ft (30 cm) above lsd. Highest water level 13.03 ft (3.972 m), Dec. 27, 1972; lowest water level 37.13 ft (11.317 m), Dec. 15, 1965. Records available: 1959-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1972	18.74	Jan. 3, 1973	14.50	Apr. 4, 1973	14.93	July 4, 1973	18.32
11	18.87	10	15.55	11	14.86	11	18.94
18	18.78	17	16.05	18	15.02	19	20.92
25	18.26	24	15.84	25	14.40	25	20.07
Nov. 1	18.04	31	16.03	May 2	14.09	Aug. 1	19.06
8	18.13	Feb. 7	16.16	9	14.82	8	19.86
15	16.18	14	15.99	16	15.35	15	20.92
22	16.40	21	15.92	23	15.49	22	18.76
29	17.23	28	16.14	30	15.00	29	18.89
Dec. 6	17.27	Mar. 7	15.75	June 6	15.51	Sept. 5	19.55
13	15.92	14	16.05	13	15.99	12	20.09
20	15.93	21	14.45	20	17.08	19	20.95
27	13.03	28	14.75	27	17.77	26	21.35

RANDOLPH COUNTY

385341N0795754.1. Local number 18-3-110. Presbyterian Church, Coalton. Drilled exploratory water-table well in Homewood Sandstone of Pottsville Group of Early Pennsylvanian age, diam 6 in (15 cm), depth 155 ft (47.2 m), cased. Lsd is 2,173.0 ft (662 m) above msl. MP floor of shelterbox 2.45 ft (75 cm) above lsd. Highest water level 10.85 ft (3.307 m), Dec. 12, 1966; lowest water level 23.35 ft (7.117 m), Oct. 28, 1971. Records available: 1966-73. Water level at noon from recorder graph. Water level affected by local pumpage.

Water level at noon, from recorder graph, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	14.83	14.19	14.80	14.40	14.35	14.39	12.54	12.60	14.39	14.34	14.12	15.07
10	14.44	14.64	14.99	14.99	14.25	14.41	12.41	12.61	13.13	14.21	13.68	15.22
15	14.29	13.62	14.67	14.02	14.22	14.09	12.67	12.84	13.38	14.25	13.60	15.37
20	14.19	14.05	14.65	14.35	14.27	14.44	12.58	12.91	14.55	14.18	14.10	14.92
25	14.36	13.37	14.45	13.80	14.32	15.21	12.52	12.89	14.24	13.81	14.36	14.56
Eom	14.39	13.85	14.50	14.57	14.35	12.87	12.37	12.81	14.43	13.96	14.37	13.84

385509N0793114.1. Local number 18-5-44. Jack E. Judy, Harman. Drilled unused artesian well in Pocono Formation of Lower Mississippian age, diam 6 in (15 cm), depth 67 ft (20.4 m), cased with steel. Lsd is about 2,390 ft (728 m) above msl. MP top of casing 1.4 ft (43 cm) above lsd. Highest water level 8.75 ft (2.667 m), Jan. 5, 1973; lowest water level 12.46 ft (3.798 m), July 9, 1971. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 6, 1972	9.05	Jan. 5, 1973	8.75	Apr. 6, 1973	9.60	July 6, 1973	10.58
13	9.38	12	9.40	13	9.39	13	10.60
20	9.60	19	9.30	20	9.35	20	10.66
27	9.24	26	9.50	May 31	9.40	27	10.60
Nov. 3	9.00	Feb. 2	9.26	June 8	9.64	Aug. 3	10.50
10	8.99	9	9.60	15	9.90	10	10.50
17	9.40	16	9.30	22	9.60	17	9.67
24	9.64	23	9.30	29	10.09	24	10.19
Dec. 1	9.33	Mar. 2	9.56				
8	9.42	9	9.48				
15	9.61	16	9.64				
22	9.20	23	9.52				
29	9.30	30	9.40				

383931NO795959.1. Local number 18-8-19. Catholic Conference Center, Huttonsville. Drilled used water-table well in Chemung and Brallier Formation of Upper Devonian age, diam 6 in (15 cm), depth 64 ft (19.5 m), cased with steel. Lsd is about 2,090 ft (637 m) above msl. MP top of casing 0.93 ft (28 cm) above lsd. Highest water level 1.07 ft (32.6 cm), Nov. 20, 1972; lowest water level 3.86 ft (1.177 m), Nov. 10, 1972. Records available: 1972-73. Measurements discontinued Feb. 19, 1973.

Date	Water level	Date	Water level
Nov. 10, 1972	3.86	Feb. 5, 1973	2.22
13	1.87	12	2.17
20	1.07	19	2.51
29	2.27		

RITCHIE COUNTY

391303NO810601.1. Local number 28-2-12. West Virginia Dept. of Natural Resources, North Bend State Park. Drilled unused water-table well in Monongahela Group of Upper Pennsylvanian age, diam 8 in (20 cm), depth 198 ft (60.4 m), cased with steel. Lsd is about 720 ft (219 m) above msl. MP top of casing 1.85 ft (56 cm) above lsd. Highest water level 30.65 ft (9.342 m), Sept. 28, 1971; lowest water level 32.12 ft (9.790 m), Oct. 12, 1972. Records available: 1971-72. Measurements discontinued Oct. 19, 1972.

Date	Water level
Oct. 5, 1972	32.08
12	32.12
19	32.11

391226NO810249.1. Local number 28-3-3. Harrisville. Drilled unused artesian public-supply well in Dunkard Formation of Pennsylvanian or Permian age, diam 6 in (15 cm), depth 118 ft (36.0 m), cased with steel. MP top of casing about 1.2 ft (37 cm) above lsd. Highest water level 17.92 ft (5.462 m), Apr. 2, 1970; lowest water level 21.80 ft (6.645 m), Sept. 7, 1966. Records available: 1966-73. Average daily water level from digital punch tape.

Average daily water level from digital punch tape, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	19.78	19.38	18.95	18.87	18.78	19.11	19.14	18.93	19.43	19.65	19.55	19.88
10	20.26	18.91	18.30	19.27	18.77	19.05	18.57	18.73	19.60	19.74	19.64	20.11
15	19.85	19.29	18.49	19.50	18.63	19.17	18.79	19.16	19.72	19.45	19.25	20.07
20	19.94	19.00	18.53	19.33	18.89	18.76	19.18	19.25	19.84	19.64	19.35	20.02
25	19.80	18.73	18.70	19.10	19.22	18.83	18.72	19.36	19.61	19.69	19.46	19.93
Eom	19.81	18.58	18.86	18.92	19.30	19.26	18.67	19.27	19.89	19.37	19.74	19.92

TUCKER COUNTY

390642NO792851.1. Local number 15-4-5. West Virginia Dept. of Natural Resources, Blackwater Lodge. Drilled used water-table well in Pottsville Group of Lower Pennsylvanian age, diam 6 in (15 cm), reported depth 172 ft (52.4 m), cased with steel to 46 ft (14.0 m). Lsd is about 3,000 ft (914 m) above msl. MP top of breather pipe 1.3 ft (40 cm) above lsd. Highest water level 105.97 ft (32.300 m), May 20, 1971; lowest water level 122.40 ft (37.308 m), July 1, Dec. 16, Dec. 23, 1971. Records available: 1971-73.

Date	Water level	Date	Water level
June 28, 1973	115.40	Aug. 2, 1973	115.40
July 5	113.40	9	115.40
12	119.40	16	114.40
19	115.40	23	121.59
26	113.40	Sept. 6	121.59
		13	121.59
		20	121.59

390135N0792756.1. Local number 15-6-17. West Virginia Dept. of Natural Resources, Canaan Valley State Park. Drilled unused artesian well in Pocono Formation of Lower Mississippian age, diam 8 in (20 cm), depth 281 ft (85.6 m), cased with steel. Lsd is about 3,275 ft (998 m) above msl. MP top of casing 1.55 ft (47 cm) above lsd. Highest water level 8.05 ft (2.454 m), Dec. 11, 1972; lowest water level 11.54 ft (3.517 m), July 19, 1971. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 2, 1972	10.57	Jan. 2, 1973	10.10	Apr. 2, 1973	9.35	July 16, 1973	11.10
10	9.85	8	10.10	9	9.35	23	10.95
16	9.97	15	10.35	16	9.24	Aug. 6	10.90
23	10.05	22	10.42	23	9.90	13	10.95
30	9.99	29	9.85	30	9.01	20	10.45
Nov. 6	9.83	Feb. 5	10.00	May 7	9.95	27	10.65
13	9.55	13	10.20	14	10.22	Sept. 4	10.89
20	8.95	20	10.24	21	10.05	10	11.08
27	9.48	26	10.44	29	9.80	17	10.89
Dec. 4	9.70	Mar. 5	9.28	June 4	10.25	24	10.45
11	8.05	12	9.65	11	9.98		
18	9.31	19	10.20	18	9.24		
20	9.44	26	9.83	25	10.33		
26	9.55						

WAYNE COUNTY

382424N0823527.1. Local number 50-1-5. Ashland Oil and Refining Corp. Kenova. Drilled unused water-table well in gravel, diam 6 in (15 cm), depth 73 ft (22.3 m), cased with steel. Lsd is about 548 ft (167 m) above msl. MP 4.9 ft (1.49 m) above lsd. Highest water level 21.29 ft (6.489 m), July 30, 1956; lowest water level 43.39 ft (13.225 m), Jan. 15, 1954. Records available: 1942-46, 1948-72. No measurements made in 1973.

Date	Water level
Oct. 5, 1972	27.60
12	27.77
19	27.85
26	27.93
Nov. 2	27.93
9	27.93
16	27.85
23	27.68
Dec. 4	27.60
11	27.35
18	26.70
25	26.66

375827N0822115.1. Local number 50-6-5. West Virginia Dept. of Natural Resources, Cabwaylingo State Forest. Drilled unused water-table well in Pottsville Group of Lower Pennsylvanian age, diam 6 in (15 cm), depth 119 ft (36.3 m), cased with steel. Lsd is about 740 ft (226 m) above msl. MP top of casing 1.30 ft (40 cm) above lsd. Highest water level 27.70 ft (8.443 m), Jan. 5, Mar. 1, 1972; lowest water level 30.62 ft (9.333 m), June 16, 1971. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1972	29.65	Jan. 3, 1973	29.40	Apr. 4, 1973	29.90	July 4, 1973	29.80
11	29.70	10	29.30	11	29.80	11	29.85
18	29.70	17	29.20	18	29.90	18	29.80
25	28.80	24	29.20	25	30.00	25	29.80
Nov. 1	29.10	31	29.20	May 2	28.70	Aug. 1	30.00
8	29.20	Feb. 7	29.20	9	28.50	8	30.00
15	29.00	14	29.20	16	28.70	15	29.90
22	29.00	21	29.30	23	28.70	22	29.90
29	29.20	28	30.30	30	29.60	29	29.90
Dec. 6	28.50	Mar. 7	30.40	June 6	29.50	Sept. 5	29.90
13	28.20	14	30.50	13	29.50	12	29.95
20	28.70	21	30.45	20	29.50	19	29.90
27	29.30	28	29.90			26	29.90

382254N0802715.1. Local number 36-3-12. Glen Dodrill, Cowen. Drilled unused artesian well in Mauch Chunk Group of Upper Mississippian age, diam 6 in (15 cm), depth 40 ft (12.2 m), cased with steel. Lsd is about 2,230 ft (680 m) above msl. MP top of casing 1.5 ft (46 cm) above lsd. Highest water level 4.70 ft (1.433 m), July 5, 1972; lowest water level 7.30 ft (2.225 m), Aug. 8, Sept. 26, 1973. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1972	6.70	Jan. 3, 1973	6.20	Apr. 4, 1973	6.30	July 4, 1973	7.20
11	6.10	10	6.50	11	5.80	11	7.10
18	6.20	17	6.40	18	5.60	18	6.60
25	6.30	24	6.20	25	5.90	25	6.60
Nov. 1	5.70	31	6.20	May 2	5.60	Aug. 1	6.70
8	5.80	Feb. 7	5.90	9	6.10	8	7.30
15	5.70	14	5.90	16	6.50	15	6.50
23	5.90	21	6.10	25	6.30	22	6.40
29	6.00	28	6.50	30	6.40	28	6.80
Dec. 6	5.90	Mar. 7	6.30	June 6	6.20	Sept. 4	7.20
13	6.00	14	6.15	13	6.40	11	6.90
20	5.60	21	5.60	20	5.60	19	7.10
27	5.80	28	6.20	27	6.50	26	7.30

WETZEL COUNTY

392858N0803734.1. Local number 6-6-8. West Virginia Dept. of Natural Resources, Lewis Wetzel Public Hunting Area. Jacksonburg. Drilled unused water-table well in Dunkard Group of Permian age, diam 6 in (15 cm), depth 76 ft (23.2 m), cased with steel. Lsd is about 890 ft (271 m) above msl. MP top of casing 1.1 ft (34 cm) above lsd. Highest water level 6.10 ft (1.859 m), Nov. 28, 1973; lowest water level 19.80 ft (6.035 m), Aug. 1, 1973. Records available: 1971-73.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Oct. 4, 1972	18.20	Jan. 3, 1973	16.20	Apr. 4, 1973	14.70	July 4, 1973	15.20
11	16.90	10	15.00	11	11.00	11	13.20
18	18.50	17	19.40	18	14.30	18	12.50
26	19.10	24	19.70	24	14.10	25	8.20
Nov. 1	15.40	31	11.60	May 2	8.30	Aug. 1	19.80
8	17.70	Feb. 7	12.50	9	8.20	8	15.90
15	15.10	12	12.30	16	12.30	15	16.00
22	13.10	21	13.00	23	17.80	23	16.90
29	7.90	28	16.50	30	9.00	Sept. 5	13.50
Dec. 6	10.90	Mar. 7	17.30	June 6	9.90	12	13.30
13	12.00	14	17.70	13	11.70	19	13.40
20	15.30	21	9.20	20	12.70	26	13.50
				27	12.40		

WOOD COUNTY

391712N0813332.1. Local number 27-3-22. City of Parkersburg. Drilled unused water-table well in gravel, diam 5 in (13 cm), depth 55 ft (16.8 m), cased with steel to 55 ft (16.8 m). Lsd is about 601 ft (183 m) above msl. MP top of casing 2.94 ft (90 cm) above lsd. Highest water level 26.06 ft (4.895 m), Feb. 23, 1971; lowest water level 37.75 ft (11.506 m), Feb. 12, 1948. Records available: 1943-44, 1946-73. Water level at noon, from recorder graph.

Water level at noon, from recorder graph, water year October 1972 to September 1973

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
5	25.17	25.71	25.14	22.79	24.50	24.71	24.40	25.11	24.55	25.91	26.01	26.34
10	25.47	25.45	21.68	23.37	24.51	24.54	23.47	24.86	24.62	26.01	26.00	26.43
15	25.60	25.41	21.33	24.08	24.11	24.76	23.53	24.92	25.11	25.82	26.11	26.40
20	25.75	24.91	21.60	24.62	24.51	23.06	23.91	24.36	25.44	25.77	26.19	26.41
25	25.34	24.86	20.85	24.72	24.94	23.23	23.86	24.20	25.69	25.71	26.12	26.29
Eom	26.01	24.77	22.20	24.50	25.14	23.98	25.81	24.27	25.82	25.81	26.27	26.14

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