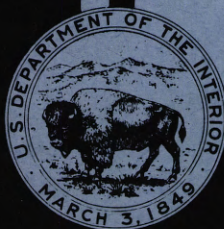
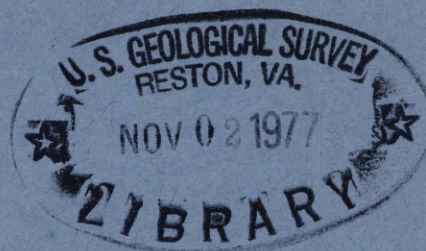


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Water Resources Data for West Virginia Water Year 1976



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WV-76-1

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

CALENDAR FOR WATER YEAR 1976

1975

OCTOBER

S	M	T	W	T	F	S
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1976

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AUGUST

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SEPTEMBER

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Water Resources Data for West Virginia Water Year 1976



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WV-76-1

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

UNITED STATES DEPARTMENT OF THE INTERIOR
CECIL B. ANDRUS, Secretary

GEOLOGICAL SURVEY
V. E. McKelvey, Director

For information on the water program in West Virginia write to
District Chief, Water Resources Division
U.S. Geological Survey
3017 Federal Building
Charleston, West Virginia 25301

1977

PREFACE

This report was prepared by personnel of the West Virginia district of the Water Resources Division of the U.S. Geological Survey under the supervision of D. H. Appel, District Chief, and F. T. Schaefer, Acting Regional Hydrologist, Northeastern Region. It was done in cooperation with the State of West Virginia and with other agencies.

This report is one of a series issued State by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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[Letter after station name designates type of data: (d) discharge, (c) chemical, (b) biological, (t) water temperature, (s) sediment, (e) gage-height, (l) elevation and content]

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INTRODUCTION

Water resources data for the 1976 water year for West Virginia consist of records of stage, discharge, and water quality of streams and springs; stage and contents of lakes and reservoirs; and water levels of ground water. This report contains discharge records for 125 gaging stations; stage only records for 4 gaging stations; stage and contents for 6 lakes and reservoirs; contents for 1 reservoir; water quality for 44 gaging stations; and water levels for 38 observation wells. Also included are 37 crest-stage partial-record stations and 8 low-flow partial-record stations. Additional water data were collected at various sites, not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in West Virginia.

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

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report WV-76-1." Water-Data reports are for sale by the National Technical Information Service, U. S. Department of Commerce, Springfield, Virginia, 22161.

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, for ground-water levels since 1941, and for water-quality records since 1969. Organizations that assisted in collecting data through cooperative agreement with the survey are:

West Virginia Department of Natural Resources, David C. Callaghan, Director, through
Division of Water Resources, John H. Hall, Jr., Chief.

West Virginia State Department of Highways, Joseph S. Jones, 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, and
U.S. Soil Conservation Service.

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.

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

Streamflow during the year was deficient throughout the State and averaged about 85 percent of normal in the Potomac River basin, about 80 percent of normal in the southern part of the State, and about 75 percent of normal throughout the remainder of the State. Graphical illustrations of monthly and yearly streamflow conditions during the year in comparison with previous records for three stations are shown on page 16.

Ground-water levels throughout the State were generally at or above average for the year except in several central counties where levels were below average for the entire year. Water levels were also below average in several eastern counties during the spring and summer months. The water level at the State index well, in Gilmer County was above average every month except April, May, and June.

DEFINITION OF TERMS

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

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

Adenosine triphosphate (ATP) is the primary energy donor in cellular life process. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

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

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

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

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

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

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

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

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

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

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

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

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square meter (g/m²).

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

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

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

Bottom material: See Bed material.

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

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

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

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

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

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

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

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

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

Cubic foot per second (FT³/s, 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, 448.8 gallons per minute, or 0.02832 cubic meters per second.

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

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

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

Dissolved refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

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

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

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

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

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

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

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

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

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

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

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

Micrograms per gram ($\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

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

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

Not detected (ND) the substance was analyzed for but not detected.

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

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

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

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

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

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

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 subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

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

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

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

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

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

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

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

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

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

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

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

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

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2 \cdot \text{time})$ for periphyton and macrophytes and $\text{mg O}_2/(\text{m}^3 \cdot \text{time})$ for phytoplankton] are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

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

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

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

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

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

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

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

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

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

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

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

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

Substrate is the physical surface upon which an organism lived.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 03041000, which appears just to the left of the station name, includes the 2-digit part number "03" plus the 6-digit downstream order number "041000".

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15-digits. The first 6-digits denote the degrees, minutes, and seconds of latitude, the next 7-digits denote degrees, minutes, and seconds of longitude and the last 2-digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 below.

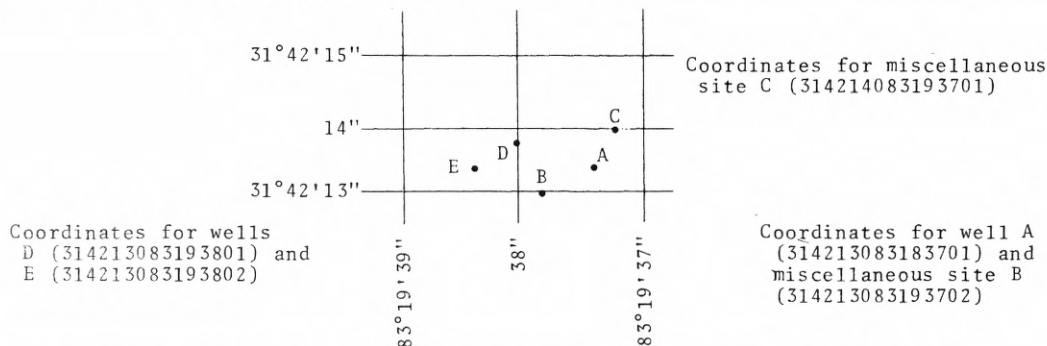


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude)

SPECIAL NETWORKS AND PROGRAMS

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

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE 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 either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard text-books, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean 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 the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern 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 gage-height record and occasional winter discharge measurements. Consideration is 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 recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

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

Previously published streamflow 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 "REVISED RECORDS" 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 are affected by the revision, the 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 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.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

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. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding 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 on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

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

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

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.

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

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

Accuracy of field data and computed results

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

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

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

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

Other data available

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

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records give the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measures and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

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

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

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

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

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

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 1.

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

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

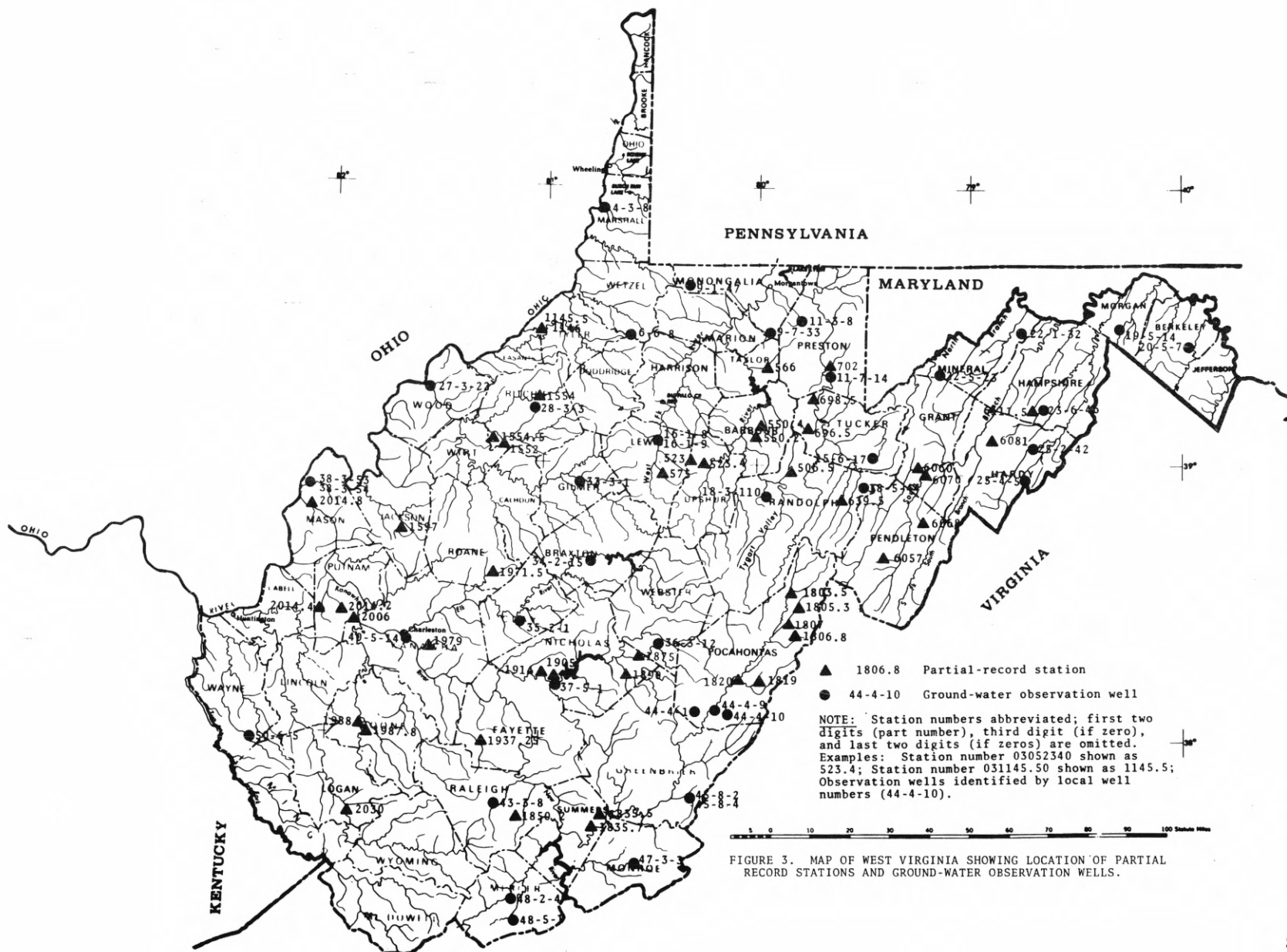
Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-one manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Picket Street, Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

- NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".
- 1-D1. Water temperature-influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages. \$1.60.
 - 2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. \$1.90.
 - 2-E1. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. \$1.75.
 - 3-A1. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. \$0.25.
 - 3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. \$0.20.
 - 3-A3. Measurement of peak discharges at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
 - 3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. \$1.00.
 - 3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. \$0.30.
 - 3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. \$0.20.
 - 3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$0.45.
 - 3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. \$1.25.
 - 3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. \$0.40.
 - 3-A12. Fluorometric procedures for dye tracing, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
 - 3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. \$0.70.
 - 3-B2. Introduction to ground-water hydraulics-a programed text for self-instruction, by D. S. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
 - 3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$0.65.
 - 3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. \$0.70.
 - 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$1.15.
 - 4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$0.30.
 - 4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$0.20.
 - 4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. \$0.65.
 - 4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
 - 4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.75.
 - 4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. \$0.65.
 - 5-A1. Methods for collection and analysis of water samples for dissolved minerals and gases, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 160 pages. \$2.40.
 - 5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. \$0.80.
 - 5-A3. Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. \$0.90.
 - 5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. \$1.95.
 - 5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. \$0.65.
 - 7-C1. Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
 - 8-A1. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. \$0.70.
 - 8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. \$0.40.





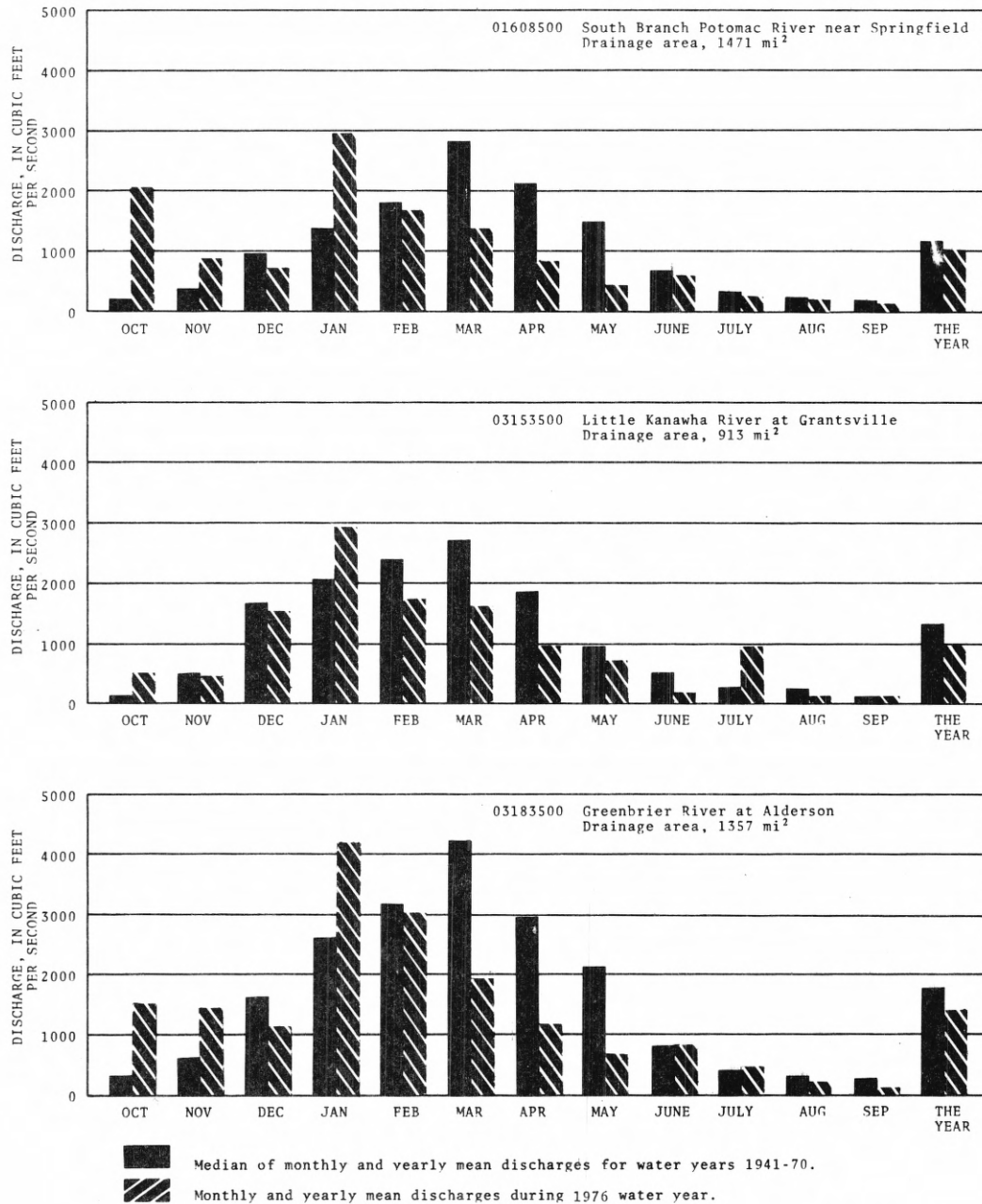


FIGURE 4. --RUNOFF DURING 1976 WATER YEAR COMPARED WITH MEDIAN RUNOFF FOR PERIOD 1941-70 FOR THREE REPRESENTATIVE GAGING STATIONS.

GAGING STATION RECORDS

17

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, Hydrologic Unit 02070002, 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.

REMARKS.--Records fair except those for winter periods, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--20 years, 170 ft³/s (4.814 m³/s), 31.62 in/yr (803 mm/yr).

EXTREMES FOR 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).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 15, 1954, reached a stage of 13.0 ft (3.96 m), from flood-marks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,200 ft³/s (62.3 m³/s) Jan. 1, gage height, 6.03 ft (1.838 m), no other peak above base of 2,200 ft³/s (62 m³/s); minimum, 9.4 ft³/s (0.27 m³/s) Sept. 7, 8, 14, 15, gage height, 2.15 ft (0.655 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	60	47	1290	166	132	252	72	137	79	32	18
2	62	54	46	529	125	119	223	110	121	68	29	19
3	58	52	42	560	135	104	254	89	104	62	25	19
4	49	52	41	457	125	99	415	80	84	76	24	18
5	46	49	42	315	124	92	352	74	72	58	22	15
6	43	51	46	261	205	87	270	72	70	49	22	12
7	39	47	95	226	120	78	227	72	76	45	51	10
8	39	51	70	204	115	74	192	74	60	41	50	12
9	58	47	66	125	110	89	162	66	57	45	30	12
10	77	47	77	190	157	117	142	62	49	36	23	46
11	124	51	66	255	1040	139	130	60	41	42	22	33
12	75	94	63	210	469	145	117	66	36	142	19	18
13	60	169	215	220	671	373	106	52	66	65	17	12
14	56	109	173	527	1010	257	99	51	60	45	18	9.4
15	48	92	149	265	534	212	89	49	37	39	20	10
16	45	89	371	213	518	208	84	89	38	96	28	26
17	145	96	253	155	539	222	76	76	50	88	19	22
18	503	85	197	125	581	195	74	133	297	58	20	19
19	226	80	140	145	417	243	68	149	355	45	20	16
20	175	74	165	178	311	250	62	107	369	37	19	13
21	148	74	140	155	250	534	58	87	295	35	14	24
22	127	68	120	145	324	394	60	80	191	38	14	26
23	115	62	115	150	281	282	60	74	219	67	14	18
24	100	58	115	185	242	230	51	68	244	123	14	16
25	92	56	120	212	239	204	49	80	227	65	13	16
26	86	52	237	498	205	176	125	82	321	47	15	15
27	82	54	226	545	182	178	92	64	167	42	174	33
28	78	56	154	341	160	212	78	56	127	36	48	87
29	68	47	127	260	145	159	70	56	105	35	30	36
30	70	47	174	215	---	155	66	118	92	35	21	42
31	62	---	829	182	---	147	---	101	---	33	19	---
TOTAL	3021	2023	4721	9338	9500	5906	4103	2469	4167	1772	886	672.4
MEAN	97.5	67.4	152	301	328	191	137	79.6	139	57.2	28.6	22.4
MAX	503	169	829	1290	1040	534	415	149	369	142	174	87
MIN	39	47	41	125	110	74	49	49	36	33	13	9.4
CFSM	1.34	.92	2.08	4.12	4.49	2.62	1.88	1.09	1.90	.78	.39	.31
IN.	1.54	1.03	2.41	4.76	4.84	3.01	2.09	1.26	2.12	.90	.45	.34

CAL YR 1975 TOTAL 68213.0 MEAN 187 MAX 2000 MIN 10 CFSM 2.56 IN 34.76
WTR YR 1976 TOTAL 48578.4 MEAN 133 MAX 1290 MIN 9.4 CFSM 1.82 IN 24.75

POTOMAC RIVER BASIN

01595200 STONY RIVER NEAR MT. STORM, WV

LOCATION.--Lat 39°16'10", long 79°15'45", Grant County, Hydrologic Unit 02070002, 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).

WATER-DISCHARGE RECORDS

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.

REMARKS.--Water-discharge records good. 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.

AVERAGE DISCHARGE.--15 years, 95.5 ft³/s (2.705 m³/s), 26.58 in/yr (675 mm/yr), unadjusted.

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 584 ft³/s (16.5 m³/s) Feb. 11, gage height, 4.87 ft (1.484 m), from rating curve extended above 1,000 ft³/s (28.3 m³/s); minimum, 7.8 ft³/s (0.22 m³/s) Sept. 8, 9, gage height, 1.87 ft (0.570 m); minimum daily discharge, 8.0 ft³/s (0.23 m³/s) Sept. 6-9, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	79	21	242	116	104	114	32	116	31	13	8.9
2	96	66	19	185	98	88	111	42	102	27	12	9.2
3	84	58	19	236	66	58	118	31	100	23	12	8.9
4	72	51	19	225	43	53	142	27	86	23	11	8.6
5	64	45	19	192	45	50	128	24	76	21	11	8.3
6	45	41	19	162	72	48	116	22	69	20	11	8.0
7	24	38	24	142	62	44	106	23	61	19	17	8.0
8	27	36	21	124	56	43	100	22	54	17	14	8.0
9	24	32	21	112	60	45	90	20	48	16	12	8.0
10	40	32	24	94	66	52	82	19	44	15	11	17
11	46	30	22	94	337	65	77	19	40	19	10	9.8
12	31	57	21	48	226	70	70	20	36	75	10	8.6
13	28	65	58	92	286	167	65	18	46	31	9.6	15
14	27	49	49	146	355	111	59	17	38	24	9.5	8.0
15	27	42	46	102	282	100	56	19	31	22	11	8.6
16	27	37	75	94	302	106	52	71	34	34	11	14
17	111	35	64	88	337	111	50	63	34	31	9.8	12
18	307	32	58	81	314	108	46	104	30	24	8.9	10
19	167	30	56	72	290	118	48	101	45	21	8.6	9.5
20	156	30	53	73	254	118	53	87	97	20	8.6	9.2
21	159	30	50	72	226	188	52	80	109	20	8.6	12
22	146	22	48	72	238	157	53	74	109	20	8.3	10
23	145	26	48	68	220	136	46	71	76	32	8.3	9.2
24	145	25	46	72	195	128	44	67	64	44	8.3	8.6
25	144	24	45	77	178	123	44	73	68	28	8.3	8.6
26	142	22	64	139	157	116	45	73	70	20	10	8.6
27	138	24	73	195	139	120	38	64	53	15	26	12
28	126	21	64	195	125	118	33	59	46	14	12	15
29	115	20	59	160	113	104	29	59	43	15	9.8	10
30	108	20	77	139	---	100	25	98	38	14	14	37
31	93	---	258	125	---	96	---	97	---	13	9.8	---
TOTAL	2977	1125	1540	4019	5258	3045	2096	1596	1863	748	344.4	328.6
MEAN	96.0	37.5	49.7	130	181	98.2	69.9	51.5	62.1	24.1	11.1	11.0
MAX	307	79	258	292	355	188	142	104	116	75	26	37
MIN	24	20	19	68	43	43	25	17	30	13	8.3	8.0
(†)	975	1202	1230	1224	1202	1224	1214	1297	1379	1405	1388	1431

CAL YR 1975 TOTAL 43809.0 MEAN 120 MAX 779 MIN 14 CFSM 2.46 IN 33.89
WTR YR 1976 TOTAL 24940.0 MEAN 68.1 MAX 355 MIN 8.0 CFSM 1.40 IN 19.01

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

POTOMAC RIVER BASIN

19

01595200 STONY RIVER NEAR MOUNT STORM, WV--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: December 1961 to March 1974, September 1974 to current year.

INSTRUMENTATION.--Temperature recorder since December 1961.

REMARKS.--Temperature recorder clock stopped Oct. 1-15 (range in temperature 12.5 to 16.5°C), Dec. 28-30 (range in temperature 4.0 to 5.0°C), Feb. 2-9 (range in temperature 2.5 to 5.5°C), May 26-27 (range in temperature 14.0 to 18.0°C), July 17-27 (range in temperature 18.0 to 20.5°C); no record Aug. 17 to Sept. 8.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 27°C July 1, Aug. 22, 23, 1968; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 23.0°C June 12; minimum, 2.5°C Dec. 20, Jan. 18, 19, 23, Feb. 10.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	14.5	14.5	6.5	4.5	5.5	5.0	5.5	5.0	10.0	9.0
2	---	---	15.0	14.5	4.5	3.5	5.0	5.0	---	---	10.5	9.5
3	---	---	14.5	14.5	3.5	3.0	5.5	5.0	---	---	10.5	10.0
4	---	---	14.5	14.5	3.5	3.0	5.5	5.5	---	---	11.0	10.5
5	---	---	14.5	14.5	4.0	3.0	5.0	5.0	---	---	12.0	11.0
6	---	---	14.5	14.5	5.5	4.0	5.0	5.0	---	---	11.0	9.0
7	---	---	14.5	14.5	5.5	5.0	5.5	5.0	---	---	9.0	7.0
8	---	---	14.5	14.5	5.0	4.0	5.5	5.0	---	---	8.0	7.5
9	---	---	14.5	14.5	4.5	4.0	5.0	4.0	---	---	8.0	6.5
10	---	---	14.5	14.5	4.0	3.5	4.0	3.5	3.5	2.5	7.0	5.5
11	---	---	14.5	13.0	3.5	3.0	4.5	4.0	3.5	3.0	8.0	7.0
12	---	---	13.0	13.0	3.0	3.0	4.5	4.5	3.5	3.0	8.0	7.0
13	---	---	13.0	13.0	4.0	3.0	5.0	4.5	4.0	3.5	7.5	7.5
14	---	---	12.0	10.5	5.0	4.0	4.5	4.0	4.0	4.0	7.5	7.0
15	14.0	13.5	10.0	9.0	6.5	5.0	4.0	4.0	4.5	4.0	8.0	7.0
16	14.0	14.0	9.0	8.5	6.5	6.0	4.0	4.0	5.5	4.5	8.5	8.0
17	15.0	14.5	8.5	8.5	6.0	5.0	4.0	4.0	6.0	5.5	8.0	7.0
18	14.5	14.5	8.5	8.5	5.0	3.5	4.0	2.5	7.0	6.0	7.5	7.0
19	16.0	15.5	8.5	8.5	3.5	3.0	3.0	2.5	7.0	7.0	8.5	7.5
20	16.0	16.0	8.5	8.0	3.0	2.5	4.0	3.0	7.0	7.0	10.5	8.5
21	16.0	16.0	8.5	7.5	3.5	3.0	4.0	4.0	8.0	8.0	10.5	10.0
22	17.0	16.0	7.5	5.5	3.5	3.0	3.5	3.0	8.0	8.0	10.0	9.5
23	17.0	17.0	5.5	5.0	3.0	3.0	3.0	2.5	8.0	8.0	9.5	9.0
24	17.0	16.5	5.0	4.0	3.0	3.0	4.0	3.0	8.0	7.5	12.0	9.5
25	17.5	17.0	5.0	4.5	3.0	3.0	4.0	4.0	8.0	7.5	12.0	11.5
26	17.5	17.5	5.0	4.5	4.0	3.0	4.0	4.0	8.5	8.0	13.0	11.5
27	17.5	17.5	5.5	4.5	4.0	4.0	4.0	4.0	9.0	8.5	13.0	13.0
28	17.5	17.0	5.0	4.0	---	---	4.0	4.0	9.0	8.5	13.0	12.0
29	17.5	17.5	4.0	3.0	---	---	4.0	4.0	9.5	9.0	12.5	11.5
30	17.5	16.5	6.0	3.5	---	---	4.0	4.0	---	---	13.5	12.0
31	16.0	15.0	---	---	5.5	5.5	5.0	4.0	---	---	13.5	13.5
MONTH	---	---	15.0	3.0	6.5	2.5	5.5	2.5	---	---	13.5	5.5

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

POTOMAC RIVER BASIN

21

01595300 ABRAM CREEK AT OAKMONT, WV

LOCATION.--Lat 39°22'00", long 79°10'45", Mineral County, Hydrologic Unit 02070002, 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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 66.5 ft³/s (1.883 m³/s), 19.09 in/yr (485 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (20 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0315	*945 26.8	6.03 1.838	Feb. 11	0800	820 23.2	5.82 1.774

Minimum discharge, 1.5 ft³/s (0.042 m³/s) Aug. 25, 26, gage height, 2.10 ft (0.640 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	41	28	395	73	57	117	28	51	14	8.6	5.6
2	51	39	27	199	60	54	105	39	43	14	7.1	7.1
3	45	37	26	191	54	52	97	30	44	13	5.9	7.1
4	39	35	25	162	52	49	134	27	36	13	5.3	5.9
5	35	34	25	112	52	46	117	25	30	12	4.7	4.7
6	32	32	25	92	52	43	94	22	28	11	5.3	3.5
7	29	31	30	99	51	40	82	22	27	13	12	2.7
8	27	31	27	99	57	38	73	22	24	12	12	2.3
9	37	30	27	61	55	41	65	21	22	11	8.0	2.1
10	70	30	31	54	67	50	60	20	20	9.8	6.8	9.5
11	87	30	27	67	439	77	56	19	18	15	5.9	10
12	51	70	26	66	210	78	51	21	17	46	4.7	4.7
13	40	92	72	65	226	213	47	19	16	17	3.8	3.3
14	35	61	54	167	270	146	44	18	18	13	3.8	3.1
15	32	52	45	84	183	110	42	18	16	11	4.7	4.1
16	30	48	56	71	183	105	39	42	18	16	8.6	22
17	159	46	48	55	204	94	37	46	18	16	5.0	26
18	559	42	42	42	233	84	34	55	16	12	3.5	19
19	222	40	34	46	175	95	32	55	18	9.8	3.1	13
20	169	38	45	55	137	79	31	40	40	8.9	2.7	9.8
21	127	39	40	50	113	141	30	33	46	8.0	2.3	12
22	100	38	35	45	125	113	31	29	72	9.2	2.1	11
23	84	34	38	42	110	87	29	27	31	14	1.9	7.4
24	74	33	34	46	91	77	28	25	23	27	1.7	5.6
25	68	33	34	60	84	72	28	28	24	15	1.7	5.0
26	63	32	41	115	76	67	43	32	38	11	6.8	4.7
27	59	31	63	208	71	72	34	27	22	8.9	59	8.0
28	53	30	43	137	66	88	30	23	18	8.6	20	16
29	50	28	36	103	62	66	27	24	19	10	13	11
30	48	28	41	85	---	66	25	74	16	9.2	8.6	34
31	43	---	272	76	---	65	---	54	---	8.0	6.2	---
TOTAL	2576	1185	1397	3149	3631	2465	1662	965	829	416.4	244.8	280.2
MEAN	83.1	39.5	45.1	102	125	79.5	55.4	31.1	27.6	13.4	7.90	9.34
MAX	559	92	272	395	439	213	134	74	72	46	59	34
MIN	27	28	25	42	51	38	25	18	16	8.0	1.7	2.1
CFSM	1.76	.84	.95	2.16	2.64	1.68	1.17	.66	.58	.28	.17	.20
IN.	2.03	.93	1.10	2.48	2.86	1.94	1.31	.76	.65	.33	.19	.22
CAL YR 1975	TOTAL	30903.9	MEAN 84.7	MAX 653	MIN 8.6	CFSM 1.79	IN 24.30					
WTR YR 1976	TOTAL	18800.4	MEAN 51.4	MAX 559	MIN 1.7	CFSM 1.09	IN 14.79					

POTOMAC RIVER BASIN

23

01595800 NORTH BRANCH POTOMAC RIVER AT BARNUM, WV

LOCATION.--Lat 39°26'44", long 79°06'39", Garrett County, Md., Hydrologic Unit 02070002, 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 and crest-stage gage. Datum of gage is 1151.82 ft (351.075 m) above mean sea level.

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

AVERAGE DISCHARGE.--10 years, 522 ft³/s (14.78 m³/s), 26.65 in/yr (677 mm/yr).

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,000 ft³/s (110 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 1	0430	*5330	151	7.42	2.262	Feb. 11	1215	4820	137	7.16	2.182

Minimum discharge, 29 ft³/s (0.82 m³/s) Aug. 26, Sept. 8, 9, gage height, 2.14 ft (0.652 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	357	268	142	3610	599	446	693	169	384	185	65	47
2	318	245	139	1570	496	410	664	265	373	160	62	43
3	286	224	129	1460	430	351	647	233	336	135	56	46
4	253	213	121	1400	400	320	960	199	288	140	51	45
5	227	198	120	480	389	245	903	181	243	135	48	40
6	212	189	121	770	491	279	734	172	223	120	45	37
7	178	186	159	705	430	259	642	165	222	110	135	33
8	156	181	182	711	374	243	576	174	198	105	168	30
9	182	173	161	506	370	245	508	156	178	95	85	30
10	331	163	176	435	384	271	446	147	159	95	65	35
11	496	164	166	484	2600	369	410	139	143	105	54	92
12	325	209	155	507	1560	488	374	154	130	300	48	54
13	255	549	374	420	1670	1050	342	139	119	190	43	39
14	224	351	462	1160	2600	877	312	127	195	110	41	36
15	205	294	347	655	1580	642	287	123	131	90	42	31
16	191	265	563	580	1660	640	265	215	116	124	51	62
17	418	261	542	502	1970	640	247	281	126	175	55	108
18	2610	243	436	365	2040	584	233	332	127	125	42	86
19	1150	225	318	324	1560	657	218	480	560	94	40	61
20	851	215	349	384	1190	687	202	347	650	79	39	50
21	707	206	334	370	967	1080	193	285	700	71	37	47
22	611	206	285	333	1010	1060	193	253	550	74	33	68
23	543	186	248	316	943	790	196	226	350	92	31	57
24	493	178	230	360	777	688	175	214	530	216	31	44
25	462	170	230	520	756	623	172	207	360	155	31	41
26	424	166	280	738	661	565	233	260	700	102	31	39
27	408	158	484	1440	593	522	254	212	400	84	317	42
28	374	164	353	1040	542	654	205	187	290	78	175	133
29	346	147	305	835	491	510	184	180	240	73	88	109
30	327	142	294	714	---	478	175	355	210	72	63	100
31	298	---	1550	636	---	462	---	411	---	67	51	---
TOTAL	14218	6539	9765	24430	29533	17235	11643	6989	9231	3756	2123	1685
MEAN	459	218	315	801	1018	556	388	225	308	121	68.5	56.2
MAX	2610	549	1550	3610	2600	1080	960	480	700	300	317	133
MIN	156	142	120	316	370	243	172	123	116	67	31	30

CAL YR 1975 TOTAL 215239 MEAN 590 MAX 4600 MIN 49 CFSM 2.22 IN 30.09
WTR YR 1976 TOTAL 137547 MEAN 376 MAX 3610 MIN 30 CFSM 1.41 IN 19.23

POTOMAC RIVER BASIN

01598500 NORTH BRANCH POTOMAC RIVER AT LUKE, MD

LOCATION.--Lat 39°28'45", long 79°03'55", Mineral County, W. Va., Hydrologic Unit 02070002, 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.

REVISED RECORDS.--WSP 192: 1899-1904. WSP 1432: 1905-6, drainage area at former site.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 944.22 ft (287.798 m) above mean sea level. June 27, 1899, to July 15, 1906, nonrecording gage at bridge 1.1 mi (1.8 km) downstream at datum about 35 ft (11 m) lower.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated since 1913 by Stony River Reservoir (station 01595200) 45 mi (72 km) upstream from station, and since December 1950, by Savage River Reservoir (station 01597500) 5 mi (8 km) upstream from station. Some regulation at low flow by West Virginia Pulp and Paper Company at site used 1899-1906.

AVERAGE DISCHARGE.--33 years (water years 1900-05, 1950-76), 699 ft³/s (19.80 m³/s), 23.50 in/yr (597 mm/yr), adjusted for storage since October 1949.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,760 ft³/s (163 m³/s) Jan. 1, gage height, 7.57 ft (2.307 m); maximum gage height, 8.56 ft (2.609 m) Jan. 19, backwater from ice jam; minimum, 88 ft³/s (2.49 m³/s) Sept. 19, gage height, 1.18 ft (0.360 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	522	400	241	4170	709	565	769	191	427	221	108	97
2	466	372	240	2540	630	524	742	290	434	189	106	96
3	429	345	230	2700	550	466	727	253	387	163	101	121
4	387	331	221	2670	761	429	1060	225	335	161	101	350
5	355	317	217	1970	691	405	1010	197	281	157	102	457
6	334	303	219	1460	591	388	821	188	254	140	106	99
7	299	296	256	1170	544	357	714	181	280	131	204	106
8	275	291	265	890	475	339	629	190	285	124	229	104
9	313	282	231	660	470	347	555	173	252	118	122	116
10	492	271	246	675	479	372	495	163	224	117	104	122
11	679	271	240	608	2670	489	455	158	197	129	115	169
12	493	301	224	624	2370	614	416	169	177	370	125	143
13	694	675	440	540	2760	1200	375	157	156	230	120	126
14	861	498	578	1280	3810	1080	350	144	222	136	118	121
15	549	422	464	1050	2760	1240	320	140	167	110	120	119
16	317	387	924	940	2800	1050	300	222	143	140	126	155
17	538	376	860	620	3120	844	278	310	154	210	133	181
18	3050	363	561	475	3250	690	260	360	154	150	118	116
19	1510	337	440	400	2720	742	247	521	616	112	115	111
20	1610	328	460	425	2070	770	230	387	811	102	114	122
21	1990	323	450	450	1600	1140	222	316	849	107	111	119
22	1660	324	710	420	1450	1230	223	277	683	116	108	135
23	1200	301	716	420	1150	962	225	251	447	130	105	130
24	1110	494	335	500	960	840	200	237	622	241	105	116
25	894	517	325	700	1150	763	198	235	436	180	106	112
26	578	272	345	900	1100	710	269	288	801	118	107	110
27	556	261	638	1870	735	662	294	239	469	108	367	115
28	525	267	484	1670	667	792	233	211	345	113	374	188
29	490	251	410	1400	611	607	209	208	286	110	259	187
30	468	241	395	1140	---	541	192	395	249	111	124	173
31	434	---	1710	765	---	518	---	487	---	107	100	---
TOTAL	24078	10417	14075	36102	43653	21676	13018	7763	11143	4651	4353	4416
MEAN	777	347	454	1165	1505	699	434	250	371	150	140	147
MAX	3050	675	1710	4170	3810	1240	1060	521	849	370	374	457
MIN	275	241	217	400	470	339	192	140	143	102	100	96
CAL YR 1975 TOTAL	317883			MEAN 871	MAX 6170	MIN 107	CFSM 2.16	IN 29.26				
WTR YR 1976 TOTAL	195345			MEAN 534	MAX 4170	MIN 96	CFSM 1.32	IN 17.98				

POTOMAC RIVER BASIN

25

01600000 NORTH BRANCH POTOMAC RIVER AT PINTO, MD

LOCATION.--Lat 39°33'59", long 78°50'25", Mineral County, W. Va., Hydrologic Unit 02070002, 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 (52.5 km).

DRAINAGE AREA.--596 mi² (1,544 km²).

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

REVISED RECORDS.--WSP 1332: 1943.

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.

REMARKS.--Records good except those for winter periods, which are fair. Some regulation at low flow by Stony River Reservoir (station 01595200) 66 mi (106 km) upstream from station, and since December 1950, by Savage River Reservoir (station 01597500).

AVERAGE DISCHARGE.--38 years, 876 ft³/s (24.81 m³/s), 19.96 in/yr (507 mm/yr), unadjusted.

EXTREMES FOR 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, 19, 1943, gage height, 1.37 ft (0.418 m), result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,610 ft³/s (244 m³/s) Jan. 1, gage height, 10.61 ft (3.234 m); minimum, 101 ft³/s (2.86 m³/s) Sept. 9, gage height, 1.75 ft (0.533 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	779	530	311	6650	1010	788	1080	270	538	292	150	116
2	690	495	305	3480	947	724	1140	341	599	268	139	124
3	612	471	293	3190	746	661	1100	374	528	228	131	119
4	547	435	281	3230	871	597	1330	314	462	205	120	279
5	492	416	272	2410	1040	563	1470	277	407	218	123	430
6	454	393	273	1480	745	536	1200	257	356	192	123	368
7	422	385	278	1640	790	497	1060	246	352	195	235	128
8	377	379	342	1260	655	464	940	245	381	176	466	119
9	425	366	297	915	650	471	831	240	343	164	225	123
10	707	356	314	845	626	508	742	218	303	147	150	153
11	989	349	316	854	2720	659	678	211	268	155	136	166
12	819	416	284	854	2860	919	623	217	239	319	150	196
13	766	949	365	755	2910	1270	559	218	211	407	150	159
14	1060	760	811	1380	4350	1610	519	193	232	218	147	147
15	889	617	600	1270	3190	1440	479	190	246	161	150	148
16	464	544	784	1270	3180	1530	444	236	198	147	161	235
17	695	515	1200	855	3550	1180	416	475	195	235	167	290
18	5740	497	716	595	3850	989	390	427	198	228	158	241
19	2690	460	545	485	3290	990	370	693	561	161	139	154
20	2220	440	533	565	2620	1020	349	548	933	131	136	145
21	2490	436	580	598	2050	1160	337	437	1120	131	131	159
22	2160	430	602	520	1850	1660	339	375	916	158	128	154
23	1560	401	881	455	1570	1260	340	336	660	161	126	175
24	1430	462	448	520	1300	1110	310	312	694	215	123	151
25	1320	739	408	764	1340	1020	300	302	572	303	123	136
26	838	356	461	771	1480	960	333	359	821	179	123	134
27	780	343	711	2130	1010	896	432	333	654	139	225	143
28	723	343	651	2160	916	1040	347	279	471	141	587	175
29	665	326	541	1780	838	880	307	266	385	155	288	271
30	620	310	526	1590	---	769	282	450	339	144	276	234
31	577	---	1470	1110	---	753	---	715	---	141	136	---
TOTAL	35005	13919	16399	46781	52954	28924	19051	10354	14182	6114	5622	5572
MEAN	1129	464	529	1509	1826	933	635	334	473	197	181	186
MAX	5740	949	1470	6650	4350	1660	1470	715	1120	407	587	430
MIN	377	310	272	455	626	464	282	190	195	131	120	116
CAL YR 1975	TOTAL	420240	MEAN	1151	MAX	6980	MIN	141	CFSM 1.93	IN	26.22	
WTR YR 1976	TOTAL	254877	MEAN	696	MAX	6650	MIN	116	CFSM 1.17	IN	15.90	

POTOMAC RIVER BASIN

01603000 NORTH BRANCH POTOMAC RIVER NEAR CUMBERLAND, MD

LOCATION.--Lat 39°37'16", long 78°46'24", Allegany County, Hydrologic Unit 02070002, on left bank at downstream side of Wiley Ford Bridge, 2.0 mi (3.2 km) south of Cumberland, 2.1 mi (3.4 km) downstream from Wills Creek, 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.

REVISED RECORDS.--WSP 726: Drainage area. WSP 781: 1932(M).

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.

REMARKS.--Records good. Regulation by Stony River Reservoir (station 01595200) about 79 mi (127 km) upstream from station, and since December 1950, by Savage River Reservoir (station 01597500). 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.

AVERAGE DISCHARGE.--47 years, 1,237 ft³/s (35.03 m³/s), 19.20 in/yr (488 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1, 1899, 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).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft³/s (280 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	1130	10400 295	10.28 3.133	Jan. 1	1230	*11300 320	10.87 3.313

Minimum discharge, 120 ft³/s (3.40 m³/s) Sept. 9, gage height, 2.13 ft (0.649 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	769	463	9300	1420	1070	1560	408	716	396	222	152
2	1000	719	450	5490	1290	998	1800	447	775	360	214	161
3	867	670	435	4410	989	936	1780	516	703	314	191	156
4	772	627	416	4190	1120	873	2280	441	620	283	175	170
5	690	598	402	3310	1410	828	2680	404	533	278	170	408
6	631	565	404	2610	989	778	2260	377	468	259	175	518
7	582	548	405	2280	980	722	1880	368	443	248	454	152
8	527	539	448	1870	879	671	1570	356	464	247	811	152
9	618	522	444	1250	928	686	1340	356	436	259	432	134
10	965	522	491	1000	849	747	1180	327	396	226	290	186
11	1270	516	479	1240	3020	912	1070	315	358	237	230	175
12	1180	709	435	1160	4250	1200	975	316	328	367	225	208
13	979	1730	502	1020	4330	1670	880	320	297	533	219	186
14	1310	1510	966	1580	6710	2630	812	295	272	316	214	166
15	1180	1190	870	1580	5150	2160	750	282	343	241	236	166
16	699	1010	945	1590	5580	2380	696	372	269	220	225	340
17	973	912	1570	1050	6860	1770	647	625	258	262	214	486
18	8100	843	1000	730	6560	1480	599	573	266	298	214	434
19	4870	771	799	680	5340	1390	565	813	483	223	186	243
20	3960	722	763	777	4140	1400	537	729	1140	186	180	191
21	3950	711	828	836	3180	1440	513	596	1870	166	175	202
22	3360	683	734	733	2810	2260	517	516	1600	234	170	180
23	2410	630	1030	640	2370	1720	506	468	1270	294	166	197
24	2030	587	695	717	1890	1540	472	436	990	272	161	186
25	1840	981	568	921	1770	1420	462	426	862	377	162	166
26	1310	569	726	1010	1970	1330	492	462	963	265	161	161
27	1150	526	1070	2560	1460	1240	557	465	879	202	234	191
28	1050	518	1070	3120	1250	1370	498	397	607	202	568	296
29	969	496	909	2530	1150	1210	446	392	499	387	427	323
30	898	466	879	2230	---	1110	415	537	439	276	327	333
31	830	---	1790	1650	---	1100	---	901	---	235	180	---
TOTAL	52110	22159	22986	64064	80644	41041	30739	14236	19547	8663	8008	7019
MEAN	1681	739	741	2067	2781	1324	1025	459	652	279	258	234
MAX	8100	1730	1790	9300	6860	2630	2680	901	1870	533	811	518
MIN	527	466	402	640	849	671	415	282	258	166	161	134
CAL YR 1975	TOTAL	636407	MEAN	1744	MAX	13100	MIN	186	CFSM	1.99	IN	27.05
WTR YR 1976	TOTAL	371216	MEAN	1014	MAX	9300	MIN	134	CFSM	1.16	IN	15.78

POTOMAC RIVER BASIN

27

01604500 PATTERSON CREEK NEAR HEADSVILLE, WV

LOCATION.--Lat 39°26'35", long 78°49'20", Mineral County, Hydrologic Unit 02070002, 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.

REVISED RECORDS.--WSP 951: 1939-40.

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.

REMARKS.--Records good. The flow from 111 mi² (287 km²) upstream from station is partially controlled, but not diverted, by several floodwater detention reservoirs with a total combined detention capacity of 19,080 acre-ft (23.5 hm³).

AVERAGE DISCHARGE.--38 years, 164 ft³/s (4.644 m³/s), 10.17 in/yr (258 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,260 ft³/s (149 m³/s) Oct. 18, gage height, 10.41 ft (3.173 m); minimum, 5.1 ft³/s (0.144 m³/s) part or all of each day Aug. 23-27, gage height, 2.37 ft (0.722 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	98	67	2180	258	120	212	49	48	25	19	8.9
2	187	91	66	1130	246	115	237	54	46	23	15	8.9
3	151	86	65	811	218	109	176	51	44	20	13	8.9
4	117	80	61	678	190	104	172	48	41	19	10	8.9
5	93	78	59	545	165	101	159	45	38	18	9.4	8.4
6	78	74	59	457	159	97	145	44	36	19	8.9	7.3
7	68	72	59	398	145	93	131	42	35	18	20	6.5
8	59	72	58	352	133	88	120	41	33	17	62	6.5
9	65	69	59	280	123	91	109	39	31	17	30	5.8
10	88	67	65	240	120	101	101	37	29	15	21	8.9
11	119	67	62	189	159	143	95	36	26	15	16	13
12	107	169	59	165	192	249	88	38	25	21	13	9.4
13	87	563	81	145	192	288	83	35	23	21	11	7.8
14	76	349	98	161	218	297	79	35	23	20	9.9	6.8
15	67	258	97	145	218	264	74	34	23	17	10	6.5
16	59	204	91	129	232	243	70	38	27	18	11	26
17	151	174	84	119	285	226	68	48	29	15	10	32
18	3570	145	75	93	338	197	65	54	27	14	8.9	39
19	1370	123	62	88	314	178	62	57	27	13	7.8	29
20	779	112	65	84	267	165	61	54	40	11	6.8	22
21	615	107	66	90	229	169	60	50	44	9.4	6.5	19
22	520	101	65	88	215	174	61	46	54	10	5.8	16
23	443	94	62	79	194	159	59	42	58	11	5.4	13
24	380	86	56	78	176	153	57	39	53	13	5.1	11
25	324	83	55	79	161	147	57	38	46	14	5.1	10
26	270	79	72	83	151	141	58	40	42	13	5.1	10
27	226	76	125	223	143	145	56	39	35	10	8.9	13
28	189	74	159	415	135	157	54	35	31	11	11	22
29	159	70	157	324	127	143	51	35	39	21	13	19
30	133	69	165	294	---	141	48	43	29	25	11	35
31	112	---	391	267	---	139	---	47	---	22	10	---
TOTAL	10896	3790	2765	10409	5703	4937	2868	1333	1082	515.4	399.6	438.5
MEAN	351	126	89.2	336	197	159	95.6	43.0	36.1	16.6	12.9	14.6
MAX	3570	563	391	2180	338	297	237	57	58	25	62	39
MIN	59	67	55	78	120	88	48	34	23	9.4	5.1	5.8
CFSM	1.60	.58	.41	1.53	.90	.73	.44	.20	.16	.08	.06	.07
IN.	1.85	.64	.47	1.77	.97	.84	.49	.23	.18	.09	.07	.07
CAL YR 1975 TOTAL	86805.0			MEAN 238	MAX 3570	MIN 15	CFSM 1.09	IN 14.74				
WTR YR 1976 TOTAL	45136.5			MEAN 123	MAX 3570	MIN 5.1	CFSM .56	IN 7.67				

POTOMAC RIVER BASIN

01605600 FRIENDS RUN NEAR FRANKLIN, WV

LOCATION.--38°39'23", long 79°23'31", Pendleton County, Hydrologic Unit 02070001, on right bank 50 ft (15 m) up-stream 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.

REVISED RECORDS.--WRD WV-75-1: 1971(M), 1972-74(P).

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.

REMARKS.--Records fair. 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.

AVERAGE DISCHARGE.--7 years, 3.64 ft³/s (0.103 m³/s), 10.86 in/yr (276 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 192 ft³/s (5.44 m³/s) Oct. 18, 1975, gage height, 4.52 ft (1.378 m), from rating curve extended above 51 ft³/s (1.44 m³/s) on basis of computations of flow through culvert and flow-over-road at gage height 4.52 ft (1.378 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 40 ft³/s (1.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0130	*192 5.44	4.52 1.378	June 20	1545	70 1.98	2.21 0.674
Dec. 31	2315	58 1.64	2.10 0.640				

No flow for part of Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.5	.84	39	4.4	1.7	2.7	.63	8.8	1.3	.13	.03
2	1.1	1.4	.76	19	2.0	1.5	2.4	.68	5.2	1.1	.12	.11
3	1.0	1.4	.70	15	2.0	1.3	2.4	.60	4.0	.92	.12	.07
4	.93	1.3	.64	10	2.4	1.2	2.4	.54	3.0	.84	.11	.05
5	.84	1.2	.59	7.0	2.2	1.1	2.7	.48	2.4	.84	.10	.04
6	.81	1.1	.55	5.2	3.6	1.0	2.4	.44	2.0	.70	.09	.04
7	.75	.92	.50	4.4	2.7	.93	2.2	.44	1.9	.63	.20	.03
8	.70	.92	.50	3.3	2.7	.90	2.2	.44	1.5	.56	.24	.02
9	.66	.88	.50	1.2	3.3	1.0	1.9	.43	1.3	.56	.11	.02
10	.61	1.0	.50	.70	3.3	1.2	1.7	.38	1.2	.44	.09	.35
11	.84	1.0	.47	1.1	3.8	1.5	1.7	.38	1.0	.56	.08	.10
12	.68	1.4	.37	1.1	2.3	3.0	1.6	.38	.84	1.5	.07	.05
13	.57	2.0	.34	1.4	2.0	6.0	1.6	.38	.77	.56	.06	.04
14	.42	1.9	.30	1.7	2.0	9.0	1.4	.36	.77	.34	.06	.03
15	.38	1.9	.35	.84	1.8	7.6	.77	.35	1.0	.34	.07	.10
16	.37	1.9	.33	.84	1.8	6.5	.50	1.4	.84	.70	.07	.21
17	5.5	1.7	.28	.77	3.3	6.5	.50	1.4	.70	.70	.04	.17
18	116	1.6	.25	.44	4.8	5.2	.56	1.7	.56	.27	.03	.11
19	52	1.5	.23	.44	7.6	4.4	.84	1.9	.50	.22	.02	.09
20	24	1.5	.30	.50	7.3	3.6	1.0	1.8	15	.20	.02	.12
21	17	1.5	.32	1.0	6.5	4.4	.77	1.6	28	.16	.02	.40
22	13	1.4	.26	1.3	6.0	3.3	.70	1.4	19	.40	.02	.15
23	10	1.3	.23	1.1	5.1	2.7	.63	1.3	11	.90	.02	.10
24	7.1	1.1	.20	1.5	3.8	3.0	.63	1.1	6.0	.68	.02	.08
25	4.8	1.1	.34	1.4	2.9	3.3	.63	1.2	4.4	.55	.02	.07
26	4.0	1.0	3.0	1.5	2.6	3.0	.70	1.2	3.3	.30	.01	.06
27	3.3	1.0	1.7	5.2	2.3	2.7	.70	.87	2.2	.20	.04	.45
28	2.4	.96	1.7	4.8	2.0	2.2	.69	.70	1.7	.33	.05	.50
29	2.0	.92	1.5	5.2	1.9	1.9	.62	.78	1.6	.26	.04	.25
30	1.7	.87	1.9	4.8	---	2.4	.56	7.6	1.4	.20	.02	.80
31	1.7	---	18	4.4	---	2.2	---	15	---	.17	.02	---
TOTAL	276.46	39.17	38.45	146.13	98.4	96.23	40.10	47.86	131.88	17.43	2.11	4.64
MEAN	8.92	1.31	1.24	4.71	3.39	3.10	1.34	1.54	4.40	.56	.068	.15
MAX	116	2.0	.18	.39	7.6	9.0	2.7	15	28	1.5	.24	.80
MIN	.37	.87	.20	.44	1.8	.90	.50	.35	.50	.16	.01	.02
CFSM	1.96	.29	.27	1.04	.75	.68	.29	.34	.97	.12	.01	.03
IN.†	2.26	.32	.31	1.19	.80	.79	.33	.39	1.08	.14	.02	.04
IN.‡	---	---	---	2.20	.89	1.69	.40	2.44	3.17	4.26	1.82	3.89
CAL YR 1975 TOTAL	1528.09			MEAN 4.19	MAX 116	MIN .19	CFSM .92	IN.† 12.49				
WTR YR 1976 TOTAL	938.86			MEAN 2.57	MAX 116	MIN .01	CFSM .56	IN.† 7.67				

† Runoff.
‡ Rainfall.

POTOMAC RIVER BASIN

29

01606500 SOUTH BRANCH POTOMAC RIVER NEAR PETERSBURG, WV

LOCATION.--Lat 38°59'34", long 79°10'26", Grant County, Hydrologic Unit 02070001, 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.

REVISED RECORDS.--WSP 951: 1939-41. WSP 1141: 1932, 1933(M), 1936-38.

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.

REMARKS.--Records good. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--48 years, 700 ft³/s (19.82 m³/s), 14.81 in/yr (376 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1877 reached a stage of 21.2 ft (6.46 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,000 ft³/s (170 m³/s) and maximum (*).

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 18	0845	*22200	629	13.47	4.106	Jan. 1	0415	14400	408	10.85	3.307

Minimum, 66 ft³/s (1.87 m³/s) Sept. 9, 10, gage height, 1.15 ft (0.351 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	533	378	301	10400	948	587	751	219	611	246	188	73
2	452	355	305	4580	990	549	948	252	537	231	162	83
3	393	336	288	3350	717	511	933	252	544	209	146	88
4	347	319	275	2930	737	479	988	223	536	195	133	86
5	311	304	267	2090	704	456	926	209	469	188	124	80
6	289	297	260	1610	1080	438	821	199	417	196	118	76
7	267	289	260	1340	1240	410	730	196	380	190	127	73
8	253	285	260	1220	1040	383	658	193	340	181	211	69
9	246	286	260	830	926	410	587	190	303	174	213	67
10	239	286	267	650	765	438	530	180	271	175	156	73
11	254	351	267	710	1240	549	486	177	247	162	134	85
12	278	391	252	684	1320	877	456	177	229	208	120	91
13	237	1270	260	600	1110	1420	410	177	211	290	110	86
14	217	1220	267	964	1490	1970	383	171	201	190	105	78
15	204	956	260	744	1280	1530	357	177	352	163	106	76
16	197	779	275	678	1170	1310	343	256	374	179	105	94
17	319	723	328	626	1280	1300	324	498	291	315	100	110
18	13300	684	305	450	1400	1080	305	432	269	295	95	113
19	4790	626	256	373	1580	1040	292	450	223	215	89	102
20	2480	587	260	460	1440	1040	284	399	289	183	85	92
21	1620	549	301	461	1210	1100	288	352	1680	162	82	88
22	1220	574	280	404	1130	1200	284	324	1400	153	79	82
23	981	498	223	352	1120	1050	280	297	931	298	78	79
24	813	450	230	394	948	919	260	271	693	528	75	77
25	702	427	240	427	884	821	252	271	564	412	73	75
26	629	404	473	438	814	737	252	305	514	288	73	74
27	601	373	1700	1400	751	665	252	275	426	224	76	80
28	537	362	1180	2860	684	645	241	241	350	201	82	92
29	478	338	891	1900	632	568	230	230	299	191	85	138
30	442	310	807	1410	---	581	219	275	274	211	80	145
31	408	---	2380	1120	---	600	---	737	---	215	77	---
TOTAL	34037	15007	14178	46855	30630	25663	14070	8605	14225	7068	3487	2625
MEAN	1098	500	457	1511	1056	828	469	278	474	228	112	87.5
MAX	13300	1270	2380	10400	1580	1970	988	737	1680	528	213	145
MIN	197	285	223	352	632	383	219	171	201	153	73	67
CFSM	1.71	.78	.71	2.35	1.64	1.29	.73	.43	.74	.36	.17	.14
IN.	1.97	.87	.82	2.71	1.77	1.49	.82	.50	.82	.41	.20	.15

CAL YR 1975	TOTAL	338244	MEAN 927	MAX 13300	MIN 112	CFSM 1.44	IN 19.60
WTR YR 1976	TOTAL	216450	MEAN 591	MAX 13300	MIN 67	CFSM .92	IN 12.54

POTOMAC RIVER BASIN

01607500 SOUTH FORK SOUTH BRANCH POTOMAC RIVER AT BRANDYWINE, WV

LOCATION.--Lat 38°37'53", long 79°14'38", Pendleton County, Hydrologic Unit 02070001, 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.

REVISED RECORDS.--WSP 1141: 1945(M), 1947(M).

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.

REMARKS.--Records good. The flow from 41.3 mi² (107.0 km²) upstream from station is partially controlled, but not diverted, by several floodwater detention reservoirs with a total combined detention capacity of 8,882 acre-ft (11.0 hm³).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,270 ft³/s (92.6 m³/s) Jan. 1, gage height, 6.91 ft (2.106 m); minimum, 4.0 ft³/s (0.113 m³/s) Sept. 9, 10, gage height, 1.85 ft (0.564 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	37	33	2030	128	66	190	25	157	20	12	4.4
2	46	35	33	829	122	62	243	29	116	17	11	5.4
3	41	34	31	454	104	59	179	25	102	16	9.8	5.6
4	35	32	29	405	102	56	142	22	82	15	8.9	5.2
5	30	31	28	265	91	53	115	21	69	14	8.1	4.8
6	28	30	27	185	87	52	95	20	59	17	7.7	4.6
7	25	36	27	160	75	50	81	20	50	19	8.5	4.4
8	22	81	26	138	62	48	72	19	43	16	11	4.2
9	20	69	27	86	66	54	65	19	38	15	9.4	4.2
10	20	40	28	69	62	58	60	18	33	14	8.1	5.6
11	20	30	26	72	61	93	57	17	28	13	7.3	6.0
12	19	36	25	70	57	171	53	19	24	22	6.4	5.2
13	17	155	21	64	54	256	49	17	21	18	5.8	4.8
14	16	160	20	74	53	286	47	16	21	14	6.4	4.4
15	15	116	20	61	51	196	45	18	21	13	6.8	5.0
16	15	90	21	58	51	159	43	42	20	14	6.0	6.8
17	70	74	21	55	55	133	41	65	27	16	5.8	8.5
18	1630	62	20	34	66	106	38	69	23	14	5.4	7.3
19	495	55	15	38	116	94	36	69	20	12	5.2	5.8
20	249	50	19	47	120	84	35	60	31	11	5.2	5.4
21	154	53	20	47	104	81	34	54	61	10	5.0	5.2
22	112	56	16	41	129	77	34	48	59	12	4.8	5.2
23	88	49	12	35	148	69	33	43	53	28	4.6	5.0
24	72	46	15	44	133	65	31	38	48	23	4.4	5.0
25	63	44	17	43	116	64	30	38	43	17	4.6	5.0
26	58	41	263	45	102	62	30	47	39	13	4.4	5.4
27	58	39	469	208	90	60	28	39	33	11	5.0	6.4
28	51	38	260	468	79	59	26	35	27	12	5.6	9.4
29	47	35	168	282	72	55	24	34	23	13	5.4	8.1
30	44	33	139	192	---	59	23	91	21	17	4.8	24
31	41	---	593	146	---	58	---	215	---	15	4.4	---
TOTAL	3656	1687	2469	6745	2556	2845	1979	1292	1392	481	207.8	186.3
MEAN	118	56.2	79.6	218	88.1	91.8	66.0	41.7	46.4	15.5	6.70	6.21
MAX	1630	160	593	2030	148	286	243	215	157	28	12	24
MIN	15	30	12	34	51	48	23	16	20	10	4.4	4.2
CFSM	1.16	.55	.78	2.14	.86	.90	.65	.41	.45	.15	.07	.06
IN.	1.33	.62	.90	2.46	.93	1.04	.72	.47	.51	.18	.08	.07
CAL YR 1975	TOTAL	42815.0	MEAN 117	MAX 3150	MIN 11	CFSM 1.15	IN 15.61					
WTR YR 1976	TOTAL	25496.1	MEAN 69.7	MAX 2030	MIN	4.2	CFSM .68	IN 9.30				

POTOMAC RIVER BASIN

31

01608000 SOUTH FORK SOUTH BRANCH POTOMAC RIVER NEAR MOOREFIELD, WV

LOCATION.--Lat 39°00'44", long 78°57'23", Hardy County, Hydrologic Unit 02070001, 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.

REVISED RECORDS.--WSP 1141: 1933(M), 1940, 1942-43, 1945, 1948(M). WSP 1302: 1931(M), 1935(M).

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.

REMARKS.--Records good. The flow from 92.7 mi² (240.1 km²) upstream from station is partially controlled, but not diverted, by several floodwater detention reservoirs with a total combined detention capacity of 19,870 acre-ft (24.5 hm³).

AVERAGE DISCHARGE.--45 years, 213 ft³/s (6.032 m³/s), 10.22 in/yr (260 mm/yr).

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,610 ft³/s (159 m³/s) Jan. 1, gage height, 7.21 ft (2.198 m); minimum, 13 ft³/s (0.368 m³/s) Sept. 9, 10, 13, gage height, 1.02 ft (0.311 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	101	74	4120	338	176	161	74	291	45	37	15
2	188	95	71	2160	310	165	335	78	248	41	32	19
3	157	90	69	1150	294	154	344	77	202	38	29	20
4	135	87	67	885	288	145	299	71	173	37	27	18
5	119	82	65	709	261	136	265	65	148	35	25	17
6	107	79	63	548	246	131	231	63	125	32	24	16
7	98	74	61	444	230	123	205	61	108	31	30	15
8	90	74	59	392	199	118	185	59	95	33	190	14
9	88	112	61	315	195	126	168	56	82	34	90	13
10	82	109	61	233	181	138	152	53	71	31	45	17
11	78	90	59	229	174	168	142	52	64	32	38	17
12	77	90	59	215	166	311	133	53	58	37	25	15
13	71	172	57	196	153	436	121	50	52	31	21	14
14	67	282	55	198	149	581	114	48	49	34	23	15
15	65	271	52	192	141	501	107	47	49	31	25	17
16	64	229	53	169	139	408	102	56	50	30	23	30
17	88	196	50	164	145	356	97	64	51	33	22	50
18	1800	169	52	139	167	293	91	97	46	36	20	43
19	1350	149	44	95	217	254	86	114	47	31	19	36
20	678	133	46	133	286	228	83	108	54	27	18	30
21	455	126	46	126	280	212	100	97	60	25	17	28
22	332	123	50	123	271	200	94	89	93	25	17	25
23	267	118	48	123	296	181	90	81	99	29	16	22
24	218	106	41	109	296	165	83	73	90	47	15	21
25	185	98	44	111	278	156	79	72	84	50	15	21
26	166	93	65	107	254	151	101	73	75	41	15	20
27	156	90	595	134	232	145	94	74	66	35	17	22
28	142	84	565	704	210	142	85	68	63	42	19	26
29	126	82	404	633	192	134	80	64	54	34	18	25
30	120	74	318	487	---	131	74	75	49	38	16	47
31	109	---	445	393	---	132	---	172	---	35	15	---
TOTAL	7904	3678	3799	15736	6588	6697	4301	2284	2796	1080	943	688
MEAN	255	123	123	508	227	216	143	73.7	93.2	34.8	30.4	22.9
MAX	1800	282	595	4120	338	581	344	172	291	50	190	50
MIN	64	74	41	95	139	118	74	47	46	25	15	13
CFSM	.90	.43	.43	1.80	.80	.76	.51	.26	.33	.12	.11	.08
IN.	1.04	.48	.50	2.07	.87	.88	.57	.30	.37	.14	.12	.09
CAL YR 1975 TOTAL	102540		MEAN 281	MAX 5550	MIN 41	CFSM .99	IN 13.48					
WTR YR 1976 TOTAL	56494		MEAN 154	MAX 4120	MIN 13	CFSM .54	IN 7.43					

POTOMAC RIVER BASIN

01608050 FORT RUN NEAR MOOREFIELD, WV

LOCATION.--Lat 39°03'56", long 78°54'49", Hardy County, Hydrologic Unit 02070001, on right bank 16 ft (5 m) upstream from bridge 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 bridge control. Concrete dam since June 10, 1970. Altitude of gage is 1,050 ft (320 m), from topographic map.

REMARKS.--Records good. 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.

AVERAGE DISCHARGE.--7 years, 4.95 ft³/s (0.140 m³/s), 13.66 in/yr (347 mm/yr).

EXTREMES FOR 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 most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0230	108 3.06	2.73 0.832	Jan. 1	0015	*386 10.9	3.62 1.103

No flow many days July, August, and September.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	1.4	1.2	124	4.8	2.6	4.0	.85	.85	.05	0	0
2	1.9	1.3	1.1	23	6.4	2.6	4.5	.85	.96	.03	0	.01
3	1.5	1.2	1.1	13	5.8	2.6	4.2	.64	.74	.02	0	0
4	1.2	1.2	.96	11	4.8	2.4	4.0	.55	.55	.02	0	0
5	.93	1.1	.88	8.1	4.0	2.4	3.8	.55	.41	.02	0	0
6	.77	.96	.75	6.4	4.0	2.2	3.5	.47	.36	.01	0	0
7	.64	.96	.74	5.4	6.8	2.0	3.2	.41	.31	.01	.03	0
8	.60	.95	.74	4.8	3.2	2.0	3.0	.36	.26	.01	.13	0
9	.71	.85	.77	4.0	3.0	2.0	2.8	.36	.22	.01	.11	0
10	1.1	1.1	.85	3.5	2.6	2.6	2.6	.36	.17	.01	.07	.01
11	1.2	.94	.79	2.8	3.0	5.8	2.6	.31	.15	.01	.04	.01
12	1.2	3.3	.67	2.6	3.0	7.1	2.4	.36	.11	.01	.02	0
13	.92	9.9	.77	2.6	3.0	9.4	2.0	.31	.09	.01	.02	0
14	.78	8.0	.81	3.0	3.0	9.1	1.9	.26	.09	.03	.02	0
15	.64	5.8	.74	2.6	3.2	6.6	1.8	.26	.09	.02	.02	.01
16	.64	4.5	.83	2.1	3.5	5.8	1.6	.36	.13	.02	.02	.26
17	5.4	3.7	.85	1.5	4.2	5.1	1.6	.31	.13	.02	.02	4.5
18	63	3.0	.85	1.1	5.1	4.2	1.3	.47	.11	.01	.02	1.9
19	17	2.6	.70	.74	5.8	4.0	1.2	.47	.06	.01	.02	.96
20	9.4	2.3	.85	.41	5.4	3.8	1.2	.36	.26	.01	.02	.47
21	6.5	2.4	.85	.31	4.8	3.5	1.6	.36	.31	.01	.02	.31
22	4.8	2.2	.85	.28	4.8	3.2	1.3	.36	.17	.01	.01	.26
23	3.6	1.8	.68	.27	4.0	3.0	1.2	.31	.11	.01	.01	.19
24	3.1	1.6	.70	.64	3.5	2.8	1.1	.26	.06	.01	.01	.15
25	2.7	1.6	.74	.96	3.2	2.6	.96	.47	.05	.01	.01	.11
26	2.5	1.6	5.5	1.1	3.0	2.6	.96	.41	.17	.01	.01	.09
27	2.2	1.5	11	4.5	3.0	2.6	.85	.31	.09	.01	.01	.09
28	2.0	1.4	7.9	7.4	2.8	2.4	.74	.22	.06	.01	.01	.09
29	1.8	1.3	6.0	6.1	2.6	2.0	.64	.26	.06	.01	.01	.17
30	1.7	1.1	5.8	5.1	---	2.0	.64	.55	.07	0	0	2.8
31	1.5	---	41	4.5	---	2.0	---	.74	---	0	0	---
TOTAL	144.23	71.56	97.97	253.81	116.3	113.0	63.19	13.12	7.20	.43	.66	12.39
MEAN	4.65	2.39	3.16	8.19	4.01	3.65	2.11	.42	.24	.014	.021	.41
MAX	63	9.9	41	124	6.8	9.4	4.5	.85	.96	.05	.13	4.5
MIN	.60	.85	.67	.27	2.6	2.0	.64	.22	.05	0	0	0
CF5M	.95	.49	.64	1.66	.82	.74	.43	.09	.05	.002	.004	.08
IN.†	1.09	.54	.74	1.92	.88	.85	.48	.10	.05	.003	.005	.09
IN.‡	3.01	1.16	.29	---	.16	.24	.47	1.98	2.17	1.79	3.47	5.57
CAL. YR 1975 TOTAL	2055.11			MEAN 5.63	MAX 193	MIN .06	CF5M 1.14	IN.† 15.54				
WTR YR 1976 TOTAL	893.86			MEAN 2.44	MAX 124	MIN 0	CF5M .50	IN.† 6.76				

† Runoff.
‡ Rainfall.

POTOMAC RIVER BASIN

33

01608400 BUFFALO CREEK NEAR ROMNEY, WV

LOCATION.--Lat 39°22'18", long 78°43'51", Hampshire County, Hydrologic Unit 02070001, 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.

REMARKS.--Records fair except those for periods of no gage-height record, Oct. 15-21 and Dec. 31 to Feb. 4, 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.

AVERAGE DISCHARGE.--7 years, 3.75 ft³/s (0.106 m³/s), 11.65 in/yr (296 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft³/s (1.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 11	1915	118	3.34	Jan. 1	Unknown	*410	11.6
Oct. 18	Unknown	a150	4.25				b6.8
			Unknown				2.07

No flow many days June-September.

* From rating curve extended as explained above.

a Estimated.

b From information by local resident.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.76	.37	110	4.0	1.5	5.2	.46	.09	.02	0	.01
2	.70	.76	.37	20	7.0	1.4	5.6	.58	.09	.01	0	.01
3	.41	.76	.37	16	5.9	1.3	4.9	.58	.10	.01	0	.01
4	.25	.76	.37	11	4.8	1.3	4.7	.46	.11	0	0	0
5	.22	.70	.29	9.0	3.9	1.2	3.7	.41	.10	0	0	0
6	.22	.64	.29	7.0	3.0	1.2	3.3	.37	.07	0	0	0
7	.41	.52	.29	5.5	2.3	1.1	2.6	.29	.05	0	.55	0
8	.41	.46	.29	4.0	1.9	1.1	2.6	.29	.03	0	1.8	0
9	.22	.46	.37	3.0	1.7	1.1	2.3	.25	.03	0	.52	0
10	.14	.52	.64	3.2	1.5	1.8	2.0	.25	.03	0	.29	.02
11	34	1.1	.64	2.8	2.3	4.6	1.9	.22	.01	.01	.22	0
12	44	18	.46	2.0	2.3	5.8	1.7	.22	.01	0	.16	0
13	14	28	.98	2.1	2.1	7.4	1.4	.22	.01	0	.12	0
14	9.7	12	1.1	2.3	4.4	6.2	1.4	.19	0	0	.10	0
15	6.8	6.2	1.1	2.0	3.7	4.7	1.4	.19	0	.05	.10	.01
16	6.0	4.0	1.1	1.5	3.9	4.2	1.3	.19	0	0	.09	.02
17	8.0	2.9	.98	1.2	6.2	3.7	.83	.19	0	0	.07	1.8
18	70	2.2	.90	1.1	7.4	2.6	.83	.25	0	0	.03	1.2
19	20	1.7	.70	1.0	6.8	2.3	.76	.46	.05	0	.02	.52
20	12	1.5	.64	1.2	5.1	2.2	.64	.33	.10	0	.02	.41
21	7.4	1.4	.70	1.3	3.9	2.7	.70	.25	.03	0	.01	.29
22	5.4	1.1	.70	1.0	3.4	2.3	.70	.22	.05	0	.01	.22
23	3.9	.90	.64	.80	2.9	2.1	.64	.16	.10	0	0	.19
24	2.7	.76	.52	.70	2.3	2.0	.46	.11	.12	0	0	.16
25	2.2	.76	.46	.85	2.2	2.0	.46	.10	.12	0	0	.12
26	2.0	.70	1.7	1.4	2.0	1.9	.83	.10	.10	0	.01	.11
27	1.7	.58	5.4	3.0	2.0	1.9	.64	.09	.09	0	.02	.12
28	1.4	.58	4.9	6.2	1.8	2.2	.64	.07	.05	.04	0	.12
29	1.2	.46	4.2	5.0	1.6	1.8	.52	.07	.03	0	.01	.11
30	1.1	.37	4.6	3.7	1.9	1.9	.46	.09	.02	0	.01	6.2
31	.98	---	6.6	3.0	---	1.9	---	.09	---	0	.01	---
TOTAL	258.66	91.55	42.67	232.85	102.3	79.4	55.41	7.75	1.59	.14	4.17	11.65
MEAN	8.34	3.05	1.38	7.51	3.53	2.56	1.85	.25	.053	.005	.13	.39
MAX	70	28	6.6	110	7.4	7.4	5.6	.58	.12	.05	1.8	6.2
MIN	.14	.37	.29	.70	1.5	1.1	.46	.07	0	0	0	0
CFSM	1.91	.70	.32	1.72	.81	.59	.42	.06	.01	.001	.03	.09
IN.†	2.20	.78	.36	1.98	.87	.68	.47	.07	.01	.001	.04	.10
IN.‡	---	1.46	2.82	1.65	.59	1.57	.56	1.33	2.79	2.48	3.89	5.12

CAL YR 1975 TOTAL 1645.86 MEAN 4.51 MAX 87 MIN 0 CFSM 1.03 IN† 14.01
WTR YR 1976 TOTAL 888.14 MEAN 2.43 MAX 110 MIN 0 CFSM .56 IN† 7.56

† Runoff.
‡ Rainfall.

01608500 SOUTH BRANCH POTOMAC RIVER NEAR SPRINGFIELD, WV

LOCATION.--Lat 39°26'49", long 78°39'16", Hampshire County, Hydrologic Unit 02070001, 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.

REVISED RECORDS.--WSP 1552: 1903-06, 1929-30(M), 1932-33(M), 1935(M), 1937-40(M), 1942-43(M), 1945(M).

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.

REMARKS.--Records good. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--52 years (water years 1900-01, 1904-05, 1929-76), 1,274 ft³/s (36.08 m³/s), 11.76 in/yr (299 mm/yr).

EXTREMES FOR 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 28,000 ft³/s (793 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in November 1877 reached a stage of about 34 ft (10.4 m), from flood-marks, discharge, 140,000 ft³/s (3,960 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 10,000 ft³/s (280 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 19	0200	*27900	790	Jan. 1	2015	26000	736
			17.32				16.75
			5.279				5.105

Minimum discharge, 109 ft³/s (3.08 m³/s) Sept. 9, 10, gage height, 1.39 ft (0.424 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1260	678	515	18500	2030	1030	1130	397	905	366	277	117
2	1050	632	493	14800	1990	962	1510	407	919	332	262	115
3	885	596	487	7550	1740	900	1720	428	798	311	237	115
4	755	566	472	5640	1500	847	1630	429	749	289	213	120
5	668	538	454	4390	1440	803	1610	390	716	278	196	128
6	600	515	438	3310	1340	753	1460	364	636	265	185	122
7	551	495	433	2680	1720	713	1310	346	572	251	235	117
8	517	483	421	2370	1630	672	1180	333	524	255	816	113
9	511	471	427	1990	1490	668	1060	324	478	249	600	109
10	565	507	435	1380	1330	735	960	317	433	247	396	120
11	558	541	433	1290	1260	862	880	309	393	238	287	128
12	551	742	431	1300	1950	1510	816	305	358	249	238	120
13	524	2120	447	1210	1760	2060	762	297	336	244	206	117
14	465	2280	502	1180	1760	3090	698	292	313	308	186	126
15	430	1910	491	1530	2030	2970	656	287	305	286	178	122
16	401	1520	475	1230	1800	2400	621	296	352	251	186	156
17	441	1290	467	1140	1790	2190	589	366	480	227	171	231
18	14400	1160	503	978	2040	1950	558	684	391	265	161	308
19	15200	1070	483	620	2120	1670	528	679	369	367	154	245
20	5750	988	450	640	2260	1590	502	673	381	293	145	195
21	3650	931	424	880	2040	1570	490	621	412	253	138	173
22	2600	906	473	690	1800	1640	512	553	1730	232	130	156
23	2000	877	453	560	1760	1590	495	505	1390	216	128	145
24	1630	782	396	620	1670	1430	479	462	1020	252	122	138
25	1370	716	370	780	1510	1310	460	434	803	511	118	130
26	1180	683	455	734	1410	1200	474	437	681	477	117	128
27	1070	649	1620	897	1310	1120	470	457	602	376	138	134
28	993	607	2910	3760	1210	1060	455	439	535	323	122	147
29	903	581	2110	3990	1110	1000	433	393	466	302	118	151
30	801	548	1700	3000	---	924	409	384	412	284	118	203
31	730	---	2040	2400	---	941	---	441	---	265	118	---
TOTAL	63009	26382	22208	92039	48800	42160	24857	13049	18459	9062	6696	4429
MEAN	2033	879	716	2969	1683	1360	829	421	615	292	216	148
MAX	15200	2280	2910	18500	2260	3090	1720	684	1730	511	816	308
MIN	401	471	370	560	1110	668	409	287	305	216	117	109
CFSM	1.38	.60	.49	2.02	1.14	.92	.56	.29	.42	.20	.15	.10
IN.	1.59	.67	.56	2.33	1.23	1.07	.63	.33	.47	.23	.17	.11
CAL YR 1975 TOTAL	637988			1748	MAX	31500	MIN 215	CFSM 1.19	IN 16.13			
WTR YR 1976 TOTAL	371150			1014	MAX	18500	MIN 109	CFSM .69	IN 9.39			

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LOCATION.--Lat 39°29'55", long 78°29'20", Hampshire County, Hydrologic Unit 02070003, 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).

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

REMARKS. --Records fair.

EXTREMES FOR 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 at 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.

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft ³ /s)	(m ³ /s)	(ft)	(m)			(ft ³ /s)	(m ³ /s)	(ft)	(m)
Oct. 18	0615	1720	48.7	6.90	2.103	Jan. 1	0600	*3660	104	8.88	2.707

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	25	22	2040	135	54	100	28	15	4.2	.20	.75
2	60	23	21	701	181	49	122	33	11	3.6	.20	.70
3	47	21	20	405	137	46	111	28	8.9	2.7	.16	.65
4	38	20	19	290	129	43	108	23	8.0	2.1	.16	.55
5	31	18	16	179	108	42	105	18	6.8	1.7	.12	.50
6	27	17	15	141	98	39	90	17	5.8	1.3	.12	.33
7	24	14	14	137	73	35	82	15	5.2	1.0	4.8	.28
8	21	14	14	131	73	33	72	13	4.8	.85	207	.16
9	21	14	15	75	70	34	63	11	4.7	.90	35	.08
10	30	17	23	69	60	40	57	11	4.6	.60	13	.50
11	35	27	27	68	70	66	54	10	4.4	1.1	7.5	.60
12	29	200	24	65	70	153	49	11	4.2	2.3	5.3	.36
13	24	558	26	52	61	190	43	11	4.0	2.6	4.1	.24
14	19	272	57	79	84	188	40	10	3.8	2.0	3.3	.24
15	15	169	55	63	86	153	37	8.2	4.5	1.6	2.8	.28
16	14	123	55	62	95	131	35	13	4.8	1.4	2.8	1.1
17	18	92	54	60	149	125	30	15	5.2	1.2	2.6	18
18	940	73	50	58	197	94	26	20	5.0	1.2	2.3	26
19	388	63	41	30	190	86	25	23	5.3	1.2	2.1	8.9
20	240	57	42	28	153	79	24	19	7.6	.79	1.9	5.6
21	167	55	42	41	123	79	28	12	21	.70	1.6	4.6
22	145	54	36	36	116	81	27	8.9	23	.60	1.4	3.6
23	94	43	26	28	103	66	25	7.4	13	.50	1.3	3.2
24	72	38	27	30	84	62	22	6.3	9.6	.58	1.2	2.7
25	61	36	27	32	78	60	20	5.8	8.2	.70	1.1	2.6
26	54	33	48	29	70	60	82	6.6	7.1	.55	1.0	2.4
27	46	30	175	205	66	56	60	7.9	6.3	.40	.96	3.0
28	40	28	169	250	61	65	48	7.1	5.6	.32	.70	4.2
29	35	26	147	179	56	55	36	6.1	5.5	.36	.75	5.0
30	32	23	139	149	---	54	31	11	5.2	.36	1.0	52
31	28	---	235	135	---	55	---	20	---	.24	.90	---
TOTAL	2851	2183	1681	5847	2976	2373	1652	436.3	228.1	39.65	307.37	149.15
MEAN	92.0	72.8	54.2	189	103	76.5	55.1	14.1	7.60	1.28	9.92	4.97
MAX	940	558	235	2040	197	190	122	33	23	4.2	207	52
MIN	14	14	14	28	56	33	20	5.8	3.8	.24	.12	.08
CFSM	.85	.67	.50	1.75	.95	.71	.51	.13	.07	.01	.09	.05
IN.	.98	.75	.58	2.01	1.03	.82	.57	.15	.08	.01	.11	.05
CAL YR 1975	TOTAL	45284.30	MEAN	124	MAX	2400	MIN	2.7	CFSM	1.15	IN	15.60
WTR YR 1976	TOTAL	20723.57	MEAN	56.6	MAX	2040	MIN	.08	CFSM	.52	IN	7.14

POTOMAC RIVER BASIN

01610000 POTOMAC RIVER AT PAW PAW, WV

LOCATION.--Lat 39°32'13", long 78°27'28", Allegany County, Md., Hydrologic Unit 02070003, 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.

REMARKS.--Records good. Low flow affected by Stony River Reservoir (station 01595200), and since December 1950, by Savage River Reservoir (station 01597500). Several observations of water temperature were made during the year. National Weather Service gage height telemeter at station.

AVERAGE DISCHARGE.--38 years, 3,184 ft³/s (90.17 m³/s), 13.91 in/yr (353 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20,000 ft³/s (560 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	0015	42500 1200	22.87 6.971	Jan. 1	2215	*43300 1230	23.09 7.038

Minimum discharge, 310 ft³/s (8.78 m³/s) Sept. 9, 10, gage height, 3.23 ft (0.985 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3800	2080	1390	30400	4820	2890	3690	1150	1940	1050	772	383
2	3070	1930	1340	30400	4730	2700	4690	1190	2100	950	701	362
3	2610	1830	1300	16000	4060	2530	4770	1270	1970	853	624	363
4	2260	1720	1260	12400	3650	2390	4820	1250	1750	779	549	349
5	2000	1630	1210	9780	3940	2300	5670	1140	1630	715	491	473
6	1790	1560	1170	7540	3480	2150	5140	1050	1450	701	461	673
7	1630	1490	1170	6370	3400	2020	4510	998	1320	656	512	560
8	1490	1460	1170	5750	3390	1890	3960	952	1250	642	3620	337
9	1500	1420	1240	4730	3290	1860	3490	920	1200	658	2700	324
10	1860	1430	1300	3660	3000	2010	3110	891	1090	648	1480	361
11	2310	1520	1360	3540	3490	2310	2840	864	984	647	1060	417
12	2590	1820	1280	3430	7750	3490	2600	852	893	907	825	394
13	2120	6100	1270	3200	6680	4550	2390	831	826	1040	710	411
14	2130	5830	1750	3140	8530	6510	2210	815	761	905	637	373
15	2150	4670	2000	4160	8410	6310	2060	785	750	804	681	369
16	1770	3850	1910	3690	7690	5850	1940	839	819	689	726	525
17	1490	3290	2360	3230	9280	5180	1820	1340	898	613	625	875
18	24300	2930	2240	2450	10000	4590	1710	1740	873	624	562	1280
19	31300	2660	1840	1870	9220	4030	1610	1890	841	747	520	956
20	13800	2460	1650	2010	7900	3880	1520	1950	2010	689	465	651
21	10000	2350	1700	2360	6560	3880	1460	1720	4930	571	434	541
22	7940	2260	1660	2130	5770	4540	1470	1500	5000	694	416	504
23	6240	2140	1740	1810	5310	4300	1470	1340	4030	1730	396	457
24	5130	1960	1770	1770	4690	3880	1380	1230	2850	1020	382	449
25	4490	2030	1340	2160	4230	3620	1330	1160	2460	1010	368	420
26	3870	2000	1550	2360	4230	3410	1410	1170	1990	1190	361	395
27	3290	1670	2670	3560	3880	3210	1420	1230	2110	928	433	418
28	2990	1600	5080	8110	3390	3610	1420	1160	1650	757	634	540
29	2720	1530	4270	8210	3120	3340	1290	1050	1360	884	842	650
30	2490	1450	3730	6690	---	3010	1200	1110	1210	1080	558	752
31	2260	---	4480	5600	---	2950	---	1550	---	808	510	---
TOTAL	157390	70670	60200	202510	157890	109190	78400	36937	52945	25989	24055	15562
MEAN	5077	2356	1942	6533	5444	3522	2613	1192	1765	838	776	519
MAX	31300	6100	5080	30400	10000	6510	5670	1950	5000	1730	3620	1280
MIN	1490	1420	1170	1770	3000	1860	1200	785	750	571	361	324

CAL YR 1975	TOTAL	1652375	MEAN	4527	MAX	54600	MIN	579	CFSM	1.46	IN	19.77
WTR YR 1976	TOTAL	991738	MEAN	2710	MAX	31300	MIN	324	CFSM	0.87	IN	11.86

POTOMAC RIVER BASIN

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01610200 LOST RIVER AT MCCAULEY NEAR BAKER, WV

LOCATION.--Lat 39°03'18", long 78°43'31", Hardy County, Hydrologic Unit 02070003, 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).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 1,259.34 ft (383.847 m), above mean sea level. Prior to Sept. 4, 1974, at site 350 ft (107 m) downstream at same datum.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--5 years, 184 ft³/s (5.211 m³/s), 16.12 in/yr (409 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,600 ft³/s (413 m³/s) June 23, 1972, gage height, 11.58 ft (3.530 m), site then in use, 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, 3.0 ft³/s (0.085 m³/s), part of each day Aug. 5, 6, 25, 26, Sept. 9, 10, 1975, gage height, 0.77 ft (0.235 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (54 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0445	2700 76.5	6.48 1.975	Jan. 1	0200	*7280 206	10.09 3.075

Minimum, 3.0 ft³/s (0.085 m³/s) part of each day Aug. 5, 6, 25, 26, Sept. 9, 10, gage height, 0.77 ft (0.235 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	56	41	3560	183	73	202	48	72	20	5.2	3.6
2	98	53	41	1010	202	68	212	66	86	13	4.0	4.2
3	77	50	39	651	143	64	181	53	61	10	3.6	6.4
4	63	48	37	532	163	60	165	47	46	8.4	3.4	5.5
5	54	46	35	388	148	57	143	43	37	7.9	3.2	4.4
6	48	43	34	287	145	54	122	41	31	12	3.6	3.8
7	44	42	34	240	105	50	108	39	28	11	5.5	3.6
8	40	42	33	235	108	48	95	36	25	7.9	4.4	3.2
9	42	40	36	116	114	56	84	33	21	7.1	23	3.2
10	57	41	41	105	99	66	76	31	18	6.4	12	4.2
11	50	43	37	127	120	126	72	29	16	6.4	8.4	5.2
12	43	98	33	120	103	253	65	31	14	11	6.1	4.6
13	38	349	94	107	95	376	58	28	12	11	4.9	3.8
14	35	248	33	132	110	379	55	25	11	6.4	4.6	3.4
15	33	174	32	93	102	271	52	24	13	5.2	31	3.8
16	32	138	34	88	114	226	48	35	15	4.9	18	52
17	227	111	34	92	133	196	46	37	15	7.7	11	67
18	1770	94	31	77	150	147	43	34	14	4.6	7.1	54
19	685	81	12	42	198	132	41	40	11	3.9	5.5	26
20	419	76	11	49	171	117	42	30	15	3.6	4.6	17
21	275	80	23	56	147	109	49	26	42	3.7	4.0	12
22	205	77	27	55	152	97	50	23	27	3.7	3.8	10
23	157	62	23	42	136	82	47	21	18	4.4	3.6	7.9
24	127	55	31	56	114	74	42	20	15	8.4	3.4	6.7
25	110	54	25	59	106	71	41	21	16	7.2	3.2	6.1
26	100	52	163	56	99	69	88	24	15	4.9	3.4	5.8
27	97	49	420	224	94	65	75	21	11	4.2	5.8	6.7
28	80	47	287	418	85	69	58	18	9.3	4.4	4.9	10
29	72	43	210	291	79	59	50	17	26	12	4.4	11
30	69	41	186	232	---	64	44	46	24	7.1	6.1	145
31	61	---	662	192	---	62	---	116	---	5.2	4.2	---
TOTAL	5331	2433	2719	9732	3718	3640	2454	1103	764.3	233.6	255.5	500.1
MEAN	172	81.1	87.7	314	128	117	81.8	35.6	25.5	7.5	8.24	16.7
MAX	1770	349	662	3560	202	379	212	116	86	20	44	145
MIN	32	40	11	42	79	48	41	17	9.3	3.6	3.2	3.2
CFSM	1.11	.52	.57	2.03	.83	.75	.53	.23	.16	.05	.05	.11
IN.	1.28	.58	.65	2.34	.89	.87	.59	.26	.18	.06	.06	.12

CAL YR 1975	TOTAL	69733.0	MEAN 191	MAX 4750	MIN 10	CFSM 1.23	IN 16.74
WTR YR 1976	TOTAL	32883.5	MEAN 89.8	MAX 3560	MIN 3.2	CFSM .58	IN 7.89

POTOMAC RIVER BASIN

01610200 LOST RIVER AT MCCAULEY NEAR BAKER, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1974 to October 1976 (discontinued).

INSTRUMENTATION.--Continuous temperature recorder.

REMARKS.--No record October 24-26, November 7-15, 18-23, 26-28 and December 7, 8, 15-18, 20-30.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum 29.0°C Aug. 26, 1976; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 29.0°C Aug. 26; minimum, 0.0°C on many days during winter periods.

WATER QUALITY DATA: WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HAND- NESS (CA+MG) (MG/L)
OCT											
01...	0930	127	114	7.0	14.0	7	9.0	--	1400	940	54
18...	1430	1480	80	--	13.0	--	--	--	--	--	--
19...	1605	545	91	--	14.0	--	--	--	--	--	--
30...	1030	69	130	7.3	11.0	1	9.4	240	270	170	61
NOV											
25...	1015	54	120	7.5	3.0	1	11.8	250	130	190	50
DEC											
10...	0910	42	132	--	2.0	--	--	--	--	--	--
19...	1030	12	165	7.0	.0	1	13.2	40	27	5	66
27...	1130	416	85	--	13.0	--	--	--	--	--	--
JAN											
01...	1130	2920	71	--	4.0	--	--	--	--	--	--
02...	1040	996	76	--	3.0	--	--	--	--	--	--
23...	0940	34	150	7.0	.0	1	14.2	31	18	33	52
27...	1440	149	119	--	1.0	--	--	--	--	--	--
28...	1610	378	85	--	1.0	--	--	--	--	--	--
FEB											
27...	0930	97	100	7.0	7.0	2	11.5	130	26	95	44
MAR											
13...	1035	378	91	--	5.0	--	--	--	--	--	--
17...	1300	185	--	--	15.0	--	--	--	--	--	--
25...	1030	72	120	8.5	9.5	1	9.0	86	110	88	44
APR											
01...	0930	269	108	--	8.0	--	--	--	--	--	--
23...	0920	46	115	7.1	18.5	2	8.7	130	98	220	53
25...	0830	40	129	--	14.0	--	--	--	--	--	--
MAY											
20...	0940	31	130	7.7	11.0	2	9.6	370	220	440	57
31...	0905	122	126	--	17.0	--	--	--	--	--	--
JUN											
02...	1215	69	103	--	19.0	--	--	--	--	--	--
15...	0650	11	205	--	24.0	--	--	--	--	--	--
24...	0915	13	170	7.7	23.0	2	7.0	--	>390	1100	66
30...	1355	22	224	--	22.0	--	--	--	--	--	--
JUL											
27...	0930	7.1	220	--	23.5	3	7.1	88	500	370	94
AUG											
25...	1015	3.4	158	7.9	23.5	4	7.4	430	230	37	83
SEP											
17...	1020	35	154	--	21.0	--	--	--	--	--	--
22...	0930	11	156	7.8	15.0	4	8.2	660	1200	500	62

01610200 LOST RIVER AT MCCAULEY NEAR BAKER, WV--Continued

WATER QUALITY DATA: WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	NUN- CAR- MONATE HAHO- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- MONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)
OCT											
01...	14	16	3.5	2.4	2.1	49	0	40	7.8	11	.1
18...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
30...	16	19	3.2	2.6	1.9	54	0	44	4.3	12	.1
NOV											
25...	9	15	3.0	2.3	1.5	50	0	41	2.5	11	.0
DEC											
10...	--	--	--	--	--	--	--	--	--	--	--
14...	13	19	4.5	4.0	1.7	64	0	53	10	7.2	.0
27...	--	--	--	--	--	--	--	--	--	--	--
JAN											
01...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
23...	9	17	2.3	2.2	1.4	52	0	43	8.3	12	.1
27...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
FEB											
27...	10	13	2.7	2.4	1.5	41	0	34	6.6	10	.1
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
25...	10	13	2.8	2.2	1.5	42	0	34	.2	11	.1
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
23...	10	16	3.2	2.7	1.9	53	0	43	6.7	10	.1
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
20...	8	17	3.6	2.3	1.9	60	0	49	1.9	11	.1
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
24...	9	20	3.9	2.4	2.1	70	0	57	2.2	8.1	.1
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	11	25	7.6	2.8	2.2	101	--	83	--	8.9	.1
AUG											
25...	10	25	5.0	3.1	2.2	89	0	73	1.8	11	.1
SEP											
17...	--	--	--	--	--	--	--	--	--	--	--
22...	0	19	3.5	3.8	2.3	75	0	62	1.9	13	.1

DATE	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)
OCT											
01...	6.7	92	75	1.1	.01	1.1	.00	.00	--	--	250
18...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
30...	4.0	76	75	.55	.00	.55	.09	.28	--	--	10
NOV											
25...	4.0	70	66	.47	.00	.47	.01	.03	--	--	20
DEC											
10...	--	--	--	--	--	--	--	--	--	--	--
19...	3.4	101	78	.53	.01	.54	.01	.03	--	--	20
27...	--	--	--	--	--	--	--	--	--	--	--
JAN											
01...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
23...	6.1	73	74	1.0	.00	1.0	.00	.00	--	--	30
27...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
FEB											
27...	3.8	62	59	.49	.00	.49	.01	.03	--	--	20
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	60	40	20
25...	3.7	69	60	.45	.01	.46	.01	.03	--	--	20
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
23...	2.1	74	66	.26	.01	.27	.01	.03	--	--	20
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
20...	4.2	70	74	.34	.01	.35	.01	.03	--	--	20
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
24...	7.3	110	83	.19	.00	.19	.02	.06	--	--	20
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	7.6	115	109	.01	.01	.02	.01	.03	--	--	20
AUG											
25...	3.8	99	97	.02	.01	.03	.01	.03	--	--	10
SEP											
17...	--	--	--	--	--	--	--	--	--	--	--
22...	4.5	98	89	.20	.01	.21	.02	.06	--	--	20

01610200 LOST RIVER AT MCCAULEY NEAR BAKER, WV--Continued

WATER QUALITY DATA WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL CADMI- UM (UG/L)	SUS- PENDE- D CADMI- UM (UG/L)	DIS- SOLVED CADMI- UM (UG/L)	TOTAL CHROMI- UM (UG/L)	HEXA- VALENT CHROMI- UM (UG/L)	TOTAL IRON (UG/L)	DIS- SOLVED IRON (UG/L)	TOTAL MERCURY (UG/L)	SUS- PENDE- D MERCURY (UG/L)	DIS- SOLVED MERCURY (UG/L)	TOTAL ZINC (UG/L)
OCT											
01...	--	--	--	--	--	--	70	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	50	--	--	--	--
NOV											
25...	--	--	--	--	--	--	40	--	--	--	--
DEC											
10...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	60	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN											
01...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	60	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
FEB											
27...	--	--	--	--	--	--	40	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
17...	1	0	1	0	0	200	40	<.5	.0	<.5	120
25...	--	--	--	--	--	--	50	--	--	--	--
APR											
01...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	70	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
20...	--	--	--	--	--	--	60	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	80	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	40	--	--	--	--
AUG											
25...	--	--	--	--	--	--	30	--	--	--	--
SEP											
17...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	50	--	--	--	--

DATE	SUS- PENDE- D ZINC (UG/L)	DIS- SOLVED ZINC (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE- D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS- PENDE- D MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	SUS- PENDE- D SEDIMENT (MG/L)	SUS- PENDE- D SEDIMENT DIS- CHARGE (T/DAY)
OCT										
01...	--	--	--	--	--	--	--	40	7	2.4
14...	--	--	--	--	--	--	--	--	33	132
19...	--	--	--	--	--	--	--	--	32	51
30...	--	--	--	--	--	--	--	30	2	.37
NOV										
25...	--	--	--	--	--	--	--	0	15	2.2
DEC										
10...	--	--	--	--	--	--	--	--	47	5.3
19...	--	--	--	--	--	--	--	20	0	.00
27...	--	--	--	--	--	--	--	--	17	19
JAN										
01...	--	--	--	--	--	--	--	--	217	1710
02...	--	--	--	--	--	--	--	--	50	134
23...	--	--	--	--	--	--	--	30	3	.28
27...	--	--	--	--	--	--	--	--	96	39
28...	--	--	--	--	--	--	--	--	6	6.1
FEB										
27...	--	--	--	--	--	--	--	10	31	8.1
MAR										
13...	--	--	--	--	--	--	--	--	44	45
17...	20	40	5	4	1	10	0	10	--	--
25...	--	--	--	--	--	--	--	10	4	.78
APR										
01...	--	--	--	--	--	--	--	--	7	5.1
23...	--	--	--	--	--	--	--	20	3	.37
25...	--	--	--	--	--	--	--	--	26	2.8
MAY										
20...	--	--	--	--	--	--	--	20	5	.43
31...	--	--	--	--	--	--	--	--	28	9.2
JUN										
02...	--	--	--	--	--	--	--	--	26	4.8
15...	--	--	--	--	--	--	--	--	72	2.1
24...	--	--	--	--	--	--	--	30	3	.11
30...	--	--	--	--	--	--	--	--	10	.59
JUL										
27...	--	--	--	--	--	--	--	20	3	.06
AUG										
25...	--	--	--	--	--	--	--	50	5	.05
SEP										
17...	--	--	--	--	--	--	--	--	48	4.5
22...	--	--	--	--	--	--	--	30	11	.33

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.0	7.5	6.5	5.5	4.5	5.0	4.0	2.5	2.5	8.0	7.5
2	16.0	15.0	9.5	7.5	5.5	3.5	5.0	4.0	2.5	0.0	9.0	8.0
3	15.0	12.5	10.5	9.5	3.5	2.5	4.0	4.0	0.0	0.5	9.5	8.0
4	13.0	11.5	11.5	10.5	3.0	2.5	4.0	1.0	0.0	0.5	11.0	9.5
5	13.0	12.5	12.5	11.5	2.5	2.5	1.0	0.0	2.5	0.0	12.0	11.0
6	14.5	12.5	12.5	12.0	3.0	2.5	0.0	0.0	2.5	2.0	11.5	8.5
7	14.5	14.0	---	---	---	---	1.5	0.0	2.0	0.0	8.5	6.5
8	14.5	13.5	---	---	---	---	2.0	1.5	1.0	0.5	6.5	6.0
9	14.5	13.5	---	---	2.5	2.5	2.0	0.0	1.0	0.5	6.0	2.5
10	15.0	14.5	---	---	2.5	1.5	0.5	0.0	1.0	1.0	4.0	1.0
11	16.5	15.0	---	---	2.5	1.5	0.0	0.0	5.0	1.0	6.5	4.0
12	16.5	14.5	---	---	2.0	1.5	0.5	0.0	5.0	3.5	6.5	4.5
13	14.5	13.5	---	---	3.5	1.5	0.5	0.5	4.5	4.0	7.5	4.5
14	15.5	13.5	---	---	4.0	3.5	1.5	0.0	6.0	4.5	7.0	3.5
15	16.5	15.0	---	---	---	---	1.5	1.0	5.5	4.0	6.5	4.5
16	16.0	15.5	5.5	5.0	---	---	1.0	1.0	7.0	5.0	6.5	4.5
17	16.0	12.5	6.5	5.5	---	---	1.0	0.5	9.5	7.0	4.5	1.5
18	13.5	12.5	---	---	---	---	1.0	0.5	9.5	9.0	3.5	1.0
19	13.5	12.5	---	---	0.0	0.0	1.0	0.5	9.0	7.5	7.0	3.5
20	13.5	11.0	---	---	---	---	0.5	0.5	7.5	6.0	9.5	6.5
21	12.0	9.5	---	---	---	---	0.5	0.0	7.0	5.0	11.0	9.5
22	13.0	11.5	---	---	---	---	0.0	0.0	8.5	7.0	10.5	7.5
23	13.0	12.0	---	---	---	---	0.0	0.0	7.5	4.5	8.5	6.5
24	---	---	3.5	3.0	---	---	0.5	0.0	5.0	3.5	8.0	6.5
25	---	---	3.0	3.0	---	---	0.5	0.0	5.5	3.5	9.0	8.5
26	---	---	---	---	---	---	0.0	0.0	6.5	5.5	10.5	7.5
27	13.0	11.5	---	---	---	---	0.5	0.0	7.5	6.5	11.5	10.5
28	12.5	12.0	---	---	---	---	1.0	0.0	7.5	6.5	11.5	9.0
29	12.5	12.5	4.0	3.0	---	---	1.5	1.0	7.5	6.5	10.5	9.0
30	12.0	9.5	4.5	3.5	---	---	2.0	1.5	---	---	10.0	9.0
31	9.5	7.5	---	---	4.5	3.5	2.5	2.0	---	---	10.5	10.0
MONTH	16.5	7.5	---	---	---	---	5.0	0.0	9.5	0.0	12.0	1.0
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	8.0	14.0	13.5	19.5	18.5	21.5	19.5	24.0	20.5	24.5	19.5
2	9.0	6.5	14.0	12.5	19.5	17.5	22.0	17.5	22.0	19.0	25.0	20.5
3	9.0	5.0	14.5	13.0	17.5	16.0	20.0	18.5	24.5	17.5	22.5	20.5
4	9.0	8.0	13.0	11.5	18.5	17.0	20.0	18.0	24.0	18.0	25.0	20.0
5	8.5	6.5	14.5	12.0	18.5	17.5	23.0	18.0	22.5	18.5	25.0	20.0
6	9.0	7.0	15.5	14.5	18.0	17.5	23.0	19.0	22.0	19.5	25.0	19.0
7	10.5	8.5	16.5	15.5	20.0	17.0	22.5	20.5	22.5	20.0	26.0	17.5
8	10.5	9.0	15.5	13.5	22.0	19.5	22.0	19.5	20.0	19.5	25.0	18.5
9	10.0	7.5	15.0	13.0	23.5	20.5	24.5	20.0	20.5	19.0	27.5	19.5
10	8.5	6.5	16.5	14.0	24.5	21.5	22.0	19.5	21.0	18.5	25.0	20.5
11	9.0	7.0	16.0	15.0	24.5	22.0	25.0	20.0	24.0	18.0	22.5	18.0
12	7.0	5.0	16.5	14.0	26.0	22.0	24.0	21.0	26.5	19.0	24.5	18.0
13	8.0	6.0	16.5	14.5	25.0	22.5	23.5	18.5	25.0	20.5	26.0	18.5
14	9.5	7.5	18.5	15.5	25.5	21.5	23.5	19.0	26.0	21.0	25.0	18.5
15	12.0	9.5	20.0	18.0	25.5	22.0	26.5	21.5	23.0	21.5	23.0	20.0
16	14.5	12.0	21.0	19.5	24.0	22.5	26.0	22.5	24.5	20.5	20.0	19.0
17	16.0	14.0	21.0	19.0	25.0	22.0	25.0	21.5	24.0	19.5	20.5	19.0
18	18.0	15.5	19.5	15.0	26.5	22.5	24.5	20.0	25.0	19.5	20.0	18.5
19	18.5	16.5	15.0	11.5	27.0	22.5	25.0	19.5	25.0	20.0	20.0	18.0
20	18.5	17.5	15.0	11.0	25.0	23.0	25.5	21.0	26.0	19.5	19.5	18.0
21	18.0	17.0	18.5	15.0	23.0	22.0	24.5	21.5	27.5	19.5	20.0	17.5
22	19.0	18.0	20.0	17.0	24.5	22.0	23.5	22.5	27.5	19.0	19.0	16.0
23	19.0	17.0	20.0	17.0	25.0	22.5	24.0	22.0	26.5	21.0	18.5	15.0
24	17.5	16.0	20.0	17.5	25.0	22.0	24.5	22.5	27.5	21.5	18.5	16.0
25	17.5	17.0	18.5	16.5	25.5	22.5	25.0	21.5	28.0	22.5	20.0	16.0
26	17.0	11.5	16.5	14.5	26.0	22.5	26.0	19.5	29.0	23.0	18.0	17.0
27	11.5	8.5	17.5	14.0	27.0	21.5	24.0	20.5	26.0	24.5	18.5	17.5
28	9.0	7.5	19.0	16.0	26.0	21.5	24.5	20.5	27.0	23.0	19.5	17.5
29	12.0	9.0	18.0	17.0	23.5	22.0	25.0	21.0	26.5	23.0	18.0	16.5
30	14.0	11.5	17.0	16.0	23.0	21.5	23.5	21.5	25.5	21.0	17.5	14.5
31	---	---	18.5	17.0	---	---	25.5	21.5	26.5	19.5	---	---
MONTH	19.0	5.0	21.0	11.0	27.0	16.0	26.5	17.5	29.0	17.5	27.5	14.5
YEAR	29.0	0.0										

POTOMAC RIVER BASIN

01611500 CACAPON RIVER NEAR GREAT CACAPON, WV

LOCATION.--Lat 39°34'43", long 78°18'34", Morgan County, Hydrologic Unit 02070003, 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.

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

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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--53 years (water years 1924-76), 575 ft³/s (16.28 m³/s), 11.53 in/yr (293 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,900 ft³/s (110 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	2100	8220 233	9.76 2.975	Jan. 1	2100	*17000 481	13.83 4.215

Minimum, 65 ft³/s (1.84 m³/s) Sept. 9, 10, gage height, 0.72 ft (0.219 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	882	343	263	8220	861	413	410	245	189	137	74	77
2	703	325	256	7770	960	391	821	247	254	141	85	74
3	581	313	249	3340	894	369	893	255	230	134	79	72
4	492	300	243	2480	760	352	800	264	211	126	74	74
5	426	285	233	1870	823	338	758	238	191	115	71	71
6	374	272	226	1380	720	321	698	219	169	108	68	69
7	333	264	221	1170	620	302	617	208	156	107	74	68
8	304	261	218	1120	540	286	563	198	147	106	426	68
9	301	255	224	990	540	286	514	189	140	109	680	65
10	311	260	241	660	520	315	466	182	134	111	328	71
11	326	271	268	620	488	366	434	177	129	131	216	74
12	348	351	263	700	546	596	406	176	124	139	157	75
13	308	1200	247	640	511	1000	382	172	119	133	126	71
14	271	1590	270	630	489	1420	355	167	116	119	106	71
15	247	1120	306	700	545	1220	337	165	113	108	106	69
16	225	840	302	595	526	980	322	169	117	105	167	98
17	230	687	302	534	580	893	308	185	119	105	148	164
18	3630	582	289	420	726	795	294	195	112	102	139	315
19	4890	509	268	390	793	650	277	214	120	100	109	266
20	2240	459	236	370	867	595	265	209	138	79	92	216
21	1590	432	231	425	768	554	256	201	141	75	83	160
22	1190	430	243	400	695	509	259	180	159	83	77	124
23	951	440	240	380	685	462	265	160	179	79	74	104
24	784	386	195	340	637	414	256	150	178	77	71	94
25	668	346	188	398	556	382	256	144	151	77	69	86
26	594	326	260	355	521	370	311	145	135	75	68	83
27	539	314	523	403	494	367	323	149	133	74	72	86
28	499	301	1300	1260	467	367	322	153	136	72	72	98
29	457	288	1020	1480	439	355	291	150	131	75	100	94
30	413	274	840	1150	---	344	260	156	129	71	96	113
31	374	---	876	977	---	337	---	171	---	68	83	---
TOTAL	25481	14024	11041	42167	18571	16349	12719	5833	4500	3141	4190	3170
MEAN	822	467	356	1360	640	527	424	188	150	101	135	106
MAX	4890	1590	1300	8220	960	1420	893	264	254	141	680	315
MIN	225	255	188	340	439	286	256	144	112	68	68	65
CFSM	1.21	.69	.53	2.01	.95	.78	.63	.28	.22	.15	.20	.16
IN.	1.40	.77	.61	2.32	1.02	.90	.70	.32	.25	.17	.23	.17

CAL YR 1975	TOTAL	306009	MEAN 838	MAX 18200	MIN 128	CFSM 1.24	IN 16.81
WTR YR 1976	TOTAL	161186	MEAN 440	MAX 8220	MIN 65	CFSM .85	IN 8.86

POTOMAC RIVER BASIN

43

01613000 POTOMAC RIVER AT HANCOCK, MD

LOCATION.--Lat 39°41'49", long 78°10'39", Washington County, Hydrologic Unit 02070004, 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.

REVISED RECORDS.--WSP 781: 1933(M). WSP 801: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 383.68 ft (116.946 m) above mean sea level. 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.

REMARKS.--Records good. Slight regulation at low flow from power plants upstream. Low flow affected slightly by Stony River Reservoir (station 01595200) and since December 1950, by Savage River Reservoir (station 01597500). National Weather Service gage height telemeter at station.

AVERAGE DISCHARGE.--44 years, 4,054 ft³/s (114.8 m³/s), 13.52 in/yr (343 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 340,000 ft³/s (9,630 m³/s) Mar. 18, 1936, gage height, 47.6 ft (14.508 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).

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 23,000 ft³/s (650 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	0715	49100 1390	19.85 6.050	Jan. 2	0245	*57700 1630	21.71 6.617

Minimum discharge, 402 ft³/s (11.4 m³/s) Sept. 9, 10, gage height, 2.51 ft (0.765 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6070	2670	1830	25300	6630	3570	4570	1540	1830	1360	960	618
2	4750	2480	1760	47500	6090	3340	6220	1500	2250	1220	880	492
3	3900	2340	1680	23500	5850	3130	6470	1530	2370	1110	817	453
4	3300	2220	1640	16600	5020	2960	6250	1610	2190	1010	723	442
5	2860	2110	1590	13600	4800	2810	6990	1550	1980	904	626	430
6	2530	2010	1520	10300	4860	2670	7060	1410	1830	819	572	471
7	2270	1930	1490	8530	4200	2500	6100	1310	1630	800	713	723
8	2070	1880	1460	7750	4070	2360	5270	1230	1480	761	3940	662
9	1980	1830	1510	6710	4020	2270	4590	1170	1390	758	5130	434
10	2050	1820	1630	5460	3850	2320	4050	1130	1320	745	2860	436
11	2390	1920	1740	4490	3620	2530	3640	1100	1210	826	1830	425
12	2860	2120	1750	4530	5510	3230	3340	1070	1100	1130	1330	492
13	3020	5720	1660	4250	7930	5060	3060	1040	999	1130	1040	473
14	2580	9100	1690	3950	7720	6950	2830	1020	931	1180	900	478
15	2530	7180	2290	4270	9600	8570	2640	1000	873	1070	922	460
16	2490	5650	2390	4760	8620	7530	2480	1030	839	939	1050	553
17	2130	4670	2340	4260	9210	6940	2350	1120	938	821	1000	984
18	13900	4020	2880	3560	10900	6040	2220	1860	972	724	862	1930
19	44000	3610	2420	2950	11200	5230	2100	2160	1060	682	740	1800
20	21400	3280	2130	2430	9930	4760	1990	2250	2390	774	659	1310
21	14000	3060	2000	2670	8610	4620	1910	2210	5340	789	583	952
22	10800	2930	2030	2890	7310	4760	1820	1940	6140	1050	536	756
23	8660	2830	1980	2540	6620	5310	1840	1690	5330	1980	508	666
24	6820	2640	2090	2260	5990	4720	1800	1530	4040	1880	485	594
25	5810	2430	2140	2540	5280	4350	1720	1400	2990	1250	467	566
26	5140	2550	1820	2740	4870	4100	1700	1340	2580	1170	451	536
27	4310	2340	2330	3010	4850	3880	1850	1340	2200	1290	489	545
28	3840	2100	4980	6410	4270	4190	1840	1390	2200	1050	584	667
29	3530	2010	6230	10600	3860	4350	1790	1330	1820	956	743	764
30	3210	1920	5200	9450	---	3980	1630	1280	1530	985	940	915
31	2910	---	5300	7940	---	3780	---	1380	---	1180	669	---
TOTAL	198110	93370	73500	257750	185290	132810	102120	44460	63752	32343	34009	21027
MEAN	6391	3112	2371	8315	6389	4284	3404	1434	2125	1043	1097	701
MAX	44000	9100	6230	47500	11200	8570	7060	2250	6140	1980	5130	1930
MIN	1980	1820	1460	2260	3620	2270	1630	1000	839	682	451	425
CFSM	1.57	.76	.58	2.04	1.57	1.05	.84	.35	.52	.26	.27	.17
IN.	1.81	.85	.67	2.35	1.69	1.21	.93	.41	.58	.30	.31	.19
CAL YR 1975 TOTAL	2081306	MEAN	5702	MAX	64700	MIN	663	CFSM	1.40	IN	19.01	
WTR YR 1976 TOTAL	1238541	MEAN	3384	MAX	47500	MIN	425	CFSM	.83	IN	11.31	

POTOMAC RIVER BASIN

01616500 OPEQUON CREEK NEAR MARTINSBURG, WV

LOCATION.--Lat 39°25'25", long 77°56'20", Berkeley County, Hydrologic Unit 02070004, 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.

REVISED RECORDS.--WSP 1702: 1959.

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.

REMARKS. - - Records good.

AVERAGE DISCHARGE.--29 years (water years 1947-76), 220 ft³/s (6,230 m³/s), 10.98 in/yr (279 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of about 17.5 ft (5.33 m), from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (54 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Oct. 18	1700	3050	86.4	10.43	3.179	Jan. 1	1900	*5300	150	12.08	3.682
Minimum discharge, 54 ft ³ /s (1.53 m ³ /s) Sept. 13, gage height, 1.85 ft (0.564 m).											

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	577	272	197	3870	362	197	742	146	153	286	110	71
2	517	266	195	2070	649	195	532	157	472	173	100	72
3	460	257	189	975	433	193	359	143	223	134	92	75
4	430	255	182	996	359	189	313	133	151	121	87	69
5	401	249	180	652	325	184	290	131	128	110	85	68
6	383	243	178	514	308	180	257	128	116	105	85	65
7	359	245	176	457	281	173	239	126	107	107	167	61
8	347	241	173	460	266	167	225	121	105	114	164	61
9	401	233	187	388	253	180	212	117	97	198	198	59
10	401	239	241	325	243	198	204	116	95	129	134	68
11	385	243	219	337	249	229	198	116	92	139	107	72
12	354	337	197	325	247	388	189	124	90	352	95	61
13	323	787	197	313	237	550	185	116	88	195	92	56
14	311	514	204	370	264	565	182	112	87	139	93	59
15	299	357	197	337	266	359	178	114	87	128	424	61
16	292	311	198	311	260	313	173	151	90	124	315	155
17	325	281	191	299	295	297	167	185	138	119	157	544
18	2360	264	182	247	320	253	162	160	116	105	122	221
19	1210	253	167	237	342	243	157	151	97	102	107	133
20	697	245	167	253	304	231	155	133	99	99	99	109
21	547	247	169	251	268	221	167	121	143	95	95	99
22	472	251	167	245	270	206	157	110	198	100	87	87
23	418	231	160	221	262	197	148	104	119	105	83	80
24	380	221	157	231	237	193	143	105	102	109	82	77
25	365	217	153	227	231	193	148	104	95	105	79	75
26	347	214	290	219	223	193	200	109	116	93	77	72
27	335	210	676	362	217	187	166	107	110	90	88	74
28	323	204	404	926	212	195	150	102	90	90	92	79
29	308	197	318	505	204	180	144	104	225	119	80	72
30	295	197	292	418	---	210	139	129	320	169	72	102
31	279	---	404	359	---	217	---	180	---	126	71	---
TOTAL	14901	8281	7007	17700	8367	7476	6681	3955	4149	4180	3739	2957
MEAN	481	276	226	571	289	241	223	128	138	135	121	98.6
MAX	2360	787	676	3870	649	565	742	185	472	352	424	544
MIN	279	197	153	219	204	167	139	102	87	90	71	56
CFSM	1.77	1.01	.83	2.10	1.06	.89	.82	.47	.51	.50	.44	.36
IN.	2.04	1.13	.96	2.42	1.14	1.02	.91	.54	.57	.57	.51	.40
CAL YR 1975	TOTAL	149324	MEAN 409	MAX	7640	MIN 121	CFSM 1.50	IN 20.42				
WTR YR 1976	TOTAL											

POTOMAC RIVER BASIN

45

01617000 TUSCARORA CREEK ABOVE MARTINSBURG, WV

LOCATION.--Lat 39°28'10", long 77°58'18", Berkeley County, Hydrologic Unit 02070004, 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.

REVISED RECORDS.--WSP 1202: 1949-50(M).

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.

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.

AVERAGE DISCHARGE.--24 years, 11.1 ft³/s (0.314 m³/s), 13.34 in/yr (339 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 610 ft³/s (17.3 m³/s) June 27, 1975, gage height, 11.92 ft (3.633 m), from rating curve extended above 78 ft³/s (2.21 m³/s) on basis of slope-area measurement at gage height 11.20 ft (3.414 m); 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft³/s (2.8 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 18	0415	116	3.29	8.96	2.731	Jan. 1	0330
						*122	3.46
						9.02	2.749

Minimum, 3.1 ft³/s (0.088 m³/s) part or all of each day Sept. 8-10, 12-15, gage height, 7.22 ft (2.201 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	19	14	66	19	12	31	10	9.4	7.0	4.5	3.3
2	31	18	13	34	22	11	22	11	14	6.2	4.5	3.2
3	29	17	13	32	18	11	20	10	11	5.8	4.3	3.2
4	28	17	13	28	18	11	20	9.5	10	6.1	4.1	3.2
5	26	17	13	24	17	11	20	9.5	9.1	5.7	4.1	3.2
6	25	17	13	23	17	11	19	9.2	8.8	5.3	4.4	3.3
7	24	17	13	23	16	10	17	8.8	8.5	5.4	4.7	3.3
8	24	16	13	22	16	10	17	8.4	8.0	5.8	13	3.2
9	27	16	13	21	15	11	16	8.4	7.9	6.8	6.2	3.1
10	26	17	14	20	15	11	16	8.4	7.7	5.7	5.6	3.6
11	24	17	13	20	15	12	16	8.6	7.5	7.9	5.1	3.2
12	23	25	12	19	15	14	15	8.7	7.0	7.0	4.8	3.1
13	22	28	12	19	15	17	14	7.7	7.0	5.8	4.5	3.1
14	21	22	12	21	15	15	14	7.7	7.0	5.5	4.5	3.1
15	21	20	12	19	14	14	14	7.8	7.0	6.4	4.8	3.2
16	20	19	12	19	14	15	13	9.3	7.4	5.6	4.6	5.1
17	24	19	11	17	14	15	13	9.3	7.7	5.3	4.1	6.0
18	61	18	11	16	15	14	13	10	7.0	5.0	4.1	4.1
19	32	17	11	16	15	14	12	9.2	6.9	4.8	4.1	3.7
20	28	17	11	16	14	14	12	8.1	9.5	4.8	4.1	3.3
21	26	18	11	15	14	14	12	7.8	14	5.1	4.0	3.2
22	25	17	11	15	14	13	11	7.3	9.0	5.6	3.9	3.3
23	24	16	10	14	13	13	11	7.2	7.1	5.5	3.5	3.3
24	23	16	10	14	13	13	11	7.3	6.6	5.7	3.2	3.2
25	23	16	9.9	14	13	13	11	7.3	6.1	5.2	3.2	3.2
26	22	15	16	14	12	13	12	7.3	5.9	4.8	3.2	3.3
27	22	15	16	23	12	13	11	7.3	5.6	4.5	3.9	3.6
28	21	15	14	22	12	13	11	7.3	7.2	4.5	3.8	3.7
29	20	14	13	20	12	12	10	7.4	12	4.5	3.6	3.4
30	19	14	14	19	---	14	10	9.5	7.7	4.5	3.4	7.1
31	19	---	21	18	---	14	---	9.5	---	4.5	3.4	---
TOTAL	793	529	394.9	663	434	398	444	264.8	249.6	172.3	139.2	107.8
MEAN	25.6	17.6	12.7	21.4	15.0	12.8	14.8	8.54	8.32	5.56	4.49	3.59
MAX	61	28	21	66	22	17	31	11	14	7.9	13	7.1
MIN	19	14	9.9	14	12	10	10	7.2	5.6	4.5	3.2	3.1
CFSM	2.27	1.56	1.12	1.89	1.33	1.13	1.31	.76	.74	.49	.40	.32
IN.†	2.61	1.74	1.30	2.18	1.43	1.31	1.46	.87	.82	.57	.46	.35
IN.‡	.26	1.09	2.91	1.67	.83	2.49	1.13	3.14	3.47	4.77	2.08	5.54
CAL YR 1975 TOTAL	7313.3											
WTR YR 1976 TOTAL	4589.6											
MEAN 20.0												
MAX 245												
MIN 6.1												
CFSM 1.77												
IN.† 24.07												
IN.‡ 15.11												

† Runoff.

‡ Rainfall.

POTOMAC RIVER BASIN

01618000 POTOMAC RIVER AT SHEPHERDSTOWN, WV

LOCATION.--Lat 39°26'04", long 77°48'07", Jefferson County, Hydrologic Unit 02070004, 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.

REVISED RECORDS.--WSP 756: Drainage area. WSP 781: 1929(M).

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

REMARKS.--Records good. Some regulation at low flow by power plants upstream from station, Stony River Reservoir (station 01595200) and since December 1950 by Savage River Reservoir (station 01597500). Several observations of water temperature were made during the year. National Weather Service gage height telemeter at station.

AVERAGE DISCHARGE.--37 years (water years 1929-53, 1965-76), 5,984 ft³/s (169.5 m³/s), 13.69 in/yr (348 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 23,000 ft³/s (650 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 19	1530	61000 1730	16.37 4.990	Jan. 2	1200	*72700 2060	18.33 5.587

Minimum discharge, 678 ft³/s (19.2 m³/s) Aug. 24, 25, gage height, 1.63 ft (0.497 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10600	4570	3220	21400	10100	5350	8930	2680	2760	3160	1700	1120
2	8540	4270	3060	65200	10000	4950	14000	2690	3450	2760	1460	984
3	6990	4030	2970	42200	9780	4700	12700	2680	4040	2480	1320	919
4	6010	3870	2850	27300	8010	4460	11000	2620	3830	2000	1200	821
5	5280	3680	2770	21300	7460	4290	11500	2560	3500	1800	1160	798
6	4730	3500	2700	16500	7400	4120	11600	2500	3200	1500	1100	777
7	4330	3360	2630	13200	6700	3990	10300	2320	2900	1400	1050	764
8	3990	3260	2540	11800	5860	3780	8870	2180	2650	1500	2940	894
9	4070	3220	2580	10400	5980	3680	7710	2100	2400	1550	7710	1120
10	5410	3210	2860	8350	5710	3710	6780	2010	2250	1300	5860	940
11	5390	3490	3420	7100	5450	3800	6120	1960	2100	1500	3630	806
12	5500	3950	3360	6680	6080	4290	5550	1990	1950	2700	2560	804
13	5540	8410	3200	6550	10200	6370	5120	2010	1800	2800	2000	833
14	4990	15800	3150	6360	9530	9680	4750	1880	1700	2100	1690	818
15	4430	12900	3090	6400	11000	11800	4450	1820	1600	1800	1700	833
16	4370	10100	3680	6930	11300	11100	4200	1860	1500	1700	1980	1090
17	4170	8240	3680	6530	10600	10100	3980	1980	1600	1800	1920	1550
18	11500	7010	3660	5470	13600	9200	3770	2360	1650	1600	1760	2390
19	54100	6170	3940	4560	15200	8050	3580	3480	1700	1450	1510	3010
20	40600	5580	3380	3900	14100	7190	3410	3370	2940	1350	1250	2510
21	23900	5210	3260	3890	12400	6770	3270	3500	5810	1300	1160	2030
22	17600	5070	3100	4140	10800	6650	3120	3180	10600	1600	1100	1560
23	14000	4850	3040	3780	9660	6900	2970	3130	8730	2260	1070	1200
24	11300	4500	2830	3340	8830	6800	2900	2830	6610	3000	883	1140
25	9380	4210	2940	3500	7920	6220	2850	2510	4950	2850	753	1070
26	8330	3940	3300	3830	7140	5980	2980	2210	3880	2240	834	943
27	7430	4060	4560	4820	6810	5610	3220	2170	3360	1710	902	974
28	6430	3680	6380	11900	6550	5630	3150	2440	2940	1840	925	1050
29	5860	3460	8980	16200	5690	6900	2970	2590	3150	1620	1020	1280
30	5380	3310	8230	15000	---	6530	2820	2810	3040	1690	1070	1420
31	4930	---	8140	12000	---	6570	---	2590	---	1600	1250	---
TOTAL	315080	160910	117400	380530	259860	195170	178570	77010	102590	59960	56477	36448
MEAN	10160	5364	3787	12280	8961	6296	5952	2484	3420	1934	1822	1215
MAX	54100	15800	8980	65200	15200	11800	14000	3500	10600	3160	7710	3010
MIN	3990	3210	2540	3340	5450	3680	2820	1820	1500	1300	753	764
CFSM	1.71	.90	.64	2.07	1.51	1.06	1.00	.42	.58	.33	.31	.20
IN.	1.97	1.01	.74	2.38	1.63	1.22	1.12	.48	.64	.38	.35	.23

CAL YR 1975	TOTAL	3224560	MEAN	8634	MAX	85100	MIN	1510	CFSM	1.49	IN	20.21
WTR YR 1976	TOTAL	1940005	MEAN	5301	MAX	65200	MIN	753	CFSM	.89	IN	12.16

POTOMAC RIVER BASIN

47

01636500 SHENANDOAH RIVER AT MILLVILLE, WV

LOCATION.--Lat 39°16'55", long 77°47'22", Jefferson County, Hydrologic Unit 02070007, 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.

REVISED RECORDS.--WSP 951: 1936(M). WSP 1432: Drainage area at former site, 1895-99, 1901-02, 1905, 1907-08, 1932(M), 1935(M).

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.

REMARKS.--Records good. Regulation by hydroelectric plants, particularly that of Potomac Light and Power Co., 0.5 mi (0.8 km) upstream from station. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--61 years (water years 1896-1908, 1929-76 , 2,658 ft³/s (75.27 m³/s), 11.87 in/yr (301 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 15,000 ft³/s (430 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 19	2045	16200	459	8.74	2.664	Jan. 2	1130	*33400	946	12.53	3.819

Minimum discharge, 305 ft³/s (8.64 m³/s) Sept. 5, gage height, 1.01 ft (0.308 m).
Minimum daily discharge, 435 ft³/s (12.3 m³/s) Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5160	2240	1640	14200	5430	2260	2530	1380	1520	1410	840	435
2	4250	2200	1590	29700	5170	2210	3530	1390	2610	1400	886	503
3	3620	2070	1540	17700	5100	2160	5400	1420	3220	1330	747	530
4	3190	1980	1530	12200	4810	2070	4900	1440	2900	1180	693	532
5	2880	1940	1480	9330	4200	2000	4260	1440	2480	1120	644	469
6	2640	1910	1440	7410	3890	1950	3740	1300	2230	1050	632	471
7	2460	1830	1450	6270	3660	1860	3330	1290	1990	1030	623	490
8	2300	1850	1440	5650	3430	1830	3030	1230	1750	970	778	526
9	2290	1790	1480	5180	3250	1860	2780	1160	1590	987	818	506
10	2220	1800	1600	4630	3090	1970	2560	1170	1410	963	755	506
11	2230	1830	1590	4080	2930	1940	2330	1150	1320	972	725	498
12	2120	1850	1580	3710	2830	2330	2300	1170	1210	1050	700	440
13	2000	2330	1580	3520	2710	2810	2170	1160	1170	1090	682	494
14	2150	3310	1540	3400	2660	3740	2060	1130	1040	861	661	479
15	1950	3750	1510	3350	2520	3860	1980	1110	958	854	673	489
16	1810	3660	1510	3190	2440	3820	1920	1170	1030	894	788	844
17	1810	3240	1500	3050	2410	3590	1850	1270	1060	846	798	1160
18	3680	2910	1470	2800	2400	3310	1780	1500	1090	818	709	977
19	10800	2640	1410	2560	2420	3220	1730	1760	1300	790	653	762
20	12500	2410	1330	2550	2480	2890	1680	1600	1800	849	644	821
21	7790	2260	1380	2370	2500	2690	1710	1670	1680	754	610	693
22	5930	2220	1330	2290	2470	2590	1720	1620	1790	763	603	649
23	4860	2140	1290	2500	2480	2450	1600	1480	2880	747	555	611
24	4090	2060	1310	2510	2470	2340	1520	1370	3180	769	448	589
25	3570	1950	1320	2400	2510	2210	1470	1240	2780	774	451	550
26	3220	1860	1370	2160	2470	2150	1540	1250	2350	774	480	564
27	2990	1810	2080	2380	2440	2070	1560	1220	2030	759	494	534
28	2820	1770	3380	4770	2400	2030	1470	1210	1750	723	523	539
29	2690	1720	4460	9330	2330	1990	1470	1220	1610	706	526	559
30	2500	1680	3930	8120	---	2010	1460	1290	1510	878	536	673
31	2340	---	3620	6400	---	1990	---	1470	---	763	574	---
TOTAL	114860	67010	55680	189710	89900	76200	71380	41280	55238	28874	20249	17893
MEAN	3705	2234	1796	6120	3100	2458	2379	1332	1841	931	653	596
MAX	12500	3750	4460	29700	5430	3860	5400	1760	3220	1410	886	1160
MIN	1810	1680	1290	2160	2330	1830	1460	1110	958	706	448	435
CFSM	1.22	.73	.59	2.01	1.02	.81	.78	.44	.61	.31	.21	.20
IN.	1.41	.82	.68	2.32	1.10	.93	.87	.51	.68	.35	.25	.22
CAL YR 1975 TOTAL	1234850			3383		57400	918	CFSM 1.11	IN 15.11			
WTR YR 1976 TOTAL	828274			2263		29700	435	CFSM .74	IN 10.14			

POTOMAC RIVER BASIN

01638500 POTOMAC RIVER AT POINT OF ROCKS, MD

LOCATION.--Lat 39°16'25", long 77°32'35", Frederick County, Hydrologic Unit 02070008, 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.

REVISED RECORDS.--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).

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

REMARKS.--Water-discharge records good. Low flow affected slightly since 1913 by Stony River Reservoir (station 01595200) and since December 1950 by Savage River Reservoir (station 01597500). Low flow affected extensively at times by run-of-the-river hydroelectric plants. Gage-height telemeter at station.

AVERAGE DISCHARGE.--81 years, 9,282 ft³/s (262.9 m³/s), 13.06 in/yr (332 mm/yr).

EXTREMES FOR 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).

EXTREMES OUTSIDE PERIOD OF RECORD.--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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 35,000 ft³/s (990 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Oct. 20	0030	77700	2200	14.94	4.554	Jan. 2	1630	*109000	3090	18.71	5.703

Minimum discharge, 1,190 ft³/s (33.7 m³/s) Sept. 7, gage height, 0.75 ft (0.229 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20600	7600	5480	33000	17200	8220	14300	4590	4760	4690	2570	1800
2	15500	7230	5310	93300	16700	7800	18700	4620	6050	4200	2620	1540
3	12500	6850	5100	72500	16400	7450	19200	4550	7090	3730	2330	1580
4	10800	6570	4920	44000	14400	7100	17500	4440	6780	3350	2100	1480
5	9610	6300	4780	34400	12600	6870	16600	4410	5970	3160	1960	1400
6	8850	6060	4660	27400	12100	6620	16400	4270	5330	2890	1870	1310
7	7990	5820	4600	21900	11400	6290	15000	4050	4930	2800	1860	1260
8	7420	5770	4440	18700	10100	5990	13100	3780	4550	2670	1970	1270
9	8070	5640	4620	16800	9790	5920	11600	3590	4100	2890	7090	1420
10	8770	5620	5180	14600	9490	6080	10300	3480	3760	2720	7900	1610
11	9190	5960	5460	12100	9070	6090	9370	3400	3500	2980	5280	1510
12	8920	6790	5550	11200	9030	6800	8660	3480	3280	3290	3840	1400
13	8590	10400	5380	11000	12300	8940	8070	3460	3060	3870	3110	1310
14	8210	19400	5170	10800	12900	12800	7580	3350	2870	3440	2690	1350
15	7560	18900	5020	10600	13300	15700	7170	3250	2680	3150	2540	1330
16	7100	15600	5470	10600	14600	16000	6840	3280	2600	2980	2650	2590
17	7010	13000	5680	10500	13500	14600	6530	3510	2830	2910	2890	2560
18	11300	11200	5520	9440	15800	13500	6270	3910	2810	2770	2730	3210
19	54500	9910	5670	7900	18000	12100	5960	5040	2840	2410	2410	3830
20	62700	9010	5330	7210	17700	10900	5740	5370	3930	2310	2190	3770
21	37400	8400	5060	6760	15800	10100	5640	5180	6430	2240	1930	3160
22	27500	8080	4850	7180	14100	9770	5410	5030	12700	2220	1800	2580
23	21600	7850	4690	7040	12800	9740	5160	4570	12100	2520	1720	2170
24	17300	7380	4620	6650	11900	9860	4920	4150	10500	3400	1620	1850
25	14400	6950	4540	6320	11000	9140	4830	3800	8430	3860	1340	1740
26	12800	6560	5790	6850	10200	8650	4980	3640	6860	3240	1280	1630
27	11600	6430	6710	10600	9710	8320	5120	3610	5890	2780	1410	1600
28	10400	6250	9520	16200	9510	8170	5170	3610	5030	2610	1480	1560
29	9560	5790	13400	25200	8780	9110	4880	3630	5030	2660	1520	1680
30	8810	5580	13300	25200	---	9500	4800	3890	4800	2640	1600	2020
31	8120	---	13000	20400	---	9380	---	3990	---	2760	1670	---
TOTAL	474680	252900	188820	616250	370180	287510	275800	124930	161490	94140	79970	57520
MEAN	15310	8430	6091	19880	12760	9275	9193	4030	5383	3037	2580	1917
MAX	62700	19400	13400	93300	18000	16000	19200	5370	12700	4690	7900	3830
MIN	7010	5580	4440	6320	8780	5920	4800	3250	2600	2220	1280	1260
CFSM	1.59	.87	.63	2.06	1.32	.96	.95	.42	.56	.31	.27	.20
IN.	1.83	.97	.73	2.38	1.43	1.11	1.06	.48	.62	.36	.31	.22
CAL YR 1975 TOTAL	4743150	MEAN	12990	MAX	165000	MIN	2780	CFSM	1.35	IN	18.28	
WTR YR 1976 TOTAL	2984190	MEAN	8154	MAX	93300	MIN	1260	CFSM	.84	IN	11.50	

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03050000 TYGART VALLEY RIVER NEAR DAILEY, WV

DRAINAGE AREA, --187 mi² (484 km²).

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

REMARKS. - -Records good.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.01 ft (3.051 m) July 24; minimum gage height, 0.36 ft (0.110 m) Aug. 24.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.10	1.15	1.34	8.87	2.40	1.92	2.83	1.20	1.11	1.01	1.48	.52
2	1.08	1.11	1.41	5.21	2.46	1.79	3.18	1.42	1.06	.90	1.29	.59
3	1.06	1.09	1.40	4.01	2.25	1.71	3.31	1.45	1.08	.82	1.16	.72
4	.98	1.06	1.39	4.26	2.32	1.62	4.03	1.41	1.07	.76	1.07	.75
5	.93	1.04	1.41	3.36	2.61	1.56	3.38	1.35	.98	.72	.99	.63
6	.88	1.02	1.51	2.89	6.53	1.53	2.83	1.32	.89	.77	.94	.55
7	.84	1.00	2.32	2.61	4.88	1.45	2.46	1.31	.85	.81	.97	.48
8	.82	1.00	2.54	2.45	3.41	1.39	2.18	1.31	.81	.76	1.08	.44
9	.83	.98	2.30	2.07	2.79	1.41	1.97	1.23	.77	.95	1.06	.41
10	.86	.97	2.19	1.94	2.42	1.51	1.82	1.18	.73	1.06	.97	.58
11	1.35	1.02	1.99	2.26	4.55	2.03	1.73	1.15	.69	.90	.90	.91
12	1.41	1.89	1.88	2.49	4.78	2.72	1.68	1.18	.65	1.91	.83	.87
13	1.16	4.28	1.93	2.35	3.72	3.20	1.55	1.13	.62	1.74	.78	.70
14	1.04	3.04	1.91	4.60	4.32	3.31	1.48	1.07	.62	1.31	.74	.60
15	.98	2.47	1.88	3.74	3.79	2.79	1.42	1.04	.64	1.30	.82	.58
16	.94	2.35	2.69	2.99	3.21	2.58	1.37	1.05	.63	2.26	.77	.67
17	1.10	2.50	3.09	2.54	3.36	2.82	1.32	1.42	.73	3.62	.74	.76
18	3.44	2.52	2.67	2.06	3.70	2.64	1.27	1.57	.68	2.20	.70	.84
19	2.67	2.34	2.23	2.41	3.71	3.02	1.23	2.57	.65	1.64	.64	.78
20	2.10	2.12	2.09	2.39	3.31	3.07	1.20	2.21	1.26	1.36	.59	.69
21	1.84	2.02	1.92	1.93	2.82	4.34	1.21	1.91	1.60	1.18	.55	.67
22	1.68	2.07	1.74	3.51	2.79	4.40	1.23	1.70	1.86	1.07	.51	.71
23	1.55	1.90	1.59	3.67	2.95	3.30	1.20	1.53	1.48	1.28	.48	.79
24	1.44	1.77	1.56	3.57	2.74	2.74	1.15	1.41	1.19	7.28	.44	.69
25	1.35	1.68	1.51	2.94	2.72	2.43	1.13	1.31	1.06	5.60	.40	.61
26	1.30	1.58	2.54	3.66	2.64	2.21	1.26	1.23	1.65	2.90	.39	.55
27	1.30	1.47	3.63	4.85	2.46	2.07	1.37	1.15	1.42	2.15	.38	.79
28	1.25	1.46	2.91	4.83	2.24	2.12	1.27	1.08	1.17	1.78	.41	1.80
29	1.19	1.37	2.45	3.66	2.07	1.99	1.22	1.03	1.02	1.68	.43	1.48
30	1.19	1.31	2.31	2.99	---	2.21	1.19	1.04	1.06	1.58	.57	1.70
31	1.20	---	3.63	2.59	---	2.28	---	1.17	---	1.64	.61	---
MEAN	1.32	1.72	2.13	3.35	3.24	2.39	1.82	1.36	1.00	1.77	.76	.76
MAX	3.44	4.28	3.63	8.87	6.53	4.40	4.03	2.57	1.86	7.28	1.48	1.80
MIN	.82	.97	1.34	1.93	2.07	1.39	1.13	1.03	.62	.72	.38	.41
WTR YR 1976	MEAN 1.80		MAX 8.87	MIN .38								

MONONGAHELA RIVER BASIN

03050400 TYGART VALLEY RIVER AT ELKINS, WV

LOCATION.--Lat 38°55'00", long 79°50'43", Randolph County, Hydrologic Unit 05020001, 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 DAILY RECORD.--

WATER TEMPERATURES: January 1947 to current year.

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.

COOPERATION.--Temperature records were furnished by City of Elkins pump station.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 33.0°C July 22, 1952; minimum daily, 0.0°C on many days during winter months most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 25.0°C June 30; minimum daily, 0.5°C Jan. 10

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	10.5	5.5	6.0	3.5	10.0	13.5	10.5	19.0	23.5	22.0	21.5
2	16.5	10.0	7.0	5.5	2.5	10.5	10.5	14.5	18.5	22.0	22.0	21.5
3	14.5	10.0	5.0	5.0	1.5	11.0	10.0	14.5	20.0	21.0	21.5	21.0
4	14.5	10.5	5.0	4.0	2.0	12.5	10.5	14.5	20.0	22.0	21.0	21.5
5	14.5	12.0	4.5	4.0	2.0	12.0	10.0	15.0	19.0	22.0	22.0	21.5
6	14.5	12.0	4.5	2.0	1.5	12.0	11.0	15.0	19.5	21.0	22.0	21.5
7	14.0	11.5	5.5	2.0	1.5	11.0	11.0	15.5	19.0	21.0	22.0	21.5
8	14.5	12.5	6.5	2.0	3.5	9.5	12.0	15.5	19.5	21.0	21.0	21.0
9	14.5	13.5	6.5	1.5	3.5	7.5	10.0	15.5	20.0	21.5	21.0	21.0
10	14.5	14.5	6.0	0.5	3.5	7.0	10.5	16.0	20.5	21.5	22.0	21.0
11	15.0	13.5	4.5	2.0	5.5	7.0	9.5	16.0	20.5	22.0	22.0	20.0
12	14.5	13.5	4.5	2.0	6.5	7.0	10.0	17.0	20.5	22.0	22.0	19.5
13	14.5	12.0	4.0	1.5	7.0	7.0	9.0	17.5	20.5	22.0	22.0	20.0
14	15.0	9.5	6.0	1.5	6.0	9.0	10.5	17.0	22.0	22.0	21.5	20.0
15	15.0	8.5	6.5	2.5	6.5	7.5	11.0	17.0	22.0	23.5	21.5	19.0
16	15.5	6.5	7.5	3.5	7.5	6.5	11.0	19.0	22.0	23.5	22.5	19.0
17	15.0	7.0	6.5	1.5	10.0	5.5	14.0	19.5	22.0	22.5	22.0	19.0
18	15.0	7.5	5.0	2.0	10.5	4.5	17.5	18.5	22.0	19.0	22.5	19.0
19	14.5	7.5	2.0	2.0	10.0	5.5	19.0	16.0	22.0	20.0	22.0	19.5
20	12.5	8.5	1.0	1.5	9.0	6.5	19.5	14.0	22.0	21.0	21.5	19.0
21	12.0	8.5	1.5	1.5	7.5	10.0	20.5	15.0	22.0	21.0	21.5	19.0
22	11.5	7.0	1.0	1.0	8.5	10.0	20.5	16.0	20.5	22.0	22.0	17.5
23	13.5	6.5	1.0	1.5	6.5	10.5	19.5	17.0	21.5	22.0	22.0	17.5
24	14.0	5.5	1.5	1.5	6.0	10.5	20.0	17.5	22.0	22.5	22.5	17.0
25	14.0	5.0	2.0	2.0	6.0	11.0	20.0	17.5	21.5	19.0	22.5	17.0
26	14.5	5.5	2.0	2.0	7.5	11.0	16.5	16.5	22.0	20.0	22.5	17.0
27	14.5	5.5	1.0	5.0	9.0	9.5	13.5	16.5	24.0	20.0	22.5	17.5
28	14.5	5.5	2.0	5.0	8.5	12.0	10.5	16.5	24.5	21.0	22.5	17.5
29	14.5	5.0	2.0	4.0	10.0	12.5	12.0	16.5	24.5	21.0	24.0	16.5
30	13.5	5.5	4.5	3.5	---	12.0	10.5	17.5	25.0	21.0	23.5	16.5
31	11.5	---	5.5	4.0	---	13.5	---	18.5	---	22.0	22.0	---
MONTH	14.5	9.0	4.0	2.5	6.0	9.5	13.5	16.0	21.5	21.5	22.0	19.5
YEAR	MAX	25.0	MIN	0.5	MEAN	13.5						

MONONGAHELA RIVER BASIN

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03050500 TYGART VALLEY RIVER NEAR ELKINS, WV

LOCATION.--Lat 38°55'30", long 79°52'45", Randolph County, Hydrologic Unit 05020001, 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.

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

AVERAGE DISCHARGE.--32 years, 535 ft³/s (15.15 m³/s), 26.71 in/yr (678 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,220 ft³/s (148 m³/s) Jan. 1, gage height, 11.40 ft (3.475 m), no other peak above base of 5,000 ft³/s (140 m³/s); minimum, 4.6 ft³/s (0.13 m³/s) Aug. 25, gage height, 1.14 ft (0.347 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	93	122	4590	494	291	696	84	79	60	167	14
2	48	76	132	3180	500	297	917	134	76	48	123	21
3	61	65	144	1410	346	179	1040	173	71	45	134	18
4	62	71	141	1560	426	197	1390	171	74	38	94	23
5	59	72	137	980	598	179	1080	155	65	35	74	27
6	53	72	146	613	2700	169	732	144	54	41	34	20
7	47	68	346	560	2360	151	536	137	45	34	57	13
8	38	65	540	430	1100	137	407	130	38	68	59	9.3
9	43	61	442	274	696	139	321	130	34	34	68	7.2
10	48	61	410	245	504	165	263	88	28	42	68	27
11	157	59	316	350	1460	305	234	105	19	69	62	44
12	212	294	281	536	2150	621	218	106	30	177	53	43
13	142	1510	318	515	1250	744	183	93	35	294	43	41
14	113	849	346	1750	1890	917	161	82	25	171	38	26
15	78	540	326	1340	1390	660	148	76	18	123	35	19
16	60	474	583	809	948	554	135	78	15	276	37	19
17	72	518	881	572	863	676	125	91	25	1130	36	23
18	756	529	656	280	1120	606	114	185	34	494	33	26
19	684	455	429	180	1040	744	108	529	36	240	28	33
20	374	362	360	299	899	792	94	439	72	177	23	42
21	273	316	297	290	668	1870	97	299	229	106	21	57
22	223	316	238	280	700	2010	108	229	236	108	17	42
23	185	271	177	280	849	1070	105	179	193	130	13	33
24	157	231	157	294	708	696	120	146	128	2340	12	27
25	146	208	165	525	648	494	82	130	103	3270	5.6	16
26	127	183	351	1110	610	420	132	120	88	876	10	17
27	111	157	1160	1660	515	348	97	102	148	429	23	30
28	81	144	784	1890	420	371	141	84	122	266	12	163
29	114	135	508	1210	348	346	130	72	84	210	10	187
30	99	125	455	813	---	346	91	68	64	161	10	203
31	96	---	1050	595	---	413	---	69	---	169	7.9	---
TOTAL	4784	8380	12398	29420	28200	16907	10005	4628	2268	11661	1407.5	1270.5
MEAN	154	279	400	949	972	545	334	149	75.6	376	45.4	42.4
MAX	756	1510	1160	4590	2700	2010	1390	529	236	3270	167	203
MIN	38	59	122	180	346	137	82	68	15	34	5.6	7.2
CFSM	.57	1.03	1.47	3.49	3.57	2.00	1.23	.55	.28	1.38	.17	.16
IN.	.65	1.15	1.70	4.02	3.86	2.31	1.37	.63	.31	1.59	.19	.17
CAL YR 1975 TOTAL	200369.0	MEAN 549	MAX 4820	MIN 15	CFSM 2.02	IN 27.40						
WTR YR 1976 TOTAL	131329.0	MEAN 359	MAX 4590	MIN 5.6	CFSM 1.32	IN 17.96						

MONONGAHELA RIVER BASIN

03051000 TYGART VALLEY RIVER AT BELINGTON, WV

LOCATION.--Lat 39°01'45", long 79°56'10", Barbour County, Hydrologic Unit 05020001, 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.

REVISED RECORDS.--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.

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.

REMARKS.--Records good. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--69 years, 803 ft³/s (22.74 m³/s), 26.73 in/yr (679 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,110 ft³/s (230 m³/s) Jan. 1, gage height, 12.37 ft (3.770 m), no other peak above base of 6,200 ft³/s (180 m³/s); minimum, 14 ft³/s (0.40 m³/s) Sept. 9, 10, gage height, 2.20 ft (0.671 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	125	237	7240	824	468	1140	202	125	98	190	20
2	69	120	249	5240	900	406	1630	329	145	84	154	32
3	65	100	269	2370	614	393	1900	419	184	71	123	44
4	76	98	261	2560	626	277	2360	429	148	63	118	34
5	74	100	249	1690	882	286	1900	379	122	55	96	27
6	69	100	253	1020	3690	265	1280	329	100	55	54	30
7	61	98	598	917	3820	242	937	297	82	65	45	24
8	55	96	928	846	1830	217	706	266	74	61	78	19
9	57	91	790	565	1200	224	551	235	63	122	78	15
10	78	94	735	420	837	256	449	225	57	71	74	24
11	187	91	636	500	1910	516	398	160	49	76	69	72
12	365	225	532	898	3510	1160	375	209	39	375	60	58
13	214	2250	625	861	2080	1300	319	177	47	500	51	50
14	166	1450	779	2780	3400	1550	277	159	74	278	42	43
15	127	889	708	2370	2440	1180	251	144	58	207	38	32
16	98	774	1150	1400	1630	961	232	153	44	543	35	28
17	117	812	1630	593	1330	1110	213	198	51	1940	34	39
18	581	818	1190	582	1600	1010	197	352	61	1000	32	40
19	1050	724	785	300	1500	1220	183	1110	74	495	38	38
20	543	598	604	360	1330	1290	175	944	207	292	38	42
21	370	532	559	495	1010	2670	156	642	420	225	32	71
22	287	515	440	296	1040	3670	184	475	430	166	27	98
23	237	460	345	283	1370	1880	178	365	365	211	24	62
24	200	395	283	325	1180	1200	167	283	225	3100	20	45
25	178	355	288	586	1030	865	194	241	181	4680	18	38
26	163	310	680	1960	949	712	261	211	233	1490	18	25
27	148	278	1910	2570	825	582	341	184	241	658	60	54
28	125	261	1440	2860	669	635	286	154	204	375	78	261
29	133	241	974	1960	558	582	285	133	157	261	43	310
30	139	225	785	1330	---	569	238	127	110	218	32	301
31	127	---	1460	592	---	628	---	127	---	166	24	---
TOTAL	6304	13225	22372	47969	44584	28324	17763	9658	4370	18001	1823	1976
MEAN	203	441	722	1547	1537	914	592	312	146	581	58.8	65.9
MAX	1050	2250	1910	7240	3820	3670	2360	1110	430	4680	190	310
MIN	55	91	237	283	558	217	156	127	39	55	18	15
CFSM	.50	1.08	1.77	3.79	3.77	2.24	1.45	.76	.36	1.42	.14	.16
IN.	.57	1.21	2.04	4.37	4.07	2.58	1.62	.88	.40	1.64	.17	.18
CAL YR 1975	TOTAL	309806	MEAN 849	MAX 6900	MIN 26	CFSM 2.08	IN 28.25					
WTR YR 1976	TOTAL	216369	MEAN 591	MAX 7240	MIN 15	CFSM 1.45	IN 19.73					

MONONGAHELA RIVER BASIN

53

03052000 MIDDLE FORK RIVER AT AUDRA, WV

LOCATION.--Lat 39°02'25", long 80°04'10", Barbour County, Hydrologic Unit 05020001, 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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--34 years, 347 ft³/s (9.827 m³/s), 31.63 in/yr (803 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 1	0930	3790	107	7.67	2.338	July 24	0700	*5490	155	9.07	2.765

Minimum discharge, 3.3 ft³/s (0.093 m³/s) Aug. 28, Sept. 27; minimum gage height, 1.42 ft (0.433 m) Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	82	148	3000	446	223	495	140	58	26	215	8.1
2	26	76	182	1590	432	196	645	217	56	23	180	14
3	34	71	178	1070	306	172	735	229	89	17	148	42
4	41	64	173	1020	372	155	1190	278	71	14	122	57
5	27	59	173	760	412	140	922	260	50	12	94	26
6	23	53	180	560	1810	133	660	229	37	10	75	16
7	18	50	400	495	1340	116	472	211	31	17	84	11
8	16	49	444	448	784	108	360	190	27	33	98	8.0
9	18	49	388	352	535	112	282	155	23	50	93	6.2
10	26	47	376	288	404	138	229	133	19	59	82	5.7
11	116	47	320	328	1220	241	205	125	17	33	73	98
12	190	71	285	510	1440	448	196	125	14	138	66	62
13	127	696	310	476	1000	535	160	108	13	125	54	25
14	96	468	328	1450	1390	540	145	93	12	59	47	13
15	73	348	332	1060	994	476	129	85	10	36	26	8.8
16	58	310	640	754	705	432	120	102	9.2	615	37	7.6
17	75	340	725	575	590	510	110	172	13	1050	41	8.0
18	226	368	545	368	555	428	104	257	15	452	39	13
19	208	340	396	271	500	530	96	748	20	274	27	15
20	168	296	336	372	416	540	89	485	82	196	18	13
21	148	271	285	336	352	1380	87	340	165	152	13	12
22	122	250	226	268	432	1730	89	244	145	131	9.2	10
23	118	208	170	250	635	964	89	190	106	220	7.2	7.3
24	104	182	155	288	540	615	78	152	60	3620	5.9	9.8
25	89	173	165	460	495	452	76	125	53	2320	5.1	6.1
26	84	158	432	940	432	368	148	108	80	928	4.6	4.1
27	80	148	695	1110	416	302	199	91	85	523	3.9	5.3
28	80	158	570	982	313	356	175	78	50	368	3.6	140
29	80	140	436	756	260	313	160	67	33	282	4.4	131
30	82	133	400	602	---	328	145	66	29	234	7.8	114
31	85	---	630	496	---	310	---	66	---	218	7.6	---
TOTAL	2663	5705	11023	22235	19526	13291	8590	5869	1472.2	12235	1691.3	897.0
MEAN	85.9	190	356	717	673	429	286	189	49.1	395	54.6	29.9
MAX	226	696	725	3000	1810	1730	1190	748	165	3620	215	140
MIN	16	47	148	250	260	108	76	66	9.2	10	3.6	4.1
CFSM	.58	1.28	2.39	4.81	4.52	2.88	1.92	1.27	.33	2.65	.37	.20
IN.	.66	1.42	2.75	5.55	4.87	3.32	2.14	1.47	.37	3.05	.42	.22
CAL YR 1975 TOTAL	130159.2			MEAN 357	MAX 2860	MIN 6.1	CFSM 2.40	IN 32.50				
WTR YR 1976 TOTAL	105197.5			MEAN 287	MAX 3620	MIN 3.6	CFSM 1.93	IN 26.26				

MONONGAHELA RIVER BASIN

03052500 SAND RUN NEAR BUCKHANNON, WV

LOCATION.--Lat 38°57'50", long 80°09'10", Upshur County, Hydrologic Unit 05020001, 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.

REVISED RECORDS.--WSP 1725: 1955(M).

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

REMARKS.--Records good except those for period of no gage-height record, Oct. 8 to Nov. 17, which are poor.

AVERAGE DISCHARGE.--30 years, 26.2 ft³/s (0.742 m³/s), 24.54 in/yr (623 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s (11 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 1	0200	438 12.4	3.89 1.186	July 24	0300	*844 23.9	5.43 1.655

Minimum discharge, 0.19 ft³/s (0.005 m³/s) Sept. 1; minimum gage height, 0.63 ft (0.192 m) June 16.

* From rating curve extended above 600 ft³/s (17.0 m³/s).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	4.0	11	243	39	12	48	7.9	3.9	2.1	5.5	.29
2	4.3	3.8	13	82	41	11	69	9.3	5.0	1.5	3.9	4.1
3	3.2	3.6	12	66	28	10	76	11	3.5	1.1	2.9	1.8
4	2.2	3.4	10	59	27	9.3	60	12	2.7	1.0	2.3	.96
5	1.8	3.2	8.7	40	37	8.7	41	11	2.0	.88	2.0	.64
6	1.6	3.1	12	27	91	8.1	30	10	1.7	.67	1.8	.51
7	1.4	2.9	45	23	61	6.9	22	11	1.7	.59	3.6	.42
8	1.2	3.0	33	24	42	6.4	18	8.8	1.5	9.8	2.9	.32
9	2.4	2.7	24	20	25	11	15	7.4	1.3	31	2.3	.26
10	4.0	2.8	26	17	27	16	13	6.4	1.1	6.9	2.0	2.7
11	30	3.5	21	20	56	34	13	6.7	.80	9.6	1.6	1.8
12	18	40	18	30	53	37	11	7.1	.64	59	1.2	.88
13	10	70	24	28	60	40	9.6	4.9	.57	16	1.0	.51
14	7.0	35	27	100	91	38	8.7	4.3	.46	7.5	1.0	.42
15	5.0	25	29	57	58	35	8.0	4.3	.38	7.5	1.8	.38
16	4.0	18	75	41	42	36	7.3	9.6	.64	77	1.9	.46
17	12	17	53	28	38	31	6.5	15	3.5	91	1.3	.72
18	35	14	34	19	37	29	5.9	46	1.7	30	.88	.88
19	20	11	21	16	35	36	5.3	59	5.8	14	.57	.80
20	14	9.6	17	14	29	33	5.1	30	16	8.7	.46	.88
21	11	11	14	14	23	114	4.8	19	10	6.1	.42	1.8
22	9.0	9.3	11	11	33	83	4.9	14	14	7.2	.32	1.6
23	7.4	7.8	9.0	10	34	44	4.3	11	5.6	112	.29	1.0
24	6.4	6.9	7.6	13	31	30	3.9	9.3	3.2	595	.23	.72
25	5.6	6.7	9.1	29	27	24	4.4	7.5	4.2	186	.23	.46
26	5.0	5.8	102	59	23	19	11	6.1	5.4	52	.21	.46
27	4.5	7.5	64	78	19	20	7.7	5.0	2.8	21	.21	9.0
28	3.9	6.7	42	67	16	20	7.2	3.9	1.9	13	.32	12
29	3.6	5.8	30	49	14	19	6.7	3.8	1.5	9.3	.29	4.5
30	3.7	6.1	29	39	---	19	6.1	4.1	3.0	6.9	.32	9.8
31	4.2	---	74	29	---	20	---	3.5	---	5.5	.29	---
TOTAL	242.7	349.2	905.4	1352	1137	860.4	533.4	368.9	106.49	1389.84	44.04	61.07
MEAN	7.83	11.6	29.2	43.6	39.2	27.8	17.8	11.9	3.55	44.8	1.42	2.04
MAX	35	70	102	243	91	114	76	59	16	595	5.5	12
MIN	1.2	2.7	7.6	10	14	6.4	3.9	3.5	.38	.59	.21	.26
CFSM	.54	.80	2.01	3.01	2.70	1.92	1.23	.82	.24	3.09	.10	.14
IN.	.62	.90	2.32	3.47	2.92	2.21	1.37	.95	.27	3.57	.11	.16

CAL YR 1975 TOTAL 9013.41 MEAN 24.7 MAX 280 MIN .35 CFSM 1.70 IN 23.12
WTR YR 1976 TOTAL 7350.44 MEAN 20.1 MAX 595 MIN .21 CFSM 1.39 IN 18.86

MONONGAHELA RIVER BASIN

55

03053500 BUCKHANNOON RIVER AT HALL, WV

LOCATION.--Lat 39°03'05", Long 80°06'50", Barbour County, Hydrologic Unit 05020001, 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.

REVISED RECORDS.--WSP 783: 1918(M).

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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--61 years, 593 ft³/s (16.79 m³/s), 29.07 in/yr (738 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,500 ft³/s (130 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Gage height (m)
Jan. 1	1830	4950	140	9.35	2.850	July 24	1830
						*7150	202
						10.92	3.328

Minimum discharge, 8.2 ft³/s (0.232 m³/s) Aug. 30, 31, Sept. 1, gage height, 3.66 ft (1.116 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	109	174	4250	688	345	849	177	91	91	220	9.0
2	58	97	249	3340	1030	298	1280	225	95	87	169	17
3	75	90	269	1760	757	261	1790	289	111	68	128	34
4	92	86	255	1660	635	237	1640	335	146	51	103	69
5	75	82	230	1210	596	213	1370	325	95	42	86	48
6	62	78	243	786	1670	201	966	298	68	35	73	34
7	54	76	665	658	2290	187	730	289	53	31	113	25
8	48	76	862	659	1350	161	574	277	45	34	131	20
9	44	75	666	580	910	167	460	237	41	137	104	16
10	51	76	616	520	676	253	375	201	35	194	80	17
11	181	79	540	544	1050	496	325	180	31	135	68	31
12	395	118	448	920	2070	765	312	177	27	574	57	83
13	256	942	454	923	1520	779	277	164	22	694	47	53
14	172	916	489	1960	2220	800	237	143	20	316	41	38
15	134	633	472	1910	1590	706	217	127	18	209	38	29
16	111	505	1010	1150	1090	652	194	149	17	835	40	24
17	148	452	1380	824	878	706	177	261	20	2270	42	22
18	648	438	966	556	998	640	164	538	22	1230	40	27
19	540	418	665	395	942	676	152	1470	28	520	36	34
20	317	371	509	381	786	724	140	1090	87	312	29	30
21	256	333	418	389	646	1570	132	682	233	213	24	32
22	224	336	341	485	628	3300	132	478	269	170	20	40
23	190	278	268	273	863	1750	130	350	245	370	17	32
24	162	235	213	362	814	1030	120	269	149	6430	15	32
25	140	209	212	798	730	744	111	213	111	4370	13	30
26	125	191	1260	1180	658	640	149	173	213	1420	12	25
27	119	179	1680	1810	574	538	241	149	237	683	10	35
28	114	190	1080	1680	478	610	221	127	146	426	9.6	339
29	106	180	763	1300	405	592	194	106	97	296	9.0	476
30	101	162	644	950	---	556	180	102	87	250	8.6	261
31	105	---	982	742	---	538	---	93	---	212	8.3	---
TOTAL	5161	8010	19023	34955	29542	21135	13839	9694	2859	22705	1791.5	1962.0
MEAN	166	267	614	1128	1019	682	461	313	95.3	732	57.8	65.4
MAX	648	942	1680	4250	2290	3300	1790	1470	269	6430	220	476
MIN	44	75	174	273	405	161	111	93	17	31	8.3	9.0
CFSM	.60	.96	2.22	4.07	3.68	2.46	1.66	1.13	.34	2.64	.21	.24
IN.	.69	1.08	2.55	4.69	3.97	2.84	1.86	1.30	.38	3.05	.24	.26

CAL YR 1975	TOTAL	214558.0	MEAN 588	MAX 4410	MIN 18	CFSM 2.12	IN 28.81
WTR YR 1976	TOTAL	170676.5	MEAN 466	MAX 6430	MIN 8.3	CFSM 1.68	IN 22.92

03054500 TYGART VALLEY RIVER AT PHILIPPI, WV

LOCATION.--Lat 39°09'00", Long 80°02'25", Barbour County, Hydrologic Unit 0502001, 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.

REMARKS.--Records good except those for periods of doubtful or no gage-height record, Aug. 10 to Sept. 27, which are poor. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--36 years, 1,839 ft³/s (52.08 m³/s), 27.26 in/yr (692 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 13,000 ft³/s (370 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 1	1600	*15600 442	14.70 4.480	July 25	0300	14000 396	13.66 4.164

Minimum daily discharge, 39 ft³/s (1.10 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	343	569	13700	2140	1220	2480	557	294	231	692	50
2	227	321	690	11300	2630	1050	3770	748	300	215	585	80
3	178	296	757	5830	2060	984	4730	986	366	189	426	130
4	215	268	740	5590	1820	756	5230	1140	395	162	375	160
5	216	266	690	4240	1990	738	4580	1090	307	141	292	90
6	189	260	708	2700	6050	691	3230	976	241	125	273	80
7	171	258	1580	2210	8190	626	2450	902	202	124	276	62
8	156	255	2340	2140	4520	556	1920	830	175	127	335	50
9	149	249	1740	1660	3030	550	1530	710	159	204	320	39
10	160	247	1560	1350	2220	685	1240	623	142	317	250	62
11	309	249	1360	1700	3480	1210	1070	519	126	289	200	250
12	1010	307	1090	2560	7400	2440	1010	528	112	1020	170	200
13	761	3340	1110	2680	4830	2750	884	492	95	1590	140	150
14	513	3410	1370	5710	6970	3080	755	422	97	836	120	110
15	395	2180	1330	6050	5610	2630	677	378	125	501	110	83
16	318	1770	2450	3690	3830	2280	613	405	104	1730	100	71
17	327	1720	3790	2670	3050	2460	561	647	103	5350	96	90
18	1210	1770	2750	1700	3390	2300	508	1130	105	3390	95	100
19	2180	1650	1810	960	3240	2480	461	3230	124	1520	100	96
20	1300	1410	1300	1040	2830	2700	430	2960	272	873	99	110
21	934	1230	1100	1370	2300	4740	401	1940	693	606	82	180
22	768	1180	861	2110	2190	9280	403	1380	908	444	72	250
23	644	1030	620	1990	2980	5260	419	1020	789	444	62	160
24	546	872	480	1860	2780	3250	389	786	518	10400	55	110
25	468	776	480	2520	2470	2390	388	629	366	11900	46	99
26	424	706	2380	4000	2260	1980	502	525	565	4850	46	64
27	392	640	4270	5710	2000	1650	844	447	591	2340	130	140
28	369	640	3280	6200	1700	1760	758	378	458	1480	150	501
29	323	606	2160	4510	1440	1720	716	323	322	1010	110	1300
30	352	551	1690	3200	---	1650	634	309	268	816	90	816
31	339	---	2680	2480	---	1640	---	302	---	660	70	---
TOTAL	15813	28800	49735	115430	99400	67506	43583	27312	9322	53884	5967	5683
MEAN	510	960	1604	3724	3428	2178	1453	881	311	1738	192	189
MAX	2180	3410	4270	13700	8190	9280	5230	3230	908	11900	692	1300
MIN	149	247	480	960	1440	550	388	302	95	124	46	39
CFSM	.56	1.05	1.75	4.07	3.74	2.38	1.59	.96	.34	1.90	.21	.21
IN.	.64	1.17	2.02	4.69	4.04	2.74	1.77	1.11	.38	2.19	.24	.23

CAL YR 1975	TOTAL	691632	MEAN	1895	MAX	14100	MIN	57	CFSM	2.07	IN	28.09
WTR YR 1976	TOTAL	522435	MEAN	1427	MAX	13700	MIN	39	CFSM	1.56	IN	21.22

MONONGAHELA RIVER BASIN

57

03055500 TYGART LAKE NEAR GRAFTON, WV

LOCATION.--Lat 39°18'50", long 80°02'00", Taylor County, Hydrologic Unit 05020001, 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.

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 period of low flow, and for recreation.

COOPERATION.--Records furnished by Corps of Engineers.

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Maximum contents 139,000 acre-ft (171 hm³) July 25, elevation 1,108.92 ft (337.999 m); minimum, 15,490 acre-ft (19.1 hm³) Mar. 6, elevation, 1,016.15 ft (309.723 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cfs)
Sept. 30.....	1,080.27	88,720	-	-
Oct. 31.....	1,051.30	49,210	-39,510	-643
Nov. 30.....	1,040.19	36,900	-12,310	-207
Dec. 31.....	1,037.64	34,290	-2,610	-42
CAL YR 1975	-	-	+7,770	+107
Jan. 31.....	1,049.33	46,930	+12,640	+206
Feb. 29.....	1,025.46	23,000	-23,930	-416
Mar. 31.....	1,052.63	50,780	+27,780	+452
Apr. 30.....	1,076.47	82,880	+32,100	+539
May 31.....	1,095.11	113,200	+30,370	+494
June 30.....	1,096.14	115,020	+1,830	+31
July 31.....	1,095.28	113,500	-1,520	-25
Aug. 31.....	1,089.25	103,200	-10,290	-167
Sept. 30.....	1,081.65	90,900	-12,310	-207
WTR YR 1976	-	-	+56,670	+907

MONONGAHELA RIVER BASIN

03056000 TYGART VALLEY RIVER AT TYGART DAM NEAR GRAFTON, WV

LOCATION.--Lat 39°18'50", long 80°02'00", Taylor County, Hydrologic Unit 05020001, 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.

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

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--38 years, 2,324 ft³/s (65.82 m³/s), 26.66 in/yr (677 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft³/s (566 m³/s) Feb. 2, 1939; no flow Aug. 2, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,600 ft³/s (329 m³/s) Jan. 5; minimum daily, 140 ft³/s (3.96 m³/s) May 14, 15, June 9-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1390	650	1000	1920	4610	3030	1210	220	330	620	740	290
2	1380	645	995	2100	2680	2080	1240	220	330	410	590	290
3	1360	640	990	4420	4270	1350	1280	220	330	200	450	290
4	1360	635	990	7970	5000	1320	2720	220	330	200	310	290
5	1340	630	990	10800	4600	1260	4840	222	330	200	310	290
6	1320	625	990	10800	4420	905	5520	225	330	200	310	290
7	1020	620	994	10000	6170	610	5440	229	275	200	310	290
8	740	620	1030	8470	7250	620	3660	230	164	200	310	290
9	740	615	1080	6060	6800	492	1960	230	140	200	310	290
10	735	610	1680	4360	6200	380	1030	230	140	200	450	290
11	730	610	2240	3700	4920	405	760	230	140	200	590	290
12	730	610	2230	3550	5450	940	760	230	185	410	590	290
13	730	625	2220	3510	6600	1580	768	185	230	1060	590	350
14	730	1490	2220	3600	6680	2170	770	140	230	1500	415	410
15	730	2360	2220	4960	6800	2680	770	140	230	1490	310	410
16	998	2360	2260	5920	5700	2700	514	142	230	1480	265	410
17	1260	2340	3330	4680	3090	2700	360	146	230	2250	254	410
18	1250	2330	4670	3060	2030	2770	360	150	230	3140	310	410
19	1260	2310	4490	2250	2670	2800	360	841	230	1510	310	410
20	1270	2290	4300	1770	3760	2850	360	2320	230	1510	310	402
21	1920	2270	4100	1750	3570	2950	362	3090	230	2230	310	400
22	2540	2240	3420	1730	3510	3380	366	1980	425	2220	310	400
23	2490	2200	2370	1280	3930	4680	370	900	620	1040	305	400
24	2440	2160	1860	858	3880	5650	370	900	620	2390	300	400
25	2390	2120	1820	1340	3800	4520	370	900	620	6830	300	400
26	2330	1560	1880	1910	3690	3440	295	760	620	9340	300	400
27	1700	1030	3140	2120	3540	3350	220	620	620	7000	300	400
28	888	1020	4780	3500	3380	2200	220	620	620	3700	295	400
29	650	1020	5150	5300	3240	1140	220	615	620	2220	290	400
30	650	1010	5000	5770	---	1160	220	610	620	1190	290	400
31	650	---	3890	5600	---	1180	---	482	---	897	290	---
TOTAL	39721	40245	78329	135058	132240	67292	37695	18247	10479	56237	11324	10692
MEAN	1281	1342	2527	4357	4560	2171	1257	589	349	1814	365	356
MAX	2540	2360	5150	10800	7250	5650	5520	3090	620	9340	740	410
MIN	650	610	990	858	2030	380	220	140	140	200	254	290

CAL YR 1975 TOTAL 909037 MEAN 2491 MAX 11600 MIN 120 MEAN† 2598 CFSM† 2.19 IN† 29.81
WTR YR 1976 TOTAL 637599 MEAN 1742 MAX 10800 MIN 140 MEAN† 2649 CFSM† 2.24 IN† 30.49

† Adjusted for change in contents in Tygart Lake.

MONONGAHELA RIVER BASIN

59

03057000 TYGART VALLEY RIVER AT COLFAX, WV

LOCATION.--Lat 39°26'15", long 80°07'55", Marion County, Hydrologic Unit 05020001, on right bank at highway bridge at Colfax, 300 ft (91 m) upstream from Guysses Run, and at mile 6.0 (9.7 km). Records include flow of Guysses Run.

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

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

REVISED RECORDS.--WSP 1083: 1942(M), WSP 1335: 1941.

GAGE.--Water-stage recorder. Datum of gage is 856.27 ft (260.991 m) above mean sea level, supplementary adjustment of 1944. Formerly published as 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.

REMARKS.--Records good. Flow regulated by Tygart Lake (station 03055500). Corps of Engineers gage-height tele-meter at station.

AVERAGE DISCHARGE.--37 years, 2,610 ft³/s (73.92 m³/s), 25.95 in/yr (659 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1888 reached a stage of 39.6 ft (12.07 m) at site 1,100 ft (335 m) downstream, present datum, from information by local resident. The stage on that day was probably affected by backwater from West Fork River.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,700 ft³/s (331 m³/s) Jan. 5; gage height, 11.78 ft (3.590 m); minimum, 171 ft³/s (4.84 m³/s) June 11, 12, gage height, 3.26 ft (0.994 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1440	675	1060	6200	5340	3180	1740	270	443	691	970	349
2	1470	671	1060	3100	3150	2620	2150	289	501	624	703	376
3	1450	667	1050	4590	4060	1500	2210	306	471	263	649	372
4	1410	662	1040	7700	5370	1470	2760	331	413	249	390	368
5	1390	657	1040	10800	5070	1420	4880	327	388	226	376	358
6	1370	652	1060	11200	5190	1270	5610	317	378	217	381	354
7	1240	654	1390	10300	6130	736	5420	328	370	237	522	349
8	769	649	1380	8970	7540	730	4260	335	244	268	556	349
9	786	643	1350	6650	7120	716	2410	313	185	293	467	349
10	852	654	1690	4710	6530	504	1350	300	179	262	451	363
11	1320	656	2460	3850	6450	567	936	295	174	304	682	354
12	1210	1240	2410	3860	5890	815	914	301	173	924	668	354
13	1000	2000	2460	3790	6980	1970	889	281	246	1070	662	363
14	905	1650	2510	4740	6820	2340	879	199	259	1680	610	462
15	858	2690	2520	5150	6930	2940	872	183	256	1630	410	467
16	942	2590	3190	6330	6250	2940	772	194	257	1670	451	467
17	1600	2510	3490	5440	4140	2940	451	482	293	2010	286	473
18	2240	2450	4970	3560	2690	2890	438	895	267	3500	354	473
19	1780	2410	4720	2680	2960	2920	431	1500	242	1770	368	473
20	1630	2380	4520	1970	3840	2930	428	2420	286	1590	363	467
21	1850	2360	4310	1930	4050	3420	426	3260	322	1950	358	467
22	2680	2330	3800	1880	3650	4090	457	2670	328	2700	358	462
23	2610	2270	2710	1750	4250	4640	445	1060	659	1420	358	462
24	2540	2220	1960	1070	4150	6090	430	1020	737	1630	358	462
25	2470	2180	1930	1490	4060	5230	433	1000	808	6100	354	456
26	2420	1920	3900	2600	3930	3530	452	940	1310	9590	354	456
27	2120	1110	4020	3110	3790	3440	378	676	837	8190	358	500
28	1130	1100	5160	3750	3610	2860	363	658	721	4260	358	568
29	710	1080	5560	5540	3410	1280	356	657	678	2750	354	528
30	699	1070	5310	6140	---	1280	275	656	719	1500	354	512
31	685	---	5160	5870	---	1310	---	630	---	1010	354	---
TOTAL	45576	44800	89190	150720	143350	74568	43815	23093	13144	60578	14237	12813
MEAN	1470	1493	2877	4862	4943	2405	1461	745	438	1954	459	427
MAX	2680	2690	5560	11200	7540	6090	5610	3260	1310	9590	970	568
MIN	685	643	1040	1070	2690	504	275	183	173	217	286	349

CAL YR 1975 TOTAL 1026421 MEAN 2812 MAX 11900 MIN 168 MEAN† 2919 CFSM† 2.14 IN† 29.05
WTR YR 1976 TOTAL 715884 MEAN 1956 MAX 11200 MIN 173 MEAN† 2863 CFSM† 2.10 IN† 28.58

† Adjusted for change in contents in Tygart Lake.

MONONGAHELA RIVER BASIN

03058000 WEST FORK RIVER AT BROWNSVILLE, WV

LOCATION.--Lat 39°00'10", long 80°28'35", Lewis County, Hydrologic Unit 05020002, 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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--30 years, 163 ft³/s (4.616 m³/s), 21.70 in/yr (551 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,740 ft³/s (77.6 m³/s) Jan. 1, gage height, 11.23 ft (3.423 m), no other peak above base of 2,200 ft³/s (62 m³/s); minimum, 1.7 ft³/s (0.05 m³/s) Aug. 23, 26-28, Sept. 8-11, 15, 19, 23, 25, 26; minimum gage height, 4.92 ft (1.500 m) June 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	18	55	2240	270	55	611	20	22	18	26	2.5
2	19	18	69	903	596	49	655	28	30	13	21	6.3
3	22	15	72	384	304	45	744	46	22	11	15	13
4	20	15	65	445	177	42	372	69	30	9.5	11	13
5	15	15	57	254	134	39	208	57	20	8.0	8.9	6.3
6	13	13	65	151	275	39	140	46	13	6.7	8.8	3.6
7	11	13	351	118	314	35	108	50	11	6.7	27	2.4
8	9.2	18	247	132	200	32	84	48	9.5	9.5	25	2.0
9	9.5	18	143	110	146	41	67	41	8.0	11	27	1.7
10	24	20	132	95	114	121	55	35	5.6	13	20	2.5
11	118	28	132	139	252	429	53	30	5.6	18	14	2.3
12	129	146	108	413	372	332	48	30	5.6	116	11	2.8
13	65	468	105	328	273	245	41	26	4.5	82	8.4	3.2
14	44	214	108	687	507	209	37	22	4.5	39	8.1	3.3
15	35	129	105	387	311	167	35	20	3.6	22	10	3.0
16	28	95	379	213	206	143	33	35	2.9	299	14	3.8
17	146	72	295	154	169	136	28	97	2.9	706	11	3.6
18	504	57	166	95	465	116	26	341	2.4	196	7.2	3.6
19	187	48	102	64	338	133	24	500	2.4	61	5.1	3.1
20	87	41	77	70	203	137	24	194	9.5	37	3.5	3.1
21	65	46	69	74	142	924	22	96	33	27	2.8	6.0
22	53	55	57	67	131	1150	28	62	35	28	2.4	5.5
23	44	50	48	58	149	330	26	45	20	322	2.0	3.4
24	35	44	61	145	140	181	20	36	15	1460	2.0	2.9
25	28	41	50	372	122	140	15	30	18	724	2.0	2.9
26	26	39	1310	335	103	119	24	24	92	164	2.0	2.9
27	28	39	704	440	86	99	28	21	48	74	1.9	35
28	24	41	239	530	72	116	26	18	30	49	2.4	107
29	22	41	177	327	63	119	22	16	18	40	2.2	73
30	22	44	146	231	---	105	20	15	20	31	2.5	44
31	20	---	381	176	---	111	---	18	---	27	2.9	---
TOTAL	1867.7	1901	6095	10137	6634	5939	3624	2116	544.0	4628.4	307.1	367.7
MEAN	60.2	63.4	197	327	229	192	121	68.3	18.1	149	9.91	12.3
MAX	504	468	1310	2240	596	1150	744	500	92	1460	27	107
MIN	9.2	13	41	58	63	32	15	15	2.4	6.7	1.9	1.7
CFSM	.59	.62	1.93	3.21	2.25	1.88	1.19	.67	.18	1.46	.10	.12
IN.	.68	.69	2.22	3.70	2.42	2.17	1.32	.77	.20	1.69	.11	.13
CAL YR 1975 TOTAL	59256.2	MEAN 162	MAX 1970	MIN 1.7	CFSM 1.59	IN 21.61						
WTR YR 1976 TOTAL	44160.9	MEAN 121	MAX 2240	MIN 1.7	CFSM 1.19	IN 16.11						

MONONGAHELA RIVER BASIN

61

03058500 WEST FORK RIVER AT BUTCHERVILLE, WV

LOCATION.--Lat 39°05'25", long 80°28'05", Lewis County, Hydrologic Unit 05020002, 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.

REVISED RECORDS.--WSP 1053: 1935. WSP 1335: 1918, 1923.

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.

REMARKS.--Records good except those for period of no gage-height record Apr. 30 to June 3, which are poor. The flow from 30.4 mi² (78.7 km²) is partially controlled, but not diverted, by eight floodwater detention reservoirs and one multi-purpose reservoir. Some additional regulation of low flow from one water-supply reservoir, approximate capacity 96 acre-ft (118,000 m³).

AVERAGE DISCHARGE.--61 years, 300 ft³/s (8.496 m³/s), 22.51 in/yr (572 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,590 ft³/s (130 m³/s) Jan. 1, gage height, 8.19 ft (2.496 m); minimum, 12 ft³/s (0.34 m³/s) July 6, gage height, 0.70 ft (0.213 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	35	91	3820	504	114	1020	40	53	28	51	60
2	35	33	107	1730	970	103	1170	52	90	20	44	76
3	49	30	104	816	559	95	1290	75	150	17	34	65
4	36	28	90	844	355	89	732	120	61	15	28	65
5	34	27	78	529	275	84	432	94	37	13	23	59
6	27	26	410	338	516	79	301	79	27	12	23	54
7	24	25	595	263	564	70	228	76	22	42	92	52
8	22	35	500	304	391	63	181	83	19	90	65	51
9	30	32	290	230	280	84	147	70	21	231	38	51
10	128	34	250	180	220	177	123	59	23	71	29	60
11	351	50	230	210	388	619	114	52	23	76	23	54
12	299	295	200	706	582	529	106	48	24	448	19	54
13	155	846	185	605	600	440	94	45	38	139	16	53
14	90	443	180	1090	1180	384	82	39	40	63	15	55
15	64	274	190	721	652	307	73	34	38	38	38	54
16	48	203	950	436	444	269	68	50	38	451	34	53
17	243	155	617	324	370	248	63	160	40	940	20	53
18	985	119	370	217	758	209	58	400	36	363	16	53
19	481	96	234	140	633	223	53	910	20	106	14	53
20	227	81	177	160	402	228	49	350	32	59	28	54
21	170	92	153	150	294	1520	52	180	48	44	36	68
22	133	94	122	135	269	1840	47	120	54	64	35	59
23	107	81	98	115	279	657	54	85	34	667	34	53
24	86	70	74	200	260	377	95	64	24	3080	34	42
25	68	65	90	647	231	294	70	54	33	1310	34	42
26	62	59	2240	642	199	243	63	42	125	413	51	42
27	61	67	1330	822	172	204	51	35	61	212	54	145
28	53	62	630	940	147	201	141	30	41	132	62	282
29	46	61	415	633	129	207	43	28	25	100	62	174
30	45	65	349	467	---	186	38	26	42	74	60	127
31	39	---	756	363	---	194	---	28	---	59	60	---
TOTAL	4216	3583	12105	18777	12623	10337	7038	3528	1319	9377	1172	2163
MEAN	136	119	390	606	435	333	235	114	44.0	302	37.8	72.1
MAX	985	846	2240	3820	1180	1840	1290	910	150	3080	92	282
MIN	22	25	74	115	129	63	38	26	19	12	14	42
CFSM	.75	.66	2.15	3.35	2.40	1.84	1.30	.63	.24	1.67	.21	.40
IN.	.87	.74	2.49	3.86	2.59	2.12	1.45	.73	.27	1.93	.24	.44
CAL YR 1975 TOTAL	117178.0			MEAN 321	MAX 3290	MIN	7.8	CFSM 1.77	IN 24.08			
WTR YR 1976 TOTAL	86238.0			MEAN 236	MAX 3820	MIN	12	CFSM 1.30	IN 17.72			

MONONGAHELA RIVER BASIN

03059000 WEST FORK RIVER AT CLARKSBURG, WV

LOCATION.--Lat 39°16'15", long 80°21'20", Harrison County, Hydrologic Unit 05020002, 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.

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

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.

REMARKS.--Records good. Some water diverted for supply of City of Clarksburg. The flow from 36.1 mi² (93.5 km) is partially controlled, but not diverted, by nine floodwater detention reservoirs and one multi-purpose reservoir. Some additional regulation of low flow by five other reservoirs, combined capacity of 1950 acre-ft (2.40 hm³). National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--53 years, 589 ft³/s (16.68 m³/s), 20.83 in/yr (529 mm/yr), adjusted for diversion.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,700 ft³/s (190 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 1	1645	*8620	244	13.12	3.999	July 24	1500	6880	195	11.38	3.469

Minimum discharge, 16 ft³/s (0.453 m³/s) June 10, 11, gage height, 2.75 ft (0.838), due to flashboards being added to water-plant dam 0.25 mi (0.40 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	94	118	7200	804	242	1490	92	112	94	116	52
2	165	87	137	4620	1780	224	2190	108	148	58	97	62
3	135	82	155	1920	1240	203	2700	140	114	38	72	69
4	105	76	155	1850	765	190	1720	187	157	29	54	63
5	85	72	140	1220	580	177	1010	187	85	23	32	59
6	76	71	161	711	872	171	650	160	54	19	28	54
7	63	80	1290	550	1120	157	514	151	33	19	207	47
8	56	112	1080	590	784	138	419	165	25	34	239	43
9	103	118	626	536	590	138	343	138	30	261	128	41
10	250	140	544	402	487	232	288	114	18	239	75	47
11	1000	217	506	433	615	694	265	99	16	154	53	50
12	635	681	433	1290	1070	970	257	94	21	1140	40	46
13	395	2320	389	1310	844	907	197	90	38	527	32	43
14	233	1200	383	2190	1980	872	190	77	50	210	29	43
15	160	666	409	1700	1420	640	164	66	43	105	43	41
16	129	475	1900	977	942	523	151	92	40	232	75	42
17	495	358	1580	705	998	491	140	317	55	1150	64	42
18	2820	276	851	469	1350	406	128	678	57	928	38	42
19	1240	218	501	325	1510	388	116	1920	47	288	28	41
20	587	183	372	334	928	392	105	837	54	130	22	40
21	434	178	318	325	630	1720	97	379	70	108	20	43
22	345	193	265	300	550	3980	133	250	81	114	31	58
23	278	171	200	257	541	1740	138	180	72	269	34	52
24	224	149	185	397	482	865	105	135	52	5720	33	43
25	183	137	188	1220	442	625	96	110	55	3570	33	40
26	161	127	4060	1630	392	545	105	90	184	1130	32	39
27	159	122	3540	1760	352	455	130	75	193	491	39	88
28	144	124	1590	2100	309	410	112	63	90	317	54	424
29	124	119	906	1460	276	392	101	58	55	221	59	280
30	116	113	787	1850	---	379	90	54	75	128	55	184
31	107	---	1390	791	---	374	---	59	---	123	52	---
TOTAL	11103	8959	24939	40622	24653	19640	14144	7165	2124	17869	1914	2218
MEAN	358	299	806	1310	850	634	471	231	70.8	576	61.7	73.9
MAX	2820	2320	4060	7200	1980	3980	2700	1920	193	5720	239	424
MIN	56	71	118	257	276	138	90	54	16	19	20	39
MEAN†	368	309	816	1320	861	644	482	242	82.8	588	74.3	85.7
CFSM†	.96	.80	2.12	3.44	2.24	1.68	1.26	.63	.22	1.53	.19	.22
IN.†	1.11	.89	2.44	3.97	2.42	1.94	1.41	.73	.24	1.76	.22	.24
CAL YR 1975 TOTAL	263045			MEAN 721	MAX 6370	MIN 17	MEAN† 732	CFSM† 1.91	IN† 25.93			
WTR YR 1976 TOTAL	175390			MEAN 479	MAX 7200	MIN 16	MEAN† 490	CFSM† 1.28	IN† 17.42			

† Adjusted for diversion by city of Clarksburg; records furnished by Clarksburg Water Board.

MONONGAHELA RIVER BASIN

63

03061000 WEST FORK RIVER AT ENTERPRISE, WV

LOCATION.--Lat 39°25'20", long 80°16'40", Harrison County, Hydrologic Unit 05020002, 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 1916, October 1916 to September 1918 (gage heights only), October 1932 to current year.

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

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.

REMARKS.--Records good. The flow from about 40 mi² (104 km²) is partially controlled, but not diverted, by sixteen floodwater detention reservoirs, one municipal water-supply reservoir, and one multi-purpose reservoir. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--52 years (water years 1908-1916, 1934-76), 1,144 ft³/s (32.40 m³/s), 20.47 in/yr (520 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1888 reached a stage of about 33 ft (10 m), present site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,800 ft³/s (419 m³/s) Jan. 1, gage height, 15.60 ft (4.755 m), no other peak above base of 12,000 ft³/s (340 m³/s); minimum, 71 ft³/s (2.01 m³/s) Aug. 22, 23, 26, 27, gage height 1.54 ft (0.469 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217	200	260	12200	1560	549	1960	273	280	241	264	95
2	462	186	271	8160	2710	501	3380	318	546	191	221	122
3	459	177	292	3620	2230	466	4200	363	360	156	177	122
4	320	169	295	3350	1630	442	2960	409	273	219	140	120
5	256	169	282	2390	1300	421	2000	397	227	151	120	111
6	221	158	294	1600	2040	404	1370	351	171	117	101	107
7	198	161	2000	1310	2230	383	1060	392	145	150	429	99
8	182	206	2050	1400	1710	355	851	423	118	236	496	92
9	205	203	1260	1160	1290	359	707	369	109	519	308	84
10	375	234	1140	936	1130	464	595	306	107	612	206	109
11	1710	304	1060	1060	1720	829	544	272	90	421	158	105
12	1170	2580	863	2970	2100	1660	523	262	88	3680	128	105
13	716	4530	785	2340	1800	1660	460	238	96	1580	109	94
14	473	2390	761	4640	2300	1940	397	215	119	540	101	83
15	354	1440	785	3140	2330	1390	379	198	120	311	118	77
16	292	1010	3010	2060	1710	1130	356	229	116	512	304	81
17	840	766	2950	1560	1920	1060	329	641	170	1240	215	88
18	5040	599	1740	1000	2750	876	304	983	170	1270	145	88
19	2370	487	1040	730	3020	790	282	2470	150	570	109	86
20	1170	433	784	774	2050	807	267	1560	168	294	92	81
21	779	428	678	785	1470	1730	254	788	227	209	79	86
22	589	430	572	675	1300	6050	348	498	222	576	74	88
23	469	388	447	553	1260	3010	358	363	195	491	81	107
24	383	336	371	826	1090	1740	300	288	174	5900	83	95
25	327	306	393	2150	974	1260	274	242	188	5190	76	83
26	301	293	6830	3050	866	1090	542	215	510	1730	76	81
27	289	283	6510	3560	786	906	461	193	428	724	74	133
28	268	283	2980	3740	690	802	364	172	240	455	90	578
29	244	268	1840	2750	610	724	312	164	171	343	115	529
30	234	248	1490	2110	---	686	278	167	217	264	105	308
31	218	---	2590	1680	---	736	---	166	---	212	97	---
TOTAL	21131	19665	46623	77379	48576	35220	26415	13925	6195	29104	4891	4037
MEAN	682	656	1504	2496	1675	1136	881	449	207	939	158	135
MAX	5040	4530	6830	12200	3020	6050	4200	2470	546	5900	496	578
MIN	182	158	260	553	610	355	254	164	88	117	74	77
CFSM	.90	.86	1.98	3.29	2.21	1.50	1.16	.59	.27	1.24	.21	.18
IN.	1.04	.96	2.29	3.79	2.38	1.73	1.29	.68	.30	1.43	.24	.20
CAL YR 1975 TOTAL	506623			1388	MAX	13000	MIN 65	CFSM 1.83	IN 24.83			
WTR YR 1976 TOTAL	333161			910	MAX	12200	MIN 74	CFSM 1.20	IN 16.33			

MONONGAHELA RIVER BASIN

03061500 BUFFALO CREEK AT BARRACKVILLE, WV

LOCATION.--Lat 39°30'15", long 80°10'20", Marion County, Hydrologic Unit 05020003, 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.

REVISED RECORDS.--WSP 783: 1917(M). WSP 1335: 1916(M), 1918-20(M), 1921, 1922(M), 1924(M), 1933(M), 1940.

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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--53 years (water years 1908, 1916-23, 1933-76), 166 ft³/s (4.701 m³/s), 19.60 in/yr (498 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,230 ft³/s (91.5 m³/s) Nov. 12, gage height, 10.04 ft (3.060 m), no peak above base of 3,500 ft³/s (99 m³/s); minimum, 3.5 ft³/s (0.099 m³/s) Sept. 24; minimum gage height, 1.75 ft (0.533 m) Sept. 9, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	41	54	1970	210	80	395	80	41	34	49	8.7
2	767	39	66	700	247	73	700	96	89	24	37	9.4
3	395	38	66	546	198	67	581	112	66	19	27	9.0
4	196	37	59	557	170	64	539	150	41	16	21	9.0
5	125	34	56	342	150	60	437	121	31	15	19	8.0
6	92	33	68	200	491	57	287	100	24	14	18	7.5
7	72	33	595	190	342	50	206	110	24	17	72	6.2
8	60	34	325	225	220	44	158	100	21	24	137	6.7
9	58	33	214	170	180	49	125	84	19	39	79	7.0
10	67	60	216	140	160	57	104	73	16	39	50	7.2
11	186	120	190	170	956	138	96	65	14	96	36	8.7
12	146	1280	154	204	603	168	84	64	13	1210	27	8.3
13	103	1190	220	297	357	588	73	53	13	252	25	6.2
14	84	434	257	1520	262	422	65	44	11	107	31	5.7
15	70	272	277	550	198	265	60	41	12	64	27	6.7
16	64	200	924	357	186	208	57	48	11	49	39	6.7
17	410	152	455	200	277	174	53	69	41	44	34	7.5
18	1500	121	280	120	711	130	49	88	36	33	23	8.7
19	473	103	182	100	585	131	44	113	22	25	18	9.0
20	277	92	146	110	362	121	42	92	54	21	15	7.0
21	190	96	125	99	250	620	41	70	84	65	14	7.2
22	146	89	100	89	218	683	107	57	56	188	13	6.2
23	115	74	77	80	184	342	125	47	37	78	10	5.9
24	92	66	62	150	156	235	92	37	25	627	11	5.4
25	78	64	70	240	140	196	83	34	31	184	10	5.7
26	76	61	1830	564	125	160	220	32	162	88	10	8.3
27	67	58	893	781	113	133	170	27	83	56	9.7	18
28	59	56	443	512	99	117	120	24	45	43	9.0	67
29	54	50	297	357	89	100	97	25	30	39	11	35
30	52	49	307	267	---	97	83	25	34	35	9.0	27
31	44	---	872	212	---	99	---	24	---	31	8.7	---
TOTAL	6168	5009	9880	12019	8239	5728	5293	2105	1186	3576	899.4	338.9
MEAN	199	167	319	388	284	185	176	67.9	39.5	115	29.0	11.3
MAX	1500	1280	1830	1970	956	683	700	150	162	1210	137	67
MIN	44	33	54	80	89	44	41	24	11	14	8.7	5.4
CFSM	1.73	1.45	2.77	3.37	2.47	1.61	1.53	.59	.34	1.00	.25	.10
IN.	2.00	1.62	3.40	3.89	2.67	1.85	1.71	.68	.38	1.16	.29	.11

CAL YR 1975 TOTAL 95943.7 MEAN 263 MAX 2810 MIN 3.3 CFSM 2.29 IN 31.04
WTR YR 1976 TOTAL 60441.3 MEAN 165 MAX 1970 MIN 5.4 CFSM 1.43 IN 19.55

MONONGAHELA RIVER BASIN

65

03062400 COBUN CREEK AT MORGANTOWN, WV

LOCATION.--Lat 39°36'30", long 79°57'20", Monongalia County, Hydrologic Unit 05020003, 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).

REMARKS.--Records good.

AVERAGE DISCHARGE.--11 years, 15.8 ft³/s (0.447 m³/s), 19.68 in/yr (500 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 290 ft³/s (8.21 m³/s) Jan. 1, gage height, 4.80 ft (1.463 m), no other peak above base of 250 ft³/s (7.08 m³/s); minimum, 0.02 ft³/s (<0.001 m³/s) Sept. 9, 15, gage height, 0.37 ft (0.113 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	4.7	6.5	158	28	10	32	13	5.5	2.6	4.5	.07
2	19	4.8	6.0	60	22	9.3	43	13	7.0	2.3	3.3	.18
3	12	4.4	5.5	57	20	8.8	36	15	4.0	1.9	2.5	.34
4	9.1	4.0	5.0	46	17	8.3	39	13	3.0	1.5	1.7	.31
5	7.7	3.9	5.0	30	19	8.2	30	12	2.5	1.4	1.4	.25
6	6.4	3.7	9.5	22	33	7.5	24	11	2.3	2.3	1.4	.19
7	5.5	4.7	22	21	21	6.9	19	13	2.5	10	6.0	.14
8	4.9	5.6	17	21	20	6.6	16	11	2.0	13	5.5	.10
9	5.3	4.7	17	14	16	7.1	13	9.5	1.6	10	3.5	.05
10	6.6	8.1	22	16	20	7.2	11	8.6	1.3	9.0	2.8	.19
11	7.5	7.5	18	20	59	11	10	8.2	1.1	15	2.3	.14
12	6.1	86	15	21	47	12	9.0	7.6	.90	20	1.7	.21
13	5.5	63	24	30	36	32	8.0	6.5	.75	12	1.4	.12
14	4.8	33	22	59	28	26	7.4	5.9	.61	7.4	1.2	.07
15	4.4	21	31	38	23	21	7.1	5.5	.61	5.5	1.7	.05
16	4.5	16	56	29	22	20	6.7	9.1	1.2	5.8	2.8	.24
17	21	13	40	22	23	17	6.2	14	4.0	6.6	1.6	.73
18	33	11	27	15	26	14	5.8	38	1.5	4.1	1.2	.67
19	20	10	19	17	27	14	5.5	41	1.0	3.0	.89	.47
20	15	9.0	16	17	23	13	5.3	24	3.0	2.3	.70	.32
21	12	13	14	13	20	66	5.0	17	2.6	5.4	.55	.30
22	10	11	12	11	23	49	8.9	11	3.7	9.3	.46	.27
23	8.4	10	10	11	20	30	7.3	9.0	1.5	12	.40	.20
24	7.3	9.5	8.8	16	18	23	6.6	7.5	1.0	19	.35	.15
25	6.6	9.0	11	19	16	19	15	7.0	7.0	12	.29	.13
26	7.0	8.0	95	42	15	16	40	6.0	11	8.1	.23	.13
27	6.4	8.0	58	54	14	16	25	5.0	4.5	6.0	.19	3.4
28	5.9	7.0	35	40	13	15	18	4.0	3.0	4.9	.19	6.0
29	5.7	6.5	25	32	11	13	14	3.5	2.1	3.9	.18	2.0
30	5.9	6.5	33	26	---	12	12	3.5	3.3	10	.11	5.6
31	5.1	---	57	21	---	15	---	3.5	---	8.0	.10	---
TOTAL	265.1	406.6	742.3	998	680	533.9	485.8	355.9	86.07	234.3	51.14	23.02
MEAN	9.20	13.6	23.9	32.2	23.4	17.2	16.2	11.5	2.87	7.56	1.65	.77
MAX	33	86	95	158	59	66	43	41	11	20	6.0	6.0
MIN	4.4	3.7	5.0	11	11	6.6	5.0	3.5	.61	1.4	.10	.05
CFSM	.84	1.25	2.19	2.95	2.15	1.58	1.49	1.06	.26	.69	.15	.07
IN.	.97	1.39	2.53	3.41	2.32	1.82	1.66	1.21	.29	.80	.17	.08
CAL YR 1975 TOTAL	7737.81			MEAN 21.2	MAX 263	MIN 0	CFSM 1.94	IN 26.41				
WTR YR 1976 TOTAL	4882.13			MEAN 13.3	MAX 158	MIN .05	CFSM 1.22	IN 16.66				

MONONGAHELA RIVER BASIN

03063600 HORSECAMP RUN AT HARMAN, WV

LOCATION.--Lat 38°54'51", long 79°30'32", Randolph County, Hydrologic Unit 05020004, 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.

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.

AVERAGE DISCHARGE.--7 years, 10.4 ft³/s (0.295 m³/s), 21.60 in/yr (549 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 760 ft³/s (21.5 m³/s) Dec. 26, 1973, gage height, 5.60 ft (1.707 m), from floodmark, from rating curve extended above 120 ft³/s (3.40 m³/s) on basis of step-backwater method; no flow July 31, Aug. 1, 3-6, 9-11, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 196 ft³/s (5.55 m³/s) Oct. 17, gage height, 3.34 ft (1.018 m), from rating curve extended as explained above, no other peak above base of 160 ft³/s (4.53 m³/s); minimum daily, 0.06 ft³/s (0.002 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	2.2	1.7	6.9	8.4	4.3	7.5	2.5	1.2	.40	.93	.08
2	3.8	2.1	1.5	3.2	5.9	3.8	8.1	3.1	1.3	.37	.60	.16
3	2.9	1.9	1.4	3.7	5.0	3.2	12	2.6	1.1	.34	.48	.10
4	2.4	1.8	1.2	2.5	5.4	3.1	18	2.2	.93	.32	.42	.10
5	1.9	1.7	1.2	1.5	10	2.9	13	2.1	.86	.32	.37	.09
6	1.7	1.6	1.3	1.1	4.5	2.6	11	1.8	.72	.42	.37	.08
7	1.5	1.5	1.9	9.0	18	2.4	8.1	1.8	.72	.54	.86	.07
8	1.4	.15	1.6	7.0	11	2.2	6.2	1.6	.66	.42	.72	.07
9	1.5	1.4	1.7	5.6	8.0	2.5	5.1	1.5	.60	.38	.48	.06
10	1.9	1.4	1.8	4.5	11	3.1	4.5	1.4	.60	.42	.37	.48
11	4.9	2.1	1.6	5.5	5.4	5.1	4.3	1.3	.54	.60	.32	.16
12	3.1	1.5	1.7	4.9	2.7	5.6	3.4	1.2	.48	2.1	.28	.13
13	2.2	1.8	3.4	1.2	3.7	2.2	3.1	1.1	.42	.50	.24	.12
14	1.8	1.1	4.0	2.0	5.5	1.3	2.6	1.0	.48	.37	.22	.11
15	1.7	8.1	4.3	1.1	2.9	1.1	2.5	1.0	.54	.43	.25	.11
16	1.5	8.4	9.8	8.4	2.3	1.1	2.2	2.2	.72	2.8	.28	.19
17	2.7	8.8	9.8	5.6	3.0	1.2	2.1	1.7	.93	3.2	.24	.32
18	8.5	7.8	7.2	3.9	2.6	1.1	1.8	2.8	.54	1.1	.20	.37
19	2.9	6.2	6.0	3.5	2.3	1.3	1.7	2.6	.48	.61	.17	.30
20	1.7	5.6	5.1	3.8	1.5	1.2	1.7	2.1	2.9	.45	.15	.37
21	1.2	5.3	4.9	3.2	1.2	2.0	2.8	1.7	2.6	.37	.13	.54
22	8.4	4.3	3.8	2.8	1.2	1.7	2.4	1.5	1.3	.54	.11	.42
23	6.2	3.4	3.4	2.5	1.2	1.2	1.9	1.3	.79	7.2	.10	.37
24	4.9	2.9	3.0	5.3	9.8	9.5	1.8	1.1	.60	1.4	.09	.32
25	4.3	2.8	2.8	9.8	9.8	8.1	1.8	1.4	.60	.54	.09	.27
26	3.6	2.4	2.3	2.7	8.8	6.5	2.4	1.4	.72	2.8	.11	.25
27	3.4	2.2	2.4	3.4	7.5	5.6	1.9	1.0	.48	1.7	.14	1.1
28	2.9	1.9	1.4	2.3	5.6	4.9	1.7	.86	.48	1.4	.16	1.5
29	2.6	1.6	1.1	1.5	4.7	4.5	1.6	.86	.48	1.7	.15	.66
30	2.8	1.6	1.8	1.1	---	4.9	1.5	1.6	.42	.93	.11	5.3
31	2.5	---	6.6	8.4	---	4.7	---	1.6	---	.79	.10	---
TOTAL	250.1	135.15	242.1	435.7	528.9	243.5	138.7	51.92	25.19	48.06	9.24	14.20
MEAN	8.07	4.51	7.81	14.1	18.2	7.85	4.62	1.67	.84	1.55	.30	.47
MAX	8.5	1.8	6.6	6.9	5.5	2.2	1.8	3.1	2.9	1.4	.93	5.3
MIN	1.4	.15	1.2	2.5	4.7	2.2	1.5	.86	.42	.32	.09	.06
CFSM	1.23	.69	1.19	2.15	2.77	1.19	.70	.25	.13	.24	.05	.07
IN.†	1.42	.77	1.37	2.47	2.99	1.38	.79	.29	.14	.27	.05	.08
IN.‡	2.62	1.28	2.36	1.28	1.86	1.40	1.26	2.60	2.69	4.91	.99	5.05
CAL YR 1975 TOTAL	4203.25			MEAN 11.5	MAX 133	MIN .15	CFSM 1.75	IN † 23.00				
WTR YR 1976 TOTAL	2122.76			MEAN 5.80	MAX 85	MIN .06	CFSM .88	IN † 12.02				

† Runoff.

‡ Rainfall.

MONONGAHELA RIVER BASIN

67

03065000 DRY FORK AT HENDRICKS, WV

LOCATION.--Lat 39°04'20", long 79°37'20", Tucker County, Hydrologic Unit 05020004, 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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--36 years, 753 ft³/s (21.32 m³/s), 29.64 in/yr (753 mm/yr).

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,120 ft³/s (202 m³/s) Jan. 1, gage height, 6.69 ft (2.039 m), no peak above base of 7,800 ft³/s (220 m³/s); minimum, 12 ft³/s (0.340 m³/s) Sept. 9, gage height, 1.11 ft (0.302 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330	287	302	5300	758	551	812	251	184	109	199	19
2	308	262	308	2600	656	487	878	513	180	98	161	23
3	287	252	274	2170	436	439	911	413	177	88	131	34
4	252	242	250	2110	483	401	1830	354	169	83	113	33
5	219	233	256	1380	620	368	1550	297	130	79	97	29
6	198	219	262	1000	2760	349	1190	266	109	84	87	26
7	181	215	418	860	1940	306	933	252	107	94	97	21
8	174	215	412	740	1300	276	751	244	100	89	137	17
9	174	206	388	490	984	286	617	217	87	84	125	13
10	194	202	411	390	790	298	520	195	78	94	100	105
11	366	247	367	490	3400	448	468	183	70	90	85	97
12	462	656	341	497	2600	600	436	189	64	410	72	67
13	314	1800	528	476	2230	1320	369	172	73	338	60	47
14	252	1240	594	1720	4020	1360	328	154	85	174	52	33
15	228	927	531	1070	2280	1100	297	144	111	126	54	26
16	211	812	976	874	1950	1040	271	208	180	357	70	56
17	396	877	980	700	2020	1240	248	380	171	1180	62	102
18	3880	885	820	462	1760	962	227	384	140	647	52	100
19	2010	830	585	348	1650	1120	209	533	138	388	41	72
20	1280	739	562	330	1270	1280	196	390	356	281	34	58
21	984	691	539	396	1010	2410	233	309	875	213	29	168
22	768	671	416	372	1450	2280	255	265	818	170	25	143
23	624	543	314	308	1420	1470	228	230	424	577	22	85
24	518	477	303	384	1100	1080	197	204	282	1700	19	60
25	455	436	336	594	1110	872	187	195	250	1070	16	45
26	416	390	1040	1640	994	738	351	214	553	651	18	36
27	390	364	1660	3070	864	634	350	189	306	377	29	157
28	354	369	1150	2390	739	660	280	158	203	321	36	310
29	325	307	870	1570	636	525	252	144	153	359	33	228
30	348	280	885	1140	---	563	229	173	125	265	28	321
31	325	---	2540	892	---	554	---	238	---	224	23	---
TOTAL	17223	15874	19618	36763	43230	26017	15603	8058	6698	10820	2107	2531
MEAN	556	529	633	1186	1491	839	520	260	223	349	68.0	84.4
MAX	3880	1800	2540	5300	4020	2410	1830	533	875	1700	199	321
MIN	174	202	250	308	436	276	187	144	64	79	16	13
CFSM	1.61	1.53	1.83	3.44	4.32	2.43	1.51	.75	.65	1.01	.20	.24
IN.	1.86	1.71	2.12	3.96	4.66	2.81	1.68	.87	.72	1.17	.23	.27
CAL YR 1975 TOTAL	336893			MEAN 923	MAX 6210	MIN 62	CFSM 2.68	IN 36.33				
WTR YR 1976 TOTAL	204542			MEAN 559	MAX 5300	MIN 13	CFSM 1.62	IN 22.05				

MONONGAHELA RIVER BASIN

03066000 BLACKWATER RIVER AT DAVIS, WV

LOCATION.--Lat 39°07'35", long 79°28'10", Tucker County, Hydrologic Unit 05020004, 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.

REVISED RECORDS.--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).

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.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 21 to Nov. 20, which are poor.

AVERAGE DISCHARGE.--55 years, 196 ft³/s (5.551 m³/s), 30.88 in/yr (784 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft³/s (39.1 m³/s) Jan. 1, gage height, 5.87 ft (1.789 m), no peak above base of 1,500 ft³/s (42 m³/s); minimum, 5.5 ft³/s (0.16 m³/s) Sept. 9, gage height, 1.22 ft (0.372 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	67	74	1220	176	126	270	52	93	39	43	7.7
2	90	63	70	703	150	115	239	123	115	34	33	7.7
3	84	58	63	550	110	106	287	112	93	30	28	8.6
4	74	55	57	488	120	98	527	80	70	33	22	8.6
5	66	52	59	332	148	92	422	64	54	38	18	13
6	60	50	62	243	570	90	265	56	49	61	16	8.6
7	54	48	106	210	380	79	200	54	57	45	28	8.6
8	50	46	93	190	295	70	164	57	46	37	40	6.8
9	59	45	77	130	220	70	142	53	39	35	37	5.8
10	73	43	85	100	180	80	123	45	34	31	28	30
11	162	60	79	130	993	124	115	43	29	35	22	34
12	130	120	72	130	934	168	117	46	25	222	18	23
13	87	250	173	120	684	401	101	43	24	96	16	15
14	66	190	173	599	1030	318	88	37	28	52	14	11
15	57	150	126	383	624	224	79	35	30	38	15	11
16	54	130	244	216	488	200	73	79	31	108	18	16
17	162	140	195	170	551	251	67	113	37	138	19	22
18	941	140	132	120	488	209	61	164	70	84	16	21
19	578	120	120	90	428	274	57	200	235	49	12	18
20	294	101	110	81	292	284	53	136	359	25	10	18
21	228	104	103	100	224	617	49	93	347	25	9.1	44
22	180	107	95	90	440	610	59	76	213	25	8.2	45
23	150	92	80	70	446	338	60	64	124	73	7.4	35
24	120	83	72	91	305	233	52	57	82	113	7.1	24
25	100	79	81	150	302	198	46	61	71	148	6.8	20
26	90	78	217	450	237	188	80	79	124	70	6.8	18
27	82	85	325	405	196	180	90	63	90	49	21	64
28	75	88	190	594	166	237	70	52	60	38	28	144
29	67	74	134	370	144	164	60	52	54	37	21	101
30	78	70	210	250	---	156	53	80	49	34	14	162
31	72	---	678	207	---	144	---	126	---	32	9.5	---
TOTAL	4478	2788	4355	9482	11321	6444	4069	2395	2732	1974	591.9	951.4
MEAN	144	92.9	140	306	390	208	136	77.3	91.1	63.7	19.1	31.7
MAX	941	250	678	1220	1030	617	527	200	359	222	43	162
MIN	50	43	57	70	110	70	46	35	24	25	6.8	5.8
CFSM	1.67	1.08	1.62	3.55	4.52	2.41	1.58	.90	1.06	.74	.22	.37
IN.	1.93	1.20	1.88	4.09	4.89	2.78	1.76	1.03	1.18	.85	.26	.41
CAL YR 1975 TOTAL	85437.0			MEAN 234	MAX 2210	MIN 10	CFSM 2.71	IN 36.87				
WTR YR 1976 TOTAL	51581.3			MEAN 141	MAX 1220	MIN 5.8	CFSM 1.64	IN 22.26				

MONONGAHELA RIVER BASIN

69

03068000 SHAVERS FORK AT BEMIS, WV

LOCATION---Lat 38°48'27", long 79°44'16", Randolph County, Hydrologic Unit 05020004, on right bank at downstream side of bridge on State Secondary Route 22, at Bemis, 0.6 mi (1.0 km) upstream from Fishing Hawk Creek, and at mile 39.9 (64.2 km).

DRAINAGE AREA---115 mi² (298 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD---February 1922 to December 1925, October 1973 to current year.

GAGE---Water-stage recorder. Datum of gage is 2,574.06 ft (784.573 m) above mean sea level. February 17, 1922 to December 31, 1925, nonrecording gage on downstream side of bridge, at present site, at datum 2.18 ft (0.664 m) lower.

REMARKS---Water-discharge records good.

AVERAGE DISCHARGE---6 years, 330 ft³/s (9.346 m³/s), 38.97 in/yr (990 mm/yr).

EXTREMES FOR PERIOD OF RECORD---Maximum discharge, 14,600 ft³/s (413 m³/s) June 2, 1974, gage height, 8.64 ft (2.633 m), from floodmark, from rating curve extended above 6,100 ft³/s (173 m³/s); minimum, 9.5 ft³/s (0.27 m³/s) Sept. 9, 10, 1976; minimum gage height, 0.43 ft (0.131 m) Aug. 31, 1925, present datum.

EXTREMES OUTSIDE PERIOD OF RECORD---Flood of Mar. 13, 1918, reached a stage of about 13.1 ft (3.99 m), present datum.

EXTREMES FOR CURRENT YEAR---Peak discharges above base of 2,900 ft³/s (82 m³/s) and maximum (*).

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0700	3750 106	5.56 1.695	Jan. 26	2245	3000 85.0	5.20 1.585
Jan. 1	0115	*6250 177	6.50 1.981	July 24	0900	5570 158	*7.15 2.179

Minimum, 9.5 ft³/s (0.27 m³/s) Sept. 9, 10, gage height, 1.20 ft (0.366 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	119	158	2850	317	268	413	79	149	88	275	20
2	171	105	169	837	220	242	365	201	136	71	181	27
3	155	103	135	822	190	228	352	155	190	60	130	38
4	125	98	118	778	260	214	681	125	197	54	104	35
5	112	92	132	440	280	197	520	107	129	51	86	25
6	102	88	141	340	925	187	394	98	101	53	76	20
7	95	85	296	330	514	161	325	95	95	68	79	16
8	89	84	252	372	350	136	272	101	85	68	160	13
9	88	88	212	230	310	136	235	92	75	152	125	11
10	94	85	219	190	308	131	201	82	67	107	88	116
11	254	237	179	270	1220	184	174	78	59	70	71	184
12	182	431	173	268	822	184	161	88	54	654	58	58
13	162	1090	228	230	715	635	138	84	56	313	48	36
14	107	477	225	579	1280	526	125	74	54	155	46	26
15	98	350	205	360	694	370	115	70	58	264	51	29
16	92	312	453	270	735	394	107	246	51	814	52	74
17	255	330	403	250	1250	497	98	635	57	1010	51	320
18	2050	365	295	160	1010	370	92	543	59	423	39	167
19	615	360	177	140	1020	413	84	715	77	280	33	79
20	415	331	236	130	622	555	81	465	131	207	29	54
21	356	367	234	170	481	1110	79	361	284	149	25	59
22	300	374	174	130	591	844	77	296	343	119	23	113
23	251	284	136	110	561	486	75	242	211	300	19	62
24	214	240	141	160	418	384	66	197	115	3180	18	45
25	185	214	177	261	433	334	64	171	93	1080	16	38
26	164	186	729	721	418	300	117	155	352	550	15	33
27	161	171	548	1810	379	268	113	131	168	405	29	145
28	144	172	322	852	334	292	85	113	107	325	34	768
29	127	142	267	509	300	246	77	101	131	460	37	315
30	154	130	312	394	---	304	72	158	105	460	39	560
31	138	---	1410	338	---	284	---	231	---	410	27	---
TOTAL	7593	7514	8856	15301	16957	10880	5758	6289	3789	12400	2064	3486
MEAN	245	250	286	494	585	351	192	203	126	400	66.6	116
MAX	2050	1090	1410	2850	1280	1110	681	715	352	3180	275	768
MIN	88	84	118	110	190	131	64	70	51	51	15	11
CFSM	2.13	2.17	2.49	4.30	5.09	3.05	1.67	1.77	1.10	3.48	.58	1.01
IN.	2.46	2.43	2.86	4.95	5.49	3.52	1.86	2.03	1.23	4.01	.67	1.13
CAL YR 1975 TOTAL	140616			385	MAX	3750	MIN 42	CFSM 3.35	IN 45.49			
WTR YR 1976 TOTAL	100887			276	MAX	3180	MIN 11	CFSM 2.40	IN 32.63			

MONONGAHELA RIVER BASIN

03068000 SHAVERS FORK AT BEMIS, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT									
02...	1355	174	25	7.0	11.0	1	--	3	1.4
NOV									
13...	1300	910	38	5.7	8.0	5	--	13	32
DEC									
18...	1350	292	34	6.7	.0	4	--	7	5.5
MAR									
03...	1215	225	28	7.0	11.0	2	6.0	3	1.8
APR									
07...	1435	316	30	--	11.0	3	--	6	5.1
21...	1400	77	32	7.0	19.0	2	8.4	2	.42
MAY									
12...	1500	91	32	7.0	15.0	1	6.4	3	.74
JUN									
09...	1510	74	34	7.0	24.5	2	8.0	1	.20
JUL									
07...	1405	70	26	7.0	22.5	1	7.4	2	.38
AUG									
06...	1400	78	27	--	21.0	1	--	1	.21
SEP									
01...	1400	19	36	7.0	19.0	1	6.8	1	.05
28...	1500	753	39	--	13.0	10	--	27	55

MONONGAHELA RIVER BASIN

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03068600 SHAVERS FORK ABOVE BOWDEN, WV

LOCATION.--Lat 38°54'10", long 79°41'41", Randolph County, Hydrologic Unit 05020004, at cableway, 0.5 mi (0.8 km) upstream from Taylor Run, 0.9 mi (1.4 km) southeast of Bowden, and at mile 31.5 (50.7 km).

DRAINAGE AREA.--138 mi² (357 km²).

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1975 to current year.

WATER TEMPERATURES: August 1975 to current year.

TURBIDITY: July 1975 to current year.

SUSPENDED SEDIMENT DISCHARGE: July 1975 to current year.

REMARKS.--Sediment samples are taken once daily and more frequently during rises.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 57 micromhos Sept. 7, 8, 9, 1976; minimum daily, 25 micromhos Sept. 25-30, Oct. 2, 3, 6, 1975.

WATER TEMPERATURES: Maximum daily, 25.0°C June 14, 1976; minimum daily, 1.0°C Jan. 9, 12, 18, 19, and Feb. 2, 1976.

TURBIDITY: Maximum daily, 55 JTU Sept. 23, 1975; minimum daily, 1 JTU on many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 207 mg/L Sept. 23, 1975; minimum daily mean, 0 mg/L on many days.

SEDIMENT LOADS: Maximum daily, 1,500 tons (1,360 tonnes) Sept. 23, 1975; minimum daily, 0 tons (0 tonnes) on many days.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A specific conductance of 72 micromhos was observed Aug. 25, 1975. A water temperature of 24.0°C was observed July 28, 1975.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 57 micromhos Sept. 7, 8, 9; minimum daily, 25 micromhos Oct. 2, 3, 6.

WATER TEMPERATURES: Maximum daily, 25.0°C June 14; minimum daily, 1.0°C Jan. 9, 12, 18, 19, and Feb. 2.

TURBIDITY: Maximum daily, 30 JTU July 24; minimum daily, 1 JTU on many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 90 mg/L Dec. 31; minimum daily mean, 0 mg/L on many days.

SEDIMENT LOADS: Maximum daily, 382 tons (347 tonnes) Jan. 1; minimum daily, 0 tons (0 tonnes) on many days.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	28	28	33	43	29	27	33	35	36	40	44
2	25	28	29	38	42	29	31	30	36	36	40	44
3	25	29	30	31	47	29	31	34	32	38	39	44
4	26	29	33	30	42	35	32	33	34	35	41	43
5	26	---	31	32	30	39	33	35	36	37	45	42
6	25	29	40	32	41	28	30	33	35	37	39	43
7	26	29	42	32	43	36	28	33	35	37	34	57
8	31	36	32	34	44	41	30	34	35	37	34	57
9	28	35	31	32	41	38	31	32	36	39	35	57
10	31	30	30	43	39	45	30	34	38	34	36	45
11	32	29	31	40	29	49	30	33	37	39	39	37
12	30	35	30	31	30	33	29	32	35	35	39	45
13	32	32	30	46	45	---	31	33	37	35	37	46
14	31	35	30	28	41	---	31	34	36	34	39	55
15	30	32	32	43	31	---	30	34	36	35	36	47
16	30	30	30	30	29	---	32	31	38	37	38	45
17	31	30	33	32	40	---	35	33	37	32	39	37
18	36	30	33	35	34	---	31	32	37	30	47	40
19	33	36	46	37	29	---	31	32	35	30	40	42
20	30	30	32	34	29	---	30	31	36	30	41	43
21	30	29	33	32	51	---	32	30	34	29	41	43
22	30	29	36	32	40	---	32	29	35	30	41	42
23	32	29	31	36	30	---	34	31	37	35	41	40
24	34	28	31	45	44	---	33	29	35	40	42	41
25	43	28	40	48	30	---	33	30	41	38	54	42
26	32	29	29	30	37	31	33	31	35	38	54	42
27	31	29	33	32	36	28	32	29	39	36	42	42
28	32	28	33	36	36	27	35	31	36	37	42	36
29	29	29	32	32	29	28	36	33	34	38	42	38
30	28	29	29	37	---	27	34	32	39	41	51	37
31	28	---	30	38	---	28	---	33	---	43	43	---
MONTH	30	30	33	35	37	---	32	32	36	36	41	44
YEAR	MAX	57	MIN	25	MEAN	35						

MONONGAHELA RIVER BASIN

03068600 SHAVERS FORK ABOVE BOWDEN, WV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	8.0	7.0	5.0	3.0	---	9.0	12.0	19.0	19.0	18.0	15.0
2	13.0	11.0	5.0	5.0	1.0	---	5.0	15.0	17.0	21.0	16.0	18.5
3	14.0	11.0	6.0	5.0	3.0	---	7.0	12.0	17.0	17.0	13.0	17.0
4	15.0	12.0	5.0	2.0	4.0	13.0	8.0	13.0	19.0	18.0	15.0	17.0
5	14.0	13.0	6.0	3.0	4.0	12.0	6.0	16.0	19.0	16.0	17.0	18.0
6	15.0	13.0	6.0	2.0	3.0	10.0	7.0	16.0	16.0	17.0	18.5	15.0
7	15.0	---	6.0	4.0	3.0	8.0	9.0	14.0	19.0	17.0	21.0	14.0
8	14.0	14.0	7.0	3.0	2.0	7.0	6.5	13.0	20.0	18.0	18.0	14.0
9	15.0	15.0	7.0	1.0	3.0	4.0	6.0	16.0	21.0	17.0	17.0	15.0
10	15.0	14.0	5.0	2.0	4.0	5.0	6.5	17.0	21.0	18.0	17.0	17.0
11	16.0	13.0	5.0	3.0	5.0	8.0	6.5	18.0	22.0	19.0	16.0	13.0
12	14.0	12.5	5.0	1.0	4.0	7.0	5.0	17.0	24.0	18.0	18.0	14.0
13	15.0	10.0	7.0	3.0	6.0	---	6.0	13.5	22.0	15.0	18.0	14.0
14	15.0	8.0	7.0	3.0	6.0	---	8.5	19.0	25.0	16.0	18.0	16.0
15	16.0	6.0	7.0	2.0	5.0	---	13.0	17.0	22.0	19.0	19.0	16.0
16	16.0	6.0	7.0	3.0	6.0	---	15.0	16.5	21.0	18.5	18.0	15.0
17	13.0	8.0	6.0	2.0	9.0	---	16.0	17.0	22.0	16.5	16.0	17.0
18	14.0	8.0	3.0	1.0	9.0	---	20.0	17.0	24.0	16.0	16.0	16.0
19	12.0	8.0	3.0	1.0	7.0	---	21.0	11.0	22.0	15.0	17.0	16.0
20	12.0	9.0	---	2.0	7.0	---	21.0	15.0	19.0	16.0	20.5	14.0
21	12.0	8.0	4.0	2.0	8.0	---	19.0	16.0	18.0	18.0	17.0	15.0
22	14.0	7.0	2.0	2.0	7.0	---	18.5	12.0	20.0	19.0	20.0	13.0
23	15.0	7.0	2.0	2.0	4.0	---	18.0	17.0	22.0	19.0	17.0	10.0
24	15.0	6.0	2.0	3.0	5.0	---	18.0	13.0	21.0	17.0	17.0	13.0
25	15.0	6.0	3.0	2.0	7.0	---	17.0	13.0	21.0	18.5	18.0	13.0
26	13.0	6.0	3.0	3.0	7.0	11.0	9.0	14.0	19.5	14.0	18.0	16.0
27	15.0	7.0	3.0	3.0	---	11.0	7.0	15.0	18.0	16.0	19.0	16.0
28	16.0	5.0	---	3.0	---	12.0	8.0	16.0	23.0	18.5	19.0	13.0
29	14.0	7.0	4.0	3.5	---	12.0	13.0	15.0	23.0	18.0	21.0	12.0
30	10.0	8.0	4.0	3.0	---	15.0	17.0	17.0	22.0	19.0	16.0	15.0
31	8.0	---	5.0	3.0	---	13.0	---	19.0	---	18.0	14.0	---
MONTH	14.0	9.0	5.0	2.5	5.0	---	11.5	15.0	20.5	14.5	17.5	15.0
YEAR	MAX	25.0	MIN	1.0	MEAN	12.0						

TURBIDITY (JTU), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1	1	1	10	1	2	2	4	2	3	3	1
2	1	1	1	3	1	2	3	2	1	2	2	2
3	1	1	2	4	1	2	1	3	1	2	2	1
4	1	1	1	5	1	2	3	1	2	2	2	1
5	1	1	1	2	1	2	2	2	2	1	2	1
6	1	1	3	1	6	1	2	2	2	2	2	1
7	1	1	3	1	3	1	3	1	2	2	2	1
8	1	3	2	1	2	2	2	2	2	2	1	1
9	1	1	1	2	1	1	2	1	2	3	2	1
10	1	1	1	1	1	2	1	1	2	2	3	1
11	2	2	1	2	6	2	1	1	1	6	1	3
12	2	5	1	1	8	3	1	2	1	25	1	20
13	3	5	2	20	8	---	1	2	1	20	2	3
14	1	1	2	3	6	---	2	1	1	7	1	1
15	2	2	1	3	2	---	2	1	1	5	2	1
16	1	1	2	2	2	---	2	2	1	10	1	3
17	1	1	2	1	5	---	2	20	3	15	1	4
18	5	1	2	1	5	---	2	6	2	4	1	10
19	1	1	2	1	6	---	2	6	1	3	1	2
20	4	1	1	1	8	---	2	3	2	3	1	2
21	1	1	2	1	2	---	2	2	4	3	1	3
22	1	4	1	1	6	---	6	1	5	3	1	2
23	2	3	1	1	4	---	2	2	3	3	1	2
24	1	1	1	3	2	---	2	1	2	30	1	2
25	1	1	1	1	2	---	1	3	1	6	1	3
26	1	1	5	4	2	1	2	1	5	3	1	1
27	1	1	4	9	2	1	1	1	10	2	1	1
28	1	1	5	4	3	1	2	1	2	15	1	15
29	1	1	1	3	2	1	2	2	2	2	1	3
30	1	1	2	1	---	1	2	2	7	6	1	6
31	1	---	1	1	---	2	---	2	---	5	1	---
MONTH	1	1	1	3	3	---	2	2	2	6	1	3
YEAR	MAX	30	MIN	1	MEAN	2						

03068600 SHAVERS FORK ABOVE BOWDEN, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	161	3	1.3	156	0	0	221	1	.60
2	150	4	1.6	142	1	.38	247	1	.67
3	149	3	1.2	131	1	.35	217	2	1.2
4	119	1	.32	123	0	0	192	1	.52
5	106	3	.83	115	0	0	199	1	.54
6	88	3	.71	109	0	0	208	3	1.7
7	70	3	.57	104	0	0	339	5	4.6
8	68	3	.55	101	1	.27	341	1	.92
9	66	1	.18	103	1	.28	294	0	0
10	71	5	.96	101	2	.55	295	0	0
11	244	9	5.9	204	6	3.3	270	0	0
12	219	7	4.1	344	22	20	253	0	0
13	140	8	3.0	1400	17	64	291	2	1.6
14	110	7	2.1	623	1	1.7	315	1	.85
15	90	5	1.3	452	1	1.2	287	0	0
16	81	3	.70	390	2	2.1	512	13	18
17	101	14	4.0	406	1	1.1	547	5	7.4
18	1900	43	231	447	0	0	406	2	2.2
19	742	5	19	452	1	1.2	380	10	10
20	465	3	1.8	411	0	0	407	1	1.1
21	351	3	3.2	418	2	2.3	303	3	2.5
22	330	1	.91	456	2	2.5	249	2	1.3
23	287	1	.72	360	2	1.4	231	2	1.2
24	251	2	1.4	318	3	2.6	214	1	.58
25	221	3	1.8	291	2	1.6	218	0	0
26	204	2	1.1	265	2	1.4	630	17	29
27	194	2	1.0	245	2	1.3	699	10	19
28	179	2	.97	248	3	2.0	389	7	7.4
29	162	1	.44	221	1	.60	314	1	.85
30	183	0	0	205	1	.55	314	3	2.5
31	184	0	0	---	---	---	1140	90	277
TOTAL	7746	---	285.72	9343	---	113.18	10922	---	393.23

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2890	49	382	307	2	1.7	269	2	1.5
2	1000	8	22	270	2	1.5	247	2	1.3
3	831	7	16	224	1	.60	230	2	1.2
4	420	8	20	266	0	0	219	2	1.2
5	508	2	2.7	268	3	2.2	206	1	.56
6	373	1	1.0	1050	21	60	198	1	.53
7	354	1	.96	653	5	8.8	179	0	0
8	367	1	.99	430	3	3.5	157	0	0
9	280	1	.76	359	2	1.9	160	0	0
10	193	0	0	314	2	1.7	156	0	0
11	230	1	.62	1300	26	91	203	1	.55
12	278	1	.75	1020	12	33	222	1	.60
13	231	15	9.4	757	17	35	539	3	4.4
14	638	13	22	1590	25	107	605	4	6.5
15	911	5	6.9	829	4	9.0	380	2	2.1
16	321	3	2.6	744	2	4.0	369	4	4.0
17	259	2	1.4	1260	14	48	524	15	21
18	208	4	2.2	1110	12	36	380	2	2.1
19	163	6	2.6	1050	7	20	404	2	2.2
20	139	9	3.4	649	5	8.8	532	7	10
21	182	2	.98	476	4	5.1	1240	36	121
22	154	2	.83	574	14	22	1120	14	42
23	125	2	.68	645	5	8.7	585	5	7.9
24	159	8	3.4	431	2	2.3	445	3	3.6
25	267	7	5.0	434	1	1.2	376	4	4.1
26	510	16	22	416	1	1.1	342	5	4.6
27	1900	25	128	377	1	1.0	300	5	4.1
28	1010	7	19	332	2	1.8	319	5	4.3
29	944	3	4.4	297	1	.80	289	5	3.9
30	398	4	4.3	---	---	---	311	5	4.2
31	323	2	1.7	---	---	---	321	7	6.1
TOTAL	16266	---	688.57	18432	---	517.70	11827	---	265.54

MONONGAHELA RIVER BASIN

03068600 SHAVERS FORK ABOVE BOWDEN, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

APRIL				MAY				JUNE			
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	412	8	8.9	96	4	1.0	170	1	.46		
2	434	7	8.2	199	8	4.3	144	1	.39		
3	388	6	6.3	201	4	2.2	178	3	1.4		
4	774	14	29	168	3	1.4	198	2	1.1		
5	649	6	11	145	4	1.6	148	1	.40		
6	462	4	5.0	130	4	1.4	116	0	0		
7	378	5	5.1	126	2	.68	102	1	.28		
8	324	5	4.4	131	3	1.1	93	0	0		
9	285	2	1.5	120	4	1.3	80	0	0		
10	254	2	1.4	104	4	1.1	70	1	.19		
11	231	1	.62	94	3	.76	62	0	0		
12	219	1	.59	100	3	.81	56	0	0		
13	193	1	.52	102	3	.83	53	0	0		
14	175	2	.94	88	4	.95	61	0	0		
15	159	2	.86	79	4	.85	58	0	0		
16	145	2	.78	141	9	3.4	53	0	0		
17	132	3	1.1	559	17	26	60	0	0		
18	121	3	.98	433	12	14	60	0	0		
19	109	2	.59	702	17	32	76	0	0		
20	100	1	.27	445	6	7.2	118	0	0		
21	100	1	.27	344	6	5.6	253	7	4.8		
22	100	3	.81	287	10	7.7	284	8	6.1		
23	100	4	1.1	242	10	6.5	217	3	1.8		
24	86	4	.95	207	5	2.8	133	1	.36		
25	79	3	.64	186	3	1.5	98	1	.26		
26	135	5	1.6	172	2	.93	253	11	7.5		
27	161	2	.87	152	1	.41	187	5	2.5		
28	127	3	1.0	132	1	.36	119	2	.64		
29	112	3	.91	119	2	.64	110	1	.30		
30	104	3	.84	140	3	1.1	118	5	1.6		
31	---	---	---	219	6	3.5	---	---	---		
TOTAL	7050	---	97.24	6363	---	133.92	3728	---	30.08		
JULY				AUGUST				SEPTEMBER			
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)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	93	2	.50	245	3	2.0	28	6	.45		
2	76	2	.41	181	2	.98	27	5	.36		
3	63	2	.34	144	1	.39	33	6	.53		
4	55	1	.15	118	1	.32	40	5	.54		
5	51	1	.14	100	2	.54	34	5	.46		
6	49	2	.26	87	2	.47	27	4	.29		
7	59	2	.32	88	1	.24	23	3	.19		
8	70	2	.38	127	5	1.7	20	3	.16		
9	112	8	2.4	152	3	1.2	18	3	.15		
10	136	5	1.8	106	3	.86	49	11	1.5		
11	75	7	1.4	85	1	.23	218	7	4.1		
12	480	40	52	71	0	0	89	11	2.6		
13	326	19	17	58	2	.31	51	4	.55		
14	150	9	3.6	52	3	.42	35	4	.38		
15	184	17	8.4	58	2	.31	30	2	.16		
16	529	32	46	61	1	.16	71	9	1.7		
17	1110	30	90	59	1	.16	211	10	5.7		
18	413	7	7.8	48	0	0	212	11	6.3		
19	271	2	1.5	39	1	.11	109	5	1.5		
20	206	2	1.1	34	0	0	74	5	1.0		
21	165	2	.89	30	1	.08	64	5	.86		
22	131	4	1.4	27	2	.15	114	4	1.2		
23	241	15	9.8	25	1	.07	88	2	.48		
24	2620	20	141	22	1	.06	60	2	.32		
25	1160	12	38	21	1	.06	46	2	.25		
26	489	4	5.3	21	3	.17	39	2	.21		
27	333	5	4.5	24	4	.26	73	13	2.6		
28	264	5	3.6	33	5	.45	770	30	62		
29	340	7	6.4	35	6	.57	349	7	6.6		
30	342	4	3.7	42	5	.57	452	29	36		
31	317	4	3.4	37	6	.60	---	---	---		
TOTAL	10412	---	453.49	2230	---	13.44	3464	---	139.14		
YEAR 106285.0				3131.25							

MONONGAHELA RIVER BASIN

75

03068610 TAYLOR RUN AT BOWDEN, WV

LOCATION.--Lat 38°54'27", long 79°41'49", Randolph County, Hydrologic Unit 05020004, 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).

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Water-discharge records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 382 ft³/s (10.8 m³/s) June 8, 1974, gage height, 6.91 ft (2.106 m), from rating curve extended above 150 ft³/s (4.25 m³/s); minimum, 0.40 ft³/s (0.011 m³/s) Aug. 27, 28, 1974; minimum gage height, 3.72 ft (1.134 m) Aug. 9, 10, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 118 ft³/s (3.34 m³/s) Dec. 31, gage height, 5.37 ft (1.637 m), from rating curve extended as explained above, no peak above base of 150 ft³/s (4.2 m³/s); minimum, 0.50 ft³/s (0.014 m³/s) Sept. 8, 9, gage height, 3.91 ft (1.192 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	2.5	5.3	74	13	8.7	17	13	2.5	1.3	5.6	.58
2	3.6	2.5	4.5	42	9.6	7.6	16	15	2.9	1.3	4.2	1.8
3	2.9	2.2	4.2	45	7.4	6.8	27	14	2.2	1.1	3.2	1.0
4	2.5	2.1	4.2	35	9.2	6.1	39	12	1.9	1.1	2.7	.73
5	2.2	2.1	4.2	24	17	5.8	28	11	1.7	1.1	2.3	.73
6	2.1	1.9	6.2	19	55	5.2	22	9.2	1.6	1.3	2.3	.63
7	2.1	1.9	11	16	29	4.6	17	8.3	1.6	1.3	2.9	.54
8	1.9	1.9	8.7	13	21	4.3	14	7.0	1.3	1.3	2.3	.50
9	3.4	1.7	8.3	7.9	16	4.8	11	6.2	1.2	2.3	2.1	.50
10	5.9	1.8	7.9	6.7	15	5.8	8.7	5.6	1.1	1.1	1.8	5.6
11	7.4	1.6	6.7	7.9	55	13	8.3	5.6	1.0	4.8	1.6	1.3
12	4.5	25	7.0	8.7	35	12	6.7	5.0	.93	11	1.3	.86
13	3.4	27	17	15	55	22	5.9	4.2	1.5	2.9	1.2	.73
14	3.3	17	14	32	69	17	5.3	4.0	1.5	12	1.3	.63
15	3.3	13	14	19	41	15	5.0	3.8	1.0	3.3	2.3	1.7
16	3.1	14	32	15	31	22	4.5	5.0	1.0	17	1.7	3.1
17	15	15	23	12	30	22	4.2	4.8	2.3	12	1.2	3.1
18	26	13	17	8.7	26	20	3.8	9.2	1.3	5.9	1.0	1.9
19	13	11	13	6.7	22	25	3.6	8.7	2.2	4.0	.86	1.6
20	10	9.2	11	8.3	18	24	3.8	6.4	7.9	3.1	.79	1.7
21	8.7	8.7	9.2	7.0	15	66	4.8	5.9	8.7	2.5	.73	6.4
22	6.7	6.7	7.0	6.4	31	41	6.2	5.0	5.6	2.7	.68	2.7
23	5.9	5.9	6.2	5.9	25	27	4.5	4.2	3.1	15	.63	1.7
24	5.0	5.0	5.6	8.3	21	19	4.2	4.0	2.5	41	.63	1.3
25	4.5	4.8	5.3	13	20	16	5.9	4.2	2.9	19	.63	1.2
26	4.0	4.0	17	35	17	12	18	3.8	3.4	11	.93	1.1
27	3.8	5.3	17	45	14	12	13	3.3	2.1	7.9	1.6	6.7
28	3.4	4.2	12	31	12	10	10	2.9	1.7	14	1.1	7.9
29	3.4	3.8	10	23	10	9.2	8.3	2.7	1.6	13	.86	3.6
30	3.6	3.6	19	18	---	10	7.0	3.3	1.5	9.2	.73	11
31	2.9	---	52	15	---	10	---	2.7	---	6.6	.63	---
TOTAL	170.2	218.4	379.5	623.5	739.2	483.9	332.7	200.0	71.73	231.1	51.80	72.83
MEAN	5.49	7.28	12.2	20.1	25.5	15.6	11.1	6.45	2.39	7.45	1.67	2.43
MAX	26	27	52	74	69	66	39	15	8.7	41	5.6	11
MIN	1.9	1.6	4.2	5.9	7.4	4.3	3.6	2.7	.93	1.1	.63	.50
CFSM	1.08	1.44	2.41	3.97	5.04	3.08	2.19	1.27	.47	1.47	.33	.48
IN.	1.25	1.61	2.79	4.58	5.43	3.56	2.45	1.47	.53	1.70	.38	.54
CAL YR 1975 TOTAL	5583.66			MEAN 15.3	MAX 102	MIN .86	CFSM 3.02	IN 41.04				
WTR YR 1976 TOTAL	3574.86			MEAN 9.77	MAX 74	MIN .50	CFSM 1.93	IN 26.28				

MONONGAHELA RIVER BASIN

03068610 TAYLOR RUN AT BOWDEN, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1975 to current year.

WATER TEMPERATURES: June 1975 to current year.

TURBIDITY: June 1975 to current year.

SUSPENDED SEDIMENT DISCHARGE: October 1974 to current year.

REMARKS.--In addition to daily record, samples were collected approximately once a month. One water-quality analysis and one biological analysis were made during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 150 micromhos Sept. 9, 1976; minimum daily, 47 micromhos Jan. 6, 1976.

WATER TEMPERATURES: Maximum daily, 21.0°C June 24, 1975; minimum daily, 0.5°C Jan. 21, 1976.

TURBIDITY: Maximum daily, 85 JTU June 27, 1975; minimum daily, 1 JTU on many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 293 mg/L June 27, 1975; minimum daily mean, 0 mg/L on many days.

SEDIMENT LOADS: Maximum daily, 26 tons (24 tonnes) Apr. 25, 1975; minimum daily, 0 tons (0 tonnes) on many days.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A specific conductance of 175 micromhos was observed Oct. 16, 1974. A water temperature of 20°C was observed Aug. 31, Sept. 4, 1973, and July 30, 1974. A turbidity of 40 JTU was observed Apr. 24, 1975.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 150 micromhos Sept. 9; minimum daily, 47 micromhos Jan. 6.

WATER TEMPERATURES: Maximum daily, 18.5°C June 12, 25; minimum daily, 0.5°C Jan. 21.

TURBIDITY: Maximum daily, 50 JTU July 16, 28; minimum daily, 1 JTU on many days.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 100 mg/L July 16; minimum daily mean, 0 mg/L on many days.

SEDIMENT LOADS: Maximum daily, 7.3 tons (6.6 tonnes) Mar. 21; minimum daily, 0 tons (0 tonnes) on many days.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	
MAR 18	1300	18	70	7.9	3.5	1	17	4	5.1	
DATE		DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
MAR 18	1.0	4.5	.3	16	0	13	.3	7.3	8.0	
DATE		DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SUM OF CONSTITUENTS (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAR 18	.0	3.4	43	38	30	20	20	4	.19	

03068610 TAYLOR RUN AT BOWDEN, WV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	61	69	51	90	58	61	69	77	102	85	130
2	71	62	64	48	102	58	79	66	78	103	85	123
3	68	62	62	59	74	59	82	64	78	103	91	129
4	76	67	64	49	71	60	62	60	96	108	101	131
5	76	65	67	48	83	64	52	58	91	107	97	136
6	78	66	66	47	65	64	52	60	93	111	89	139
7	85	67	64	48	56	64	53	61	95	110	89	146
8	82	76	60	50	54	65	53	61	98	109	88	149
9	86	74	58	54	57	63	56	62	104	98	90	150
10	83	72	68	57	64	147	57	64	104	106	91	99
11	69	70	66	56	64	131	61	64	100	108	96	114
12	68	62	64	71	56	81	61	71	101	80	100	120
13	71	51	72	67	67	75	65	68	108	87	102	127
14	71	74	60	60	52	71	62	70	103	93	106	135
15	72	71	58	53	50	63	62	74	104	100	99	125
16	76	59	58	52	56	84	56	83	107	95	99	107
17	75	55	52	54	59	71	68	77	105	69	102	102
18	58	53	50	54	54	80	68	80	97	71	107	107
19	57	53	53	54	56	72	70	66	116	76	108	112
20	54	55	53	62	61	---	73	64	104	81	118	118
21	---	60	54	66	59	55	86	63	87	85	125	90
22	59	55	59	63	66	52	82	60	86	87	128	89
23	62	57	58	62	68	51	79	61	92	99	130	97
24	62	56	57	118	58	55	78	61	94	80	138	106
25	65	57	58	97	56	58	76	68	92	77	141	110
26	66	57	103	76	56	57	74	65	94	78	142	114
27	68	66	66	69	54	58	56	66	91	82	118	100
28	72	62	61	74	55	58	63	67	98	75	124	80
29	63	61	62	55	55	58	64	69	100	75	128	81
30	61	61	95	60	---	62	73	101	101	85	131	83
31	60	---	65	68	---	60	---	74	---	81	136	---
MONTH	69	62	63	61	63	68	66	67	96	91	109	115
YEAR	MAX	150	MIN	47	MEAN	78						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.5	10.0	5.0	4.5	4.0	12.0	8.0	9.5	16.5	14.5	16.5	14.5
2	12.0	12.0	5.5	4.5	2.0	11.0	4.0	12.0	15.5	16.0	14.0	15.5
3	13.0	12.0	5.0	5.0	3.0	11.0	5.0	10.5	14.0	15.0	14.0	16.5
4	13.0	11.0	5.0	3.0	3.0	12.0	8.0	11.0	15.5	15.5	15.5	16.0
5	13.0	12.0	5.5	2.0	3.0	11.0	6.5	14.0	16.5	14.5	16.0	16.0
6	14.0	14.0	7.0	2.5	3.0	7.5	7.0	14.0	13.5	14.5	15.5	14.0
7	15.0	14.0	7.0	2.5	3.0	7.0	8.0	13.0	15.5	15.0	18.0	14.0
8	13.0	13.0	5.5	2.0	2.0	6.0	6.0	11.0	17.0	17.0	16.0	14.0
9	13.0	14.0	7.0	2.0	2.5	3.0	6.0	13.0	17.0	16.0	14.0	13.0
10	14.0	12.0	4.5	1.5	4.5	7.0	7.0	14.5	16.5	15.5	14.0	14.0
11	14.0	12.0	5.5	3.0	4.5	7.0	6.5	15.5	17.0	18.0	13.0	13.0
12	12.0	11.5	5.0	2.5	5.5	7.0	3.5	15.5	18.5	16.0	15.0	14.0
13	13.0	9.0	7.0	2.5	4.0	5.0	6.0	16.0	17.0	15.5	16.0	14.0
14	14.0	6.0	7.0	4.0	5.0	6.5	5.0	16.5	18.0	15.0	16.0	15.0
15	14.0	8.0	7.5	3.0	6.0	8.0	12.0	15.0	17.0	18.0	16.0	14.5
16	13.5	7.0	6.5	2.5	8.0	4.0	12.5	15.0	17.5	15.0	16.0	14.0
17	11.5	8.5	5.5	1.5	10.0	2.0	12.0	15.0	17.5	14.5	15.5	14.5
18	13.0	9.0	3.0	2.0	8.5	4.0	17.0	10.5	17.0	15.5	17.0	13.0
19	12.0	8.5	1.5	1.5	8.5	8.0	16.0	10.0	16.5	10.5	15.5	14.5
20	10.5	9.5	2.0	1.0	7.5	---	18.0	14.5	15.0	16.5	15.5	13.0
21	14.0	7.0	5.0	0.5	7.0	7.0	16.5	14.0	15.0	16.5	16.0	13.5
22	14.0	6.0	2.0	2.0	6.5	9.0	16.0	12.5	16.5	17.0	17.0	12.0
23	14.0	7.0	3.0	3.0	3.0	8.0	16.0	15.0	16.5	17.0	14.0	9.0
24	14.0	7.0	2.5	2.5	6.0	10.0	13.5	12.0	18.0	15.5	16.5	13.5
25	14.0	5.5	2.5	4.0	7.0	8.0	15.0	11.0	18.5	15.5	16.5	13.5
26	13.0	7.0	3.5	3.0	7.5	10.0	7.5	12.0	17.0	16.0	15.0	14.0
27	13.0	6.0	4.0	3.0	9.0	11.0	7.5	13.0	17.0	16.5	16.0	14.5
28	14.0	5.5	---	1.5	8.0	10.5	8.0	15.0	17.0	15.5	16.5	13.0
29	14.0	6.0	3.5	4.0	10.0	9.0	11.0	12.5	18.0	17.0	16.0	12.0
30	10.0	8.0	4.0	3.0	---	13.5	14.5	15.0	17.0	15.5	14.0	13.5
31	9.0	---	5.0	2.5	---	11.5	---	15.5	---	16.0	11.0	---
MONTH	13.0	9.5	5.0	2.5	5.5	8.0	10.0	13.5	16.5	15.5	15.5	14.0
YEAR	MAX	18.5	MIN	0.5	MEAN	10.5						

MONONGAHELA RIVER BASIN

03068610 TAYLOR RUN AT BOWDEN, WV--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1	1	1	5	1	1	2	2	1	1	3	2
2	2	1	1	2	1	1	1	3	1	1	3	4
3	1	1	1	5	1	2	5	3	1	1	3	1
4	1	1	1	2	1	1	3	2	1	1	2	1
5	1	1	1	2	4	1	2	2	1	20	2	1
6	1	1	1	2	4	1	2	3	2	1	2	1
7	1	1	1	2	2	1	2	2	2	1	3	1
8	1	1	1	1	1	1	2	2	2	1	2	1
9	1	1	1	1	1	1	1	2	1	3	2	1
10	1	1	2	1	2	1	1	2	2	2	2	40
11	1	1	1	1	6	2	1	2	2	1	2	1
12	1	20	2	1	3	1	1	2	1	7	1	1
13	1	3	2	2	5	3	2	1	6	3	2	1
14	1	1	1	2	5	2	1	1	3	2	2	1
15	1	1	2	2	3	1	1	2	3	3	5	1
16	1	1	2	1	3	5	2	5	2	50	3	2
17	5	2	1	1	3	1	2	2	4	7	2	2
18	2	1	1	1	3	2	2	15	4	4	1	1
19	1	1	2	1	2	3	2	4	3	3	1	1
20	1	2	1	1	2	---	2	2	30	3	1	2
21	1	1	1	1	1	7	2	1	8	3	1	10
22	1	1	1	1	3	3	2	1	3	2	1	1
23	1	1	1	1	2	2	2	1	3	5	1	1
24	1	1	1	2	2	2	2	2	3	20	2	1
25	1	1	1	1	1	1	2	3	2	5	2	1
26	1	1	3	10	1	2	3	2	2	4	1	1
27	1	1	1	3	1	3	2	3	1	3	3	4
28	1	1	1	3	2	2	2	2	1	50	2	3
29	1	1	1	2	1	2	2	2	1	4	1	1
30	1	1	4	1	---	2	2	2	1	4	1	7
31	1	---	6	2	---	2	---	2	---	3	1	---
MONTH	1	1	1	2	2	1	1	2	3	7	1	3
YEAR	MAX	50	MIN	1	MEAN	2						

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.7	4	.03	2.5	1	.01	5.3	0	0
2	3.6	22	.21	2.5	2	.01	4.5	0	0
3	2.9	5	.04	2.2	3	.02	4.2	0	0
4	2.5	2	.01	2.1	3	.02	4.2	0	0
5	2.2	3	.02	2.1	2	.01	4.2	1	.01
6	2.1	4	.02	1.9	3	.02	6.2	3	.05
7	2.1	3	.02	1.9	2	.01	11	2	.06
8	1.9	3	.02	1.9	1	.01	8.7	0	0
9	3.4	7	.06	1.7	2	.01	8.3	1	.02
10	5.9	12	.19	1.8	1	0	7.9	1	.02
11	7.4	16	.32	1.6	3	.01	6.7	0	0
12	4.5	3	.04	25	23	1.6	7.0	5	.09
13	3.4	2	.02	27	10	.73	17	10	.46
14	3.3	6	.05	17	3	.14	14	0	0
15	3.3	2	.02	13	2	.07	14	7	.26
16	3.1	2	.02	14	5	.19	32	20	1.7
17	15	24	.97	15	6	.24	23	3	.19
18	26	17	1.2	13	2	.07	17	1	.05
19	13	3	.11	11	2	.06	13	3	.11
20	10	3	.08	9.2	2	.05	11	1	.03
21	8.7	3	.07	8.7	4	.09	9.2	0	0
22	6.7	3	.05	6.7	1	.02	7.0	1	.02
23	5.9	2	.03	5.9	0	0	6.2	1	.02
24	5.0	2	.03	5.0	1	.01	5.6	0	0
25	4.5	2	.02	4.8	2	.03	5.3	1	.01
26	4.0	2	.02	4.0	1	.01	17	17	.78
27	3.8	2	.02	5.3	3	.04	17	1	.05
28	3.4	2	.02	4.2	2	.02	12	0	0
29	3.4	4	.04	3.8	0	0	10	1	.03
30	3.6	4	.04	3.6	0	0	19	9	.46
31	2.9	3	.02	---	---	---	52	50	5.9
TOTAL	170.2	---	3.81	218.4	---	3.50	379.5	---	10.32

MONONGAHELA RIVER BASIN

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03068610 TAYLOR RUN AT BOWDEN, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY				FEBRUARY				MARCH			
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	74	15	3.0	13	4	.14	8.7	4	.09			
2	42	18	2.0	9.6	4	.10	7.6	6	.12			
3	45	22	2.7	7.4	1	.02	6.8	9	.17			
4	35	2	.19	9.2	3	.07	6.1	6	.10			
5	24	4	.26	17	15	.69	5.8	3	.05			
6	19	6	.31	55	31	4.6	5.2	4	.06			
7	16	3	.13	29	2	.16	4.6	3	.04			
8	13	1	.04	21	3	.17	4.3	2	.02			
9	7.9	1	.02	16	1	.04	4.8	1	.01			
10	6.7	6	.11	15	7	.28	5.8	1	.02			
11	7.9	3	.06	55	43	6.1	13	10	.35			
12	8.7	1	.02	35	9	.85	12	4	.13			
13	15	17	.69	55	26	3.9	22	17	1.0			
14	32	18	1.6	69	20	3.7	17	1	.05			
15	19	5	.26	41	4	.44	15	5	.20			
16	15	3	.12	31	11	.92	22	13	.77			
17	12	1	.03	30	8	.65	22	5	.30			
18	8.7	1	.02	26	11	.77	20	5	.27			
19	6.7	2	.04	22	10	.59	25	11	.74			
20	8.3	4	.09	18	5	.24	24	5	.32			
21	7.0	3	.06	15	5	.20	66	40	7.3			
22	6.4	2	.03	31	24	2.0	41	7	.77			
23	5.9	2	.03	25	3	.20	27	6	.44			
24	8.3	8	.18	21	2	.11	19	7	.36			
25	13	7	.25	20	1	.05	16	4	.17			
26	35	28	2.6	17	5	.23	12	2	.06			
27	45	26	3.2	14	9	.34	12	5	.16			
28	31	17	1.4	12	9	.29	10	2	.05			
29	23	9	.56	10	5	.14	9.2	5	.12			
30	18	2	.10	---	---	---	10	8	.22			
31	15	9	.36	---	---	---	10	5	.14			
TOTAL	623.5	---	20.46	739.2	---	27.99	483.9	---	14.60			

DAY	APRIL				MAY				JUNE			
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	17	6	.28	13	20	.70	2.5	3	.02			
2	16	3	.13	15	12	.49	2.9	3	.02			
3	27	16	1.2	14	9	.34	2.2	1	.01			
4	39	11	1.2	12	4	.13	1.9	4	.02			
5	28	4	.30	11	4	.12	1.7	4	.02			
6	22	4	.24	9.2	4	.10	1.6	2	.01			
7	17	4	.18	8.3	3	.07	1.6	5	.02			
8	14	4	.15	7.0	3	.06	1.3	6	.02			
9	11	4	.12	6.2	3	.05	1.2	3	.01			
10	8.7	4	.09	5.6	5	.08	1.1	2	.01			
11	8.3	4	.09	5.6	5	.08	1.0	2	.01			
12	6.7	3	.05	5.0	4	.05	.93	2	.01			
13	5.9	4	.06	4.2	4	.05	1.5	6	.02			
14	5.3	3	.04	4.0	2	.02	1.5	1	0			
15	5.0	4	.05	3.8	2	.02	1.0	1	0			
16	4.5	5	.06	5.0	9	.12	1.0	19	.05			
17	4.2	6	.07	4.8	5	.06	2.3	22	.14			
18	3.8	5	.05	9.2	18	.45	1.3	9	.03			
19	3.6	4	.04	8.7	5	.12	2.2	7	.04			
20	3.8	12	.12	6.4	5	.09	7.9	42	.90			
21	4.8	5	.06	5.9	6	.10	8.7	23	.54			
22	6.2	5	.08	5.0	5	.07	5.6	10	.15			
23	4.5	5	.06	4.2	4	.05	3.1	10	.08			
24	4.2	3	.03	4.0	8	.09	2.5	11	.07			
25	5.9	16	.25	4.2	18	.20	2.9	12	.09			
26	18	21	1.0	3.8	8	.08	3.4	8	.07			
27	13	7	.25	3.3	5	.04	2.1	3	.02			
28	10	4	.11	2.9	3	.02	1.7	2	.01			
29	8.3	4	.09	2.7	3	.02	1.6	2	.01			
30	7.0	4	.08	3.3	14	.12	1.5	1	0			
31	---	---	---	2.7	2	.01	---	---	---			
TOTAL	332.7	---	6.53	200.0	---	4.00	71.73	---	2.40			

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.3	1	0	5.6	3	.05	.58	1	0
2	1.3	1	0	4.2	4	.05	1.8	10	.05
3	1.1	0	0	3.2	3	.03	1.0	5	.01
4	1.1	0	0	2.7	3	.02	.73	3	.01
5	1.1	0	0	2.3	4	.02	.73	4	.01
6	1.3	0	0	2.3	6	.04	.63	7	.01
7	1.3	0	0	2.9	12	.09	.54	4	.01
8	1.3	2	.01	2.3	4	.02	.50	2	0
9	2.3	6	.04	2.1	4	.02	.50	2	0
10	1.1	4	.01	1.8	7	.03	5.6	50	.76
11	4.8	20	.26	1.6	5	.02	1.3	3	.01
12	11	25	.74	1.3	5	.02	.86	1	0
13	2.9	7	.05	1.2	4	.01	.73	2	0
14	12	6	.19	1.3	28	.10	.63	3	.01
15	3.3	18	.16	2.3	16	.10	1.7	5	.02
16	17	100	4.6	1.7	5	.02	3.1	6	.05
17	12	17	.55	1.2	2	.01	3.1	6	.05
18	5.9	17	.27	1.0	1	0	1.9	3	.02
19	4.0	7	.08	.86	2	0	1.6	2	.01
20	3.1	5	.04	.79	4	.01	1.7	4	.02
21	2.5	8	.05	.73	3	.01	6.4	24	.41
22	2.7	6	.04	.68	4	.01	2.7	5	.04
23	15	18	.73	.63	4	.01	1.7	4	.02
24	41	31	3.4	.63	4	.01	1.3	4	.01
25	19	19	.97	.63	4	.01	1.2	5	.02
26	11	10	.30	.93	14	.04	1.1	6	.02
27	7.9	8	.17	1.6	4	.02	6.7	16	.29
28	14	80	4.4	1.1	1	0	7.9	8	.17
29	13	27	.95	.86	1	0	3.6	7	.07
30	9.2	10	.25	.73	1	0	11	32	.95
31	6.6	4	.07	.63	1	0	---	---	---
TOTAL	231.1	---	18.33	51.80	---	.77	72.83	---	3.05
YEAR	3574.86		115.76						

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

Date	Time	Organism	Organism count (total)	Percent composition	Di- versity index	Sampling method
Mar 18	1300	ARTHROPODA				Net
		Crustacea				
		Decapoda				
		Astacidae				
		Unknown Genus	1	2		
		Insecta				
		Diptera				
		Chironomidae				
		Tanytarsus	1	2		
		Emphemeroptera				
		Baetidae				
		Baetis	1	2		
		Heptageniidae				
		Stenacron	1	2		
		Stenonema	4	8		
		Leptophlebiidae				
		Paraleptophlebia	1	2		
		Siphonuridae				
		Ameletus	1	2		
		Odonata				
		Gomphidae				
		Octogomphus	3	6		
		Plecoptera				
		Chloroperlidae				
		Hastaperla	3	6		
		Nemouridae				
		Nemoura	2	4		
		Peltoperlidae				
		Peltoperla	20	38		
		Pteronarcidae				
		Pteronarcys	10	19		
		Trichoptera				
		Hydropsychidae				
		Cheumatopsyche	1	2		
		Hydropsyche	3	6		
		TOTAL	52		2.93	

MONONGAHELA RIVER BASIN

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03068690 NORTH SPRING AT BOWDEN, WV

LOCATION.--Lat 38°54'43", long 79°42'16", Randolph County, Hydrologic Unit 05020004, 100 ft (30 m) landward from right bank of Shavers Fork, 250 ft (76 m) upstream from bridge on State Secondary Route 5/12, and 0.4 mi (0.6 km) east of Bowden.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1956-58 (discharge measurements only, published as "Cold Spring, Northbank"), June 1975 to current year.

GAGE.--(Base gage) Water-stage recorder, with 16-inch pipe spring box overflow and 16-inch inlet pipe to Bowden National Fish Hatchery as control. Datum of gage is 2201.99 ft (671.167 m) above mean sea level. Supplementary water-stage recorder No. 1 and sharp-crested weir in water tower at fish hatchery at datum 2,200.06 ft (670.578 m) above mean sea level, nonrecording prior to Nov. 4, 1975. Supplementary water-stage recorder No. 2 and sharp-crested weir in collecting trough in fish hatchery building since Oct. 10, 1975, at datum 2,193.32 ft (668.524 m) above mean sea level.

REMARKS.--Water-discharge records fair prior to Nov. 4 and good thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5.4 ft³/s (0.15 m³/s) Jan. 1, 1976; maximum gage height, 5.71 ft (1.740 m) Jan. 1, 1976, backwater from Shavers Fork; minimum daily discharge, 2.4 ft³/s (0.068 m³/s) Aug. 25, Sept. 4-9, 1976; minimum gage height, 1.23 ft (0.375 m) June 26, 1975, when water tower valve was open.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5.4 ft³/s (0.15 m³/s) Jan. 1; maximum gage height, 5.71 ft (1.740 m), backwater from Shavers Fork; minimum daily discharge, 2.4 ft³/s (0.068 m³/s) Aug. 25, Sept. 4-9; minimum gage height, 2.13 ft (0.649 m) Sept. 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	3.3	3.4	5.4	3.4	3.2	3.4	3.3	3.5	2.9	3.3	2.5
2	3.4	3.2	3.4	4.3	3.3	3.1	3.5	3.5	3.4	2.8	3.2	2.5
3	3.3	3.2	3.4	4.1	3.1	3.1	3.8	3.6	3.5	2.8	3.1	2.5
4	3.3	3.5	3.3	4.1	3.1	3.0	4.2	3.5	3.5	2.8	3.1	2.4
5	3.2	3.5	3.3	3.9	3.2	3.0	3.9	3.5	3.5	2.7	2.9	2.4
6	3.1	3.5	3.3	3.7	4.3	3.0	3.8	3.4	3.5	2.8	2.9	2.4
7	3.1	3.5	3.3	3.6	3.9	2.9	3.7	3.4	3.5	2.7	2.9	2.4
8	3.1	3.6	3.5	3.5	3.7	2.9	3.6	3.3	3.5	2.7	2.9	2.4
9	3.1	3.6	3.6	3.4	3.4	2.8	3.5	3.3	3.5	2.7	2.9	2.4
10	3.1	3.5	3.5	3.3	3.4	2.8	3.4	3.2	3.4	2.9	2.8	2.5
11	3.4	3.4	3.4	3.2	3.7	2.9	3.3	3.2	3.4	2.9	2.8	2.6
12	3.5	3.8	3.6	3.3	3.8	3.1	3.2	3.2	3.3	2.7	2.8	2.7
13	3.4	4.4	3.7	3.2	3.7	3.2	3.1	3.1	3.3	2.8	2.8	2.7
14	3.3	4.4	3.9	3.8	4.3	3.4	2.9	3.0	3.3	2.7	2.7	2.7
15	3.3	4.3	4.1	3.6	3.9	3.5	3.0	3.1	3.3	2.7	2.7	2.7
16	3.3	4.3	4.1	3.5	3.7	3.5	3.3	3.1	3.3	3.0	2.7	2.7
17	3.4	4.1	4.2	3.3	3.7	3.7	3.3	3.3	3.0	3.3	2.7	2.8
18	4.5	4.1	4.0	3.2	3.7	3.6	3.3	3.4	2.7	3.3	2.7	2.9
19	4.2	4.1	3.9	3.1	3.7	3.7	3.3	3.6	2.7	3.6	2.7	2.9
20	4.1	4.1	3.7	3.0	3.6	3.7	3.4	3.5	2.7	3.4	2.7	2.9
21	4.0	4.0	3.7	2.9	3.6	4.4	3.5	3.6	2.8	3.1	2.6	2.9
22	3.9	3.9	3.5	2.9	3.7	4.3	3.3	3.6	2.9	2.9	2.6	2.9
23	3.7	3.9	3.3	2.9	3.7	4.0	3.3	3.5	2.9	3.1	2.5	2.9
24	3.7	3.9	3.2	2.9	3.6	3.8	3.2	3.7	2.9	4.1	2.5	2.9
25	3.7	3.6	3.2	3.0	3.6	3.7	3.2	3.7	2.8	3.9	2.4	2.8
26	3.6	3.5	3.2	3.2	3.5	3.6	3.4	3.6	2.9	3.7	2.5	2.7
27	3.5	3.6	3.6	3.6	3.5	3.5	3.6	3.4	2.9	3.6	2.5	2.7
28	3.5	3.6	3.6	3.8	3.4	3.4	3.5	3.4	2.9	3.5	2.5	2.9
29	3.4	3.5	3.6	3.7	3.4	3.3	3.4	3.4	2.9	3.6	2.5	2.9
30	3.5	3.5	3.5	4.5	---	3.3	3.3	3.4	2.9	3.5	2.5	3.0
31	3.3	---	3.9	3.5	---	3.3	---	3.4	---	3.4	2.5	---
TOTAL	108.4	112.4	110.9	108.4	104.6	104.7	102.6	105.2	94.6	96.6	84.9	80.6
MEAN	3.50	3.75	3.58	3.50	3.61	3.38	3.42	3.39	3.15	3.12	2.74	2.69
MAX	4.5	4.4	4.2	5.4	4.3	4.4	4.2	3.7	3.5	4.1	3.3	3.0
MIN	3.1	3.2	3.2	2.9	3.1	2.8	2.9	3.0	2.7	2.7	2.4	2.4

WTR YR 1976 TOTAL 1213.9 MEAN 3.32 MAX 5.4 MIN 2.4

MONONGAHELA RIVER BASIN

03068690 NORTH SPRING AT BOWDEN, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

TURBIDITY: June 1975 to current year.

INSTRUMENTATION.--Automatic pumping turbidity sampler.

REMARKS.--Turbidity values listed as 100 JTU represent values of 100 JTU or higher due to instrument limitations.

EXTREMES FOR PERIOD OF DAILY RECORD.--

TURBIDITY: Maximum, not determined; minimum, 1 JTU on many days.

EXTREMES FOR CURRENT YEAR.--

TURBIDITY: Maximum, not determined; minimum, 1 JTU on many days.

TURBIDITY (JTU), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1	1	1	1	1	1	1	1	1	10	2	5
2	1	1	1	1	1	1	1	1	1	2	2	2
3	1	1	1	1	1	1	1	1	1	2	2	2
4	1	1	1	1	1	1	1	1	1	2	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	3	1	1	3	1	1
7	1	1	1	1	1	1	2	1	1	2	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1	1
10	10	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	10	1	2	1	1	1	1	1	1
12	1	1	1	1	1	1	4	1	1	1	1	1
13	1	1	1	1	1	1	3	1	2	6	1	2
14	1	1	1	1	1	1	2	1	1	5	1	3
15	1	1	1	1	1	1	2	1	1	2	1	1
16	1	1	1	1	1	1	3	1	2	1	1	1
17	1	1	1	2	1	1	2	1	2	1	1	1
18	3	1	2	3	1	2	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	3	1	2	1	1	1
21	1	1	1	1	1	1	2	2	2	1	1	1
22	1	1	1	1	1	1	2	2	2	1	1	1
23	1	1	1	1	1	1	2	1	1	2	1	1
24	1	1	1	1	1	1	1	1	1	2	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	2	1	1	2	1	1
27	1	1	1	2	1	1	---	---	---	2	1	2
28	1	1	1	1	1	1	---	---	---	3	1	2
29	1	1	1	1	1	1	---	---	---	1	1	1
30	1	1	1	1	1	1	---	---	---	1	1	1
31	---	---	---	---	---	---	15	2	5	1	1	1
MONTH	10	1	1	10	1	1	15	1	1	10	1	1

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TURBIDITY (JTU), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

MONONGAHELA RIVER BASIN

03068710 SOUTH SPRING AT BOWDEN, WV

LOCATION.--Lat 38°54'38", long 79°42'22", Randolph County, Hydrologic Unit 05020004, 75 ft (23 m) upstream from bridge, 400 ft (122 m) landward from left bank of Shavers Fork on State Secondary Route 5/12, and 0.3 mi (0.5 km) east of Bowden.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1956-58, 1961 (discharge measurements only, published as "Cold Spring, Southbank"), June 1975 to current year.

GAGE.--Water-stage and rainfall recorders, sharp-crested weirs, and concrete control. Datum of gage is 2,204.66 ft (671.980 m) above mean sea level.

REMARKS.--Water-discharge records good. Rainfall records collected at site since July 1975 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12.8 ft³/s (0.36 m³/s) Oct. 18, 1975; maximum gage height, 3.14 ft (0.957 m) Sept. 23, 24, 1975, valves to fish hatchery closed; minimum discharge, 0.88 ft³/s (0.025 m³/s) Aug. 24, 25, 1976, gage height, 1.80 ft (0.549 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12.8 ft³/s (0.36 m³/s) Oct. 18, gage height, 3.06 ft (0.933 m); minimum, 0.88 ft (0.025 m³/s) Aug. 24, 25, gage height, 1.80 ft (0.549 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.7	1.7	1.1	1.7	1.6	2.5	1.9	1.6	1.6	1.5	1.2
2	1.4	1.7	1.7	3.9	1.7	1.6	2.6	3.0	1.5	1.5	1.4	1.2
3	1.4	1.7	1.7	3.4	1.4	1.6	2.7	2.4	1.7	1.4	1.2	1.3
4	1.3	1.6	1.5	3.6	1.4	1.5	3.7	2.5	1.7	1.4	1.1	1.4
5	1.2	1.5	1.5	2.7	1.6	1.5	3.2	2.2	1.5	1.4	1.1	1.4
6	1.2	1.5	1.6	2.2	4.0	1.5	2.7	2.0	1.4	1.4	1.1	1.2
7	1.2	1.5	2.2	2.0	3.4	1.4	2.2	1.9	1.3	1.5	1.1	1.1
8	1.2	1.5	2.2	1.4	2.4	1.3	2.1	1.4	1.3	1.7	1.2	1.0
9	1.2	1.5	2.0	1.7	2.0	1.3	2.0	1.7	1.2	2.2	1.4	1.0
10	1.4	1.5	2.0	1.5	1.8	1.3	1.8	1.5	1.2	2.6	1.2	2.1
11	2.4	1.7	1.8	1.5	3.8	1.7	1.7	1.5	1.2	1.7	1.1	3.0
12	2.3	2.9	1.7	1.7	3.8	1.9	1.6	1.5	1.2	3.5	1.1	2.2
13	2.0	5.1	2.4	1.7	3.1	3.0	1.5	1.5	1.2	3.0	1.0	1.8
14	1.7	3.6	2.7	3.3	4.6	2.9	1.4	1.4	1.2	2.2	.99	1.5
15	1.6	3.0	2.4	2.7	3.5	2.3	1.4	1.4	1.3	2.2	1.1	1.4
16	1.5	2.7	3.4	2.1	2.3	2.3	1.4	1.7	1.2	3.2	1.1	2.5
17	2.1	2.7	3.3	1.8	3.0	2.9	1.4	2.6	1.4	3.7	1.1	2.8
18	10	2.2	2.7	1.5	3.0	2.4	1.4	2.4	1.4	2.6	1.1	3.1
19	6.7	2.7	2.2	1.4	2.7	2.4	1.4	2.7	1.5	2.0	.99	2.6
20	3.3	2.4	2.0	1.4	2.3	2.5	1.4	2.2	2.2	1.8	.44	2.2
21	2.7	2.3	1.9	1.4	2.0	3.8	1.4	2.0	2.8	1.7	.94	2.4
22	2.3	2.3	1.7	1.3	2.8	4.1	1.5	1.9	2.7	1.5	.94	2.7
23	2.2	2.0	1.6	1.2	3.0	3.0	1.5	1.8	2.4	2.2	.94	2.4
24	2.0	1.8	1.5	1.3	2.4	2.3	1.4	1.7	2.0	5.3	.88	2.0
25	2.0	1.7	1.4	1.7	2.2	2.1	1.4	1.7	1.7	3.6	.88	1.9
26	1.9	1.6	2.2	3.2	2.1	1.9	2.6	1.5	2.2	2.2	.99	1.7
27	1.8	1.6	3.1	4.0	1.9	1.8	2.6	1.4	2.1	1.8	1.2	2.2
28	1.8	1.6	2.5	3.5	1.8	1.8	2.1	1.4	1.8	1.9	1.2	3.8
29	1.7	1.5	2.1	2.7	1.7	1.7	1.8	1.4	1.7	2.1	1.2	3.3
30	1.8	1.4	2.4	2.1	---	1.9	1.7	1.4	1.9	1.8	1.4	3.3
31	1.8	---	3.9	1.9	---	2.0	---	1.7	---	1.7	1.3	---
TOTAL	68.5	63.1	67.0	74.4	73.9	65.3	58.1	58.1	49.5	68.4	34.69	61.7
MEAN	2.21	2.10	2.16	2.40	2.55	2.11	1.94	1.87	1.65	2.21	1.12	2.06
MAX	10	5.1	3.9	8.1	4.6	4.1	3.7	3.0	2.8	5.3	1.5	3.8
MIN	1.2	1.4	1.4	1.2	1.4	1.3	1.4	1.4	1.2	1.4	.88	1.0
IN*	3.17	2.15	3.83	2.19	3.59	3.68	2.23	2.93	3.06	6.94	1.81	5.78

WTR YR 1976 TOTAL 742.69 MEAN 2.03 MAX 10 MIN .88

* Rainfall.

MONONGAHELA RIVER BASIN

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03068710 SOUTH SPRING AT BOWDEN, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

TURBIDITY: June 1975 to current year.

INSTRUMENTATION.--Automatic pumping turbidity sampler.

REMARKS.--Interruptions in the record were due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

TURBIDITY: Maximum, not determined; minimum, 2 JTU on many days.

EXTREMES FOR CURRENT YEAR.--

TURBIDITY: Maximum, 650 JTU Nov. 12; minimum, 2 JTU on many days.

TURBIDITY (JTU), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6	4	4	10	8	9	60	5	20	200	15	60
2	8	4	5	8	5	7	10	6	8	15	9	10
3	7	4	5	10	5	6	6	5	6	110	8	40
4	5	4	5	15	6	9	7	5	5	25	8	10
5	6	3	4	15	7	9	15	4	7	10	8	9
6	6	4	4	10	5	7	160	6	25	10	7	8
7	5	3	4	10	6	7	170	8	25	7	6	7
8	5	3	4	10	7	8	15	6	9	10	5	7
9	5	3	3	10	7	9	30	8	15	6	5	6
10	360	3	40	15	6	8	30	7	20	10	5	6
11	120	15	40	15	8	10	8	6	7	20	5	7
12	15	9	10	650	8	100	15	6	8	15	5	7
13	15	7	9	80	20	30	180	10	45	480	4	25
14	15	8	10	20	10	15	15	6	9	500	15	70
15	10	6	7	15	8	10	75	5	15	15	2	10
16	7	5	6	10	7	8	140	15	45	3	2	2
17	180	5	45	30	6	10	20	10	10	2	2	2
18	240	20	65	20	8	10	10	8	9	2	2	2
19	20	8	10	15	7	10	10	8	9	2	2	2
20	10	7	8	25	7	10	9	7	8	2	2	2
21	10	6	7	35	7	15	---	---	---	2	2	2
22	9	5	6	15	9	10	---	---	---	4	2	3
23	15	5	7	10	7	8	---	---	---	5	3	4
24	10	6	7	8	6	6	---	---	---	20	4	8
25	9	6	6	7	5	6	---	---	---	40	6	15
26	8	5	5	8	6	6	---	---	---	80	45	60
27	8	5	5	20	6	9	---	---	---	95	10	50
28	9	6	7	9	6	7	---	---	---	15	6	8
29	10	7	8	7	6	6	---	---	---	8	6	7
30	20	8	15	7	5	6	---	---	---	10	5	5
31	15	8	10	---	---	---	430	20	170	7	4	5
MONTH	360	3	10	650	5	10	---	---	---	500	2	15

FEBRUARY				MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5	4	5	4	3	4	10	6	7	380	2	65
2	6	4	6	4	3	3	10	6	8	130	2	35
3	7	5	5	4	3	3	10	4	7	110	2	20
4	5	4	4	4	3	3	15	6	8	120	4	15
5	30	3	10	10	2	4	7	3	5	10	2	9
6	170	10	60	5	3	4	5	3	4	100	2	9
7	10	5	8	6	3	4	5	3	3	100	2	8
8	6	4	5	5	2	4	5	3	4	35	2	7
9	7	4	5	5	3	4	6	2	4	30	2	5
10	4	4	5	15	3	4	6	3	4	75	2	6
11	260	8	80	15	6	8	6	3	4	95	2	6
12	25	6	10	7	5	6	7	3	4	10	2	5
13	240	5	45	30	7	10	6	3	4	120	2	8
14	65	8	20	8	5	7	5	4	4	65	2	7
15	5	5	7	5	4	5	120	4	9	7	4	5
16	10	6	7	100	4	15	60	2	9	35	4	8
17	65	7	15	15	6	8	90	2	9	20	9	10
18	30	6	9	15	5	7	---	---	---	45	10	20
19	10	6	7	7	4	5	25	2	6	20	10	15
20	4	5	6	9	4	5	35	3	6	15	7	10
21	5	4	4	490	6	75	80	2	20	10	6	8
22	250	4	40	25	7	10	170	2	50	10	5	7
23	4	5	7	7	5	6	100	2	15	6	4	5
24	7	5	5	5	4	5	90	2	10	4	3	3
25	6	4	4	5	2	3	35	2	7	5	3	4
26	5	4	4	3	2	2	150	2	60	5	2	3
27	5	4	4	3	2	2	160	2	15	30	3	15
28	8	3	4	4	2	2	130	2	10	4	2	3
29	4	3	4	---	---	---	40	2	7	3	2	3
30	---	---	---	---	---	---	100	2	20	8	2	4
31	---	---	---	---	---	---	---	---	---	7	3	5
MONTH	260	3	15	490	2	7	170	2	10	380	2	10

JUNE				JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3	3	3	7	3	6	6	3	4	2	2	2
2	4	2	3	6	2	3	8	2	3	7	2	2
3	5	2	3	3	2	3	7	2	3	7	3	3
4	3	2	3	4	2	3	3	2	3	7	2	3
5	4	2	3	4	2	3	3	2	3	4	2	3
6	3	2	3	4	2	3	3	2	3	7	2	3
7	4	2	2	3	2	3	4	2	3	3	2	2
8	3	2	2	3	2	3	8	2	3	3	2	2
9	3	2	2	10	2	6	8	2	4	5	2	3
10	3	2	2	6	4	4	9	2	3	75	2	15
11	3	2	3	25	4	5	4	2	3	9	2	4
12	3	2	2	200	10</							

MONONGAHELA RIVER BASIN

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03068800 SHAVERS FORK BELOW BOWDEN, WV

LOCATION.--Lat 38°54'47", long 79°46'14", Randolph County, Hydrologic Unit 05020004, on upstream side of right pier, on U.S. Highway 33 bridge, 3.0 mi (4.8 km) west of Bowden, and at mile 26.4 (42.5 km).

DRAINAGE AREA.--151 mi² (391 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1973 to current year. Once daily wire-weight gage readings at same site November 1971 to August 1973 are contained in files of Bowden National Fish Hatchery.

GAGE.--Water-stage recorder. Altitude of gage is 2,115 ft (644.7 m), from topographic map.

REMARKS.--Water-discharge records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,300 ft³/s (490 m³/s) Dec. 26, 1973, gage height, 11.47 ft (3.496 m), from floodmark, from rating curve extended above 4,100 ft³/s (116 m³/s); minimum, 18 ft³/s (0.51 m³/s) Sept. 9, 1976, gage height, 3.74 ft (1.140 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3600 ft³/s (100 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 1	0330	5320 151	8.99 2.740	July 24	1115	*5540 157	9.08 2.768

Minimum, 18 ft³/s (0.51 m³/s) Sept. 9, gage height, 3.74 ft (1.140 m).

* From rating curve extended as explained above.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	162	235	3080	340	291	456	129	176	96	259	30
2	159	148	259	1110	295	267	475	238	151	79	192	32
3	156	137	228	947	243	247	457	237	184	66	152	36
4	125	128	203	1010	290	235	474	199	203	58	125	42
5	108	120	210	570	312	221	721	173	152	54	106	36
6	93	114	224	422	1190	211	519	154	120	52	93	29
7	81	109	367	395	728	191	422	147	106	62	95	24
8	73	106	363	400	484	168	360	149	96	73	133	21
9	75	107	315	300	400	172	313	136	83	118	157	19
10	86	106	315	210	353	171	276	118	73	139	111	63
11	263	208	287	250	1440	236	252	108	65	87	89	221
12	231	408	271	300	1110	253	236	113	58	508	74	91
13	149	1470	335	270	898	596	208	113	57	334	61	53
14	119	667	351	720	1770	649	189	98	65	181	55	37
15	105	485	323	560	934	419	172	89	61	193	64	34
16	95	426	594	360	824	426	157	154	56	573	65	79
17	146	445	606	290	1340	581	143	571	66	1140	62	219
18	1970	480	450	230	1180	431	131	457	63	428	51	217
19	775	480	413	180	1110	468	118	724	82	281	41	113
20	491	435	435	160	695	594	110	461	138	216	36	78
21	413	440	327	200	515	1410	112	359	275	171	32	80
22	353	475	267	170	654	1230	116	300	298	138	29	121
23	304	375	247	140	709	654	112	253	225	280	27	92
24	264	331	228	180	485	494	99	217	139	2720	24	63
25	233	303	232	300	485	417	94	197	106	1210	23	49
26	214	275	674	600	460	373	181	182	262	517	23	42
27	204	255	743	2020	413	331	194	161	192	353	28	90
28	188	259	420	1090	363	345	153	139	123	300	36	790
29	171	231	340	603	323	313	133	126	114	373	37	358
30	192	214	363	444	---	337	122	149	122	366	44	490
31	191	---	1270	362	---	347	---	226	---	334	39	---
TOTAL	8195	9903	11895	17873	20343	13078	7905	6877	3911	11500	2363	3649
MEAN	264	330	384	577	701	422	264	222	130	371	76.2	122
MAX	1970	1470	1270	3080	1770	1410	874	724	298	2720	259	790
MIN	73	106	203	140	243	168	94	89	56	52	23	19
CFSM	1.75	2.19	2.54	3.82	4.64	2.79	1.75	1.47	.86	2.46	.50	.81
IN.	2.02	2.44	2.93	4.40	5.01	3.22	1.95	1.69	.96	2.83	.58	.90

CAL YR 1975	TOTAL	176276	MEAN	483	MAX	4630	MIN	41	CFSM	3.20	IN	43.43
WTR YR 1976	TOTAL	117492	MEAN	321	MAX	3080	MIN	19	CFSM	2.13	IN	28.94

MONONGAHELA RIVER BASIN

03068800 SHAVERS FORK BELOW BOWDEN, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Aug. 1975 to current year.
 WATER TEMPERATURES: June 1975 to current year.
 TURBIDITY: June 1975 to current year.
 SUSPENDED SEDIMENT DISCHARGE: June 1975 to current year.

REMARKS.--Sediment samples taken twice daily and more frequently on rises.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 156 micromhos Mar. 31, 1976; minimum daily, 30 micromhos Mar. 28, 1976.
 WATER TEMPERATURES: Maximum daily, 26.0°C June 23, July 31, Aug. 26, 1975; minimum daily, 0.5°C Jan. 12, 1976.
 TURBIDITY: Maximum daily, 140 JTU Aug. 15, 1975; minimum daily, 1 JTU on many days.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 275 mg/L Aug. 15, 1975; minimum daily mean, 0 mg/L Aug. 30, 31, Sept. 1, 1976.
 SEDIMENT LOADS: Maximum daily, 1,750 tons (1,590 tonnes) Sept. 23, 1975; minimum daily, 0 tons (0 tonnes) Aug. 30, 31, Sept. 1, 1976.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--A specific conductance of 418 micromhos was observed Feb. 13, 1974. A water temperature of 25.0°C was observed Aug. 30, 31, 1973, Aug. 1, 1974. A turbidity of 45 JTU was observed Mar. 19, 1975.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 156 micromhos Mar. 31; minimum daily, 30 micromhos Mar. 28.
 WATER TEMPERATURES: Maximum daily, 24.5°C June 12; minimum daily 0.5°C Jan. 12.
 TURBIDITY: Maximum daily, 100 JTU Nov. 10, 11; minimum daily, 1 JTU on many days.
 SEDIMENT CONCENTRATIONS: Maximum daily mean, 205 mg/L Nov. 11; minimum daily mean, 0 mg/L Aug. 30, 31, Sept. 1.
 SEDIMENT LOADS: Maximum daily, 766 tons (695 tonnes) Oct. 18; minimum daily, 0 tons (0 tonnes) Aug. 30, 31, Sept. 1.

 SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	40	46	39	43	41	36	55	95	50	36	70
2	42	40	40	40	43	42	56	48	47	48	39	79
3	41	42	45	40	46	40	46	54	38	48	56	84
4	49	53	42	37	42	38	40	56	47	49	57	67
5	41	54	46	40	59	39	35	53	47	51	56	70
6	46	51	46	39	42	38	35	52	49	54	56	72
7	54	50	43	39	43	42	36	46	49	53	52	73
8	53	50	46	39	42	42	91	46	52	50	51	78
9	67	53	40	48	42	38	37	50	56	65	43	79
10	44	69	39	44	46	112	44	50	52	42	46	109
11	45	60	46	41	50	49	42	55	50	52	51	53
12	41	90	56	50	37	46	40	50	47	73	56	59
13	59	41	49	50	38	50	41	50	52	56	56	63
14	46	40	44	32	40	39	42	48	54	46	59	69
15	52	39	46	48	38	39	41	49	50	50	64	77
16	58	38	40	43	39	41	39	57	55	48	61	79
17	68	41	46	44	40	42	40	39	63	35	60	60
18	41	46	40	36	36	48	49	48	60	39	57	53
19	41	49	45	38	36	46	41	40	84	36	69	53
20	48	45	42	41	38	43	42	39	87	42	67	61
21	40	39	45	34	43	44	44	36	54	43	68	76
22	46	37	41	34	41	45	44	37	49	41	70	60
23	42	35	43	52	38	41	51	37	55	48	74	54
24	43	36	43	49	44	42	42	39	53	40	73	61
25	43	41	52	45	40	37	45	38	50	39	75	66
26	42	36	48	40	40	45	50	39	60	38	93	67
27	44	41	40	39	37	35	58	45	47	48	95	81
28	49	40	40	38	39	30	49	46	50	52	95	47
29	40	41	39	45	36	42	51	43	53	45	68	69
30	42	41	46	45	---	45	52	41	49	38	70	49
31	41	---	41	38	---	156	---	42	---	35	67	---
MONTH	47	46	44	42	41	48	45	46	55	47	63	68
YEAR	MAX	156	MIN	30	MEAN	49						

MONONGAHELA RIVER BASIN

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03068800 SHAVERS FORK BELOW BOWDEN, WV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	8.0	5.5	4.5	2.0	11.0	9.0	12.0	19.5	18.5	19.5	18.0
2	13.0	11.0	5.0	5.0	1.0	12.0	9.5	15.0	17.5	21.0	17.5	19.0
3	14.0	11.0	4.5	4.5	3.0	11.0	6.0	12.0	16.0	17.0	16.5	19.5
4	14.0	11.5	4.0	2.0	3.0	12.0	8.0	12.5	17.0	18.5	19.0	20.0
5	14.0	13.5	5.0	3.0	2.5	13.0	6.0	15.0	19.0	18.5	19.5	20.0
6	15.0	13.0	6.0	1.5	2.0	8.5	4.0	16.0	15.5	18.5	19.5	17.5
7	14.5	13.0	6.0	2.0	2.0	8.0	10.0	14.0	17.5	18.0	21.0	19.0
8	14.0	14.0	6.0	1.5	2.0	6.5	9.0	13.0	19.5	19.0	18.0	19.0
9	14.5	15.0	6.5	1.0	2.0	4.0	9.5	15.0	22.0	20.0	17.0	20.5
10	15.0	14.0	4.5	1.0	4.0	6.5	6.5	17.0	20.0	20.5	17.0	17.5
11	15.5	12.0	4.0	3.0	4.5	8.0	7.0	16.0	22.0	22.0	16.0	16.0
12	14.0	11.5	4.5	0.5	4.0	7.0	5.5	16.5	24.5	18.0	18.0	17.0
13	14.5	10.0	7.0	2.0	6.0	6.0	8.0	18.0	23.0	17.0	18.0	18.0
14	15.0	8.0	7.0	3.0	5.0	6.0	8.0	19.0	24.0	18.0	18.0	19.5
15	16.0	6.0	8.5	2.0	5.0	8.0	13.0	17.0	22.5	22.0	19.0	18.5
16	15.5	6.0	6.5	2.0	7.5	4.5	14.0	17.5	21.5	19.0	19.0	17.5
17	13.0	7.5	5.5	1.0	7.0	2.0	15.0	17.0	22.5	17.5	18.5	16.5
18	14.0	7.5	3.0	1.0	8.5	5.0	21.0	12.0	23.5	18.5	18.5	16.0
19	12.0	7.5	1.5	1.0	7.5	5.0	21.0	11.5	23.0	18.0	19.5	17.5
20	11.0	8.0	2.5	1.0	7.5	---	20.5	15.5	20.0	19.5	19.0	15.0
21	13.0	7.5	4.0	2.0	7.0	8.0	19.0	16.0	18.0	21.0	21.5	16.5
22	14.0	5.5	1.0	2.0	6.5	9.0	18.0	14.5	20.0	21.0	23.0	15.0
23	13.0	6.0	2.0	2.0	3.5	8.0	18.0	17.0	21.5	20.0	22.0	13.5
24	15.0	6.0	1.5	2.0	5.0	10.0	16.5	13.0	21.0	18.5	21.5	14.5
25	15.0	4.5	2.0	3.0	6.5	8.0	17.0	14.0	22.0	18.0	22.0	15.0
26	13.0	6.0	2.0	2.5	7.5	11.0	9.5	13.5	21.0	18.0	22.5	16.0
27	15.0	6.0	3.0	3.0	9.0	11.5	7.5	16.0	18.0	18.5	19.0	15.0
28	16.0	5.0	3.0	1.5	8.5	11.5	8.0	16.0	23.0	19.0	20.5	14.5
29	14.0	7.0	4.0	3.0	9.0	8.5	13.0	15.0	23.0	20.0	21.0	15.5
30	9.5	8.0	5.0	3.0	---	14.5	16.0	17.0	22.0	19.0	18.0	14.5
31	8.0	---	5.0	2.5	---	12.5	---	19.0	---	20.0	14.0	---
MONTH	14.0	9.0	4.5	2.0	5.0	8.5	12.0	15.0	20.5	19.0	19.0	17.0
YEAR	MAX	24.5	MIN	0.5	MEAN	12.0						

TURBIDITY (JTU), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1	1	3	20	1	2	2	5	4	3	3	1
2	2	1	1	2	1	2	5	3	5	2	2	2
3	2	1	2	5	1	2	4	3	2	1	2	1
4	2	4	2	6	1	2	4	2	1	1	2	1
5	1	2	4	2	7	2	2	2	1	1	2	1
6	1	2	3	2	6	2	2	2	2	1	2	1
7	3	2	3	2	3	2	2	1	2	1	2	1
8	3	2	4	2	1	2	2	2	2	1	1	1
9	15	2	3	2	2	1	2	2	2	10	1	1
10	1	100	2	2	3	7	2	2	1	3	1	20
11	15	100	30	2	10	---	1	2	2	4	1	3
12	3	75	4	2	7	3	1	2	2	40	1	1
13	5	10	6	2	5	4	2	3	2	20	1	4
14	2	3	2	4	5	4	2	2	2	6	1	2
15	4	2	3	5	7	2	2	1	2	6	3	2
16	3	1	5	2	4	15	2	6	1	45	2	6
17	20	3	4	2	5	9	2	20	3	15	2	5
18	6	4	1	2	6	4	1	10	2	5	1	8
19	1	3	2	2	20	2	1	10	6	3	1	3
20	4	3	1	2	4	---	1	2	8	2	1	2
21	2	2	1	1	2	8	6	2	5	2	1	7
22	1	3	3	1	4	5	5	4	6	2	1	2
23	1	2	1	1	4	3	2	2	20	10	1	2
24	1	1	2	6	2	2	2	3	20	50	1	2
25	1	1	2	2	2	2	4	3	6	7	1	2
26	1	1	7	10	2	2	4	4	5	3	1	1
27	1	2	4	10	2	3	2	1	30	2	10	6
28	2	2	2	5	3	2	2	1	4	15	3	20
29	1	1	2	2	2	3	3	2	3	4	1	3
30	1	1	9	2	---	2	3	2	2	7	1	6
31	1	---	15	2	---	5	---	3	---	4	1	---
MONTH	3	10	4	3	4	3	2	3	5	8	1	3
YEAR	MAX	100	MIN	1	MEAN	4						

MONONGAHELA RIVER BASIN

03068800 SHAVERS FORK BELOW BOWDEN, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	168	4	1.8	162	3	1.3	235	1	.63
2	159	6	2.6	148	2	.80	259	1	.70
3	156	8	3.4	137	2	.74	228	4	2.5
4	125	6	2.0	128	4	1.4	203	9	4.9
5	108	6	1.7	120	4	1.3	210	9	5.1
6	93	3	.75	114	3	.92	224	7	4.2
7	81	11	2.4	109	3	.88	367	5	5.0
8	73	6	1.2	106	2	.57	363	3	2.9
9	75	9	1.8	107	3	.87	315	2	1.7
10	86	12	2.8	106	75	21	315	3	2.6
11	263	9	6.4	208	205	115	287	46	36
12	231	14	8.7	408	175	193	271	8	5.9
13	149	9	3.6	1470	95	377	335	5	4.5
14	119	10	3.2	667	4	7.2	351	2	1.9
15	105	12	3.4	485	2	2.6	323	6	5.2
16	95	15	3.8	426	2	2.3	594	14	22
17	146	46	18	445	2	2.4	606	9	15
18	1970	144	766	480	5	6.5	450	2	2.4
19	775	20	42	480	3	3.9	413	4	4.5
20	491	11	15	435	2	2.3	435	3	3.5
21	413	7	7.8	440	2	2.4	327	2	1.8
22	353	3	4.8	475	2	2.6	267	1	.72
23	304	3	2.5	375	2	2.0	247	2	1.3
24	264	2	1.4	331	3	2.7	228	2	1.2
25	233	3	1.9	303	4	3.3	232	3	1.9
26	214	1	.58	275	4	3.0	674	27	49
27	204	1	.55	259	3	2.1	743	9	18
28	188	3	1.5	259	2	1.4	420	5	5.7
29	171	2	.92	231	1	.62	340	4	3.7
30	152	1	.52	214	1	.58	363	12	12
31	191	4	2.1	---	---	---	1270	60	206
TOTAL	8195	---	915.12	9903	---	762.68	11895	---	432.45

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3080	70	582	340	2	1.8	291	3	2.4
2	1110	9	27	295	2	1.6	267	3	2.2
3	947	7	18	243	4	2.6	247	5	3.3
4	1010	5	14	290	5	3.9	235	2	1.3
5	570	5	7.7	312	9	7.6	221	2	1.2
6	422	4	4.6	1190	17	55	211	2	1.1
7	395	3	3.2	728	9	18	191	2	1.0
8	400	4	4.3	484	1	1.3	168	3	1.4
9	300	5	4.1	400	2	2.2	172	3	1.4
10	210	4	2.3	353	3	2.9	171	10	4.6
11	250	3	2.0	1440	30	117	236	11	7.0
12	300	12	9.7	1110	16	48	253	4	2.7
13	270	14	10	898	10	24	596	3	4.8
14	720	11	21	1770	17	81	649	3	5.3
15	560	4	6.0	934	9	23	419	6	6.8
16	360	5	4.9	824	4	8.9	426	12	14
17	290	4	3.1	1340	14	51	581	15	24
18	230	4	2.5	1180	10	32	431	8	9.3
19	180	5	2.4	1110	13	39	468	5	6.3
20	160	9	3.9	695	5	9.4	594	10	16
21	200	3	1.6	515	5	7.0	1410	21	80
22	170	1	.46	654	8	14	1230	17	56
23	140	3	1.1	709	4	7.7	654	16	28
24	180	8	3.9	485	3	3.9	494	12	16
25	300	7	5.7	485	1	1.3	417	8	9.0
26	600	23	37	460	1	1.2	373	6	6.0
27	2020	32	175	413	6	6.7	331	6	5.4
28	1090	8	24	363	5	4.9	345	4	3.7
29	603	2	3.3	323	3	2.6	313	4	3.4
30	444	3	3.6	---	---	---	337	7	6.4
31	362	4	3.9	---	---	---	347	9	8.4
TOTAL	17873	---	992.26	20343	---	579.5	13078	---	338.4

03068800 SHAVERS FORK BELOW BOWDEN, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	456	8	4.8	129	7	2.4	176	2	.95
2	475	9	12	238	4	2.6	151	2	.82
3	457	11	14	237	5	3.2	184	2	.99
4	874	14	33	199	5	2.7	203	6	3.3
5	721	9	18	173	4	1.9	152	5	2.1
6	519	5	7.0	154	3	1.2	120	2	.65
7	422	7	4.0	147	2	.79	106	3	.86
8	360	4	3.9	149	3	1.2	96	3	.78
9	313	3	2.5	136	3	1.1	83	2	.45
10	276	5	3.7	118	2	.64	73	9	1.8
11	252	9	6.1	108	2	.58	65	17	3.0
12	236	7	4.5	113	5	1.5	58	5	.78
13	208	3	1.7	113	13	4.0	57	1	.15
14	189	2	1.0	98	5	1.3	65	1	.18
15	172	3	1.4	89	2	.48	61	1	.16
16	157	3	1.3	154	21	8.7	56	1	.15
17	143	3	1.2	571	26	40	66	1	.18
18	131	3	1.1	457	21	26	63	4	.68
19	118	4	1.3	724	15	29	82	15	3.3
20	110	4	1.2	461	9	11	138	14	5.2
21	112	5	1.5	359	7	6.8	275	18	13
22	116	9	2.8	300	6	4.9	298	17	14
23	112	6	1.8	253	5	3.4	225	20	12
24	99	5	1.3	217	4	2.3	139	23	8.6
25	94	3	.76	197	3	1.6	106	18	5.2
26	181	5	2.4	182	3	1.5	262	16	11
27	194	11	5.8	161	3	1.3	192	35	18
28	153	7	2.9	139	3	1.1	123	13	4.3
29	133	3	1.1	126	2	.68	114	4	1.2
30	122	7	2.3	149	2	.80	122	4	1.3
31	---	---	---	226	3	1.8	---	---	---
TOTAL	7905	---	155.36	6477	---	166.47	3911	---	115.08

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	96	5	1.3	259	3	2.1	30	0	0
2	79	7	1.5	192	2	1.0	32	1	.09
3	66	5	.89	152	2	.82	36	2	.19
4	58	4	.63	125	2	.68	42	4	.45
5	54	7	1.0	106	3	.86	36	3	.29
6	52	3	.42	93	4	1.0	29	4	.31
7	62	2	.33	95	3	.77	24	3	.19
8	73	3	.59	133	3	1.1	21	2	.11
9	116	12	3.8	157	1	.42	19	3	.15
10	139	4	1.5	111	1	.30	63	16	2.7
11	87	3	.70	89	1	.24	221	9	5.4
12	508	90	123	74	1	.20	91	8	2.0
13	334	32	29	61	1	.16	53	3	.43
14	181	6	2.9	55	1	.15	37	1	.10
15	193	8	4.2	64	3	.52	34	3	.28
16	573	64	99	65	3	.53	79	8	1.7
17	1140	48	148	62	3	.50	219	10	5.9
18	426	10	12	51	2	.28	217	7	4.1
19	281	3	2.3	41	1	.11	113	3	.92
20	216	3	1.7	36	1	.10	78	3	.63
21	171	3	1.4	32	1	.09	80	6	1.3
22	138	3	1.1	29	2	.16	121	2	.65
23	280	37	28	27	1	.07	92	2	.50
24	2720	63	463	24	1	.06	63	3	.51
25	1210	54	176	23	1	.06	49	4	.53
26	517	41	57	23	3	.19	42	7	.79
27	353	5	4.8	28	8	.60	90	26	6.3
28	300	7	5.7	36	4	.39	790	46	98
29	373	8	8.1	37	1	.10	358	19	18
30	366	7	6.9	44	0	0	490	17	22
31	334	6	5.4	39	0	0	---	---	---
TOTAL	11500	---	1192.16	2363	---	13.56	3649	---	174.52
YEAR 117492.0			5837.56						

MONONGAHELA RIVER BASIN

03068900 SHAVERS FORK NEAR ELKINS, WV

LOCATION.--Lat 38°57'58", long 79°46'02", Randolph County, Hydrologic Unit 05020004, at highway bridge, 0.6 mi (1.0 km) downstream from Johns Run, 5.2 mi (8.4 km) northeast of Elkins, and at mile 19.3 (31.1 km).

DRAINAGE AREA.--161 mi² (417 km²).

PERIOD OF RECORD.--Water years 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICHO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
DEC									
17...	1635	614	45	7.0	5.0	4	--	10	17
JAN									
29...	1525	717	40	6.8	2.0	2	12.0	14	27
MAR									
05...	1155	258	40	7.0	14.0	3	--	1	.70
11...	1000	267	51	7.0	6.0	1	10.0	6	4.3
APR									
08...	1330	423	40	7.0	12.0	2	10.0	6	6.9
16...	1115	780	46	6.7	16.0	1	--	3	6.3
22...	1250	138	52	7.0	19.5	4	9.4	5	1.9
MAY									
13...	1520	134	47	7.0	20.0	1	--	5	1.8
JUN									
10...	1115	83	50	7.0	21.0	2	6.6	2	.45
JUL									
08...	1455	83	48	7.0	20.5	2	--	2	.45
AUG									
06...	1030	107	44	7.0	20.5	1	7.8	2	.58
12...	1425	83	46	7.0	25.0	1	7.0	0	.00
20...	1510	33	56	7.0	25.0	1	7.0	0	.00
SEP									
03...	0910	29	65	7.0	18.0	1	--	0	.00
10...	1500	64	60	7.0	19.5	1	--	6	1.0
16...	1420	88	65	7.0	19.5	1	--	10	2.4
27...	1550	72	59	7.0	18.5	2	--	6	1.2

MONONGAHELA RIVER BASIN

93

03069000 SHAVERS FORK AT PARSONS, WV

LOCATION.--Lat 39°05'45", long 79°40'40", Tucker County, Hydrologic Unit 05020004, 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.

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

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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--52 years, 550 ft³/s (15.58 m³/s), 34.90 in/yr (886 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,560 ft³/s (186 m³/s) Jan. 1, gage height, 7.27 ft (2.216 m), no other peak above base of 5,300 ft³/s (150 m³/s); minimum, 17 ft³/s (0.48 m³/s) Aug. 24, gage height, 0.32 ft (0.098 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	194	225	4490	433	347	502	173	216	127	306	37
2	214	175	253	1700	375	318	717	260	183	109	224	36
3	208	162	244	1300	260	296	630	327	175	91	179	34
4	183	152	218	1530	300	278	1190	283	204	81	148	33
5	159	142	202	895	373	263	1050	253	183	70	125	42
6	141	135	221	597	1740	248	719	225	142	63	108	34
7	127	129	330	509	1270	231	548	208	121	61	117	26
8	117	126	423	498	684	211	445	196	112	78	114	22
9	122	121	353	375	506	213	377	185	100	98	164	19
10	131	128	339	244	425	221	331	165	88	151	137	47
11	234	133	321	296	1520	308	304	153	79	124	108	159
12	360	407	287	386	1790	407	282	147	70	336	89	153
13	239	1570	363	357	1070	559	250	144	69	475	75	83
14	191	860	451	972	2430	1000	230	133	85	234	63	54
15	166	547	401	835	1420	583	210	121	75	166	61	41
16	149	454	674	483	1040	526	195	125	73	405	72	48
17	172	458	893	394	1340	753	181	485	85	1160	65	103
18	1720	487	577	280	1530	590	166	480	81	549	62	283
19	1070	488	400	206	1300	628	152	893	90	328	50	161
20	598	444	308	200	923	762	141	592	192	247	40	106
21	472	415	328	248	656	1890	138	443	316	200	33	115
22	403	468	295	206	739	1900	148	354	342	170	29	110
23	341	383	233	168	1000	994	143	299	309	197	26	133
24	297	327	203	206	694	669	132	258	203	2360	23	91
25	264	298	209	380	621	528	126	227	166	1660	22	67
26	239	273	467	750	578	452	181	209	305	669	21	55
27	224	251	1190	2270	518	398	260	192	295	417	38	97
28	214	246	644	1580	443	395	224	167	185	323	35	643
29	194	231	455	907	388	393	193	151	138	359	35	485
30	195	208	439	633	---	368	174	152	152	371	35	357
31	220	---	1320	486	---	417	---	210	---	360	40	---
TOTAL	9596	10412	13266	24381	26366	17146	10339	8210	4834	12039	2644	3674
MEAN	310	347	428	786	909	553	345	265	161	388	85.3	122
MAX	1720	1570	1320	4490	2430	1900	1190	893	342	2360	306	643
MIN	117	121	202	168	260	211	126	121	69	61	21	19
CFSM	1.45	1.62	2.00	3.67	4.25	2.58	1.61	1.24	.75	1.81	.40	.57
IN.	1.67	1.81	2.31	4.24	4.58	2.98	1.80	1.43	.84	2.09	.46	.64

CAL YR 1975 TOTAL 215587 MEAN 591 MAX 4840 MIN 49 CFSM 2.76 IN 37.48
WTR YR 1976 TOTAL 142987 MEAN 390 MAX 4490 MIN 19 CFSM 1.82 IN 24.84

LOCATION.--Lat 39°07'20", long 79°40'50", Tucker County, Hydrologic Unit 05020004, 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).

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.--63 years, 1,679 ft³/s (47.55 m³/s), 31.76 in/yr (807 mm/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 10, 1888, reached a stage of 20.5 ft (6.25 m), discharge, 51,300 ft^3/s (1,450 m^3/s), from floodmarks, at site and datum in use prior to Aug. 17, 1944; it was not exceeded until a flood of Oct. 15, 1954, which reached a stage 0.3 ft (0.09 m) higher at that site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,200 ft³/s (487 m³/s) Jan. 1, gage height, 10.08 ft (3.072 m), no other peak above base of 16,000 ft³/s (450 m³/s); minimum, 57 ft³/s (1.61 m³/s) Sept. 9, gage height, 1.77 ft (0.539 m).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	584	506	590	13300	1490	1160	1850	475	526	279	582	89
2	531	464	625	6120	1340	1020	2190	994	543	244	441	87
3	506	430	577	4610	900	919	2110	961	479	213	342	94
4	435	408	524	5070	1000	822	4100	797	463	198	284	92
5	377	387	499	3160	1170	748	3550	664	380	188	242	96
6	338	367	531	2260	5820	708	2570	582	304	186	215	92
7	305	353	874	1880	4080	670	2000	541	292	211	234	78
8	283	348	983	1730	2610	563	1590	527	272	199	290	70
9	296	333	839	1230	1840	556	1290	479	235	213	329	61
10	338	333	848	831	1540	611	1090	423	207	259	270	170
11	708	367	780	974	4480	865	976	392	185	243	222	305
12	974	1070	700	1130	6220	1400	921	399	167	962	190	245
13	590	4360	1140	1010	4980	2090	784	375	164	1120	164	164
14	452	2580	1390	3010	9010	3000	692	340	196	487	145	117
15	387	1730	1140	2870	5360	2300	614	312	190	335	139	102
16	348	1460	2190	1800	4030	2030	561	366	272	917	167	128
17	550	1570	2400	1420	4180	2440	510	1030	283	2810	161	211
18	7230	1590	1700	993	4510	2160	464	1130	269	1550	145	358
19	4200	1490	1160	692	3760	2520	424	1900	459	845	125	226
20	2310	1320	970	660	2840	3230	397	1350	974	568	106	180
21	1770	1210	1030	800	1890	5090	410	975	1870	429	92	262
22	1370	1270	831	680	2300	6690	467	768	1650	360	85	372
23	1090	1030	620	600	3150	3370	444	637	995	725	78	270
24	910	883	560	660	2500	2380	388	543	600	4880	72	200
25	780	797	600	1050	2330	1910	366	491	463	3530	68	148
26	700	732	1540	2240	2010	1640	677	514	1110	1730	66	120
27	662	685	3720	6480	1860	1390	793	465	794	1050	176	200
28	611	708	2260	6400	1580	1570	633	388	465	754	148	1320
29	550	611	1590	3840	1380	1280	541	351	352	804	120	1050
30	563	550	1580	2500	---	1230	482	388	328	737	104	974
31	604	---	4760	1760	---	1280	---	582	---	670	96	---
TOTAL	31352	29942	39551	81760	90160	57642	33884	20139	15487	27696	5898	7881
MEAN	1011	998	1276	2637	3109	1859	1129	650	516	893	190	263
MAX	7230	4360	4760	13300	9010	6690	4100	1900	1870	4880	582	1320
MIN	283	333	499	600	900	556	366	312	164	186	66	61
CFSM	1.41	1.39	1.78	3.67	4.33	2.59	1.57	.91	.72	1.24	.26	.37
IN.	1.62	1.55	2.0									

MONONGAHELA RIVER BASIN

95

03069880 BUFFALO CREEK NEAR ROWLESBURG, WV

LOCATION---Lat 39°17'19", long 79°42'16", Preston County, Hydrologic Unit 05020004, 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.

REMARKS---Records fair except those for period of no gage-height record, Jan. 4 to Feb. 10, 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.

AVERAGE DISCHARGE---9 years, 30.5 ft³/s (0.864 m³/s), 33.9% in/yr (862 mm/yr).

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR---Maximum discharge 592 ft³/s (16.8 m³/s) Jan. 1, gage height, 3.23 ft (0.985 m), no other peak above base of 500 ft³/s (14 m³/s); minimum, 0.17 ft³/s (0.005 m³/s) Sept. 9, 10, gage height, 0.82 ft (0.250 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	8.7	27	233	31	17	61	18	7.5	5.3	11	.25
2	21	8.7	28	63	23	15	60	18	11	4.1	5.7	1.2
3	12	8.1	28	73	18	14	62	19	8.7	3.3	4.1	1.0
4	10	8.1	25	57	18	13	78	20	6.4	3.5	3.2	.53
5	8.6	7.5	22	43	22	12	51	20	5.2	2.7	2.6	.37
6	7.5	6.9	22	35	50	11	36	18	5.2	2.2	2.4	.27
7	6.8	6.9	48	29	35	10	27	17	5.2	2.4	9.7	.24
8	6.4	6.9	44	25	24	10	21	14	4.3	2.8	8.5	.21
9	8.0	6.9	36	19	18	10	18	12	3.6	2.7	6.3	.20
10	10	6.9	36	16	20	12	15	11	2.9	2.6	4.9	3.5
11	12	7.5	33	21	159	36	14	11	2.6	5.0	3.8	1.5
12	11	24	30	21	80	46	12	10	2.4	17	3.1	.69
13	9.0	69	56	19	67	62	11	8.6	3.6	7.9	2.5	.40
14	8.0	52	57	72	93	53	10	7.8	3.6	5.2	2.3	.29
15	7.2	37	49	45	58	39	9.7	7.6	2.2	4.3	7.4	.28
16	6.8	34	150	35	42	44	9.2	12	2.0	18	9.4	1.7
17	32	32	75	26	40	55	8.6	23	4.3	18	5.5	3.1
18	60	29	45	20	50	44	8.0	51	2.4	11	3.9	1.8
19	39	27	33	15	48	45	7.5	60	4.3	7.7	3.1	1.1
20	26	25	25	19	38	45	7.5	29	15	5.5	2.4	.89
21	21	25	21	16	30	145	7.5	20	12	4.3	1.9	1.9
22	18	23	18	13	37	94	8.5	15	8.1	4.3	1.6	1.5
23	16	21	15	12	40	46	7.6	10	5.2	5.6	1.3	.86
24	14	20	11	19	36	30	6.7	9.3	4.3	18	1.1	.58
25	13	19	13	30	30	25	7.1	8.1	9.3	24	.85	.45
26	12	17	120	60	26	20	42	6.9	18	13	.66	.39
27	10	19	90	90	23	19	39	5.2	12	8.6	.76	6.7
28	10	20	49	59	20	17	27	5.2	8.3	6.5	.85	11
29	9.8	19	35	44	18	16	22	5.2	6.2	5.2	.63	4.6
30	9.3	19	45	34	---	16	18	5.2	6.8	4.4	.39	5.9
31	9.3	---	152	29	---	19	---	4.7	---	5.7	.28	---
TOTAL	453.6	614.1	1438	1292	1194	1040	711.9	481.8	192.6	230.8	112.12	53.40
MEAN	14.6	20.5	46.4	41.7	41.2	33.5	23.7	15.5	6.42	7.45	3.62	1.78
MAX	60	69	152	233	159	145	78	60	18	24	11	11
MIN	6.4	6.9	11	12	18	10	6.7	4.7	2.0	2.2	.28	.20
CFSM	1.20	1.68	3.80	3.42	3.38	2.75	1.94	1.27	.53	.61	.30	.15
IN.†	1.38	1.87	4.38	3.94	3.64	3.17	2.17	1.47	.59	.70	.34	.16
IN.‡	2.02	1.96	5.11	2.04	3.12	3.91	2.02	3.31	4.56	4.43	1.83	5.09

CAL YR 1975 TOTAL 13537.00 MEAN 37.1 MAX 552 MIN 1.3 CFSM 3.04 IN.† 41.27
WTR YR 1976 TOTAL 7814.32 MEAN 21.4 MAX 233 MIN .20 CFSM 1.75 IN.† 23.83

† Runoff.
‡ Rainfall.

LOCATION.--Lat 39°20'50", long 79°40'00", Preston County, Hydrologic Unit 05020004, 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.

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.--53 years, 2,253 ft³/s (63.80 m³/s), 31.48 in/yr (800 mm/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,600 ft³/s (753 m³/s) Jan. 1, gage height, 9.53 ft (2.905 m), no other peak above base of 20,000 ft³/s (570 m³/s); minimum observed, 78 ft³/s (2.21 m³/s) Aug. 26, 27, Sept. 9, gage height, 0.64 ft (0.195 m).

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	866	748	902	20100	2240	1640	2440	759	818	446	759	114
2	759	630	979	9150	2090	1450	3300	1120	770	355	620	122
3	704	590	977	6110	1560	1300	3180	1480	748	302	454	111
4	630	551	892	7370	1770	1170	5160	1350	630	278	355	111
5	542	524	819	4710	1860	1090	5260	1160	560	255	296	108
6	488	497	842	3280	5770	994	3770	1010	470	245	260	108
7	438	479	1310	2620	6240	903	2890	916	422	250	308	111
8	398	470	1800	2410	3810	806	2300	854	383	260	398	94
9	390	454	1610	1960	2840	770	1910	759	348	266	369	81
10	446	446	1530	1270	2240	842	1610	693	296	296	376	100
11	671	446	1440	1530	7490	1160	1420	620	260	422	296	314
12	1330	650	1290	1860	9530	2060	1320	610	245	660	250	290
13	1030	4750	1720	1880	5680	2930	1160	560	255	1670	215	250
14	737	3930	2780	4700	10900	4390	1010	524	302	916	192	188
15	590	2730	2320	4370	7340	3200	890	470	278	533	210	145
16	533	2250	4050	2920	5180	2740	806	524	272	640	210	174
17	560	2190	4550	2280	5280	3300	737	890	398	2570	215	206
18	5580	2250	3100	1660	5940	2930	660	1800	390	2350	192	284
19	5750	2170	2240	980	5140	2940	610	2720	414	1350	174	278
20	3240	1980	1800	1120	4110	3490	551	2390	942	866	174	240
21	2510	1820	1710	1120	3100	6540	524	1720	2040	630	133	290
22	2090	1800	1460	1020	3140	8970	610	1320	2110	515	111	406
23	1710	1640	1190	890	4440	4870	630	1030	1560	454	100	314
24	1410	1390	1080	980	3410	3350	551	866	1020	3140	97	250
25	1190	1250	994	1720	3060	2640	515	737	806	4920	90	215
26	1050	1160	2410	4490	2870	2250	854	671	1350	2410	81	174
27	942	1070	5710	8880	2530	1940	1530	660	1440	1510	90	183
28	878	1070	3880	7540	2180	2010	1240	560	878	1050	235	770
29	762	1010	2720	4750	1890	1870	981	497	590	866	188	1590
30	737	904	2400	3370	---	1670	842	497	497	942	153	916
31	759	---	5850	2650	---	1750	---	580	---	806	133	---
TOTAL	39740	41849	66355	119690	123630	77965	49261	30347	21492	32173	7734	8537
MEAN	1282	1395	2140	3861	4263	2515	1642	979	716	1038	249	285
MAX	5750	4750	5850	20100	10900	8970	5260	2720	2110	4920	759	1590
MIN	390	446	819	890	1560	770	515	470	245	245	81	81
CFSM	1.32	1.44	2.20	3.97	4.39	2.59	1.69	1.01	.74	1.07	.26	.29
IN.	1.52	1.60	2.54	4.58	4.73	2.98	1.89	1.16	.82	1.23	.30	.33
CAL YR 1975	TOTAL	977335		2678	MAX	18300	MIN 153	CFSM 2.76	IN 37.40			
WTR YR 1976	TOTAL	617773	MEAN	1691	MAX	20100	CFSM 1.74	IN 23.68				

MONONGAHELA RIVER BASIN

97

03070500 BIG SANDY CREEK AT ROCKVILLE, WV

LOCATION.--Lat 39°37'15", long 79°42'20", Preston County, Hydrologic Unit 05020004, 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.

REVISED RECORDS.--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).

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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--63 years (water years 1910-17, 1922-76), 421 ft³/s (11.92 m³/s), 28.59 in/yr (726 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 10, 1888, reached a stage of about 20 ft (6.1 m), discharge, about 30,000 ft³/s (850 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,400 ft³/s (125 m³/s) Jan. 1, gage height, 10.11 ft (3.082 m), no peak above base of 4,800 ft³/s (140 m³/s); minimum, 14 ft³/s (0.40 m³/s) Sept. 15, gage height, 3.08 ft (0.939 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	168	119	167	3420	482	249	706	233	186	122	402	23
2	264	117	159	1620	350	222	854	258	616	91	207	27
3	223	112	149	1380	275	205	847	337	354	85	139	30
4	177	105	137	1640	300	282	1530	405	234	157	106	28
5	156	100	132	855	327	265	1220	335	177	98	87	26
6	139	94	157	621	847	242	854	282	157	73	92	23
7	122	94	464	525	637	209	640	301	152	71	665	19
8	110	110	408	522	538	197	503	285	122	189	819	18
9	134	105	397	300	460	197	410	240	101	541	484	16
10	200	117	571	250	419	205	338	215	86	244	323	20
11	222	177	492	320	2060	400	301	202	75	244	224	27
12	209	1110	420	320	1510	458	255	207	67	1150	170	25
13	178	1670	795	290	1070	914	215	166	60	584	136	19
14	159	904	950	1240	992	818	195	146	54	350	151	16
15	144	639	837	791	770	640	177	136	49	271	144	15
16	135	529	1470	627	991	557	160	319	46	539	170	20
17	315	449	1040	495	1310	498	145	835	254	472	120	31
18	1100	385	750	270	1180	410	131	1000	122	330	96	35
19	663	333	541	230	1110	464	121	933	73	224	80	33
20	520	297	466	336	846	450	115	651	187	170	67	27
21	430	316	389	280	656	1200	111	496	277	170	58	26
22	359	291	315	220	675	1310	188	373	279	283	52	24
23	302	233	220	190	661	813	167	290	151	239	48	21
24	251	211	190	250	561	618	131	235	112	292	44	18
25	218	205	210	500	498	518	154	210	242	260	39	16
26	209	186	904	1090	441	435	661	209	563	168	37	15
27	191	185	1280	1640	380	389	513	166	289	131	38	31
28	168	181	823	1110	326	422	381	136	187	115	38	129
29	152	148	626	807	283	339	301	125	139	113	38	72
30	146	145	869	633	---	325	247	128	131	104	33	82
31	130	---	2390	523	---	313	---	116	---	118	26	---
TOTAL	7896	9667	18718	22895	20955	14564	12571	9970	5542	7998	5133	912
MEAN	255	322	604	739	723	470	419	322	185	258	166	30.4
MAX	1100	1670	2390	3420	2060	1310	1530	1000	616	1150	819	129
MIN	110	94	132	190	275	197	111	116	46	71	26	15
CFSM	1.28	1.61	3.02	3.70	3.62	2.35	2.10	1.61	.93	1.29	.83	.15
IN.	1.47	1.80	3.48	4.26	3.90	2.71	2.34	1.85	1.03	1.49	.95	.17
CAL YR 1975 TOTAL	190595.2	MEAN 522	MAX 4710	MIN 8.2	CFSM 2.61	IN 35.45						
WTR YR 1976 TOTAL	136821.0	MEAN 374	MAX 3420	MIN 15	CFSM 1.87	IN 25.45						

LOCATION.--Lat 39°43'15", long 79°51'20", Fayette County, Hydrologic Unit 05020004, at the Lake Lynn hydroelectric plant of the West Penn Power Company at Lake Lynn, 3.0 mi (4.8 km) upstream from mouth.

PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: October 1948 to September 1957, October 1958 to current year (partial record).

COOPERATION.--Records were furnished by the West Penn Power Company.

EXTREMES FOR PERIOD OF DAILY RECORD. --

WATER TEMPERATURES (Water years 1949-57): 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.

[illegible]

WHEELING CREEK BASIN

99

03112000 WHEELING CREEK AT ELM GROVE, WV

LOCATION.--Lat 40°02'40", long 80°39'40", Ohio County, Hydrologic Unit 05030106, 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.

REVISED RECORDS.--WSP 1305: 1941(M).

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

REMARKS.--Records good. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--36 years, 328 ft³/s (9.289 m³/s), 15.80 in/yr (401 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,220 ft³/s (148 m³/s) Jan. 1, gage height, 5.79 ft (1.765 m), no peak above base of 6,000 ft³/s (170 m³/s); minimum, 6.1 ft³/s (0.17 m³/s) Sept. 15, 16, gage height, 1.26 ft (0.384 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	133	183	3490	603	225	1070	109	86	27	92	13
2	600	128	176	1740	544	210	1180	135	170	28	82	13
3	473	127	167	1840	452	200	1080	162	105	24	51	11
4	356	122	154	1520	488	672	900	135	71	21	35	11
5	280	114	147	945	473	438	712	109	51	18	29	9.6
6	230	107	154	664	549	338	560	102	40	18	49	9.6
7	196	104	288	632	480	280	459	102	33	24	314	8.6
8	174	107	300	600	445	255	374	99	29	89	350	7.7
9	203	105	292	338	410	240	314	86	29	260	245	7.7
10	241	139	357	275	473	240	275	79	25	142	166	13
11	253	166	329	296	1710	285	255	73	22	544	127	9.6
12	217	1150	287	320	1390	296	230	73	19	2940	102	8.6
13	183	1630	487	560	991	488	205	68	18	738	82	7.7
14	162	822	641	3100	854	480	186	62	18	290	73	6.9
15	148	545	1020	1360	695	404	178	62	16	154	92	6.1
16	145	410	2050	975	881	362	162	73	29	154	166	11
17	529	326	1140	726	3120	326	154	105	35	135	99	54
18	2690	269	753	466	2280	265	139	142	57	116	62	49
19	1250	232	471	404	2150	275	131	131	44	82	44	27
20	790	213	431	445	1200	255	123	99	496	62	33	21
21	571	218	364	445	830	1290	123	79	186	46	25	18
22	441	203	294	418	738	1210	302	65	112	42	22	13
23	359	170	261	389	576	729	250	57	62	59	19	12
24	291	155	200	428	452	544	178	51	46	200	18	9.6
25	249	153	210	599	398	473	162	54	59	154	15	8.6
26	223	144	2370	1160	350	404	170	62	73	82	37	9.6
27	202	150	1760	2220	314	368	146	54	65	54	62	68
28	183	144	1010	1450	275	356	127	46	44	44	42	135
29	170	125	713	1060	245	290	112	44	38	51	24	76
30	161	132	676	832	---	275	105	46	33	95	19	73
31	145	---	1200	689	---	296	---	49	---	79	15	---
TOTAL	12400	8543	18885	30386	24366	12769	10362	2613	2111	6772	2591	727.9
MEAN	400	285	609	980	840	412	345	84.3	70.4	218	83.6	24.3
MAX	2690	1630	2370	3490	3120	1290	1180	162	496	2940	350	135
MIN	145	104	147	275	245	200	105	44	16	18	15	6.1
CFSM	1.42	1.01	2.16	3.48	2.98	1.46	1.22	.30	.25	.77	.30	.09
IN.	1.64	1.13	2.49	4.01	3.21	1.68	1.37	.34	.28	.89	.34	.10
CAL YR 1975 TOTAL	199953.3			MEAN 548	MAX 8330	MIN 7.7	CFSM 1.94	IN 26.38				
WTR YR 1976 TOTAL	132525.9			MEAN 362	MAX 3490	MIN 6.1	CFSM 1.28	IN 17.48				

LITTLE GRAVE CREEK BASIN

03113700 LITTLE GRAVE CREEK NEAR GLENDALE, WV

LOCATION.--Lat 39°57'50", long 80°42'04", Marshall County, Hydrologic Unit 05030106, 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.

REMARKS.--Records good except those for periods Mar. 9 to May 17 and May 20 to Sept. 20 below 4.0 ft³/s (0.11 m³/s), which are poor. 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.

AVERAGE DISCHARGE.--7 years, 6.83 ft³/s (0.193 m³/s), 18.66 in/yr (474 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,400 ft³/s (39.6 m³/s) July 11, 1976, gage height, 7.00 ft (2.134 m), from rating curve extended above 30 ft³/s (0.85 m³/s) on basis of slope-area measurements at gage-heights of 6.43 ft (1.960 m) and 7.00 ft (2.134 m); no flow July 30, 31, Aug. 3, 4-14, Sept. 4, 5, 8-10, 28, 29, 1973, Aug. 23-27, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 140 ft³/s (4.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 13	2015	151 4.28	2.37 0.722	July 11	1945	*1400 39.6	7.00 2.134
Mar. 3	2230	244 6.91	3.32 1.012				

Minimum daily discharge, 0.14 ft³/s (0.004 m³/s) Sept. 9, 15.

* From rating curve extended as explained above.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	2.6	5.5	39	21	4.0	19	2.0	9.7	.43	2.2	.34
2	6.7	2.6	4.3	21	13	3.3	14	2.8	1.4	.38	1.5	.40
3	4.7	2.6	4.0	29	11	39	11	2.5	1.1	.32	.97	.33
4	4.0	2.3	3.6	19	9.7	27	9.1	2.0	.88	.28	.70	.25
5	4.0	1.8	3.3	12	9.7	15	8.0	1.7	.70	.25	.52	.20
6	3.3	1.8	4.3	8.8	39	11	7.0	1.4	.53	.24	.90	.17
7	2.8	1.8	4.7	6.3	3.3	9.7	6.2	1.7	.48	11	27	.16
8	3.0	1.8	4.3	1.3	1.8	8.4	5.4	1.5	.46	17	7.2	.15
9	4.3	1.6	5.5	5.2	1.6	7.3	4.8	1.4	.41	2.0	6.7	.14
10	4.0	4.7	6.7	4.8	13	6.8	4.5	1.4	.34	4.9	5.1	.44
11	3.3	3.3	6.3	7.0	28	7.0	4.2	1.3	.29	69	3.5	.37
12	3.0	30	5.9	11	14	6.6	3.9	1.2	.24	36	2.8	.24
13	2.8	17	16	54	12	13	3.6	1.1	.23	9.3	2.0	.17
14	2.8	11	12	44	9.7	8.0	3.3	.96	.21	1.8	1.5	.15
15	2.6	8.8	27	16	5.9	6.8	3.1	.96	.19	4.7	5.2	.14
16	2.6	7.2	26	14	5.5	6.0	2.9	1.2	.58	8.0	2.8	.20
17	31	5.9	16	13	38	5.1	2.7	2.2	.42	5.5	2.0	2.6
18	32	4.7	11	10	35	4.5	2.5	2.8	.23	5.1	1.5	2.0
19	16	4.3	9.3	7.2	31	4.0	2.4	2.6	3.2	4.7	1.2	1.0
20	12	4.3	8.4	14	19	3.9	2.2	2.2	9.3	3.6	.95	.81
21	10	4.7	8.0	8.0	16	25	2.3	1.6	1.4	1.6	.80	.52
22	8.4	4.0	6.3	6.4	17	17	5.2	1.2	.95	2.0	.70	.42
23	7.2	3.3	5.0	5.2	12	10	3.6	.90	.70	23	.67	.34
24	5.9	3.0	3.7	5.9	9.3	7.7	3.0	1.0	.88	3.3	.64	.28
25	5.5	3.0	4.3	11	7.6	6.9	2.8	1.1	1.1	2.3	.57	.28
26	4.3	2.8	38	39	6.3	6.2	2.5	.90	.82	1.1	23	.34
27	4.0	3.3	21	39	5.5	6.0	2.2	.77	.62	.68	8.4	5.5
28	3.6	3.0	14	24	4.7	5.6	1.9	.63	.50	.69	2.0	2.6
29	3.3	2.8	12	17	4.3	5.0	1.8	.87	.43	.81	.96	1.3
30	3.0	3.3	13	14	---	4.7	1.7	.98	.40	1.7	.68	2.8
31	2.8	---	19	12	---	5.8	---	.73	---	1.2	.52	---
TOTAL	209.2	153.3	328.4	518.1	403.9	296.3	146.8	45.60	38.69	222.88	115.18	24.64
MEAN	6.75	5.11	10.6	16.7	13.9	9.56	4.89	1.47	1.29	7.19	3.72	.82
MAX	32	30	38	54	39	39	19	2.8	.69	69	27	5.5
MIN	2.6	1.6	3.3	1.3	1.6	3.3	1.7	.63	.19	.24	.52	.14
CFSM	1.36	1.03	2.13	3.36	2.80	1.92	.98	.30	.26	1.45	.75	.16
IN.†	1.57	1.15	2.46	3.88	3.02	2.22	1.10	.34	.29	1.67	.86	.18
IN.‡	2.72	2.41	3.71	2.10	2.34	4.13	1.03	1.93	2.36	3.16	3.20	2.40
CAL YR 1975 TOTAL	3289.69											
WTR YR 1976 TOTAL	2502.99											
MEAN	9.01											
MAX	69											
MIN	.12											
CFSM	1.81											
IN.†	24.62											
IN.‡	18.73											

† Runoff.
‡ Rainfall.

MIDDLE ISLAND CREEK BASIN

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03114500 MIDDLE ISLAND CREEK AT LITTLE, WV

LOCATION.--Lat 39°28'30", long 80°59'50", Tyler County, Hydrologic Unit 05030201, 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 1916, October 1916 to September 1922 (gage heights only), 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.

REMARKS.--Records good except those for periods of doubtful-or-no gage-height record, Aug. 20 to Sept. 28, which are poor.

AVERAGE DISCHARGE.--49 years, 630 ft³/s (17.84 m³/s), 18.68 in/yr (474 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1875 reached a stage of about 33.5 ft (10.21 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 9,000 ft³/s (250 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)	Date	Time	Discharge (ft ³ /s)	(m ³ /s)	Gage height (ft)	(m)
Nov. 13	0600	10600	300	14.04	4.279	Jan. 1	1700	12000	340	14.92	4.548
Dec. 26	2100	9590	272	13.28	4.048	July 24	1500	*14200	402	16.74	5.102

Minimum daily, 10 ft³/s (0.28 m³/s) Sept. 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	122	293	10600	732	237	1670	191	86	135	221	16
2	1060	112	420	4820	1000	218	2470	268	92	7	176	22
3	904	104	332	2230	820	200	2560	368	152	90	137	19
4	447	92	276	2720	700	188	1510	447	164	68	108	17
5	300	86	230	1480	625	179	910	388	111	53	92	16
6	227	83	296	810	1820	167	595	312	86	43	86	15
7	182	83	2530	740	1700	152	456	279	66	86	84	14
8	153	82	1450	510	976	140	376	356	57	570	304	16
9	132	81	738	700	700	132	320	328	53	545	344	18
10	140	83	760	580	650	143	279	272	35	308	218	19
11	585	121	726	650	904	221	248	230	20	308	149	24
12	856	3520	545	800	1150	470	230	206	16	3150	108	22
13	456	7920	540	1500	862	1220	209	191	76	1130	99	17
14	313	1580	506	6700	760	1430	191	167	182	408	88	13
15	239	776	625	2480	675	695	173	149	97	251	102	13
16	200	535	2550	1250	625	496	164	143	51	282	146	18
17	1090	408	1680	922	1100	429	152	1030	37	760	282	25
18	6460	336	814	690	3030	352	140	1090	116	515	182	24
19	1810	279	506	600	2790	328	126	940	149	293	116	21
20	790	240	400	690	1310	356	113	630	218	191	96	22
21	532	224	352	530	690	1970	121	388	293	146	68	24
22	404	230	304	400	575	4800	1190	282	268	1160	52	17
23	327	212	258	350	506	1090	660	218	182	1040	41	13
24	267	185	230	392	429	625	368	176	118	12100	33	11
25	226	167	221	1260	384	478	279	146	104	4420	27	10
26	202	158	6420	2090	348	420	293	129	814	748	30	10
27	187	149	4790	3220	320	368	465	111	474	408	68	12
28	179	143	1400	2430	286	368	304	97	244	442	40	27
29	164	132	798	1450	262	320	240	86	155	844	25	176
30	149	126	798	1090	---	290	209	76	161	496	20	215
31	134	---	2870	874	---	290	---	72	---	300	18	---
TOTAL	19670	18369	34658	55958	26729	18772	17021	9766	4677	31387	3560	886
MEAN	635	612	1118	1805	922	606	567	315	156	1012	115	29.5
MAX	6460	7920	6420	10600	3030	4800	2560	1090	814	12100	344	215
MIN	132	81	221	350	262	132	113	72	16	43	18	10
CFSM	1.39	1.34	2.44	3.94	2.01	1.32	1.24	.69	.34	2.21	.25	.06
IN.	1.60	1.49	2.82	4.55	2.17	1.52	1.38	.79	.38	2.55	.29	.07

CAL YR 1975	TOTAL	378285.9	MEAN	1036	MAX	14700	MIN	6.9	CFSM	2.26	IN	30.73
WTR YR 1976	TOTAL	241493.0	MEAN	660	MAX	12100	MIN	10	CFSM	1.44	IN	19.61

MIDDLE ISLAND CREEK BASIN

03114650 BUFFALO RUN NEAR LITTLE, WV

LOCATION.--Lat 39°29'13", long 81°00'27", Tyler County, Hydrologic Unit 05030201, 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.

REVISED RECORDS.--WRD WV, 1972: 1971(P). WRD WV, 1974: 1971-73(P).

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

REMARKS.--Records good. 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.

AVERAGE DISCHARGE.--7 years, 6.17 ft³/s (0.175 m³/s), 19.90 in/yr (505 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,280 ft³/s (64.6 m³/s) June 23, 1974, gage height, 12.31 ft (3.752 m), from floodmark, from rating curve extended above 150 ft³/s (4.25 m³/s) on basis of computations of flow through culvert and flow-over-road measurement of peak flow; minimum daily discharge, 0.01 ft³/s (<0.001 m³/s) Sept. 5-19, 22-30, Oct. 1-31, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 200 ft³/s (5.7 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 17	1600	455 12.9	6.64 2.024	Jan. 13	2030	318 9.01	5.61 1.710
Nov. 12	0815	344 9.74	5.79 1.765	July 11	2200	589 16.7	7.67 2.338
Dec. 26	0100	341 9.66	5.77 1.759	July 24	0700	*928 26.3	10.04 3.060
Dec. 31	2215	497 14.1	6.96 2.121				

Minimum daily discharge, 0.10 ft³/s (0.003 m³/s) Sept. 24.

* From rating curve extended as explained above.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	1.0	4.5	6.2	4.0	2.2	1.9	.70	2.5	.42	1.2	.26
2	.75	.95	3.4	9.8	4.8	2.1	14	.75	.70	.30	.90	.26
3	.48	.85	3.0	35	4.1	1.9	21	.85	.40	.26	.65	.26
4	.39	.80	2.7	13	3.5	1.8	9.8	.70	.29	.24	.57	.26
5	.39	.75	2.5	9.0	3.2	1.8	4.6	.65	.24	.18	.48	.24
6	.39	.70	30	6.9	9.2	1.7	3.6	.57	.22	.16	.57	.20
7	.45	.70	19	5.5	5.5	1.5	2.8	.85	.22	1.3	1.0	.17
8	.45	.75	7.3	4.6	4.0	1.5	2.4	.65	.18	3.3	1.1	.15
9	.61	.70	7.6	4.0	3.3	1.6	2.1	.54	.18	1.4	.65	.14
10	.85	1.1	8.4	3.7	3.0	1.8	1.9	.51	.16	.65	.57	.25
11	.75	.95	5.7	3.4	5.9	2.5	1.9	.45	.16	35	.48	.20
12	.57	95	4.5	7.0	4.3	2.2	1.6	.42	.16	17	.48	.17
13	.48	16	7.6	52	3.8	7.6	1.5	.39	.26	2.3	.39	.14
14	.45	6.6	6.3	35	3.4	3.4	1.4	.39	.22	1.6	.39	.13
15	.45	4.5	47	7.3	3.0	2.7	1.3	.42	.16	1.1	1.4	.12
16	.57	3.6	24	5.2	4.0	2.7	1.3	.54	.26	1.4	1.0	.17
17	75	3.1	4.6	4.5	26	2.2	1.1	.75	.57	1.4	.42	.25
18	27	2.7	2.2	4.2	29	2.2	1.1	1.4	.30	.90	.34	.20
19	7.0	2.5	1.6	3.9	14	2.2	1.0	.75	.30	.65	.32	.17
20	4.5	2.4	1.4	4.9	5.5	2.7	1.1	.51	.85	.54	.30	.15
21	3.6	2.7	.85	6.0	4.0	5.8	2.1	.42	.54	2.8	.30	.13
22	3.0	2.5	.75	4.4	5.7	6.6	5.2	.34	.34	2.7	.30	.12
23	2.5	2.3	.66	3.3	4.5	3.6	1.4	.30	.26	92	.30	.11
24	2.2	2.3	.60	5.6	3.6	2.8	1.1	.32	.22	132	.30	.10
25	1.9	2.3	4.5	10	3.3	2.8	.90	.30	2.8	9.0	.30	.11
26	1.7	2.1	90	35	2.8	2.3	.90	.24	1.0	3.1	.28	.30
27	1.6	2.3	11	30	2.7	3.4	.85	.22	.45	1.6	.28	1.8
28	1.5	2.3	4.6	8.4	2.5	2.7	.70	.22	.30	10	.28	.65
29	1.4	2.1	2.8	5.7	2.4	2.4	.65	.18	.26	4.8	.28	.36
30	1.3	2.4	21	4.8	---	2.2	.57	.26	1.1	1.9	.26	.42
31	1.1	---	73	4.0	---	14	---	.65	---	1.3	.26	---
TOTAL	143.78	168.95	403.06	402.1	175.0	149.1	108.87	16.24	15.60	331.30	16.35	7.99
MEAN	4.64	5.63	13.0	13.0	6.03	4.81	3.63	.52	.52	10.7	.53	.27
MAX	75	95	90	62	29	58	21	1.4	2.8	132	1.4	1.8
MIN	.39	.70	.60	3.3	2.4	1.5	.57	.18	.16	.16	.26	.10
CFSM	1.10	1.34	3.09	3.09	1.43	1.14	.86	.12	.12	2.54	.13	.06
IN.†	1.27	1.49	3.56	3.55	1.55	1.32	.96	.14	.14	2.93	.14	.07
IN.‡	---	2.75	4.83	2.20	2.66	3.10	2.57	2.52	5.38	10.51	0.05	2.61

CAL YR 1975 TOTAL 2974.67 MEAN 8.15 MAX 139 MIN .05 CFSM 1.94 IN.† 26.28
WTR YR 1976 TOTAL 1938.34 MEAN 5.30 MAX 132 MIN .10 CFSM 1.26 IN.† 17.12

† Runoff.
‡ Rainfall.

OHIO RIVER MAIN STEM

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03150800 OHIO RIVER NEAR MARIETTA, OH

LOCATION.--Lat 39°23'21", long 81°29'03", Washington County, Hydrologic Unit 05030202, 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.

REMARKS.--Records published as a stage control station. Corps of Engineers gage-height telemeter at station.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 31.79 ft (9.690 m) Feb. 19; minimum, 14.79 ft (4.508 m) June 7.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.75	16.12	16.26	24.26	18.98	20.39	18.32	15.52	15.33	16.02	15.48	15.57
2	16.89	16.22	16.47	25.34	18.47	19.78	19.52	15.70	16.19	15.50	15.79	15.53
3	17.08	15.56	16.68	23.93	17.73	19.44	20.06	15.91	16.05	15.38	15.94	15.72
4	16.34	16.09	16.62	22.37	17.34	19.80	19.38	15.75	15.54	15.55	15.48	15.92
5	16.12	16.02	16.12	21.53	16.66	22.03	18.61	16.13	15.26	15.39	15.55	15.84
6	15.89	15.94	16.45	20.33	16.94	21.81	18.40	16.14	15.23	15.37	15.73	15.93
7	16.15	15.73	16.80	19.17	17.53	20.47	18.17	15.77	14.92	15.84	15.65	15.53
8	15.76	16.01	16.80	19.11	17.00	19.89	17.28	16.06	15.70	15.70	16.23	15.56
9	16.02	15.83	17.79	18.20	16.59	19.38	16.97	15.50	15.82	16.08	16.41	15.95
10	16.01	16.00	17.37	16.80	16.45	18.97	16.32	15.74	15.26	15.91	15.98	16.02
11	16.35	16.33	17.35	16.40	17.97	18.78	16.04	15.59	15.15	15.49	15.80	15.66
12	16.27	17.25	17.84	16.52	19.11	19.38	15.59	15.61	15.26	21.10	15.94	15.50
13	15.86	19.37	16.98	16.72	20.05	19.18	15.95	15.48	15.58	18.06	15.87	15.81
14	15.76	18.68	16.69	20.50	19.89	19.32	15.61	15.64	15.70	17.00	16.08	15.67
15	16.19	17.38	17.07	21.07	20.05	18.74	15.94	15.76	15.82	16.17	16.23	15.48
16	15.99	16.88	19.54	19.68	19.98	18.63	15.76	15.72	15.26	15.69	16.01	15.85
17	16.12	16.63	21.16	18.83	22.71	18.02	15.80	15.63	15.33	16.33	15.75	15.69
18	22.31	16.24	20.80	17.80	27.81	18.18	15.70	16.12	15.79	16.13	15.73	16.02
19	22.84	16.36	19.00	16.38	31.47	17.80	15.53	15.96	15.54	15.86	15.96	15.59
20	21.14	16.36	18.28	16.23	30.00	17.84	15.53	16.32	16.04	15.63	15.55	16.00
21	19.22	16.23	17.64	16.55	27.40	19.23	15.69	15.85	15.55	15.90	15.52	15.72
22	18.73	16.49	17.15	15.94	25.90	21.31	15.83	15.98	15.21	15.84	15.61	15.67
23	18.62	16.02	16.64	15.57	24.31	21.46	15.77	16.02	15.81	16.21	15.47	15.96
24	17.89	15.68	16.37	15.46	24.65	20.04	16.03	15.54	15.42	17.00	15.41	15.91
25	17.31	16.14	15.88	15.93	24.29	19.06	15.68	15.46	15.85	17.04	15.72	15.55
26	16.64	16.29	18.01	17.14	23.33	18.12	16.02	15.52	16.01	16.30	15.74	15.96
27	16.36	15.98	20.77	21.47	22.65	17.44	15.83	15.30	16.03	15.83	15.95	16.21
28	16.55	15.72	20.45	22.98	21.98	17.05	16.26	15.39	15.57	16.19	15.74	15.94
29	16.43	15.80	19.13	22.11	21.25	16.74	15.78	15.22	15.32	15.92	15.65	15.79
30	15.90	16.14	18.42	20.86	---	16.77	15.80	15.32	15.88	15.84	15.66	15.79
31	16.32	---	19.53	20.17	---	17.11	---	15.19	---	15.77	16.03	---
MEAN	17.16	16.38	17.81	19.20	21.33	19.10	16.64	15.70	15.58	16.19	15.80	15.78
MAX	22.84	19.37	21.16	25.34	31.47	22.03	20.06	16.32	16.19	21.10	16.41	16.21
MIN	15.76	15.56	15.88	15.46	16.45	16.74	15.53	15.19	14.92	15.37	15.41	15.48

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

LITTLE KANAWHA RIVER BASIN

03151400 LITTLE KANAWHA RIVER NEAR WILDCAT, WV

LOCATION.--Lat 38°44'00", long 80°31'23", Braxton County, Hydrologic Unit 05030203, on right bank on State Secondary Route 24/1, 200 ft (61 m) upstream from footbridge at Gregory, 3.9 mi (6.2 km) west of Wildcat, and at mile 138.6 (223.1 km).

DRAINAGE AREA.--112 mi² (290 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 850.00 ft (259.080 m) above mean sea level.

REMARKS.--Records good except those for period of no gage-height record, Mar. 11 to Apr. 21, which are poor. Corps of Engineers gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,130 ft³/s (117 m³/s) June 2, 1974, gage height, 10.48 ft (3.194 m); minimum, 1.6 ft³/s (0.045 m³/s) Aug. 4, 5, 1975, gage height, 3.87 ft (1.180 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s (62 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 1	0730	2690 76.2	9.19 2.801	July 24	0815	*3040 86.1	9.34 2.847
Mar. 21	Unknown	2410 68.3	a8.90 2.713				

Minimum discharge, 3.3 ft³/s (.093 m³/s) Aug. 27, 28, gage height, 3.93 ft (1.198 m).

a From maximum stage indicator

DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCTOBER 1977 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	28	70	2010	290	115	740	50	24	54	52	4.9
2	13	26	70	270	446	103	640	77	28	35	39	57
3	24	24	112	550	310	93	700	91	31	24	30	61
4	20	22	102	502	250	83	550	124	26	19	24	26
5	15	21	98	358	235	74	440	119	19	16	19	16
6	13	19	98	250	1090	75	300	103	14	15	18	12
7	11	19	255	205	735	66	250	93	12	15	60	9.5
8	10	20	270	215	422	61	200	82	11	15	55	7.5
9	10	20	204	177	286	82	160	68	9.5	266	37	6.3
10	30	21	199	205	215	168	130	58	8.7	119	28	38
11	239	27	167	240	405	440	110	52	7.5	71	21	63
12	119	171	151	410	522	370	100	54	6.3	518	17	30
13	71	545	144	382	365	320	49	44	6.3	230	15	18
14	48	271	138	1140	310	270	79	37	9.1	115	16	13
15	35	164	138	618	262	210	70	34	6.7	74	18	11
16	27	135	401	378	232	160	65	51	6.3	295	24	11
17	117	126	431	258	236	150	60	90	18	1040	19	13
18	266	119	284	153	250	140	55	258	18	288	14	13
19	127	105	174	119	239	150	51	709	14	145	11	11
20	43	90	143	159	201	190	48	334	273	90	9.1	10
21	79	92	122	135	171	1100	48	198	234	63	7.9	10
22	69	95	101	119	239	1000	47	137	183	52	6.3	11
23	38	80	79	113	354	700	44	99	115	564	5.5	11
24	49	73	66	156	318	450	39	77	66	2190	4.9	9.1
25	41	69	72	322	258	280	38	63	64	968	4.5	7.5
26	37	61	807	426	211	190	63	51	224	326	3.9	6.7
27	35	58	642	538	177	150	69	41	119	174	3.6	52
28	31	63	408	570	150	160	54	34	71	117	3.4	307
29	27	53	278	422	130	140	50	29	46	90	5.9	147
30	28	52	246	322	---	140	47	28	54	74	6.7	207
31	32	---	395	250	---	180	---	29	---	64	5.5	---
TOTAL	1785	2669	6902	12775	9332	7815	5336	3314	1724.4	8126	584.7	1199.5
MEAN	57.6	89.0	223	406	322	252	178	107	57.5	262	18.9	40.0
MAX	266	545	807	2010	1090	1100	740	709	273	2190	60	307
MIN	10	19	66	113	130	61	38	28	6.3	15	3.6	4.9
CFSM	.51	.79	1.99	3.63	2.88	2.25	1.59	.96	.51	2.34	.17	.36
IN.	.59	.89	2.29	4.18	3.10	2.60	1.77	1.10	.57	2.70	.19	.40
CAL YR 1975 TOTAL	82654.0		MEAN 226	MAX 1800	MIN 1.8	CFSM 2.02	IN 27.45					
WTR YR 1976 TOTAL	61362.0		MEAN 168	MAX 2190	MIN 3.6	CFSM 1.50	IN 20.38					

LITTLE KANAWHA RIVER BASIN

105

03151600 LITTLE KANAWHA RIVER AT BURNSVILLE, WV

LOCATION.--Lat 38°51'55", long 80°40'32", Braxton County, Hydrologic Unit 05030203, on right bank 70 ft (21 m) upstream from Buffalo Creek, 1.0 mi (1.6 km) northwest of Burnsville, 1.4 mi (2.3 km) downstream from Oil Creek, and at mile 119.5 (192.3 km).

DRAINAGE AREA.--248 mi² (642 km²).

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (226 m), from topographic map.

REMARKS.--Records good. Some regulation from five floodwater-detention reservoirs affecting 49.5 mi² (128.2 km²) and by Burnsville Reservoir at mile 123.9 (199.4 km). Corps of Engineers gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,890 ft³/s (195 m³/s) June 2, 1974, gage height, 16.32 ft (4.974 m); minimum daily, 3.2 ft³/s (0.091 m³/s) Aug. 4, 1975.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 4,220 ft³/s (120 m³/s) Jan. 1, gage height, 11.86 ft (3.615 m); minimum daily, 6.2 ft³/s (0.18 m³/s) Aug. 26, 27, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	26	119	3340	852	192	1510	74	52	60	96	7.9
2	27	67	106	2200	1150	164	1450	104	54	64	79	14
3	28	43	74	1710	792	145	1490	187	61	50	65	33
4	34	39	233	1330	630	130	1300	219	56	44	51	30
5	34	37	216	894	500	118	1020	206	47	36	42	21
6	29	34	251	411	948	112	650	181	37	32	37	16
7	24	34	540	124	1160	99	460	169	31	29	90	12
8	22	35	527	206	987	87	350	149	27	27	128	9.5
9	21	35	365	119	469	130	270	121	23	30	91	7.9
10	132	40	399	74	115	570	227	99	22	200	67	9.5
11	505	50	405	117	385	922	198	88	20	132	52	22
12	419	323	301	433	674	841	189	82	19	271	42	31
13	208	876	258	924	1130	753	160	77	18	406	37	24
14	86	738	234	1900	1160	579	136	65	16	195	34	19
15	26	545	222	1690	734	428	124	58	14	124	42	15
16	24	338	586	1420	470	362	113	142	14	153	48	13
17	405	248	699	1100	475	367	104	370	13	900	44	12
18	948	206	558	615	1010	329	94	1080	39	600	37	11
19	645	176	359	264	626	358	86	1300	132	248	34	11
20	346	149	257	214	459	400	80	882	278	149	29	11
21	132	136	213	233	358	1870	79	490	384	108	22	10
22	32	158	173	264	354	1910	85	305	292	99	16	8.4
23	85	142	132	211	505	1520	77	216	198	858	11	7.9
24	171	117	108	424	519	1150	70	158	134	2200	9.5	8.4
25	158	108	157	666	449	666	62	122	105	1750	7.9	7.9
26	110	94	1990	798	370	470	73	96	200	1230	6.2	7.3
27	67	91	1280	1100	312	370	98	79	250	570	6.2	24
28	58	88	1120	1220	260	379	93	65	170	203	7.3	423
29	52	76	912	1070	224	358	79	56	120	174	6.8	300
30	49	108	660	894	---	358	73	51	80	128	6.2	275
31	59	---	1030	672	---	446	---	52	---	110	8.4	---
TOTAL	5063	5161	14484	26637	18077	16583	10800	7343	2906	11180	1252.5	1401.7
MEAN	163	172	467	859	623	535	360	237	96.9	361	40.4	46.7
MAX	948	876	1990	3340	1160	1910	1510	1300	384	2200	128	423
MIN	21	26	74	74	115	87	62	51	13	27	6.2	7.3
CFSM	.66	.69	1.88	3.46	2.51	2.16	1.45	.96	.39	1.46	.16	.19
IN.	.76	.77	2.17	4.00	2.71	2.49	1.62	1.10	.44	1.68	.19	.21

CAL YR 1975 TOTAL 160860.7 MEAN 441 MAX 3280 MIN 3.2 CFSM 1.78 IN 24.13
WTR YR 1976 TOTAL 120888.2 MEAN 330 MAX 3340 MIN 6.2 CFSM 1.33 IN 18.13

LITTLE KANAWHA RIVER BASIN

03152000 LITTLE KANAWHA RIVER AT GLENVILLE, WV

LOCATION.--Lat 38°56'00", long 80°50'20", Gilmer County, Hydrologic Unit 05030203, 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.

REVISED RECORDS.--WSP 783: Drainage area. WSP 1305: 1930, 1932(M). WSP 1435: 1954. WSP 1555: 1947(M).

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.

REMARKS.--Records good. Some regulation since 1968 from five floodwater detention reservoirs affecting 49.5 mi² (128.2 km²), and since 1974 by Burnsville Reservoir at mile 123.9 (199.4 km). National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--48 years, 598 ft³/s (16.94 m³/s), 21.04 in/yr (534 mm/yr).

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 16, 1926, reached a stage of 33.6 ft (10.24 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,630 ft³/s (188 m³/s) Jan. 1, gage height, 22.10 ft (6.736 m), backwater; minimum, 13 ft³/s (0.37 m³/s) Oct. 6, gage height, 1.78 ft (0.543 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	50	124	6170	996	278	2500	114	67	89	125	17
2	44	42	166	4030	1800	240	2140	145	92	82	107	22
3	43	71	117	2560	1130	216	2370	233	178	66	85	37
4	43	54	216	2190	793	194	1780	340	99	53	68	83
5	46	48	150	1250	596	178	1250	295	72	44	57	59
6	31	44	305	744	805	168	823	253	58	38	50	41
7	40	42	846	368	1470	154	581	265	49	37	50	32
8	31	55	730	440	900	138	461	250	41	34	145	26
9	49	57	539	348	500	147	363	206	37	50	131	22
10	74	61	515	270	281	572	313	168	32	268	94	25
11	594	76	566	250	470	1470	270	147	30	172	70	24
12	548	166	428	607	754	1200	248	136	28	243	57	43
13	305	1170	363	877	1300	1080	222	122	34	521	50	53
14	178	884	338	2810	1940	891	194	110	26	320	55	39
15	80	646	333	2310	1280	658	174	98	25	196	52	30
16	36	440	1120	1810	772	548	162	235	21	204	60	25
17	268	298	1020	1400	619	524	148	996	21	1010	59	23
18	1550	228	772	649	1580	479	138	1500	20	922	50	21
19	804	194	518	350	1200	488	127	2400	18	443	43	20
20	488	166	365	300	763	524	119	1080	55	224	36	19
21	203	150	293	340	566	2970	117	572	288	142	31	20
22	104	154	226	310	497	3710	138	373	293	174	27	19
23	63	156	160	250	563	2070	138	263	214	1770	25	18
24	194	135	140	350	616	1460	117	198	148	3720	22	17
25	156	123	140	561	572	881	108	152	116	2700	20	17
26	131	117	3900	1130	494	593	117	128	300	1650	17	17
27	122	113	2320	1650	425	491	127	107	333	932	15	62
28	92	110	1470	1830	360	449	136	89	186	358	17	410
29	75	95	1130	1490	315	431	123	76	113	250	21	392
30	71	114	842	1210	---	419	113	70	105	178	19	245
31	05	---	1210	905	---	455	---	67	---	138	18	---
TOTAL	6566	6059	21366	40559	24423	24076	15617	11188	3099	17028	1676	1878
MEAN	212	202	689	1308	842	777	521	361	103	549	54.1	62.6
MAX	1530	1170	3900	6170	1940	3710	2500	2400	333	3720	145	410
MIN	29	42	117	250	281	138	108	67	18	34	15	17
CFSM	.55	.52	1.78	3.39	2.18	2.01	1.35	.94	.27	1.42	.14	.16
IN.	.03	.58	2.06	3.91	2.35	2.32	1.51	1.08	.30	1.64	.16	.18

CAL YR 1975 TOTAL 239491.6 MEAN 656 MAX 5790 MIN 9.6 CFSM 1.70 IN 23.03
WTR YR 1976 TOTAL 173535.0 MEAN 474 MAX 6170 MIN 15 CFSM 1.23 IN 16.72

LITTLE KANAWHA RIVER BASIN

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03152200 BUCK RUN NEAR LEOPOLD, WV

LOCATION.--Lat 39°07'26", long 80°41'26", Doddridge County, Hydrologic Unit 05030203, 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.

REMARKS.--Records good. Rainfall records collected at site from December 1969 to July 1973, April 1975, and since October 1975 are contained in files of U.S. Geological Survey with only monthly totals published in this report.

AVERAGE DISCHARGE.--7 years, 4.40 ft³/s (0.125 m³/s), 20.53 in/yr (521 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 493 ft³/s (14.0 m³/s) June 1, 1974, gage height, 5.24 ft (1.597 m), from rating curve extended above 50 ft³/s (1.42 m³/s) on basis of culvert rating computation; minimum, no flow part of each day Aug. 24, 25, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 110 ft³/s (3.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 25	2400	189 5.35	3.39 1.033	Mar. 21	1100	114 3.23	2.85 0.869
Dec. 31	2215	*278 7.87	3.99 1.216	July 23	0845	251 7.11	3.82 1.164

No flow part of each day Aug. 24, 25.

* From rating curve extended as explained above.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	.50	1.6	5.5	12	.91	13	1.4	5.2	.25	.57	.04
2	2.0	.50	1.7	1.0	11	.81	21	2.1	2.9	.15	.34	.15
3	1.5	.44	1.7	1.9	5.2	.81	14	7.2	1.0	.11	.25	.10
4	.80	.44	1.3	1.5	2.9	.72	7.2	4.0	.57	.11	.18	.07
5	.60	.39	1.1	6.5	3.2	.81	3.7	2.3	.39	.11	.13	.06
6	.40	.39	12	3.4	1.5	.72	2.5	1.7	.34	.10	.18	.05
7	.40	.34	15	2.5	6.8	.64	1.7	2.5	.34	.13	.57	.04
8	.35	.39	6.2	3.2	4.3	.64	1.4	1.7	.21	4.0	.44	.02
9	5.2	.34	4.6	2.7	2.3	.81	1.0	1.3	.18	3.2	.39	.01
10	11	1.0	7.5	2.7	2.1	4.3	.91	1.0	.13	.72	.21	.12
11	5.4	3.2	5.9	7.8	12	9.8	.81	.91	.11	4.6	.18	.07
12	1.8	4.2	4.0	1.5	7.2	5.9	.81	.72	.11	11	.13	.05
13	1.1	13	3.4	1.8	12	15	.72	.57	.11	1.3	.11	.04
14	1.6	6.2	3.2	2.0	13	8.4	.64	.50	.10	.39	.18	.02
15	2.3	3.7	14	8.8	7.5	5.2	.64	.57	.07	.91	.91	.02
16	2.5	2.5	17	8.2	5.9	4.0	.57	9.1	.25	8.1	.44	.02
17	2.9	1.7	7.2	3.2	11	2.5	.50	11	.44	4.9	.21	.06
18	1.0	1.6	4.3	1.7	13	1.9	.44	14	.13	1.1	.11	.06
19	5.2	1.3	2.5	1.4	7.8	1.9	.34	11	.13	.50	.06	.05
20	2.9	1.1	2.1	1.6	4.9	1.7	.34	5.2	2.7	.34	.05	.06
21	2.3	1.4	1.7	1.7	3.4	44	.34	2.9	.91	7.2	.04	.07
22	2.1	1.1	1.6	1.4	3.7	12	.64	1.6	.50	11	.02	.07
23	1.6	1.0	1.0	1.0	2.9	6.2	.57	.91	.34	51	.02	.05
24	1.1	.91	1.0	6.1	2.5	3.4	.50	.81	.15	25	.01	.04
25	.91	.91	14	13	2.1	2.7	.72	.72	.44	4.9	.01	.04
26	1.0	.81	54	14	1.9	2.1	2.3	.64	.57	1.4	.01	.04
27	.91	.91	13	28	1.6	1.7	1.3	.50	.25	.64	.04	7.8
28	.81	.81	8.4	12	1.3	1.4	.81	.39	.13	10	.72	4.3
29	.81	.72	6.2	8.1	1.1	1.1	.64	.39	.11	6.2	.15	.81
30	.72	.81	8.4	6.8	---	1.1	.57	.39	.64	1.7	.09	9.1
31	.57	---	48	4.6	---	2.1	---	.72	---	.91	.05	---
TOTAL	99.54	90.41	273.6	300.4	179.6	145.27	80.61	88.74	19.45	161.97	6.85	23.43
MEAN	3.21	3.01	8.83	9.69	6.19	4.69	2.69	2.86	.65	5.22	.22	.78
MAX	2.9	4.2	54	53	15	44	21	14	5.2	51	.91	9.1
MIN	.10	.34	1.0	1.0	1.1	.64	.34	.39	.07	.10	.01	.01
CFSM	1.10	1.03	3.03	3.33	2.13	1.61	.92	.98	.22	1.79	.08	.27
IN.†	1.27	1.16	3.50	3.84	2.30	1.86	1.03	1.13	.25	2.07	.09	.30
IN.‡	3.41	1.95	4.84	2.72	1.95	1.97	0.80	4.05	2.93	7.74	2.24	3.69

CAL YR 1975 TOTAL 2153.78 MEAN 5.90 MAX 72 MIN .01 CFSM 2.03 IN.† 27.52
WTR YR 1976 TOTAL 1469.91 MEAN 4.00 MAX 54 MIN .01 CFSM 1.38 IN.† 18.78

† Runoff.

‡ Rainfall.

LITTLE KANAWHA RIVER BASIN

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03153500 LITTLE KANAWHA RIVER AT GRANTSVILLE, WV

LOCATION.--Lat 38°55'20", long 81°05'50", Calhoun County, Hydrologic Unit 05030203, 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.

REVISED RECORDS.--WSP 1275: 1929(M), 1932-36.

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.

REMARKS.--Records good. Some regulation since 1968 from five floodwater detention reservoirs affecting 49.5 mi² (128.2 km²), and since 1974 by Burnsville Reservoir at mile 123.9 (199.4 km).

AVERAGE DISCHARGE.--48 years, 1,334 ft³/s (37.78 m³/s), 19.84 in/yr (504 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,800 ft³/s (561 m³/s) Jan. 1, gage height, 31.34 ft (9.552 m); minimum, 31 ft³/s (0.88 m³/s) Sept. 22, gage height, 6.26 ft (1.908 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	134	274	16300	1840	555	3650	255	138	242	321	41
2	100	120	449	12000	3420	494	4050	437	164	178	261	43
3	100	96	454	4510	2380	452	4590	657	448	150	208	67
4	130	126	342	4740	1700	417	3180	987	307	120	165	81
5	120	108	419	2690	1320	388	2290	740	194	94	132	136
6	100	98	382	1670	1730	371	1650	578	142	82	109	114
7	84	92	1820	1110	2560	343	1210	521	114	82	102	80
8	69	94	1840	1230	2150	308	931	531	92	76	113	62
9	78	124	1230	1000	1500	310	754	437	81	88	200	51
10	296	142	1120	780	990	764	618	364	72	190	216	50
11	1670	164	1200	690	1100	3120	546	315	64	358	162	49
12	1090	748	982	2140	2100	2840	509	290	59	964	123	55
13	659	3600	797	2220	2000	2310	457	260	59	824	98	49
14	421	1920	736	5060	3040	2220	405	226	57	580	98	83
15	299	1250	705	4140	2460	1630	367	205	60	358	192	71
16	192	888	3000	2860	1710	1300	339	234	52	540	238	57
17	600	637	2710	2050	1450	1180	312	1850	50	2300	197	47
18	3600	484	1670	1950	3250	979	287	1970	52	1470	153	41
19	1720	406	1110	860	3090	932	264	4560	45	760	116	37
20	900	354	815	710	1870	952	243	2430	66	439	88	34
21	608	327	680	825	1360	4960	232	1220	217	307	73	34
22	412	315	570	710	1160	9470	240	716	469	484	60	32
23	268	313	400	600	1120	3740	276	496	346	1960	52	33
24	204	290	330	800	1110	2460	261	382	277	6360	45	33
25	293	258	330	2090	1040	1810	232	302	227	4700	41	36
26	260	239	7570	2450	927	1350	343	250	568	2310	37	34
27	205	228	7040	3720	826	1060	390	208	552	1500	33	92
28	200	220	2910	4080	721	901	309	180	394	796	40	1120
29	176	213	2070	2940	631	808	276	156	257	771	62	973
30	102	201	1640	2380	---	773	242	142	200	989	68	644
31	146	---	2300	1930	---	786	---	132	---	412	50	---
TOTAL	19432	14189	47895	91235	50555	49983	29453	22031	5823	30084	3853	4279
MEAN	495	473	1545	2943	1743	1612	982	711	194	970	124	143
MAX	3600	3600	7570	16300	3420	9470	4590	4560	568	6360	321	1120
MIN	69	92	274	600	631	308	232	132	45	76	33	32
CFSM	.55	.52	1.69	3.22	1.91	1.77	1.09	.78	.21	1.06	.14	.16
IN.	.63	.58	1.95	3.72	2.06	2.04	1.20	.90	.24	1.23	.16	.17

CAL YR 1975 TOTAL 516644 MEAN 1415 MAX 12700 MIN 23 CFSM 1.55 IN 21.05
WTR YR 1976 TOTAL 364812 MEAN 997 MAX 16300 MIN 32 CFSM 1.09 IN 14.66

LITTLE KANAWHA RIVER BASIN

03154000 WEST FORK LITTLE KANAWHA RIVER AT ROCKSDALE, WV

LOCATION.--Lat 38°50'48", long 81°13'26", Calhoun County, Hydrologic Unit 05030203, on right bank on State Route 11, 850 ft (259 m) downstream from Henry Fork at Rocksdale, 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 September 1975 (monthly discharge only for some periods, published in WSP 1305), October 1975 to current year (gage heights only).

REVISED RECORDS.--WSP 953: 1929-31, 1938(M), 1939. WSP 1275: 1950.

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.

REMARKS.--Records good except those for periods of no gage-height record.

AVERAGE DISCHARGE.--41 years (water years 1929-31, 1938-75), 258 ft³/s (7.307 m³/s), 17.09 in/yr (434 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 21.05 ft (6.416 m) Jan. 1; minimum gage height recorded, 3.14 ft (0.957 m) Aug. 23, but may have been less during period of no gage-height record Aug. 24 to Sept. 30.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.28	4.38	5.38	18.37	6.91	4.93	8.17	4.55	4.22	4.45	4.92	
2	4.32	4.33	5.71	9.19	7.53	4.86	7.83	5.09	4.30	4.24	4.56	
3	4.37	4.31	5.40	8.64	6.55	4.81	7.62	5.53	4.38	4.02	4.25	
4	4.31	4.28	5.18	8.69	6.14	4.77	6.82	5.43	4.34	3.91	4.08	
5	4.21	4.24	5.01	6.93	5.88	4.73	6.22	5.05	4.18	3.84	3.97	
6	4.13	4.22	5.12	6.24	6.93	4.73	5.88	4.84	4.05	3.79	3.92	
7	4.07	4.22	7.18	6.04	6.69	4.65	5.65	5.01	3.96	3.83	3.99	
8	4.06	4.28	6.43	6.83	6.32	4.58	5.43	5.03	3.90	3.90	4.49	
9	4.00	4.49	5.94	6.19	6.02	4.72	5.24	4.81	3.85	3.92	4.26	
10	4.31	4.48	5.99	6.04	5.79	6.30	5.10	4.68	3.82	3.95	4.10	
11	5.81	4.73	5.83	6.07	7.02	8.68	5.05	4.60	3.79	3.91	---	
12	5.45	7.12	5.59	7.88	6.90	7.43	5.03	4.57	3.78	7.30	---	
13	4.98	8.95	5.41	7.34	6.50	7.27	4.87	4.46	4.01	5.46	---	
14	4.71	6.60	5.23	10.01	6.26	6.65	4.80	4.38	3.81	4.71	---	
15	4.52	5.97	5.23	7.54	5.99	6.20	4.75	4.34	3.74	4.34	---	
16	4.39	5.57	6.86	6.72	5.89	6.00	4.71	4.61	3.73	5.10	---	
17	7.07	5.26	6.48	6.32	6.19	5.88	4.67	4.96	3.81	6.17	---	
18	10.31	5.02	5.93	5.69	10.00	5.59	4.62	5.84	3.71	5.14	4.28	
19	6.34	4.86	5.46	5.51	7.82	5.50	4.55	7.09	3.67	4.62	4.10	
20	5.61	4.75	5.31	5.55	6.62	5.42	4.51	5.71	3.92	4.33	3.98	
21	5.25	4.82	5.19	5.54	6.14	12.10	4.49	5.18	4.38	4.16	3.89	
22	5.01	4.90	5.00	5.39	6.00	10.18	4.56	4.90	4.33	4.15	3.82	
23	4.83	4.73	4.82	5.32	5.76	7.12	4.53	4.69	4.14	5.11	3.73	
24	4.67	4.63	4.75	6.11	5.49	6.37	4.43	4.54	4.01	6.02	---	
25	4.54	4.59	4.91	6.92	5.35	6.11	4.40	4.42	3.97	5.29	---	
26	4.49	4.56	13.73	7.17	5.25	5.93	4.78	4.33	4.54	4.74	---	
27	4.49	4.53	8.83	9.56	5.17	5.72	4.66	4.25	4.58	4.40	---	
28	4.48	4.54	7.09	8.31	5.07	5.53	4.50	4.17	4.19	4.22	---	
29	4.43	4.49	6.39	7.29	5.00	5.34	4.42	4.21	4.00	4.17	---	
30	4.44	4.56	6.15	6.82	---	5.34	4.37	4.20	3.98	4.21	---	
31	4.43	---	8.33	6.51	---	5.48	---	4.26	---	4.62	---	
MEAN	4.92	4.95	6.12	7.31	6.32	6.09	5.22	4.83	4.04	4.58	---	
MAX	10.31	8.95	13.73	18.37	10.00	12.10	8.17	7.09	4.58	7.30	---	
MIN	4.06	4.22	4.75	5.32	5.00	4.58	4.37	4.17	3.67	3.79	---	

LITTLE KANAWHA RIVER BASIN

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03154250 TANNER RUN AT SPENCER, WV

LOCATION.--Lat 38°48'11", long 81°21'58", Roane County, Hydrologic Unit 05030203, 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.

REMARKS.--Records good except those for periods of no gage-height record, Mar. 21 to Apr. 20, 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.

AVERAGE DISCHARGE.--7 years, 4.10 ft³/s (0.116 m³/s), 19.74 in/yr (501 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 180 ft³/s (5.1 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 25	2300	268 7.59	4.13 1.259	July 12	0030	399 11.3	4.65 1.417
Dec. 31	2115	*496 14.0	4.93 1.503	Aug. 28	1130	258 7.31	4.09 1.247
Mar. 21	a0800	375 10.6	a4.55 1.387				

Minimum discharge, 0.05 ft³/s (0.001 m³/s) Sept. 23-26, minimum gage height, 1.36 ft (0.415 m) Sept. 25, 26.

* From rating curve extended above 100 ft³/s (2.83 m³/s).

a Estimated.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.31	8.9	52	10	.63	20	1.5	1.4	.19	5.0	1.6
2	1.4	.30	3.2	12	5.3	.63	10	1.0	.47	.10	1.4	7.8
3	.25	.29	1.9	23	3.4	.63	8.0	5.3	.47	.10	.63	2.1
4	.46	.27	1.4	12	2.4	.63	6.0	1.4	.30	.10	.40	1.1
5	.36	.26	1.1	5.6	2.8	.63	4.0	1.2	.16	.09	.19	.63
6	.28	.25	8.5	5.0	9.7	.55	3.0	.91	.10	.09	.26	.40
7	.28	.24	12	5.0	4.7	.47	2.1	2.1	.08	.19	.72	.19
8	1.0	.23	4.2	11	3.6	.47	1.6	1.1	.07	.30	.40	.19
9	3.6	.23	3.2	4.2	2.6	1.8	1.3	.91	.07	.16	.19	.26
10	4.7	.25	3.2	3.4	2.2	7.4	1.1	.72	.07	.10	.19	1.6
11	4.0	.27	2.4	12	16	16	1.0	.72	.07	1.2	.10	.30
12	1.1	18	1.9	11	6.8	7.1	.93	.55	.07	21	.10	.19
13	.41	6.2	1.6	15	4.7	13	.80	.40	.07	.63	.91	.16
14	.21	3.4	1.4	16	3.8	6.2	.76	.30	.07	.22	1.0	.10
15	.12	2.1	5.0	7.4	3.2	4.2	.68	.34	.07	.13	3.0	.10
16	.11	1.5	13	5.9	2.8	3.6	.64	1.1	1.8	2.6	1.1	.10
17	33	1.1	5.0	4.2	4.2	2.8	.61	1.4	.34	1.2	.40	.10
18	10	.91	3.0	2.8	13	2.4	.56	2.6	.10	.30	.19	.10
19	6.0	.72	2.4	2.2	5.9	2.2	.50	1.6	.26	.13	.10	.10
20	3.5	.63	1.9	2.6	3.6	2.2	.47	.81	2.4	.08	.10	.09
21	2.5	1.1	1.5	2.8	2.8	128	.47	.55	.55	.19	.09	.08
22	1.4	.72	1.2	2.4	2.4	20	.63	.40	.40	3.4	.07	.07
23	.80	.55	.81	2.0	1.8	8.9	.40	.30	.19	6.8	.07	.06
24	.54	.47	.91	8.2	1.4	4.0	.30	.19	.10	3.4	.06	.05
25	.47	.40	22	8.9	1.2	3.1	.34	.19	2.1	2.1	.06	.05
26	.42	.40	46	12	1.1	2.8	.63	.10	1.1	.91	.06	.05
27	.41	.72	13	21	1.0	2.4	.34	.10	.26	.40	.08	20
28	.40	.47	6.8	7.7	.81	2.1	.30	.10	.10	.30	26	8.9
29	.34	.55	4.7	6.5	.81	1.7	.26	1.5	.10	.19	4.0	2.1
30	.33	3.6	6.2	5.9	---	1.8	.19	.81	1.4	2.1	1.2	2.8
31	.32	---	73	4.4	---	6.0	---	.19	---	8.5	.55	---
TOTAL	79.79	46.44	261.32	296.1	124.02	254.34	67.91	30.89	14.74	57.20	48.62	51.37
MEAN	2.57	1.55	8.43	9.55	4.28	8.20	2.26	1.00	.49	1.85	1.57	1.71
MAX	33	18	73	52	16	128	20	5.3	2.4	21	26	20
MIN	.11	.23	.81	2.0	.81	.47	.19	.10	.07	.08	.06	.05
CFSM	.91	.55	2.99	3.39	1.52	2.91	.80	.35	.17	.66	.56	.61
IN.†	1.05	.61	3.45	3.90	1.64	3.35	.90	.41	.19	.75	.64	.68
IN.‡	3.06	2.01	4.42	2.57	1.87	2.51	---	2.61	2.87	5.52	3.30	4.10

CAL YR 1975 TOTAL 1729.09 MEAN 4.74 MAX 73 MIN .02 CFSM 1.68 IN.† 22.80
WTR YR 1976 TOTAL 1332.74 MEAN 3.64 MAX 128 MIN .05 CFSM 1.29 IN.† 17.57

† Runoff.
‡ Rainfall.

LITTLE KANAWHA RIVER BASIN

03154500 REEDY CREEK NEAR REEDY, WV

LOCATION.--Lat 38°57'40", long 81°23'25", Wirt County, Hydrologic Unit 05030203, on left bank 0.2 mi (0.3 km) downstream from Roundbottom 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.

REVISED RECORDS--WSP 1385: 1952-53(P).

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

REMARKS.--Records good.

AVERAGE DISCHARGE.--25 years, 94.7 ft³/s (2.682 m³/s), 16.20 in/yr (411 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s (62 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 26	1000	2280 64.6	9.26 2.822	July 12	0300	2250 63.7	9.60 2.926
Jan. 1	0900	*2970 84.1	10.54 3.213				

Minimum discharge, 1.50 ft³/s (0.042 m³/s) Sept. 26, 27, gage height, 2.31 ft (0.704 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	10	318	2050	224	24	522	15	74	27	180	7.6
2	33	9.2	131	350	204	22	268	36	120	13	48	84
3	36	9.2	76	741	104	21	209	96	64	8.4	21	55
4	17	8.8	50	420	92	20	143	72	26	6.5	14	20
5	13	8.4	37	167	87	20	98	37	14	4.6	11	11
6	11	8.0	120	118	262	20	74	28	9.2	4.0	10	8.4
7	9.6	8.0	419	110	162	17	57	68	6.5	4.2	13	6.1
8	8.8	8.4	164	355	117	16	42	55	4.6	6.1	22	4.6
9	25	8.4	110	167	90	19	34	35	3.6	7.6	16	3.6
10	106	9.2	105	110	78	74	29	27	3.1	4.6	11	6.5
11	106	12	85	131	167	299	27	25	2.3	17	8.8	14
12	41	930	66	335	147	163	26	25	2.2	1320	7.2	7.2
13	21	393	53	320	109	317	22	20	2.2	88	5.7	4.2
14	16	150	48	690	96	182	21	17	5.3	28	124	3.3
15	13	94	110	226	78	108	19	16	5.0	16	417	2.9
16	12	62	438	159	80	88	18	19	3.4	255	180	2.9
17	468	42	180	135	106	78	17	37	4.0	322	55	2.7
18	520	32	105	82	290	63	14	46	3.3	66	24	2.3
19	129	26	61	63	187	61	13	57	3.1	25	16	2.3
20	80	24	51	74	108	53	12	33	198	15	12	2.5
21	65	25	45	77	80	1050	12	21	78	12	10	2.5
22	36	26	34	65	78	377	50	17	22	35	8.4	2.2
23	23	21	25	59	64	154	30	13	12	337	7.2	2.2
24	17	18	23	155	48	98	20	10	8.4	196	6.1	1.9
25	15	17	70	233	42	86	18	9.2	74	158	5.0	1.7
26	14	17	1590	284	36	78	20	7.6	143	48	4.6	1.6
27	14	17	425	678	33	66	18	6.5	27	22	4.0	380
28	13	18	233	318	28	57	16	5.3	13	16	6.9	482
29	11	17	148	218	26	42	14	7.2	8.8	13	150	78
30	11	25	198	187	---	44	13	44	55	10	23	44
31	11	---	768	149	---	187	---	17	---	110	11	---
TOTAL	1905.0	2053.6	6286	9226	3223	3904	1876	921.8	995.0	3195.0	1431.9	1247.2
MEAN	61.5	68.5	203	298	111	126	62.5	29.7	33.2	103	46.2	41.6
MAX	520	930	1590	2050	290	1050	522	96	198	1320	417	482
MIN	8.8	8.0	23	59	26	16	12	5.3	2.2	4.0	4.0	1.6
CFSM	.77	.86	2.56	3.75	1.40	1.59	.79	.37	.42	1.30	.58	.52
IN.	.89	.96	2.95	4.32	1.51	1.83	.88	.43	.47	1.50	.67	.58
CAL YR 1975 TOTAL	50341.56		MEAN 138		MAX 1590	MIN .88	CFSM 1.74	IN 23.59				
WTR YR 1976 TOTAL	36264.50		MEAN 99.1		MAX 2050	MIN 1.6	CFSM 1.25	IN 16.99				

LITTLE KANAWHA RIVER BASIN

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03155000 LITTLE KANAWHA RIVER AT PALESTINE, WV

LOCATION.--Lat 39°03'35", long 81°23'25", Wirt County, Hydrologic Unit 05030203, 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.

REVISED RECORDS.--WSP 953: 1940(M).

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.

REMARKS.--Records good. Some regulation since 1968 from five floodwater detention reservoirs affecting 49.5 mi² (128.2 km²), and since 1974 by Burnsville Reservoir at mile 123.9 (199.4 km). Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--37 years, 2,093 ft³/s (59.27 m³/s), 18.76 in/yr (477 mm/yr).

EXTREMES FOR 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, filling pool above old lock 3.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 17, 1939, reached a stage of 32.25 ft (9.830 m), from flood-marks at old lock 4, discharge about 53,000 ft³/s (1,500 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,500 ft³/s (750 m³/s) Jan. 2, gage height, 26.96 ft (8.217 m); minimum, 51 ft³/s (1.44 m³/s) Sept. 26, 27, gage height, 13.73 ft (4.185 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	258	1010	19300	3040	947	3760	384	306	521	1200	160
2	294	243	1040	23400	4180	873	6660	448	687	353	777	153
3	298	227	977	12400	4720	803	6590	840	570	331	530	226
4	270	212	900	8600	3160	744	5960	1250	595	262	366	194
5	242	193	752	6130	2310	691	4310	1280	608	220	290	153
6	194	194	836	3520	2490	646	3120	1030	381	190	250	148
7	174	195	2510	2410	3460	599	2320	939	273	176	250	169
8	170	186	3430	2520	3570	545	1760	957	215	167	238	178
9	190	179	2480	2100	2950	508	1380	876	177	165	214	150
10	678	195	1850	1470	2290	602	1160	750	146	148	218	135
11	1870	236	1710	1470	1640	2560	1030	642	126	166	278	126
12	2190	3090	1610	2660	2650	5250	957	562	110	5830	266	130
13	1440	5890	1360	4540	2970	4490	903	483	123	2110	340	121
14	1030	4890	1150	6830	3210	4020	822	414	107	1220	1000	109
15	759	2560	1170	7910	4090	3100	732	366	103	908	1780	107
16	538	1680	3140	5340	3020	2300	669	340	97	1240	1260	106
17	1390	1260	4680	3980	2440	1920	606	434	112	2880	723	102
18	6990	1000	3190	2800	4050	1630	546	2150	111	2660	483	102
19	4780	829	2040	1740	6500	1430	476	3600	104	1640	330	89
20	2130	709	1430	1400	4080	1360	427	4810	1170	1060	258	83
21	1380	626	1160	1290	2620	4920	396	2480	964	755	206	78
22	1050	578	1010	1210	2000	14300	522	1470	413	422	170	72
23	822	550	806	557	1700	9240	538	1070	522	1650	140	66
24	606	491	705	1230	1540	4680	441	849	560	5750	121	61
25	426	455	660	2510	1460	3330	427	687	730	7170	105	56
26	358	409	8720	4070	1360	2600	396	538	1470	4170	96	51
27	394	369	13600	6390	1240	1990	441	420	909	2350	89	244
28	309	351	7440	7440	1130	1640	579	350	847	1570	89	2330
29	336	339	4050	5840	1030	1400	498	315	655	1060	413	1730
30	306	337	3170	4430	---	1280	420	384	772	930	396	1240
31	268	---	4260	3580	---	1430	---	298	---	1000	230	---
TOTAL	32204	28731	82906	159867	80900	81828	48846	31416	13963	49574	13106	8669
MEAN	1039	958	2674	5157	2790	2640	1628	1012	465	1599	423	289
MAX	6990	5890	13600	23900	6500	14300	6660	4810	1470	7170	1780	2330
MIN	170	179	660	957	1030	508	396	298	97	148	89	51
CFSM	.69	.63	1.77	3.40	1.84	1.74	1.07	.67	.31	1.06	.28	.19
IN.	.79	.71	2.04	3.93	1.99	2.01	1.20	.77	.34	1.22	.32	.21
CAL YR 1975 TOTAL	895244	MEAN	2464	MAX	20500	MIN	66	CFSM	1.63	IN	22.08	
WTR YR 1976 TOTAL	632010	MEAN	1727	MAX	23900	MIN	51	CFSM	1.14	IN	15.52	

LITTLE KANAWHA RIVER BASIN

03155500 HUGHES RIVER AT CISCO, WV

LOCATION.--Lat 39°07'10", long 81°16'40", Ritchie County, Hydrologic Unit 05030203, 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."

REVISED RECORDS.--WSP 893: 1939. WSP 1113: 1947.

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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--41 years, 576 ft³/s (16.31 m³/s), 17.31 in/yr (440 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,100 ft³/s (343 m³/s) Jan. 1, gage height, 20.88 ft (6.364 m) no other peak above base of 9,500 ft³/s (269 m³/s); minimum, 8.0 ft³/s (0.23 m³/s) Sept. 20, 25-27, minimum gage height, 2.17 ft (0.661 m) Sept. 25-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	101	596	9980	625	228	2440	144	285	160	166	34
2	490	92	643	3830	1130	215	2270	289	650	99	130	28
3	604	85	418	2150	773	205	2450	435	295	72	94	26
4	306	79	306	2720	565	198	1250	511	177	57	72	25
5	206	75	244	1160	493	189	766	366	115	53	57	23
6	153	71	348	620	1340	182	535	277	80	49	58	22
7	121	69	2700	565	1610	177	426	290	61	44	117	21
8	102	67	1520	971	837	168	343	388	49	54	226	20
9	98	67	762	837	560	158	280	297	40	448	218	17
10	834	73	729	571	481	159	236	230	34	375	152	16
11	3070	85	690	609	554	197	215	195	29	178	103	16
12	940	2410	517	1070	848	343	204	176	27	2630	74	15
13	424	6430	441	1340	645	679	182	155	41	948	87	13
14	278	1410	419	3350	1010	1300	161	131	25	302	121	12
15	204	680	456	2000	807	745	147	114	21	173	354	11
16	163	453	2130	998	628	525	137	133	43	265	513	10
17	1470	341	1590	733	1120	467	127	582	90	667	328	9.8
18	5160	267	793	450	2340	375	117	789	52	466	171	9.3
19	1400	219	485	356	2320	395	107	773	50	235	106	8.9
20	626	191	375	374	1200	408	99	531	2200	146	77	8.0
21	435	183	329	384	674	1090	125	326	812	118	62	8.9
22	342	185	274	359	541	2790	1700	226	274	1550	49	9.8
23	279	170	216	320	467	1150	732	170	155	2310	40	9.3
24	230	144	189	337	381	653	371	133	99	4660	32	8.4
25	192	129	201	972	333	506	269	108	151	1860	27	8.0
26	174	123	4420	1450	305	455	236	91	462	560	23	8.0
27	159	120	3920	2800	275	389	231	78	286	293	22	52
28	150	117	1540	2350	254	363	199	68	160	204	22	455
29	138	111	941	1260	241	311	166	67	99	368	29	342
30	125	113	900	915	---	285	147	109	202	402	43	165
31	113	---	2530	723	---	417	---	88	---	217	50	---
TOTAL	19094	14660	31622	46554	23357	15722	16668	8270	7064	19963	3623	1411.4
MEAN	616	489	1020	1502	805	507	556	267	235	644	117	47.0
MAX	5160	6430	4420	9580	2340	2790	2450	789	2200	4660	513	455
MIN	98	67	189	320	241	158	99	67	21	44	22	8.0
CFSM	1.36	1.08	2.26	3.32	1.78	1.12	1.23	.59	.52	1.42	.26	.10
IN.	1.57	1.21	2.60	3.83	1.92	1.29	1.37	.68	.58	1.64	.30	.12

CAL YR 1975 TOTAL 295633.8 MEAN 810 MAX 13000 MIN 9.8 CFSM 1.79 IN 24.33
WTR YR 1976 TOTAL 208008.4 MEAN 568 MAX 9980 MIN 8.0 CFSM 1.26 IN 17.12

OHIO RIVER MAIN STEM

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03159530 OHIO RIVER AT BELLEVILLE DAM, WV

LOCATION.--Lat 39°07'07", long 81°44'32", Wood County, Hydrologic Unit 05030202, at right end of Belleville Dam on Ohio River, at Reedsville, Ohio, 1.7 mi (2.7 km) upstream from Wood-Jackson County line, 4.6 mi (7.4 km) downstream from Hocking River, and at mile 203.9 (328.1 km), measured downstream from Pittsburgh, Pa.

DRAINAGE AREA.--39,300 mi² (101,800 km²), approximately.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Gate-opening and water-stage recorder. Headwater reference gage 0.4 mi (0.6 km) upstream at datum 570.00 ft (173.736 m) above mean sea level, Ohio River datum. Tailwater reference gage 0.5 mi (0.8 km) downstream at datum 22.00 ft (6.706 m) lower.

REMARKS.--Records good. Daily discharge computed from head, gate openings, and lockages. Flow regulated by Ohio River system of locks, dams, and reservoirs upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 334,000 ft³/s (9,460 m³/s) Feb. 26, 1975; minimum daily, 5,100 ft³/s (144 m³/s) Sept. 7, 8, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 301,000 ft³/s (8,520 m³/s) Feb. 20; minimum daily, 5,100 ft³/s (144 m³/s) Sept. 7, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45400	31400	32000	256000	92400	109000	79500	26300	21200	23500	21400	10300
2	51200	33000	40400	205000	83200	97800	98500	24500	35300	23000	21400	5200
3	54600	24700	44500	185000	73800	95400	107000	27000	37700	17400	20900	6100
4	44200	24500	44500	151000	67000	99800	97600	28400	27900	17300	18000	7800
5	35900	26200	34800	136000	57000	128000	89500	29100	23000	13700	14100	7900
6	30300	28500	39000	117000	59000	127000	80100	37200	21600	11800	14500	7700
7	33300	24000	53500	100000	65500	109000	77300	28900	10300	14200	23500	5100
8	29300	23000	47600	95000	60000	100000	66400	32900	12800	21300	31800	5100
9	32200	24500	61000	83500	54000	94800	58400	24600	17600	37000	40900	5450
10	33400	21000	57200	63400	48000	89200	47300	21100	15200	36200	37500	10100
11	49100	33200	57000	50800	69300	83200	43600	20800	11700	26800	26500	10300
12	46100	60000	63000	54000	91000	89400	32000	20500	9030	103000	23500	6300
13	37000	101000	57500	55000	103000	92400	34500	15200	11500	96200	23300	9600
14	30000	85000	55500	111000	104000	94100	28600	18400	12400	64900	20800	10100
15	29700	64500	59400	132000	105000	87300	30600	15700	20500	54900	30600	5200
16	33400	53600	98200	107000	105000	84500	29400	17500	13700	44000	35600	9100
17	46900	48400	128000	94800	144000	74000	24700	17600	12200	50500	31800	13200
18	155000	39800	118000	79000	264000	73000	25400	36700	17000	49900	22800	24900
19	153000	37800	87100	56500	274000	68300	22400	31200	16400	37900	24200	18900
20	129000	35500	79000	54400	301000	70300	18000	37300	32600	25300	21600	17500
21	97400	31300	72500	54000	281000	95800	26800	34500	25800	27000	17200	19500
22	86800	37300	66300	49700	208000	136000	25500	29600	19500	35500	17300	13300
23	82600	32800	60000	41100	175000	132000	30700	29200	29200	42000	15100	15400
24	69500	26000	55500	36800	170000	107000	27900	26000	23700	64400	10100	17800
25	62200	29500	48500	46000	170000	89100	27400	23900	24000	73100	9890	8900
26	53200	32100	93000	65500	155000	75100	32000	24000	38000	55100	11700	12400
27	46200	29500	140000	131000	143000	67000	26700	23400	34900	35900	15400	14500
28	41600	26300	118000	157000	132000	59400	37800	22900	31000	33900	14400	30500
29	43200	26500	92500	145000	121000	55700	32000	20700	16500	28600	10200	24500
30	33000	29400	83000	123000	---	55500	31500	20000	22700	24700	8800	20900
31	35900	---	109000	109000	---	57800	---	18900	---	24600	13300	---
TOTAL	1750600	1120300	2195500	3144500	3775200	2796900	1389100	784000	644930	1213600	648090	373550
MEAN	56470	37340	70820	101400	130200	90220	46300	25290	21500	39150	20910	12450
MAX	155000	101000	140000	256000	301000	136000	107000	37300	38000	103000	40900	30500
MIN	29300	21000	32000	36800	48000	55500	18000	15200	9030	11800	8800	5100
CAL YR 1975 TOTAL	25429300			MEAN 69670	MAX 334000	MIN 5500	CFSM 1.77	IN 24.07				
WTR YR 1976 TOTAL	19836270			MEAN 54200	MAX 301000	MIN 5100	CFSM 1.38	IN 18.78				

03169000 CLAYTOR LAKE NEAR RADFORD, VA

LOCATION.--Lat 37°04'28", long 80°35'05", Pulaski County, Hydrologic Unit 05050001, 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 were furnished by Appalachian Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)	Change in Contents (equivalent in cfs)
Sept. 30.....	1844.62	219600	-	-
Oct. 31.....	1845.02	221300	+1700	+28
Nov. 30.....	1845.62	223900	+2600	+43
Dec. 31.....	1844.70	219900	-4000	-64
CAL YR 1975	-	-	-200	0
Jan. 31.....	1844.70	219900	0	0
Feb. 29.....	1844.98	221100	+1200	+21
Mar. 31.....	1844.45	218900	-2200	-37
Apr. 30.....	1844.76	220200	+1300	+22
May 31.....	1844.50	219100	-1100	-18
June 30.....	1845.00	221200	+2100	+36
July 31.....	1845.58	223700	+2500	+40
Aug. 31.....	1845.72	224300	+600	+10
Sept. 30.....	1844.96	221100	-3200	-55
WTR YR 1976	-	-	+1500	+2

KANAWHA RIVER BASIN

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03179000 BLUESTONE RIVER NEAR PIPESTEM, WV

LOCATION.--Lat 37°32'45", long 81°00'30", Summers County, Hydrologic Unit 05050002, 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.

REVISED RECORDS.--WSP 1705: 1959.

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

REMARKS.--Records good except those for period of no gage-height record, Jan. 23 to Feb. 28, which are poor.

AVERAGE DISCHARGE.--26 years, 463 ft³/s (13.11 m³/s), 17.32 in/yr (440 mm/yr).

EXTREMES FOR 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).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1908, that of Jan. 29, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,720 ft³/s (247 m³/s) Jan. 1, gage height, 11.27 ft (3.435 m), no other peak above base of 4,500 ft³/s (130 m³/s); minimum, 24 ft³/s (0.68 m³/s) Aug. 26, 27, gage height, 1.83 ft (0.558 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	176	128	100	6800	500	405	3150	128	273	84	171	34
2	140	113	101	3700	470	358	2140	158	278	77	115	34
3	127	106	98	1660	440	322	1230	148	243	74	86	34
4	114	99	93	1300	400	291	872	128	221	98	64	41
5	106	93	90	1100	450	273	697	114	179	115	53	40
6	101	89	87	792	1100	283	557	107	153	95	47	33
7	95	89	94	617	1300	250	474	107	135	104	52	31
8	93	106	124	542	900	229	409	106	120	120	65	29
9	124	111	140	441	700	310	352	101	107	158	52	27
10	140	108	149	278	470	836	305	98	98	216	44	89
11	114	113	161	300	550	1020	281	115	92	133	41	169
12	99	136	154	336	520	814	270	138	86	171	37	94
13	93	531	144	355	550	660	243	118	81	127	50	61
14	67	535	138	513	900	524	221	110	83	92	53	46
15	81	358	135	644	850	431	206	110	113	75	61	61
16	81	281	166	560	750	521	194	225	104	81	49	210
17	107	265	208	485	900	877	186	316	107	130	51	206
18	225	243	204	342	2000	774	176	402	100	124	44	133
19	242	214	159	212	2500	685	168	542	99	92	36	93
20	171	192	150	220	1900	598	161	427	232	75	31	72
21	140	179	130	210	1400	628	173	291	381	62	29	61
22	121	166	110	200	1000	706	176	227	348	54	28	51
23	111	151	100	190	900	617	164	187	281	60	26	47
24	101	133	95	200	800	539	151	168	182	54	26	41
25	93	125	90	350	720	583	146	153	141	72	26	37
26	90	118	130	800	680	740	144	138	135	74	24	35
27	92	110	200	1500	550	684	141	121	124	64	26	47
28	93	106	204	1400	484	586	127	113	107	51	31	276
29	92	103	186	1100	459	510	121	113	103	55	58	283
30	113	96	189	900	---	915	117	227	100	74	60	302
31	166	---	1700	600	---	1400	---	238	---	114	41	---
TOTAL	3698	5197	5829	28847	25147	18374	13792	5674	4806	2975	1577	2717
MEAN	119	173	188	931	867	593	460	183	160	96.0	50.9	90.6
MAX	232	535	1700	6800	2500	1400	3150	542	381	216	171	302
MIN	81	89	87	190	400	229	117	98	81	51	24	27
CFSM	.33	.48	.52	2.56	2.39	1.63	1.27	.50	.44	.26	.14	.25
IN.	.38	.53	.60	2.96	2.58	1.88	1.41	.58	.49	.30	.16	.28
CAL YR 1975	TOTAL	256862	MEAN 704	MAX 9790	MIN 39	CFSM 1.94	IN 26.32					
WTR YR 1976	TOTAL	118633	MEAN 324	MAX 6600	MIN 24	CFSM .89	IN 12.16					

KANAWHA RIVER BASIN

03179800 BLUESTONE LAKE NEAR HINTON, WV

LOCATION.--Lat 37°38'25", long 80°53'15", Summers County, Hydrologic Unit 05050002, 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 (104.3 km) and Kanawha River mile 161.8 (260.3 km).

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.

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 storage 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. This is a multipurpose reservoir.

COOPERATION.--Records were furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 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).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 76,680 acre-ft (94.5 hm³) June 22, elevation, 1,425.58 ft (434.517 m); minimum, 28,050 acre-ft (34.6 hm³) Mar. 23, elevation, 1,404.41 ft (428.064 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)	Change in Contents (equivalent in cfs)
Sept. 30.....	1410.65	39560	-	-
Oct. 31.....	1410.73	39710	+150	+2
Nov. 30.....	1406.84	32490	-7220	-121
Dec. 31.....	1407.66	34010	+1520	+25
CAL YR 1975	-	-	+3350	+5
Jan. 31.....	1406.13	31180	-2830	-46
Feb. 29.....	1405.98	30900	-280	-5
Mar. 31.....	1411.91	42040	+11140	+181
Apr. 30.....	1410.47	39220	-2820	-47
May 31.....	1411.17	40560	+1340	+22
June 30.....	1410.67	39590	-970	-16
July 31.....	1410.72	39690	+100	+2
Aug. 31.....	1410.59	39440	-250	-4
Sept. 30.....	1410.53	39330	-110	-2
WTR YR 1976	-	-	-230	0

KANAWHA RIVER BASIN

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03180000 NEW RIVER AT BLUESTONE DAM, WV

LOCATION.--Lat 37°38'35", long 80°53'00", Summers County, Hydrologic Unit 05050002, on right bank 0.3 mi (0.5 km) downstream from Bluestone Dam, 0.7 mi (1.1 km) upstream from Greenbrier River, 2.0 mi (3.2 km) upstream from Hinton, at New River mile 64.5 (103.8 km) and Kanawha River mile 161.5 (259.9 km).

DRAINAGE AREA.--4,604 mi² (11,924 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1923 to September 1969, October 1975 to September 1976. Published as "near Hinton" 1923-46. Monthly discharge only October, November 1923, published in WSP 1305.

REVISED RECORDS.--WSP 713: 1925(M). WSP 783: Drainage area. WSP 893: 1930(M), 1935-36(M). WSP 1335: 1929, 1933.

GAGE.--Water-stage recorder. Datum of gage is 1,360.00 ft (414.528 m) above mean sea level (Corps of Engineers bench mark). Dec. 1, 1923, to Nov. 19, 1934, nonrecording gage and Nov. 20, 1934, to July 1, 1947, water-stage recorder, at site 1.3 mi (2.1 km) upstream at datum 8.49 ft (2.588 m) higher. Auxiliary water-stage recorder 0.7 mi (1.1 km) downstream from present base gage.

REMARKS.--Water-discharge records good. Flow regulated since 1939 by Claytor Lake (station 03169000) and since 1949 by Bluestone Lake (03179800).

AVERAGE DISCHARGE.--47 years, 5,485 ft³/s (155.3 m³/s), 16.18 in/yr (411 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 232,000 ft³/s (6,570 m³/s) Aug. 15, 1940, gage height, 25.7 ft (7.83 m), from floodmarks, present site and datum, from rating curve extended above 70,000 ft³/s (1,980 m³/s) on basis of slope-area measurement of peak flow; minimum, 10 ft³/s (0.28 m³/s) Aug. 30, 1948 (estimated during construction of Bluestone Dam).

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Apr. 21 and May 23, 1901, reached a stage of 24.2 ft (7.38 m) former site and datum, discharge, 234,000 ft³/s (6,630 m³/s). Flood in 1878 probably reached a higher stage.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 34,400 ft³/s (974 m³/s) June 22, gage height, 11.98 ft (3.652 m); maximum gage height, 12.02 ft (3.664 m) Jan. 1, backwater; minimum discharge, 1,160 ft³/s (32.9 m³/s) Mar. 23, gage height, 7.40 ft (2.256 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3600	3950	2130	24700	8540	2940	18300	3180	5680	7280	3180	2700
2	4100	2940	3180	28400	6800	5050	19200	4260	5400	5840	2900	2460
3	3800	2090	2900	24000	7820	5250	12600	4170	6260	5300	3540	2540
4	3200	2780	3020	17000	6500	4300	10200	3220	9110	4210	3100	2270
5	2340	3180	3100	9740	6740	4170	8060	3060	6500	4400	2700	1710
6	1830	3060	3020	8120	6680	4210	7400	2740	5000	5510	2420	1490
7	2130	3260	2500	6920	8180	3990	5900	2980	3860	5300	2270	1460
8	2500	3380	2580	5960	5570	2740	5680	2820	3740	5200	2090	1490
9	2580	2540	3460	5840	6320	4300	5300	2270	4500	5620	2740	1490
10	2700	2580	4040	6020	5790	7820	5620	2380	4550	5620	1420	1860
11	2400	3620	3990	4300	5510	7940	3950	2580	3860	4120	3260	2230
12	1890	4260	3780	4400	5960	8300	2700	3020	3580	3900	2940	2020
13	1500	7640	3660	4170	5400	7640	3820	2980	3060	5200	2580	1620
14	1830	9180	2420	4800	5460	6980	4260	2200	2420	4650	2500	1520
15	2400	7640	1770	5250	5300	4210	3780	2780	2620	3700	2270	2060
16	3340	4400	3020	5840	5900	5730	4260	7340	3020	4040	1710	3500
17	2940	3260	3340	5460	6860	8060	4040	11400	10400	3700	1830	2780
18	14900	5900	3900	5200	8360	6500	3420	8000	21100	2900	2500	3740
19	27500	4950	4900	3950	11700	5790	2860	8180	13000	2740	2660	2980
20	14700	4650	3860	3950	10600	5790	3380	5840	16500	4080	2660	2500
21	9350	4040	2380	4170	9880	4500	3820	5100	27200	3900	2460	2300
22	6020	3990	1740	3740	9320	3540	3990	4650	33500	2980	1770	2340
23	5740	3020	1890	3220	7460	2300	2780	3580	26000	2860	1520	2540
24	4350	2340	3180	3780	9040	1310	3500	2580	15600	4080	1710	2420
25	4080	3380	2380	3060	9180	1540	2980	2780	12300	2700	2060	2230
26	2540	3780	2270	2980	8540	4900	2580	3260	9950	1770	2700	1710
27	1860	3500	5840	13100	8780	7640	2900	3540	9040	2660	1490	1490
28	2740	2740	5200	22100	7580	4750	3300	3620	9390	2340	1490	1490
29	3340	5250	5960	19100	4900	3580	3220	5960	7820	2900	1740	2020
30	3740	4260	4750	13900	---	6140	2650	5960	6800	3020	2820	4210
31	4080	---	5790	11000	---	10400	---	4850	---	3460	3220	---
TOTAL	150730	121560	105950	284010	214670	162310	166460	131280	291760	127180	74790	67170
MEAN	4862	4052	3418	9168	7402	5236	5549	4235	9725	4103	2413	2239
MAX	27500	5180	5960	28400	11700	10400	19200	11400	33500	7280	3540	4210
MIN	1500	2090	1740	2580	4900	1310	2580	2200	2420	1770	1490	1460

WTR YR 1976 TOTAL 1898070 MEAN 5186 MAX 33500 MIN 1310 MEAN# 5188 CFSM# 1.13 IN# 15.38

‡ Adjusted for change in contents in Claytor (Virginia) and Bluestone Lakes.

KANAWHA RIVER BASIN

03180000 NEW RIVER AT BLUESTONE DAM, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD. - -

WATER TEMPERATURES: May 1953 to September 1967, October 1969 to current year.

INSTRUMENTATION.--Temperature recorder since May 24, 1953.

EXTREMES FOR PERIOD OF RECORD. - -

WATER TEMPERATURES: Maximum, 29.5°C Aug. 26, 1959; minimum, 0.0°C on several days during winter months most years.

EXTREMES FOR CURRENT YEAR. - -

WATER TEMPERATURES: Maximum, 28.0°C July 25, 26; minimum, 1.0°C Jan. 21-23.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	20.0	16.0	15.0	8.5	8.0	5.5	4.0	3.5	3.5	9.5	8.5
2	20.0	19.5	15.0	15.0	8.0	8.0	5.5	5.0	4.0	3.5	10.0	8.5
3	19.5	19.0	15.0	14.5	8.0	8.0	5.0	5.0	4.0	2.5	11.0	10.0
4	19.5	19.0	14.5	13.5	8.0	8.0	5.0	4.5	3.0	2.5	12.5	11.0
5	19.0	18.5	14.0	13.5	8.5	8.0	4.0	3.5	2.5	2.5	12.5	12.5
6	19.0	18.0	14.0	13.5	8.0	7.5	3.0	2.5	3.0	2.5	12.5	12.5
7	18.5	18.0	15.0	14.0	7.5	7.5	2.5	2.0	4.0	3.0	12.5	12.5
8	18.0	18.0	15.0	15.0	7.5	7.5	2.0	2.0	4.0	3.5	12.5	12.0
9	18.0	18.0	16.0	15.0	7.5	7.5	2.0	2.0	3.5	2.5	12.0	11.5
10	18.5	18.0	15.0	15.0	8.0	7.5	2.5	2.0	2.5	2.5	11.5	10.0
11	20.0	18.5	15.0	15.0	7.5	7.5	2.0	2.0	3.0	2.5	10.0	9.5
12	20.0	18.5	15.0	14.5	7.5	7.0	2.0	2.0	4.5	3.0	9.5	9.5
13	20.0	18.0	14.5	14.5	7.0	6.0	2.0	1.5	5.5	4.5	9.5	9.5
14	18.5	18.5	14.5	12.5	7.0	7.0	2.0	1.5	6.0	5.5	10.0	9.0
15	19.0	18.5	12.5	10.5	7.0	7.0	2.5	2.0	7.0	6.0	10.0	9.5
16	19.0	19.0	10.5	10.0	7.0	7.0	3.0	2.0	7.5	7.0	9.5	9.5
17	19.0	19.0	10.0	9.5	7.0	7.0	3.0	3.0	8.5	7.5	9.5	9.0
18	19.0	19.0	10.0	9.5	7.0	6.5	3.0	2.5	9.0	8.5	9.0	9.0
19	19.0	18.0	10.0	10.0	6.5	6.5	2.5	2.0	9.0	8.5	9.0	8.5
20	18.0	17.5	10.5	10.0	6.5	5.0	2.0	1.5	9.0	8.5	9.5	8.5
21	17.5	17.0	10.5	10.5	5.0	4.5	1.5	1.0	8.5	8.5	11.0	9.5
22	17.0	16.0	10.5	10.5	4.5	3.5	1.0	1.0	8.5	8.5	11.0	11.0
23	16.0	16.0	10.5	10.5	3.5	3.0	1.5	1.0	8.5	8.0	12.0	11.0
24	16.0	16.0	10.5	10.0	3.0	2.5	1.5	1.5	8.0	6.5	13.0	11.0
25	16.0	16.0	10.0	9.5	2.5	2.5	2.0	1.5	7.5	7.0	12.0	12.0
26	16.0	16.0	9.5	9.5	2.5	2.5	2.0	2.0	8.0	7.0	12.5	12.0
27	17.0	16.0	9.5	9.0	2.5	2.5	4.0	2.0	8.5	8.0	12.0	12.0
28	17.0	17.0	9.0	8.5	2.5	2.5	4.5	4.0	9.0	8.5	12.0	12.0
29	17.0	17.0	8.5	8.0	4.0	2.5	4.0	3.5	9.0	8.5	12.5	12.0
30	17.0	16.0	8.5	8.0	4.0	3.5	3.5	3.5	---	---	13.0	12.5
31	16.5	16.0	---	---	4.0	4.0	3.5	3.5	---	---	13.0	13.0
MONTH	20.0	16.0	16.0	8.0	8.5	2.5	5.5	1.0	9.0	2.5	13.0	8.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	12.0	16.5	16.0	20.0	20.0	24.0	24.0	26.5	26.0	25.5	25.0
2	12.0	10.0	17.0	16.0	20.0	20.0	24.0	24.0	26.0	26.0	25.0	24.0
3	10.5	10.0	17.0	16.0	20.0	20.0	24.0	23.0	26.0	25.5	24.0	24.0
4	11.0	10.0	17.0	16.0	20.0	19.5	23.0	23.0	25.5	24.5	24.5	24.0
5	11.5	11.0	18.0	16.0	19.5	18.0	23.0	22.5	25.5	24.0	24.0	22.5
6	12.0	11.5	18.0	17.0	19.0	18.0	22.5	22.0	25.5	24.0	24.0	22.0
7	12.0	12.0	18.0	17.5	20.0	19.0	22.0	22.0	25.5	24.5	24.0	22.0
8	12.0	12.0	18.0	16.5	20.0	19.0	23.0	22.0	24.5	24.0	24.5	23.0
9	12.5	12.0	18.5	16.5	21.0	20.0	22.0	22.0	24.5	24.0	24.0	22.0
10	12.5	12.0	19.5	17.0	22.0	21.0	24.0	22.0	25.5	24.0	23.5	22.0
11	12.5	12.0	18.5	18.0	22.0	22.0	25.0	24.0	25.0	24.0	23.0	22.0
12	13.0	12.0	19.0	18.0	23.0	22.0	25.0	23.5	25.0	24.0	23.5	22.0
13	12.0	12.0	20.0	18.0	24.0	23.0	24.0	24.0	24.5	24.0	23.5	22.0
14	12.0	12.0	20.0	19.0	24.0	24.0	24.5	24.0	25.0	24.5	22.5	22.0
15	13.0	12.0	20.0	19.5	24.0	24.0	25.0	24.5	25.5	24.5	22.0	21.5
16	14.0	12.5	19.5	19.5	24.0	24.0	25.0	25.0	26.0	25.0	22.0	22.0
17	15.5	14.0	20.0	19.5	24.0	24.0	25.5	25.0	26.0	24.0	22.0	22.0
18	16.5	15.5	20.0	18.0	24.0	22.0	25.5	24.5	25.5	24.0	22.0	21.5
19	18.0	16.5	18.0	18.0	22.0	22.0	25.5	24.5	25.5	24.5	22.0	21.0
20	18.0	17.0	18.0	17.5	22.0	22.0	25.5	25.0	26.0	24.5	21.0	21.0
21	19.0	18.0	17.5	16.0	22.0	21.0	26.0	25.0	25.5	25.0	21.0	21.0
22	19.5	19.0	18.0	17.0	21.0	21.0	26.0	25.5	26.0	24.5	21.0	20.5
23	20.0	19.0	20.0	18.0	21.0	21.0	26.5	26.0	26.0	24.5	21.0	20.0
24	20.0	19.0	20.0	18.5	21.0	21.0	26.5	26.0	26.0	24.5	21.0	20.0
25	20.5	20.0	20.0	19.0	21.0	21.0	28.0	26.0	26.5	24.5	21.0	20.0
26	20.0	18.0	20.0	19.0	22.0	21.0	28.0	25.5	26.0	26.0	20.5	20.0
27	18.5	18.0	20.0	19.5	23.0	22.0	27.5	27.0	26.0	26.0	20.0	20.0
28	18.0	17.0	20.0	20.0	24.0	23.0	27.0	27.0	26.5	26.0	20.5	20.0
29	17.5	16.0	20.0	19.5	24.0	24.0	27.5	27.0	26.5	25.5	20.0	20.0
30	17.5	16.0	20.0	19.5	24.0	24.0	27.0	26.5	25.5	24.5	20.0	20.0
31	---	---	20.0	19.0	---	---	27.0	26.5	26.0	25.0	---	---
MONTH	20.5	10.0	20.0	16.0	24.0	18.0	28.0	22.0	26.5	24.0	25.5	20.0
YEAR	28.0	1.0										

KANAWHA RIVER BASIN

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03180500 GREENBRIER RIVER AT DURBIN, WV

LOCATION.--Lat 38°32'35", long 79°50'00", Pocahontas County, Hydrologic Unit 05050003, 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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--33 years, 252 ft³/s (7.137 m³/s), 25.54 in/yr (649 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,800 ft³/s (79 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0500	3,120 88.4	5.36 1.634	Jan. 1	0100	*3,430 97.1	5.51 1.679

Minimum daily discharge, 5.0 ft³/s (0.14 m³/s) Sept. 9.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	89	129	2310	276	175	362	57	68	51	61	10
2	107	85	112	1030	204	157	398	80	70	44	52	13
3	91	81	113	748	192	143	386	61	82	38	45	19
4	79	77	106	652	195	131	442	56	73	35	40	16
5	72	75	107	490	198	125	406	51	64	43	36	12
6	66	72	105	378	658	117	334	50	58	46	34	10
7	62	72	132	338	628	106	265	52	56	52	45	8.0
8	59	76	125	272	465	101	216	53	52	42	52	5.5
9	60	68	129	155	342	110	180	47	47	60	39	5.0
10	60	179	136	140	265	115	157	45	42	44	34	30
11	86	214	126	201	640	147	143	45	39	37	29	40
12	72	619	121	222	682	192	129	52	36	152	25	21
13	56	1120	121	219	610	580	115	45	34	76	23	14
14	52	714	115	366	682	658	106	43	34	52	28	11
15	50	462	118	283	592	475	98	46	31	93	26	12
16	48	370	187	265	490	422	92	101	30	204	29	36
17	140	361	186	210	568	418	85	101	39	450	24	40
18	1970	363	186	185	646	374	77	127	32	249	19	35
19	866	340	151	190	718	398	73	170	33	162	16	24
20	516	302	217	190	562	410	70	152	110	117	15	18
21	349	308	171	190	426	545	68	135	198	92	13	17
22	264	265	147	190	426	634	68	119	170	76	12	19
23	211	228	130	180	378	495	64	103	117	104	11	18
24	174	209	190	180	346	374	59	92	90	334	10	14
25	153	193	255	187	326	302	57	88	80	290	9.5	12
26	144	166	648	495	290	237	68	84	125	180	9.0	13
27	137	158	638	1300	255	210	64	68	79	131	10	42
28	119	143	444	1160	225	192	56	60	66	106	21	100
29	105	125	331	700	195	167	53	63	63	95	22	50
30	108	118	378	455	---	222	50	88	56	87	17	125
31	95	---	1250	334	---	225	---	80	---	77	13	---
TOTAL	6492	7652	7304	14215	12480	8957	4741	2414	2074	3619	819.5	789.5
MEAN	209	255	236	459	430	289	158	77.9	69.1	117	26.4	26.3
MAX	1970	1120	1250	2310	718	658	442	170	198	450	61	125
MIN	48	68	105	140	192	101	50	43	30	35	9.0	5.0
CFSM	1.56	1.90	1.76	3.43	3.21	2.16	1.18	.58	.52	.87	.20	.20
IN.	1.80	2.12	2.03	3.95	3.46	2.49	1.32	.67	.58	1.00	.23	.22
CAL YR 1975 TOTAL	112492.0			MEAN 308	MAX 2360	MIN 14	CFSM 2.30	IN 31.23				
WTR YR 1976 TOTAL	71557.0			MEAN 196	MAX 2310	MIN 5.0	CFSM 1.46	IN 19.86				

KANAWHA RIVER BASIN

03181200 INDIAN DRAFT NEAR MARLINTON, WV

LOCATION.--Lat 38°16'48", long 80°04'31", Pocahontas County, Hydrologic Unit 05050003, 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.

REVISED RECORDS.--WDR WV-72: 1971(P).

GAGE.--Water-stage and rainfall recorders and concrete control. Altitude of gage is 2,440 ft (744 m), from topographic map.

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.

AVERAGE DISCHARGE.--8 years, 5.37 ft³/s (0.152 m³/s), 23.83 in/yr (605 mm/yr).

EXTREMES FOR 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, 6.10 ft (1.859 m) Sept. 23, 1975; minimum daily discharge, 0.02 ft³/s (0.001 m³/s) Sept. 30, 1968, Aug. 7, 8, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 12	1415	89 2.52	5.33 1.625	Dec. 31	1630	*199 5.64	5.71 1.740

Minimum discharge, 0.05 ft³/s (0.001 m³/s) Aug. 27, gage height, 4.01 ft (1.222 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	.50	.74	43	5.1	2.4	19	.50	4.1	.43	.78	.09
2	.92	.50	.66	17	3.8	2.2	11	.58	7.4	.43	.57	.33
3	.74	.43	.58	14	3.3	1.4	8.0	.50	7.1	.31	.49	.21
4	.66	.43	.58	12	5.4	1.4	7.7	.50	5.4	.31	.41	.11
5	.50	.37	.58	4.3	15	1.3	6.0	.43	3.6	.26	.37	.09
6	.43	.37	.50	6.0	9.5	1.1	5.1	.37	2.6	.21	.34	.09
7	.43	.43	.50	5.1	7.1	1.0	3.8	.37	2.0	.37	.79	.08
8	.43	1.3	.50	4.9	5.4	.82	3.1	.37	1.5	.31	.51	.07
9	.50	1.1	.58	3.6	4.4	.92	2.4	.37	1.1	1.0	.35	.07
10	.43	11	.82	2.4	10	1.4	2.0	.31	.92	.37	.22	2.3
11	.40	9.1	.74	2.0	8.3	7.7	1.5	.31	.82	.21	.16	.42
12	.35	36	.74	1.9	8.3	11	1.4	.31	.66	1.0	.14	.19
13	.25	26	.74	5.7	10	18	1.1	.26	.74	.43	.41	.14
14	.15	11	.74	7.7	8.7	11	.92	.21	.74	.31	.44	.09
15	.10	7.4	.82	5.4	7.1	8.0	.82	.37	.58	.45	.30	.11
16	.08	6.9	2.4	4.4	7.1	7.7	.66	6.6	.92	.85	.21	.11
17	15	6.6	3.3	3.5	8.0	8.3	.66	6.6	2.0	1.4	.17	.11
18	25	5.7	2.4	2.5	9.5	7.7	.58	6.3	.92	.60	.10	.09
19	1.5	4.1	2.0	2.0	13	8.0	.50	8.7	.82	.37	.09	.09
20	.70	3.3	1.4	1.5	9.1	7.1	.58	7.1	5.4	.28	.09	.08
21	.60	3.8	1.3	1.4	6.9	13	.50	4.9	7.1	.20	.09	.09
22	1.5	3.8	.92	1.3	7.1	11	.50	3.3	5.7	.18	.08	.09
23	.90	2.8	.80	1.2	6.9	8.0	.50	2.4	3.1	1.4	.08	.09
24	.50	2.2	.75	2.0	6.0	6.0	.50	2.0	2.0	11	.07	.08
25	.50	2.0	.74	14	6.0	5.1	.50	1.7	1.5	6.2	.07	.08
26	.50	1.4	29	40	5.7	3.8	.50	1.3	1.1	2.4	.07	.08
27	.50	1.1	16	24	4.9	3.3	.50	1.0	.74	1.2	.10	3.6
28	.45	.92	9.1	14	3.8	2.8	.43	.82	.74	.86	.73	2.7
29	.43	.74	6.3	7.1	3.1	2.4	.43	2.2	.58	.89	.40	.63
30	.58	.66	12	6.6	---	6.9	.43	6.9	.50	1.1	.14	6.5
31	.50	---	61	5.4	---	8.7	---	6.0	---	1.0	.10	---
TOTAL	50.45	151.95	159.23	276.9	208.5	179.94	81.61	73.58	72.34	36.73	8.87	18.81
MEAN	1.82	5.07	5.14	8.93	7.19	5.80	2.72	2.37	2.41	1.18	.29	.63
MAX	25	36	61	43	15	18	19	8.7	7.4	11	.79	6.5
MIN	.08	.37	.50	1.2	3.1	.82	.43	.21	.50	.18	.07	.07
CFSM	.59	1.66	1.68	2.92	2.35	1.90	.89	.77	.79	.39	.09	.21
IN.†	.69	1.85	1.94	3.37	2.53	2.19	.99	.89	.88	.45	.11	.23
IN.‡	---	2.79	4.37	2.79	1.96	3.72	.31	3.53	3.33	4.90	---	---

CAL YR 1975 TOTAL 2272.80 MEAN 6.23 MAX 84 MIN .07 CFSM 2.04 IN†27.62
WTR YR 1976 TOTAL 1324.95 MEAN 3.62 MAX 61 MIN .07 CFSM 1.18 IN†16.10

† Runoff.
‡ Rainfall.

KANAWHA RIVER BASIN

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03182000 KNAPP CREEK AT MARLINTON, WV

LOCATION.--Lat 38°12'40", long 80°04'30", Pocahontas County, Hydrologic Unit 05050003, 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 DAILY RECORD.--

WATER TEMPERATURES: October 1946 to current year.

COOPERATION.--Records were furnished by Marlinton City Water Plant.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 28.0°C July 24, 1952, June 2, 1959; minimum daily, -1.0°C Dec. 19, 1975, Jan. 5, 8-10, 13, 15, 17-19, Feb. 2, 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 23.5°C Aug. 26-28; minimum daily, -1.0°C Dec. 19, Jan. 5, 8-10, 13, 15, 17-19, Feb. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	11.5	4.0	1.5	1.5	5.0	6.5	11.0	15.5	19.5	20.0	19.5
2	15.5	7.5	2.5	1.0	-1.0	6.0	4.5	12.0	15.5	19.0	19.5	19.0
3	14.0	7.0	3.5	2.0	0.0	7.0	5.5	12.5	16.5	20.0	18.5	18.5
4	11.0	8.5	2.0	0.0	1.0	7.0	7.0	11.0	16.5	20.0	20.0	18.5
5	11.0	7.5	1.5	-1.0	0.5	7.0	6.5	12.0	14.5	21.0	20.0	18.5
6	10.0	9.5	1.0	0.0	0.0	5.5	6.0	14.5	14.5	19.0	21.0	18.5
7	11.0	11.0	1.0	1.0	0.0	4.5	7.0	15.5	16.5	19.0	21.0	17.0
8	11.0	12.0	1.5	-1.0	0.0	3.5	7.0	14.5	16.5	19.5	22.0	18.5
9	12.0	11.0	1.0	-1.0	0.0	2.0	6.5	14.5	17.0	19.0	21.0	19.0
10	13.5	12.5	1.5	-1.0	1.0	1.5	6.5	15.5	18.5	18.5	20.0	18.5
11	12.0	11.0	1.0	0.0	2.0	2.0	4.5	15.5	19.0	19.0	20.0	17.0
12	11.0	10.0	1.5	0.0	1.0	2.0	5.5	14.5	20.5	20.0	20.0	16.5
13	12.5	9.0	2.0	-1.0	2.0	3.5	5.5	15.5	21.0	21.0	21.0	17.5
14	12.0	9.0	1.0	0.0	2.0	2.0	6.5	15.5	20.0	21.0	21.0	18.5
15	12.5	7.0	1.5	-1.0	2.5	3.5	7.0	15.5	20.0	21.0	20.0	18.5
16	11.0	4.5	2.0	0.0	4.5	2.0	12.0	16.5	21.0	21.0	21.0	18.5
17	10.0	4.0	0.5	-1.0	4.5	1.0	14.0	15.5	20.0	20.5	20.0	17.5
18	11.0	3.5	0.5	-1.0	3.5	1.5	15.5	15.5	21.0	20.0	20.0	18.5
19	10.0	4.0	-1.0	-1.0	4.5	2.0	16.5	14.5	21.0	20.5	21.0	16.5
20	11.0	3.5	0.0	0.0	4.0	4.5	16.5	14.5	20.0	21.0	21.0	16.5
21	9.5	4.5	0.0	0.0	3.5	7.0	17.5	15.5	20.0	22.0	21.0	17.5
22	9.0	2.5	0.5	0.5	2.0	5.5	16.5	15.5	20.5	21.0	21.0	15.5
23	9.5	0.5	-0.5	0.5	1.5	3.5	16.5	16.5	21.0	20.5	21.0	14.5
24	10.0	1.5	0.0	1.5	2.5	4.0	17.5	17.5	21.0	20.5	21.0	12.5
25	11.0	2.0	0.5	0.5	4.0	4.5	13.5	16.5	21.0	20.0	22.0	14.5
26	10.0	2.0	0.5	1.5	4.5	5.5	10.0	17.5	21.0	21.0	23.5	14.5
27	11.5	3.5	1.0	1.0	4.0	7.5	8.5	16.5	21.0	21.0	23.5	15.5
28	12.5	2.0	0.5	0.5	4.0	7.0	9.0	16.5	20.0	22.0	23.5	15.5
29	12.5	1.5	1.5	1.0	3.5	7.5	9.0	17.5	20.5	21.0	21.0	16.0
30	11.0	1.5	1.5	1.5	---	9.0	11.0	16.5	21.0	21.0	20.0	15.5
31	11.0	---	2.0	1.5	---	7.5	---	15.5	---	20.5	20.0	---
MONTH	11.5	6.0	1.0	0.0	2.0	4.5	10.0	15.0	19.0	20.5	21.0	17.0
YEAR	MAX	23.5	MIN	-1.0	MEAN	10.5						

KANAWHA RIVER BASIN

03182500 GREENBRIER RIVER AT BUCKEYE, WV

LOCATION.--Lat 38°11'15", long 80°07'50", Pocahontas County, Hydrologic Unit 05050003, 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.

REVISED RECORDS.--WSP 758: 1933. WSP 953: 1930-32, 1934-35(M), 1936, 1937(M), 1938-39, 1940(M). WSP 1275: 1936.

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.

REMARKS.--Records good. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--47 years, 864 ft³/s (24.47 m³/s), 21.73 in/yr (552 mm/yr).

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 11,000 ft³/s (310 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 18	0900	*17700	501	Jan. 1	0500	17100	484

Minimum discharge, 25 ft³/s (0.71 m³/s) Sept. 9, gage height, 1.62 ft (0.494 m).

DISCHARGE* IN CUBIC FEET PER SECOND* WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	303	242	330	13100	1020	574	2030	146	388	153	236	38
2	266	228	344	4640	900	518	2020	175	418	135	181	40
3	264	218	318	2660	724	477	1520	198	491	116	144	39
4	201	209	304	2510	710	443	1360	164	484	108	120	37
5	177	195	283	1610	765	414	1200	140	408	97	102	34
6	160	192	281	1350	1460	400	994	128	334	92	91	33
7	145	188	282	1120	1980	368	831	125	280	136	95	32
8	137	211	316	1020	1520	338	687	124	244	152	96	29
9	140	225	314	677	1210	364	578	123	211	159	111	26
10	145	276	333	432	889	399	504	115	180	146	95	54
11	176	907	336	618	969	526	456	109	154	139	77	81
12	192	1380	308	537	1570	1190	421	113	134	141	68	80
13	174	5290	295	505	1340	1800	374	112	121	301	82	73
14	138	2700	284	475	1730	2630	338	112	120	186	82	52
15	162	1560	279	724	1720	1750	311	115	110	132	72	47
16	114	1140	354	799	1500	1370	286	397	101	131	66	47
17	237	998	498	706	1490	1410	264	769	129	443	62	45
18	10600	909	484	626	2020	1160	241	599	134	504	55	116
19	3770	824	452	504	3040	1160	224	810	128	342	51	102
20	1780	736	370	520	2280	1120	211	803	245	242	43	77
21	1120	706	508	510	1580	1320	205	635	1080	186	38	63
22	811	747	389	500	1460	2020	204	510	1130	149	34	54
23	632	613	277	484	1450	1600	198	420	850	152	32	48
24	514	553	326	479	1230	1240	186	354	526	1130	30	46
25	441	523	350	560	1130	1010	171	313	387	1040	28	42
26	398	481	1860	1120	990	844	168	291	310	588	27	47
27	362	436	3220	4850	873	703	171	254	311	397	28	76
28	347	416	1890	6040	743	660	171	213	229	300	35	308
29	285	362	1250	2890	657	571	151	204	183	341	44	285
30	288	328	1170	1780	---	851	140	318	165	308	41	301
31	269	---	4550	1260	---	1000	---	408	---	284	43	---
TOTAL	24693	23800	22555	56786	38950	30234	16615	9297	9985	8730	2309	2352
MEAN	797	793	728	1838	1343	975	554	300	333	282	74.5	78.4
MAX	10600	5290	4550	13100	3040	2630	2030	810	1130	1130	236	308
MIN	114	188	277	432	657	338	140	109	101	92	27	26
CFSM	1.48	1.47	1.35	3.40	2.49	1.81	1.03	.56	.62	.52	.14	.15
IN.	1.70	1.64	1.55	3.93	2.68	2.08	1.14	.64	.69	.60	.16	.16

CAL YR 1975	TOTAL	394863	MEAN	1082	MAX	10600	MIN	32	CFSM	2.00	IN	27.20
WTR YR 1976	TOTAL	246506	MEAN	674	MAX	13100	MIN	26	CFSM	1.25	IN	16.98

KANAWHA RIVER BASIN

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03182700 ANTHONY CREEK NEAR ANTHONY, WV

LOCATION.--Lat 37°54'30", long 80°17'30", Greenbrier County, Hydrologic Unit 05050003, 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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--5 years, 227 ft³/s (6.429 m³/s), 21.41 in/yr (544 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft³/s (558 m³/s) Dec. 26, 1973, gage height, 19.3 ft (5.88 m), from floodmarks, from rating curve extended above 1,100 ft³/s (31.2 m³/s); minimum, 6.9 ft³/s (0.20 m³/s) Sept. 7-9, 1976, gage height, 6.19 ft (1.887 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base at 3,200 ft³/s (91 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	0630	*10500 297	15.97 4.868	Jan. 1	0015	6700 190	14.11 4.301

Minimum discharge, 6.9 ft³/s (0.20 m³/s) Sept. 7-9, gage height, 6.19 ft (1.887 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	46	46	3340	240	116	205	34	205	46	26	7.6
2	24	42	44	850	270	103	270	44	344	40	22	8.3
3	22	40	43	537	240	95	220	40	288	35	19	8.3
4	20	39	41	506	210	88	193	35	228	32	16	8.0
5	19	37	39	358	190	81	167	32	163	32	15	7.6
6	18	36	38	267	200	78	142	30	127	30	14	7.2
7	17	34	37	212	200	72	127	30	103	29	15	6.9
8	17	34	38	193	190	68	114	30	88	29	15	6.9
9	18	34	38	144	170	76	100	28	75	30	13	6.9
10	18	36	42	140	150	90	90	27	64	41	13	20
11	39	48	41	130	140	178	84	26	55	32	12	18
12	46	123	40	105	129	362	78	29	48	26	11	15
13	34	645	39	92	129	466	72	28	40	33	10	11
14	29	348	38	111	285	406	67	26	36	36	10	9.9
15	26	212	38	90	292	285	62	29	130	28	10	9.5
16	25	158	54	85	258	240	58	243	90	24	10	9.9
17	258	129	64	85	246	217	55	270	92	20	9.5	9.9
18	5000	111	71	67	362	183	52	200	103	20	9.1	9.5
19	600	90	60	65	868	169	48	183	84	19	8.7	9.5
20	276	88	65	65	494	154	47	146	79	17	8.3	9.5
21	172	85	67	65	334	156	46	120	418	16	8.0	9.1
22	127	82	58	64	316	156	46	102	351	16	8.0	9.1
23	103	72	49	64	302	140	44	88	207	14	8.0	8.3
24	84	67	50	62	261	132	41	78	138	15	7.6	8.3
25	75	64	47	68	222	132	39	71	103	22	7.6	8.3
26	67	60	98	84	193	125	38	64	103	19	7.6	8.3
27	64	55	234	450	167	116	37	55	95	16	7.6	12
28	58	54	200	800	144	107	35	49	72	15	7.6	22
29	53	50	161	500	129	96	33	57	58	19	7.6	20
30	52	47	174	300	---	102	30	200	50	23	7.6	31
31	49	---	1840	250	---	103	---	195	---	28	7.6	---
TOTAL	7437	2966	3894	10149	7331	4892	2640	2589	4037	802	351.4	335.8
MEAN	240	98.9	126	327	253	158	88.0	83.5	135	25.9	11.3	11.2
MAX	5000	645	1840	3340	868	466	270	270	418	46	26	31
MIN	17	34	37	62	129	68	30	26	36	14	7.6	6.9
CFSM	1.67	.69	.88	2.27	1.76	1.10	.61	.58	.94	.18	.08	.08
IN.	1.92	.77	1.01	2.62	1.89	1.26	.68	.67	1.04	.21	.09	.09
CAL YR 1975	TOTAL	83536.5	MEAN 229	MAX 5000	MIN 8.1	CFSM 1.59	IN 21.58					
WTR YR 1976	TOTAL	47424.2	MEAN 130	MAX 5000	MIN 6.9	CFSM .90	IN 12.25					

KANAWHA RIVER BASIN

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03182950 HOWARD CREEK AT CALDWELL, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT 16...	1040	13	470	8.1	16.0	1	10.4	2.4	1500	15	150
DEC 04...	0945	17	340	7.5	2.0	1	13.6	.6	34	46	36
16...	1045	27	300	7.8	7.0	1	12.4	.2	590	61	24
JAN 08...	0905	100	140	--	3.0	1	--	2.0	--	1000	220
FEB 19...	0850	655	70	6.5	5.5	15	13.0	2.4	2800	820	130
MAR 25...	0855	65	160	6.6	9.0	2	--	1.1	400	76	24
MAY 05...	0945	29	260	8.6	10.0	2	10.8	1.6	1300	240	34
27...	0800	26	250	7.2	13.0	3	10.6	--	--	--	220
JUN 23...	0830	52	205	6.9	17.0	2	9.4	.6	4800	470	360
AUG 18...	0840	5.8	515	--	16.0	1	9.2	.5	35	4	1900

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT 16...	210	98	62	14	15	2.6	140	0	115	1.8	100
DEC 04...	150	69	43	10	9.1	1.9	97	0	80	4.9	72
16...	130	59	38	8.7	5.9	1.4	88	0	72	2.2	62
JAN 08...	54	21	14	4.5	3.1	1.2	40	--	33	--	23
FEB 19...	22	10	5.5	2.0	2.0	1.0	14	0	11	7.1	12
MAR 25...	58	23	16	4.4	4.0	1.2	43	0	35	17	28
MAY 05...	110	49	31	8.2	6.5	1.7	76	0	62	.3	57
27...	100	39	30	7.1	7.1	1.5	79	0	65	8.0	44
JUN 23...	84	38	24	5.8	4.8	1.6	56	0	46	11	38
AUG 18...	210	97	60	14	17	2.6	135	--	111	--	110

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRIE PLUS NITRATE (N) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOSPHATE (P04) (MG/L)
OCT 16...	.2	3.0	317	294	.54	.01	.55	.39	.40	1.2
DEC 04...	.2	2.4	206	203	.54	.01	.55	.18	.17	.52
16...	.2	2.4	182	171	.48	.01	.49	.15	.15	.46
JAN 08...	.1	6.1	77	77	.54	.01	.55	.04	.05	.15
FEB 19...	.0	6.1	46	40	.36	.00	.36	.01	.01	.03
MAR 25...	.1	4.4	94	86	.31	.01	.32	.05	.06	.18
MAY 05...	.1	4.0	152	155	.35	.02	.37	.15	.13	.40
27...	.1	4.3	158	143	.41	.02	.43	.21	.20	.61
JUN 23...	.1	6.7	134	117	.31	.01	.32	.09	.11	.34
AUG 18...	.2	9.6	324	302	.43	.01	.44	.60	.61	1.9

KANAWHA RIVER BASIN

03182950 HOWARD CREEK AT CALDWELL, WV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CK) (UG/L)	HEXA- VALENT CHRO- MIUM (CK6) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)
OCT 16...	--	--	70	--	--	--	--	--	--	20
DEC 04...	--	--	10	--	--	--	--	--	--	20
16...	--	--	10	--	--	--	--	--	--	50
JAN 08...	--	--	20	--	--	--	--	--	--	40
FEB 19...	--	--	30	--	--	--	--	--	--	50
MAR 25...	--	--	10	--	--	--	--	--	--	20
MAY 05...	--	--	20	--	--	--	--	--	--	20
27...	--	--	20	--	--	--	--	--	--	50
JUN 23...	60	40	20	0	0	0	<10	0	130	40
AUG 18...	--	--	20	--	--	--	--	--	--	20

DATE	TIME	TOTAL LEAD (PB) (UG/L)	SUS- PENDE LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT 16...	1040	--	--	--	--	--	10
DEC 04...	0945	--	--	--	--	--	10
16...	1045	--	--	--	--	--	10
JAN 08...	0905	--	--	--	--	--	10
FEB 19...	0850	--	--	--	--	--	10
MAR 25...	0855	--	--	--	--	--	10
MAY 05...	0945	--	--	--	--	--	60
27...	0800	--	--	--	--	--	30
JUN 23...	0830	1	0	1	10	0	10
AUG 18...	0840	--	--	--	--	--	20

DATE	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT 16...	--	--	--	--	--	--
DEC 04...	--	--	--	--	--	--
16...	--	--	--	--	--	--
JAN 08...	--	--	--	--	--	--
FEB 19...	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--
MAY 05...	--	--	--	--	--	--
27...	--	--	--	--	--	--
JUN 23...	<.5	.0	<.5	80	50	30
AUG 18...	--	--	--	--	--	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE (T/DAY)	DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT 16...	1040	13	0	0	MAY 05...	0945	29	8	.63
NOV 19...	1530	29	0	0	27...	0810	25	6	.40
JAN 08...	0905	100	5	1.4	JUN 23...	0830	52	4	.56
FEB 11...	0920	69	0	0	JUL 21...	0850	7.8	1	.02
MAR 25...	0855	65	0	0	AUG 18...	0840	5.8	3	.05

KANAWHA RIVER BASIN

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03183500 GREENBRIER RIVER AT ALDERSON, WV

LOCATION.--Lat 37°43'30", long 80°38'30", Monroe County, Hydrologic Unit 05050003, 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.

REVISED RECORDS.--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.

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.

REMARKS.--Records good. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--81 years, 1,986 ft³/s (56.24 m³/s), 19.87 in/yr (505 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 19,000 ft³/s (540 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 18	2200	21800 617	10.61 3.234	Jan. 1	1400	*31700 898	13.43 4.093

Minimum daily discharge, 71 ft³/s (2.01 m³/s) Sept. 1.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	710	532	572	27500	2590	1340	2400	352	1050	342	810	71
2	508	492	556	16100	2450	1230	4620	418	1190	334	604	80
3	500	454	564	7550	2120	1100	3700	442	1230	307	460	90
4	426	436	544	6140	1760	1010	2450	412	1340	240	364	95
5	308	414	504	4770	1660	931	2530	400	1220	280	290	95
6	372	406	444	3320	1940	873	2140	364	975	258	244	90
7	323	384	476	2680	3400	820	1430	334	810	358	222	85
8	301	384	444	2330	3120	774	1530	318	670	340	312	80
9	301	454	500	1940	2640	780	1290	301	560	340	240	90
10	276	500	540	1310	2140	890	1110	290	492	508	213	110
11	307	620	548	947	1700	1150	947	285	430	406	191	100
12	408	1420	556	1090	2030	900	307	388	376	316	191	150
13	400	6230	548	1030	2040	3340	430	296	340	460	170	170
14	370	7400	516	1130	2930	4770	760	280	301	454	163	140
15	340	4000	500	1210	4000	4150	650	276	301	492	167	140
16	301	2620	524	1710	3450	3040	640	352	424	370	226	150
17	314	2100	820	1470	3040	3060	536	1640	364	307	191	150
18	10900	1850	1010	1240	3430	2420	556	1470	424	240	163	120
19	11400	1610	931	942	7700	2440	516	1640	412	640	150	110
20	4700	1350	780	770	7100	2330	444	1720	442	548	130	110
21	2420	1240	640	750	4620	2230	460	1520	1110	430	110	110
22	1570	1200	780	750	3550	2710	454	1220	2440	346	100	110
23	1470	1140	700	750	3400	3060	442	1020	2100	290	90	140
24	1166	1020	532	740	3100	2530	424	960	1456	276	84	120
25	975	920	484	740	2690	2120	406	740	1020	440	74	100
26	250	860	604	1240	2410	1810	394	640	850	1320	73	95
27	710	410	4770	6740	2120	1530	376	572	710	840	73	106
28	720	740	4520	15700	1830	1340	364	524	580	566	73	170
29	600	680	2840	5510	1560	1220	352	464	516	516	75	320
30	634	630	2150	4730	---	1190	346	596	430	720	73	548
31	564	---	4450	3320	---	1540	---	1010	---	420	72	---
TOTAL	46614	43022	34477	130039	87470	60351	35437	21607	24639	14904	7442	4054
MEAN	1504	1424	1117	4195	3016	1947	1185	647	821	481	208	135
MAX	11800	7400	4770	27500	7700	4770	4620	1470	2440	1320	410	548
MIN	276	384	476	740	1560	770	346	276	301	258	72	71
CFSM	1.11	1.06	.82	3.09	2.22	1.43	.87	.51	.61	.35	.15	.10
IN.	1.26	1.18	.85	3.56	2.46	1.65	.97	.59	.69	.41	.18	.11
CAL YR 1975 TOTAL	919131			2494		21300		126		1.84		24.95
WTR YR 1976 TOTAL	505162			1391		27500		71		1.03		13.96

KANAWHA RIVER BASIN

03184000 GREENBRIER RIVER AT HILLDALE, WV

LOCATION.--Lat 37°38'25", long 80°48'20", Summers County, Hydrologic Unit 05050003, 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 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). 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.

REVISED RECORDS.--WSP 1435: 1955.

GAGE.--Water-stage recorder. Datum of gage is 1,388.66 ft (423.264 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--40 years, 2,215 ft³/s (62.73 m³/s), 18.51 in/yr (470 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 58,100 ft³/s (1,650 m³/s) Dec. 27, 1973, gage height, 23.13 ft (7.050 m), from floodmark; 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of 21.85 ft (6.660 m) from data furnished by Corps of Engineers, discharge, 60,800 ft³/s (1,720 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,600 ft³/s (923 m³/s) Jan. 1, gage height, 15.78 ft (4.810 m); no other peak above base at 24,000 ft³/s (680 m³/s); minimum, 86 ft³/s (2.44 m³/s) Aug. 31 to Sept. 2, gage height, 0.56 ft (0.171 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	848	628	708	25500	3530	1440	3480	452	1240	460	950	86
2	764	588	660	21000	3000	1630	5890	516	1320	399	700	92
3	600	548	660	9520	2950	1470	5070	580	1500	364	550	99
4	540	516	652	7520	2470	1340	4000	556	1650	344	430	115
5	476	492	620	6490	2270	1230	3440	508	1560	320	344	117
6	468	468	596	5000	2490	1140	2970	484	1270	314	314	117
7	385	452	580	4400	4040	1060	2500	436	1010	302	270	110
8	364	452	588	3600	4130	992	2130	406	848	444	400	102
9	357	460	596	2530	3430	1020	1820	385	724	385	350	94
10	344	564	628	1890	2940	1290	1560	364	624	600	270	120
11	344	588	652	1390	2330	1800	1380	371	540	520	231	117
12	378	1240	668	1440	2340	2600	1240	371	464	450	218	187
13	484	4440	668	1480	3060	4210	1120	378	413	530	213	208
14	436	8700	636	1400	3440	5240	1020	357	371	530	200	167
15	378	5040	612	2210	4950	5260	938	344	332	600	200	171
16	364	3340	620	2250	4520	4040	866	385	444	460	236	175
17	371	2600	776	1920	4090	3970	812	1270	508	390	302	179
18	5760	2250	1170	1630	5170	3740	749	2670	428	320	226	159
19	14500	2110	1200	947	8980	3210	700	2210	516	600	187	141
20	6060	1790	992	657	8580	3010	652	2170	532	640	159	134
21	3530	1590	884	820	5930	2890	620	2010	732	520	144	127
22	2390	1460	866	820	4680	3150	596	1620	2540	440	134	134
23	1790	1420	902	900	4400	3910	596	1310	2640	370	120	167
24	1460	1270	668	1000	4040	3340	564	1070	2150	320	115	144
25	1100	1100	628	965	3490	2850	532	920	1450	1200	107	127
26	1000	1030	668	1490	3110	2470	508	803	1070	1600	99	117
27	893	965	3700	7140	2750	2130	484	716	920	1300	94	130
28	830	853	5610	16700	2390	1860	460	644	749	900	92	183
29	776	830	3770	10100	2090	1700	444	596	652	700	88	275
30	716	767	2770	6240	---	1670	428	660	540	1000	88	524
31	660	---	4100	4450	---	1980	---	1020	---	1200	86	---
TOTAL	49646	48591	38848	153799	111620	78042	47969	26582	29745	18722	7917	4618
MEAN	1601	1620	1253	4961	3849	2517	1599	857	992	604	255	154
MAX	14900	8700	5610	25500	8980	5260	5890	2670	2640	1600	950	524
MIN	344	452	580	820	2090	992	428	344	332	302	86	86
CFSM	.99	1.00	.77	3.05	2.37	1.55	.98	.53	.61	.37	.16	.09
IN.	1.14	1.11	.89	3.52	2.56	1.79	1.10	.61	.68	.43	.18	.11

CAL YR 1975 TOTAL 1066763 MEAN 2712 MAX 24600 MIN 132 CFSM 1.79 IN 24.33
WTR YR 1976 TOTAL 616099 MEAN 1683 MAX 25500 MIN 86 CFSM 1.04 IN 14.10

KANAWHA RIVER BASIN

131

03184200 BIG CREEK NEAR BELLEPOINT, WV

LOCATION.--Lat 37°40'28", long 80°48'52", Summers County, Hydrologic Unit 05050003, 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.

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.

AVERAGE DISCHARGE.--7 years, 11.4 ft³/s (0.323 m³/s), 18.72 in/yr (475 mm/yr).

EXTREMES FOR 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, Aug. 23-27, Sept. 1, 6, 7, 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 329 ft³/s (9.32 m³/s) Dec. 31, gage height 3.21 ft (0.978 m), from rating curve extended as explained above, no other peak above base of 180 ft³/s (5.1 m³/s); minimum daily, 0.01 ft³/s (<0.001 m³/s) Aug. 23-27, Sept. 1, 6, 7, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.61	.77	91	16	5.1	57	2.4	3.4	.08	.60	.01
2	.36	.54	.79	24	13	4.4	24	2.7	2.9	.07	.22	.07
3	.30	.50	.74	35	12	4.0	18	1.8	4.2	.12	.09	.05
4	.30	.49	.69	27	15	3.5	14	1.4	2.7	.58	.06	.02
5	.64	.42	.66	15	23	3.3	10	1.2	1.8	.25	.05	.02
6	.64	.42	.62	10	22	3.4	8.1	1.0	1.3	.16	.04	.01
7	.18	.55	.80	8.4	17	2.8	6.7	1.0	1.1	.47	.03	.01
8	.30	1.1	1.1	6.8	12	2.6	5.3	.96	.86	.24	.03	.02
9	.34	.80	.98	4.9	8.5	8.7	4.5	.84	.69	.12	.02	.01
10	.30	.81	1.6	6.1	8.5	19	3.9	.79	.50	.08	.02	3.1
11	3.7	1.1	1.3	5.4	7.2	26	3.5	1.4	.40	.06	.02	.43
12	1.4	4.6	1.3	4.0	5.8	24	3.2	1.4	.31	18	.02	.11
13	.64	8.8	1.3	5.0	11	18	2.8	.93	.21	2.8	.02	.06
14	.38	5.3	1.2	13	12	12	2.7	.78	.21	1.1	.06	.05
15	.30	4.2	1.2	6.5	12	8.9	2.5	.94	.29	.59	.29	.47
16	.94	4.9	2.3	5.8	16	11	2.3	2.6	.23	.58	.14	1.4
17	17	4.8	2.2	4.9	46	12	2.1	2.6	.33	.52	.07	1.0
18	14	3.9	1.4	3.8	65	10	1.9	4.7	.21	.26	.05	.33
19	5.7	3.1	1.7	4.5	40	11	1.8	5.4	.62	.13	.03	.15
20	3.7	2.7	1.4	4.0	30	10	1.7	3.7	3.4	.09	.03	.10
21	2.5	2.5	1.1	3.0	19	17	1.7	2.6	1.8	.07	.02	.07
22	1.8	2.1	.90	6.5	16	17	1.8	2.2	1.2	.06	.02	.06
23	1.5	1.6	.80	3.0	14	14	1.6	1.7	.61	.36	.01	.06
24	1.2	1.3	.70	4.7	12	11	1.4	1.4	.39	.18	.01	.05
25	1.0	1.3	.65	4.3	10	12	1.3	1.2	.36	.13	.01	.04
26	.94	1.1	5.4	36	9.2	9.6	1.3	.99	.48	.07	.01	.05
27	.94	.87	6.3	56	8.3	9.0	1.2	.77	.29	.06	.01	8.8
28	.90	.84	4.8	36	7.0	8.0	1.1	.68	.15	.05	.02	4.6
29	.84	.80	4.0	21	5.9	7.9	1.0	2.3	.09	.11	.02	1.4
30	.84	.74	5.2	14	---	17	.94	11	.08	.46	.03	13
31	.73	---	92	11	---	30	---	4.5	---	.63	.02	---
TOTAL	65.23	62.79	146.40	482.6	493.4	348.2	194.34	67.88	31.11	28.48	2.07	35.55
MEAN	2.10	2.09	4.72	15.6	17.0	11.2	6.48	2.19	1.04	.92	.067	1.19
MAX	17	8.8	92	91	65	30	57	11	4.2	18	.60	13
MIN	.18	.42	.62	6.5	5.8	2.6	.94	.68	.08	.05	.01	.01
CFSM	.25	.25	.57	1.89	2.06	1.35	.78	.26	.13	.11	.008	.14
INT†	.29	.28	.66	2.17	2.22	1.57	.87	.31	.14	.13	.009	.16
IN.‡	1.82	1.18	2.99	1.69	2.30	3.33	---	2.66	2.20	4.36	---	---
CAL YR 1975 TOTAL	3886.74			MEAN 10.6	MAX 153	MIN .02	CFSM 1.28	INT† 17.48				
WTR YR 1976 TOTAL	1958.05			MEAN 5.35	MAX 92	MIN .01	CFSM .65	INT† 8.81				

† Runoff.

‡ Rainfall.

KANAWHA RIVER BASIN

03184500 NEW RIVER AT HINTON, WV

LOCATION.--Lat 37°40'15", long 80°53'40", Summers County, Hydrologic Unit 05050004, 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.

REMARKS.--Records good. Flow regulated since 1939 by Claytor Lake (station 03169000) and since 1949 by Bluestone Lake (station 03179800). Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--40 years, 7,797 ft³/s (220.8 m³/s), 16.92 in/yr (430 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 58,900 ft³/s (1,670 m³/s) Jan. 1, gage height, 8.53 ft (2.600 m); minimum, 1,530 ft³/s (43.3 m³/s) Aug. 26, 27, 28, Sept. 7-9, 26, 27, gage height, 1.61 ft (0.491 m).

DISCHARGE IN CUBIC FEET PER SECOND WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3530	4140	2510	47200	11700	4370	21600	3110	6420	5990	3530	2310
2	4170	3080	3330	49100	9640	6190	24200	4290	6240	5810	3040	2160
3	3550	2370	3120	32900	10300	6430	17400	4370	7190	5140	3450	2200
4	3190	2490	3130	23700	6500	5300	13900	3270	10400	4090	3080	2060
5	2510	3140	3190	15600	8500	5070	11100	3050	7560	4060	2550	1710
6	2190	2990	3080	12100	4610	5010	9240	2790	5800	5220	2360	1550
7	2270	3150	2700	9970	11400	4730	7980	2920	4390	5170	2270	1530
8	2430	3270	2700	8510	9310	3310	7350	2770	4100	5060	2120	1530
9	2770	2640	3560	7640	9200	4430	6640	2360	4750	5430	2700	1530
10	2620	2670	4250	7500	8300	8950	6710	2920	4800	5910	1940	1800
11	2420	3660	4260	5200	7520	9630	4880	2550	3970	4200	2830	2030
12	2130	4910	4030	5150	7880	10700	3390	2840	3540	3980	2670	1970
13	1940	11000	3900	5120	8000	11500	4350	2960	3010	5110	2340	1730
14	2090	17400	2890	5560	8360	11800	4870	2310	2460	4820	2280	1600
15	2470	12000	2230	6730	9680	9070	4260	2670	2540	3750	2180	1890
16	3160	6950	3090	7590	9870	9250	4700	7190	2870	3990	1820	2930
17	2280	5160	3640	6920	10600	11700	4420	12300	10100	3600	1930	2420
18	17500	6920	4550	6340	13100	9900	3700	10200	20500	2790	2290	3180
19	40100	6350	5610	4520	20300	8680	3060	9930	13200	2730	2370	2570
20	19800	5830	4540	4260	19300	8430	3490	7480	16100	4230	2350	2210
21	12500	5110	2970	4540	15800	7010	4010	6610	26500	3990	2230	2040
22	7760	4900	2360	4110	13900	6140	4220	5770	34600	2830	1810	2090
23	6960	3840	2470	3610	11600	5770	2870	4370	27800	2690	1590	2230
24	5220	3070	3320	4220	12800	4290	3550	3160	17100	3790	1720	2180
25	4710	3860	2840	3470	12600	3990	3040	3170	13200	2610	1910	2040
26	3210	4340	2540	3700	11500	6420	2620	3520	10600	2800	2340	1710
27	2400	3950	4170	17500	11400	9600	2860	3720	9380	3350	1540	1540
28	2560	3170	10100	36300	9860	6330	3190	3740	9740	2950	1540	1570
29	3530	5440	9150	30200	6730	4880	3100	6050	7920	2850	1690	1950
30	3950	4550	7130	20000	---	7410	2640	6250	6800	3820	2340	3860
31	4240	---	8160	15200	---	12200	---	5350	---	3760	2830	---
TOTAL	181840	152860	129520	414310	316260	228890	199960	143450	303580	127110	71440	62160
MEAN	5866	5095	4178	13360	10910	7384	6665	4627	10120	4100	2305	2072
MAX	40100	17400	10100	49100	20300	12200	24200	12300	34600	6990	3530	3860
MIN	1940	2370	2230	3470	6730	3310	2620	2310	2460	2690	1540	1530

CAL YR 1975 TOTAL 3685770 MEAN 19100 MAX 55900 MIN 1760 MEAN† 10100 CFSM† 1.61 IN† 21.86
WTR YR 1976 TOTAL 2331380 MEAN 6370 MAX 49100 MIN 1530 MEAN† 6372 CFSM† 1.02 IN† 13.88

† Adjusted for change in contents in Claytor (Virginia) and Bluestone Lakes.

KANAWHA RIVER BASIN

133

03185000 PINEY CREEK AT RALEIGH, WV

LOCATION.--Lat 37°45'40", long 81°09'50", Raleigh County, Hydrologic Unit 05050004, 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.

REVISED RECORDS.--WSP 1435: 1955(M).

GAGE.--Water-stage recorder. Datum of gage is 2,087.24 ft (636.191 m) above mean sea level.

REMARKS.--Records good except those for period of no gage-height record, Nov. 24 to Jan. 6, which are poor.

AVERAGE DISCHARGE.--25 years, 61.1 ft³/s (1.730 m³/s), 15.90 in/yr (404 mm/yr).

EXTREMES FOR 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 (0.006 m³/s) Sept. 5-18, 21-23, 1964; minimum gage height, 1.07 ft (0.326 m) Sept. 9-12, 16, 17, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 750 ft³/s (21.2 m³/s) Jan. 1, no other peak above base of 700 ft³/s (20 m³/s); minimum discharge, 4.2 ft³/s (0.12 m³/s) Aug. 26, 27, gage height, 1.29 ft (0.393 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	10	11	750	86	67	126	20	27	11	46	4.9
2	10	9.8	11	400	80	62	129	25	28	11	24	11
3	9.7	9.0	10	200	74	58	101	23	26	11	15	9.6
4	8.6	8.6	9.5	150	67	55	86	20	23	24	11	7.0
5	8.1	8.6	9.0	120	72	53	72	17	20	18	9.6	5.8
6	7.9	8.4	8.5	100	167	53	60	16	18	12	8.7	5.3
7	7.6	12	11	79	184	49	53	15	16	21	20	4.9
8	9.5	18	14	77	138	47	47	16	14	25	13	5.3
9	13	16	17	58	103	79	44	14	13	22	8.7	4.9
10	9.2	22	22	84	84	135	39	13	12	23	7.9	11
11	9.8	27	25	49	96	135	38	15	11	18	7.0	24
12	8.4	87	23	47	94	126	36	19	11	62	6.6	11
13	7.9	151	21	55	98	84	34	16	11	74	6.2	7.0
14	8.1	89	20	160	144	67	32	13	12	38	21	5.8
15	6.6	60	19	129	141	56	29	19	15	26	27	21
16	12	53	24	101	120	60	28	29	12	25	18	29
17	53	53	30	82	148	62	28	31	15	22	11	26
18	60	47	29	62	330	60	26	77	14	18	8.3	20
19	42	42	25	55	386	62	25	132	13	13	7.0	13
20	31	36	21	47	254	67	24	98	29	11	6.2	9.6
21	26	38	18	42	164	106	23	60	38	8.7	5.8	8.7
22	21	34	15	40	148	138	23	44	42	8.3	5.3	7.9
23	18	27	13	40	132	114	22	35	31	8.3	4.9	7.0
24	16	25	11	44	117	84	21	29	22	8.7	4.9	6.6
25	14	21	8.5	65	106	77	21	26	19	9.6	4.9	6.2
26	14	18	20	114	96	70	21	24	23	9.6	4.5	7.0
27	14	15	28	208	86	60	20	22	17	7.0	4.5	32
28	13	13	29	201	77	56	18	20	13	7.0	5.3	67
29	12	12	26	151	72	53	17	20	11	7.0	5.8	38
30	13	10	25	114	---	55	17	29	9.6	13	6.2	94
31	12	---	200	91	---	62	---	24	---	21	5.3	---
TOTAL	506.4	980.4	753.5	3915	3864	2312	1260	961	565.6	593.2	339.6	510.5
MEAN	16.3	32.7	24.3	126	133	74.6	42.0	31.0	18.9	19.1	11.0	17.0
MAX	60	151	200	750	386	138	129	132	42	74	46	94
MIN	6.6	8.4	8.5	40	67	47	17	13	9.6	7.0	4.5	4.9
CFSM	.31	.63	.47	2.41	2.55	1.43	.80	.59	.36	.37	.21	.33
IN.	.36	.70	.54	2.79	2.75	1.65	.90	.68	.40	.42	.24	.36
CAL YR 1975	TOTAL	26428.9	MEAN 72.4	MAX 685	MIN 3.9	CFSM 1.39	IN 18.83					
WTR YR 1976	TOTAL	16561.2	MEAN 45.2	MAX 750	MIN 4.5	CFSM .87	IN 11.80					

KANAWHA RIVER BASIN

03186500 WILLIAMS RIVER AT DYER, WV

LOCATION.--Lat 38°22'45", long 80°29'05", Webster County, Hydrologic Unit 05050005, 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.

REVISED RECORDS.--WSP 1275: 1930.

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.

REMARKS.--Records good.

AVERAGE DISCHARGE.--47 years, 326 ft³/s (9.232 m³/s), 34.59 in/yr (879 mm/yr).

EXTREMES FOR 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 ft (3.758 m) and 18.45 ft (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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,570 ft³/s (158 m³/s) Dec. 31, gage height, 8.15 ft (2.484 m), no other peak above base of 4,600 ft³/s (130 m³/s); minimum, 7.4 ft³/s (0.21 m³/s) Aug. 26, 27, gage height, 0.81 ft (0.247 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	105	135	3673	292	190	585	76	180	47	303	13
2	97	121	121	1190	210	172	483	150	247	44	207	40
3	55	65	118	955	190	157	461	129	222	37	157	47
4	72	85	104	835	202	142	690	117	185	31	121	28
5	63	74	113	515	247	133	510	107	142	29	96	20
6	45	75	126	801	1320	133	349	100	117	30	82	15
7	45	77	145	341	714	117	306	107	160	27	102	11
8	46	45	232	240	474	105	250	104	85	29	98	9.7
9	40	50	222	210	361	123	205	91	73	38	80	8.6
10	55	105	225	190	299	129	177	83	62	165	57	137
11	150	273	204	210	1230	200	165	82	54	91	55	102
12	190	681	195	215	935	310	150	87	47	180	44	44
13	116	1250	203	210	899	425	131	76	43	250	36	28
14	50	850	200	194	1200	545	119	67	61	150	33	20
15	50	440	193	451	744	393	107	65	48	80	33	18
16	50	364	510	255	635	793	100	815	37	155	32	21
17	50	402	461	272	1120	487	92	605	34	465	24	26
18	750	466	356	190	982	365	85	672	48	210	23	26
19	500	420	251	155	1080	413	78	762	36	137	14	25
20	450	351	236	185	645	469	75	530	58	102	16	23
21	350	365	217	150	465	850	72	373	165	78	13	25
22	350	342	140	130	590	815	70	282	234	62	11	33
23	290	264	120	120	550	520	67	213	216	123	9.7	28
24	290	225	120	140	424	393	61	175	121	1970	4.8	23
25	250	215	110	152	401	331	58	147	91	1020	8.3	17
26	210	190	668	1440	353	278	45	127	85	425	7.7	14
27	190	175	523	2190	299	237	92	107	82	257	7.7	219
28	170	164	381	1050	250	247	73	92	64	240	16	684
29	160	130	298	520	216	207	67	87	49	389	33	228
30	150	115	445	441	---	341	64	292	43	487	27	465
31	163	---	1880	335	---	299	---	240	---	429	16	---
TOTAL	5502	6441	9456	18013	17273	10119	5467	6960	3029	7777	1791.2	2398.3
MEAN	150	201	305	521	546	326	156	225	101	251	57.8	79.9
MAX	750	1250	1480	3670	1320	850	690	815	247	1970	303	684
MIN	40	77	109	120	190	105	58	65	34	27	7.7	8.6
CFSM	1.41	2.20	2.38	4.54	4.06	2.55	1.53	1.76	.79	1.96	.45	.62
IN.	1.02	2.45	2.75	5.23	5.02	2.94	1.71	2.02	.88	2.26	.52	.70

CAL YR 1975 TOTAL 142341.7 MEAN 390 MAX 3450 MIN 8.7 CFM 3.05 IN 41.37

YR 1976 TOTAL 96702.5 MEAN 264 MAX 3270 MIN 7.7 CFM 2.06 IN 28.11

KANAWHA RIVER BASIN

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03189100 GAULEY RIVER NEAR CRAIGSVILLE, WV

LOCATION.--Lat 38°17'30", long 80°38'30", Nicholas County, Hydrologic Unit 05050005, 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).

WATER-DISCHARGE RECORDS

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.

REMARKS.--Water-discharge records good. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--12 years, 1,444 ft³/s (40.89 m³/s), 37.14 in/yr (943 mm/yr).

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,900 ft³/s (507 m³/s) Jan. 1, gage height, 16.98 ft (5.176 m), no other peak above base of 12,000 ft³/s (340 m³/s); minimum, 55 ft³/s (1.56 m³/s) Aug. 27, gage height, 9.02 ft (2.749 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	470	554	612	13000	1420	897	2650	286	616	227	1830	78
2	414	509	651	5450	1100	797	2520	556	608	204	1220	141
3	367	473	602	3930	940	719	2180	603	648	173	860	236
4	311	439	568	3710	880	651	2810	578	586	164	640	195
5	266	407	550	2550	1020	602	2390	527	476	164	506	137
6	232	378	555	1700	4950	591	1840	492	392	250	422	106
7	210	360	1000	1500	3660	521	1480	482	344	300	428	81
8	199	414	1210	1400	2480	463	1210	483	300	255	458	69
9	205	428	1080	1100	1900	556	1000	419	265	640	398	62
10	229	448	1060	950	1500	706	857	372	231	512	339	300
11	312	890	926	1100	3400	1140	749	352	200	328	280	512
12	370	2180	836	1180	3880	1680	705	386	182	1320	236	275
13	274	5970	843	1050	3290	2110	607	344	195	1220	213	182
14	233	3250	849	3190	5050	2290	542	293	218	656	380	132
15	211	2230	845	2520	3380	1710	483	273	218	470	285	114
16	202	1820	2040	1900	2770	1580	438	1480	177	1120	260	132
17	837	1900	2350	1200	3110	1960	401	2630	186	2280	227	150
18	4830	2140	1820	900	3380	1590	362	2350	200	1230	186	164
19	2340	2060	1330	700	3880	1810	328	3580	186	752	155	146
20	1560	1750	1180	850	2800	1970	303	2500	452	537	128	137
21	1260	1660	1020	750	2080	3040	289	1730	752	428	106	164
22	1030	1630	839	660	2330	3770	281	1310	1490	344	92	186
23	862	1280	650	600	2520	2550	271	990	832	624	81	164
24	732	1090	600	680	2000	1910	247	787	518	3840	72	137
25	635	964	560	850	1830	1560	235	656	416	2900	67	110
26	580	830	1790	4380	1610	1340	302	558	410	1490	60	99
27	574	743	2620	8430	1390	1140	423	482	356	950	60	608
28	522	721	1840	4580	1180	1110	341	422	280	712	74	2790
29	470	620	1460	2960	1030	976	291	380	227	1240	119	1290
30	639	563	1580	2170	---	1330	273	586	227	2560	128	1850
31	627	---	5240	1690	---	1350	---	805	---	2390	106	---
TOTAL	22003	38701	39106	77630	78760	44419	26808	27692	12188	30280	10416	10747
MEAN	710	1290	1281	2504	2440	1433	894	893	406	977	336	358
MAX	4830	5970	5240	13000	5050	3770	2810	3580	1490	3840	1830	2790
MIN	199	360	550	600	880	463	235	273	177	164	60	62
CFSM	1.34	2.44	2.39	4.74	4.62	2.71	1.69	1.69	.77	1.85	.64	.68
IN.	1.55	2.73	2.76	5.47	4.99	3.13	1.89	1.95	.86	2.13	.73	.76

CAL YR 1975 TOTAL 636579 MEAN 1744 MAX 15000 MIN 50 CFSM 3.30 IN 44.85
WTR YR 1976 TOTAL 410750 MEAN 1122 MAX 13000 MIN 60 CFSM 2.13 IN 28.94

KANAWHA RIVER BASIN

03189100 GAULEY RIVER NEAR CRAIGSVILLE, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-73, 1975 to current year.

PERIOD OF DAILY RECORD. - -

WATER TEMPERATURES: November 1974 to current year.

INSTRUMENTATION.--Temperature recorder since Nov. 5, 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.0°C Aug. 1, 2, 1975; minimum, 0.5°C on several days in 1975.

EXTREMES FOR CURRENT YEAR. - -

WATER TEMPERATURES: Maximum, 27.5°C June 28, 29; minimum, 1.0°C Jan. 17, 18, 20, 21, 23, 25, 26.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	13.5	9.5	7.5	8.0	6.0	6.0	5.5	2.5	2.0	10.0	8.0
2	16.0	13.0	10.5	8.5	6.0	5.5	5.5	4.5	---	---	11.0	8.5
3	13.0	12.0	11.0	9.0	5.5	4.5	5.5	4.5	---	---	12.0	9.5
4	---	---	12.0	10.0	5.0	3.5	4.5	1.5	---	---	13.5	10.5
5	---	---	12.5	11.0	5.0	3.5	---	---	---	---	12.5	12.0
6	---	---	13.5	11.5	5.5	4.0	---	---	---	---	12.0	10.0
7	---	---	13.0	12.5	6.0	5.0	---	---	---	---	10.0	8.0
8	---	---	14.5	12.5	7.0	6.0	---	---	---	---	8.5	7.0
9	---	---	14.0	12.0	7.0	6.5	---	---	---	---	7.0	5.5
10	---	---	15.0	13.0	6.5	5.0	---	---	---	---	8.0	5.5
11	---	---	13.0	11.0	5.0	4.0	---	---	---	---	9.0	6.5
12	---	---	12.0	11.5	4.5	3.5	---	---	---	---	8.0	7.0
13	---	---	12.0	9.0	6.0	4.0	---	---	---	---	8.0	6.0
14	---	---	9.0	6.0	6.0	5.0	---	---	---	---	6.5	5.0
15	---	---	6.0	5.5	7.5	6.0	2.0	1.5	---	---	7.0	5.0
16	---	---	6.5	6.0	7.5	7.0	2.5	2.0	---	---	7.0	5.0
17	---	---	7.0	5.5	7.0	5.5	2.0	1.0	---	---	5.0	2.5
18	---	---	7.5	6.5	5.5	2.0	1.5	1.0	---	---	4.0	2.0
19	---	---	8.0	6.5	2.0	1.5	---	---	---	---	6.0	3.5
20	---	---	8.5	7.0	2.0	1.5	1.5	1.0	7.5	6.5	9.0	6.0
21	---	---	9.0	8.5	2.0	2.0	1.5	1.0	8.0	6.5	10.0	9.0
22	---	---	8.5	6.5	2.0	1.5	---	---	8.0	6.5	9.0	7.5
23	---	---	6.5	5.5	1.5	1.5	1.5	1.0	6.5	4.0	8.0	6.0
24	---	---	5.5	4.5	1.5	1.5	2.0	1.5	5.0	3.0	9.0	6.5
25	---	---	6.0	5.0	1.5	1.5	1.5	1.0	6.5	4.0	9.0	8.5
26	---	---	6.0	5.0	1.5	1.5	4.0	1.0	8.0	6.0	10.5	8.0
27	---	---	6.5	5.5	2.5	1.5	3.5	2.5	9.0	6.5	12.0	10.0
28	---	---	5.5	4.5	3.0	2.5	2.5	2.0	9.0	6.5	13.0	10.0
29	---	---	5.0	4.0	4.0	3.0	2.5	2.0	9.5	7.0	11.0	10.0
30	12.5	10.5	7.5	5.0	4.5	3.5	2.0	1.5	---	---	13.5	10.0
31	10.5	8.5	---	---	6.0	4.5	2.0	1.5	---	---	13.0	12.5
MONTH	---	---	15.0	4.0	8.0	1.5	---	---	---	---	13.5	2.0
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	9.0	14.0	13.0	20.0	17.5	24.0	22.0	20.5	18.5	21.5	17.5
2	9.0	6.5	15.5	12.0	19.0	18.5	24.0	20.0	20.0	18.0	20.5	19.0
3	9.0	6.0	15.0	13.0	19.0	17.5	22.5	21.0	20.5	17.0	21.0	17.5
4	9.5	8.0	15.0	11.5	21.0	16.0	22.5	19.5	21.5	17.5	21.5	18.0
5	9.5	7.0	16.5	11.0	21.5	17.0	22.5	19.5	21.5	18.5	22.0	18.5
6	10.5	7.5	17.5	14.0	21.0	17.5	21.5	20.0	22.5	20.0	22.5	17.5</

KANAWHA RIVER BASIN

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03189590 SUMMERSVILLE LAKE NEAR SUMMERSVILLE, WV

LOCATION.--Lat 38°13'20", long 80°53'35", Nicholas County, Hydrologic Unit 05050005, 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.

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. This is a multipurpose reservoir.

COOPERATION.--Records were furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 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).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 194,600 acre-ft (240 hm³) June 22, elevation, 1,653.10 ft (503.865 m); minimum, 57,140 acre-ft (70.5 hm³) Jan. 15, elevation, 1,574.16 ft (479.804 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)	Change in Contents (equivalent in cfs)
Sept. 30.....	1647.52	179400	-	-
Oct. 31.....	1611.33	103500	-75900	-1230
Nov. 30.....	1575.30	58200	-45300	-761
Dec. 31.....	1577.48	60270	+2070	+34
CAL YR 1975	-	-	+8340	+12
Jan. 31.....	1575.42	58310	-1960	-32
Feb. 29.....	1575.51	58400	+90	+2
Mar. 31.....	1607.77	97850	+39450	+642
Apr. 30.....	1638.92	157900	+60050	+1010
May 31.....	1652.77	194000	+36100	+587
June 30.....	1652.77	194000	0	0
July 31.....	1652.24	192200	-1800	-29
Aug. 31.....	1646.41	176500	-15700	-255
Sept. 30.....	1640.95	162700	-13800	-232
WTR YR 1976	-	-	-16700	-23

KANAWHA RIVER BASIN

03189600 GAULEY RIVER BELOW SUMMERSVILLE DAM, WV

LOCATION.--Lat 38°13'00", long 80°53'30", Nicholas County, Hydrologic Unit 05050005, 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).

WATER-DISCHARGE RECORDS

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

REVISED RECORD.--WDR WV-67: 1966.

GAGE.--Water-stage recorder. Datum of gage is 1,350.00 ft (411.480 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Water-discharge records good above 1,000 ft³/s (28.3 m³/s) and fair below. Flow regulated by Summersville Lake (station 03189590).

AVERAGE DISCHARGE.--10 years, 2,184 ft³/s (61.85 m³/s), 36.89 in/yr (937 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,000 ft³/s (368 m³/s) Jan. 1, gage height, 17.38 ft (5.297 m); minimum, 74 ft³/s (2.10 m³/s) Mar. 15, 16, gage height, 6.06 ft (1.847 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	1400	680	11900	2090	1280	90	112	1180	440	1790	610
2	512	1390	725	12800	1860	1180	84	112	985	296	1860	312
3	516	1390	725	8330	1620	945	86	112	775	240	910	260
4	516	1380	720	5000	1330	705	86	112	540	240	595	685
5	516	1380	715	3730	1330	705	1020	112	440	204	480	870
6	1820	1380	715	2260	4340	705	1630	112	364	112	456	870
7	2500	1480	1350	1670	7460	710	171	112	320	288	890	915
8	2500	1650	1880	2100	4100	710	80	112	320	388	536	905
9	1520	1650	1700	2150	2830	710	106	112	320	900	408	985
10	735	1650	1430	1440	2260	710	159	112	220	980	408	1070
11	2210	1640	1580	2020	2950	715	159	112	162	372	468	1070
12	2490	1980	1190	1660	4730	720	162	112	162	2160	570	1070
13	1310	4420	1030	1340	4360	730	162	112	171	1690	348	1070
14	90	5770	1020	3580	6280	740	162	112	208	835	496	1000
15	90	5030	1220	4010	6020	480	147	112	208	560	508	765
16	90	4730	2550	3490	3690	126	123	114	208	1050	392	440
17	1000	4500	3680	2970	3400	165	120	112	212	3810	228	248
18	4310	3620	3300	1450	4500	165	120	112	212	2050	224	1930
19	5570	3590	2100	650	5200	1120	120	745	212	1070	384	1720
20	4610	4040	1700	1290	3330	2320	120	2800	850	436	565	184
21	4600	3410	1580	1330	2800	3960	120	2870	1820	432	565	184
22	4500	2840	1240	900	2790	5950	120	2260	2960	565	565	184
23	3090	2610	905	700	3010	4100	120	1360	1950	1040	565	184
24	2340	2020	725	1090	3120	2740	120	910	710	3500	935	184
25	2330	2020	720	1340	2510	2310	120	910	760	3740	1030	184
26	2320	1710	1570	2010	2260	1860	123	575	605	1720	400	184
27	2310	1120	3250	7880	1920	1710	123	300	380	1110	1130	184
28	2300	1390	2860	9410	1800	1480	123	332	380	1000	1130	720
29	2970	1470	2370	4930	1360	1510	116	408	240	1380	1130	1250
30	2380	1150	1900	2950	---	1750	110	512	288	2770	1130	1240
31	1410	---	3340	2400	---	625	---	1180	---	3140	930	---
TOTAL	64715	73810	50470	111620	95250	43636	6102	17180	18162	38518	22026	21477
MEAN	2088	2460	1628	3601	3284	1408	203	554	605	1243	711	716
MAX	5570	5770	3680	12000	7460	5950	1630	2870	2960	3810	1860	1930
MIN	90	1120	680	700	1330	126	80	112	162	112	224	184

CAL YR 1975 TOTAL 865506 MEAN 2371 MAX 15200 MIN 49 MEAN# 2383 CFSM# 2.96 IN# 40.18
WTR YR 1976 TOTAL 562906 MEAN 1530 MAX 12800 MIN 80 MEAN# 1515 CFSM# 1.88 IN# 25.59

Adjusted for change in contents in Summersville Lake.

WATER-QUALITY RECORDS

WATER TEMPERATURES: November 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD. - -

WATER TEMPERATURES: Maximum 23.0°C Aug. 26, Sept. 3, 1975; minimum, 0.5°C Jan. 9, 1975.

EXTREMES FOR CURRENT YEAR. - -

WATER TEMPERATURES: Maximum, 21.0°C Sept. 25; minimum, 1.5°C Jan. 18, 19, 22, 23, 27.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	17.5	16.5	16.0	8.0	7.5	4.0	4.0	2.5	2.0	6.0	5.5
2	17.5	17.0	16.0	15.5	8.0	8.0	5.0	4.0	2.5	2.0	6.0	6.0
3	17.5	16.5	15.5	15.5	8.0	8.0	5.0	5.0	2.5	2.0	6.5	6.0
4	17.5	17.0	15.5	15.5	8.5	8.0	5.0	5.0	2.5	2.5	6.5	6.0
5	17.5	17.0	15.5	15.0	8.0	7.5	5.0	5.0	2.5	2.0	6.5	6.0
6	17.5	17.0	15.5	15.0	8.0	7.5	5.0	4.5	2.0	2.0	6.5	6.0
7	17.5	17.5	15.5	15.0	7.5	7.5	4.5	4.0	2.5	2.0	6.5	6.0
8	18.0	17.5	15.5	15.0	7.5	7.5	4.5	4.0	2.5	2.0	6.5	6.0
9	18.5	17.5	15.5	15.0	7.5	7.0	4.5	3.5	2.0	2.0	6.5	6.0
10	18.0	17.0	15.5	15.0	7.0	7.0	4.0	3.5	2.0	2.0	7.0	6.0
11	18.0	18.0	15.5	15.5	7.0	7.0	4.0	4.0	2.0	2.0	7.0	6.5
12	18.0	18.0	15.5	15.5	7.0	7.0	4.0	4.0	2.0	2.0	7.0	6.5
13	19.5	17.0	15.5	14.5	7.0	6.5	4.0	3.5	2.5	2.0	6.5	6.5
14	19.5	16.5	14.5	13.0	7.0	6.5	3.5	3.0	2.5	2.5	7.5	6.5
15	19.5	17.0	13.0	11.5	6.5	6.5	3.0	3.0	3.0	2.5	8.0	6.5
16	18.0	17.5	11.5	11.0	6.5	6.0	3.0	2.5	4.0	3.0	7.0	6.0
17	18.0	17.0	11.0	10.5	6.5	6.0	2.5	2.0	4.0	3.5	6.0	5.5
18	18.5	18.0	10.5	10.0	6.5	6.0	2.5	1.5	4.0	3.5	8.0	5.5
19	18.5	17.0	10.0	10.0	6.5	6.5	2.0	1.5	5.0	4.0	7.0	6.0
20	17.0	17.0	10.0	10.0	6.5	6.0	2.0	2.0	6.0	4.5	6.5	6.5
21	17.0	16.5	10.0	9.5	6.0	5.5	2.0	2.0	6.5	5.0	6.5	6.0
22	16.5	16.5	10.0	9.5	5.5	5.0	2.0	1.5	5.5	5.0	6.5	6.0
23	16.5	16.0	10.0	9.5	5.5	5.0	2.0	1.5	6.0	5.5	7.0	6.5
24	16.0	16.0	9.5	9.5	5.0	5.0	2.0	2.0	6.5	6.0	7.0	6.5
25	16.0	16.0	9.0	9.0	5.0	5.0	2.0	2.0	6.0	6.0	7.0	6.5
26	16.0	16.0	9.0	8.5	5.0	5.0	2.0	2.0	6.0	5.5	7.5	7.0
27	16.5	16.0	9.5	8.5	5.0	4.5	2.0	1.5	5.5	5.5	7.5	7.0
28	16.5	16.0	8.5	8.0	5.0	4.5	2.5	2.0	5.5	5.5	7.5	7.0
29	16.5	16.5	8.5	8.5	4.5	4.0	2.5	2.5	6.0	5.5	7.5	7.0
30	16.5	16.0	8.5	8.5	4.0	4.0	2.5	2.5	---	---	8.0	7.5
31	16.5	16.0	---	---	4.0	3.5	2.5	2.5	---	---	11.0	7.5
MONTH	19.5	16.0	16.5	8.0	8.5	3.5	5.0	1.5	6.5	2.0	11.0	5.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	7.0	9.0	8.0	9.0	8.5	10.0	9.5	15.5	15.0	19.5	18.5
2	8.0	6.5	10.5	8.0	9.0	9.0	11.5	9.5	16.0	15.5	19.5	18.5
3	15.0	6.0	11.0	7.5	9.0	9.0	10.5	9.5	16.5	15.5	19.5	18.0
4	15.5	10.5	10.5	7.5	9.5	9.0	11.0	9.5	16.5	15.0	19.0	18.5
5	13.5	11.0	11.0	7.0	9.5	8.5	12.5	9.5	16.5	15.5	19.5	19.0
6	12.0	11.0	10.5	8.0	10.0	8.5	11.5	10.0	16.5	15.5	19.0	18.5
7	15.5	7.0	9.0	8.0	10.0	9.0	10.5	9.5	16.5	16.0	19.5	18.5
8	14.5	6.0	10.5	7.5	10.0	9.0	10.5	9.5	16.5	16.0	19.5	19.0
9	13.0	5.0	11.0	7.0	10.0	9.0	10.5	10.0	17.0	16.0	19.5	19.0
10	9.0	7.0	11.0	7.5	11.0	9.0	10.5	9.5	17.0	16.0	19.5	19.0
11	7.5	7.0	10.5	8.0	10.5	9.0	11.5	10.0	17.5	16.0	19.5	19.0
12	9.0	7.0	11.0	8.0	11.5	9.0	15.0	10.0	18.0	16.5	19.5	19.0
13	9.0	7.0	11.5	7.5	11.0	9.0	11.0	10.0	18.0	16.5	19.5	19.0
14	9.0	7.0	10.5	8.5	10.5	9.0	11.0	10.0	17.5	16.5	19.5	19.5
15	9.5	7.5	9.5	8.5	10.5	9.0	12.0	10.5	18.0	17.0	19.5	19.5
16	10.5	7.5	11.0	8.5	10.5	9.0	11.0	10.5	18.0	16.5	19.5	19.0
17	10.5	7.5	11.0	8.5	10.5	9.0	11.0	10.5	18.0	16.5	19.5	19.0
18	10.5	7.5	9.0	8.0	11.0	9.0	11.5	11.0	18.0	16.0	19.5	19.0
19	10.5	7.5	11.0	7.5	10.0	9.0	12.0	11.0	18.0	16.5	20.0	19.0
20	10.5	8.0	8.5	8.0	10.5	9.0	12.5	11.0	18.5	17.5	20.0	19.0
21	10.0	8.0	8.5	8.0	9.5	9.0	12.5	11.5	18.5	17.5	20.5	18.5
22	10.5	8.0	8.5	8.0	9.0	9.0	12.5	11.5	18.5	17.5	20.5	18.5
23	10.5	7.5	9.0	8.0	9.5	9.0	12.0	11.5	18.5	17.5	20.5	18.5
24	11.0	7.5	9.0	8.5	10.0	9.5	12.5	12.0	18.5	18.0	20.5	19.0
25	10.5	8.0	9.0	8.5	10.0	9.5	13.0	12.5	18.5	18.0	21.0	19.0
26	8.0	7.5	9.0	8.5	10.0	9.5	13.5	13.0	20.0	18.0	19.5	19.0
27	8.0	7.0	9.5	8.0	10.5	9.5	13.5	13.0	18.5	18.5	19.5	19.5
28	9.0	7.0	9.5	8.5	10.5	9.5	14.5	13.5	18.5	18.5	19.5	19.0
29	11.0	7.0	9.5	8.5	11.5	9.5	14.5	13.5	19.0	18.5	19.5	18.5
30	11.0	7.0	9.5	8.5	11.0	9.5	14.5	14.0	18.5	18.5	18.5	18.0
31	---	---	9.0	8.5	---	---	15.0	14.5	19.0	18.5	---	---
MONTH	15.5	5.0	11.5	7.0	11.5	8.5	15.0	9.5	20.0	15.0	21.0	18.0
YEAR	21.0	1.5										

KANAWHA RIVER BASIN

03189650 COLLISON CREEK NEAR NALLEN, WV

LOCATION.--Lat 38°10'35", long 80°52'07", Nicholas County, Hydrologic Unit 05050005, 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.--Annual maximum, water year 1966. 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.

REMARKS.--Records poor. 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.

AVERAGE DISCHARGE.--10 years, 4.71 ft³/s (0.133 m³/s), 23.01 in/yr (584 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 342 ft³/s (9.69 m³/s) June 2, 1974, gage height, 9.81 ft (2.990 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 110 ft³/s (3.12 m³/s) Jan. 1, gage height, 6.04 ft (1.841 m), no other peak above base of 70 ft³/s (2.0 m³/s); minimum daily, 0.01 ft³/s (<0.001 m³/s) Sept. 6, 7, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.32	.06	.48	74	2.3	2.3	10	.10	.15	1.4	3.4	.02
2	.26	.05	.48	27	2.0	1.9	17	.26	.08	1.4	1.6	.20
3	.20	.04	.38	19	1.7	1.6	8.0	.26	.15	1.6	.69	.20
4	.10	.03	.48	16	1.6	1.6	6.0	.20	.10	2.5	.10	.08
5	.06	.03	.26	7.9	2.0	1.4	5.0	.10	.06	2.5	.05	.02
6	.06	.03	.20	3.6	21	1.3	4.1	.10	.05	2.5	.05	.01
7	.06	.03	3.4	1.9	14	1.3	3.0	.15	.04	3.0	1.6	.01
8	.06	.03	4.1	1.0	7.9	3.2	2.3	.15	.03	4.1	.26	.03
9	.08	.02	4.7	.60	4.4	4.7	1.9	.08	.03	6.1	.15	.01
10	.08	.02	6.7	.30	3.2	9.9	1.4	.08	.03	5.0	.20	1.4
11	.08	.05	5.8	.20	5.8	9.0	1.4	.06	.03	4.7	.26	.40
12	.08	8.4	5.3	.15	6.4	6.4	1.1	.15	.03	26	.48	.15
13	.06	16	4.4	.32	6.0	4.4	.80	.06	.20	16	.95	.05
14	.06	6.1	3.6	21	10	3.6	.69	.04	.03	12	1.7	.03
15	.05	3.4	5.3	6.4	7.5	3.8	.58	.06	.02	12	2.5	.40
16	.04	3.8	23	1.9	6.5	3.4	.48	3.2	.02	16	3.0	1.0
17	.95	3.8	18	.38	5.5	3.8	.38	7.6	.03	21	3.0	.80
18	2.1	2.8	11	.10	5.8	4.7	.38	8.7	.03	15	2.8	.40
19	.26	1.4	4.5	.05	6.1	12	.26	11	.03	9.3	3.0	.20
20	.05	1.6	2.5	.04	5.5	20	.26	5.3	3.0	3.0	2.8	.10
21	.02	3.0	1.5	.04	4.7	9.6	.20	2.5	2.3	.95	2.3	.07
22	.02	2.3	.40	.04	5.3	6.0	.15	1.1	7.3	.48	1.6	.05
23	.02	1.7	.08	.03	5.5	4.5	.06	.38	1.9	2.3	1.3	.03
24	.02	1.4	.06	.04	5.3	4.0	.06	.26	1.1	1.3	.69	.02
25	.02	1.1	.05	2.3	5.3	3.5	.06	.08	.95	1.3	.26	.02
26	.02	.48	5.5	7.0	4.7	3.0	.15	.06	2.1	.20	.05	.03
27	.02	.26	7.0	19	3.8	2.6	.15	.05	1.1	.08	.02	.20
28	.02	.32	6.1	15	3.2	2.4	.06	.04	.58	.06	.03	4.4
29	.02	.08	5.8	7.6	2.5	2.2	.06	.04	.26	.06	.69	1.6
30	.32	.06	5.3	3.6	---	2.2	.06	.10	1.7	8.7	.08	17
31	.15	---	20	1.9	---	2.3	---	.06	---	5.3	.03	---
TOTAL	5.66	58.39	156.37	238.39	165.5	142.6	66.04	42.32	23.43	185.83	35.64	28.93
MEAN	.18	1.95	5.04	7.69	5.71	4.60	2.20	1.37	.78	5.99	1.15	.96
MAX	2.1	16	23	74	21	20	17	11	7.3	26	3.4	17
MIN	.02	.02	.05	.03	1.6	1.3	.06	.04	.02	.06	.02	.01
CFSM	.06	.70	1.81	2.77	2.05	1.65	.79	.49	.28	2.15	.41	.35
IN.†	.08	.78	2.09	3.19	2.21	1.91	.88	.57	.31	2.49	.48	.39
IN.‡	2.60	2.83	4.03	3.66	3.02	---	---	4.25	4.69	5.90	2.16	---
CAL YR 1975 TOTAL	2058.39	MEAN 5.64	MAX 56	MIN .02	CFSM 2.03	IN†27.53						
WTR YR 1976 TOTAL	1149.10	MEAN 3.14	MAX 74	MIN .01	CFSM 1.13	IN†15.37						

† Runoff.

‡ Rainfall.

KANAWHA RIVER BASIN

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03190400 MEADOW RIVER NEAR MT. LOOKOUT, WV

LOCATION.--Lat 38°11'25", long 80°56'55", Nicholas County, Hydrologic Unit 05050005, 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.

REMARKS.--Records good. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--10 years, 774 ft³/s (21.92 m³/s), 28.80 in/yr (732 mm/yr).

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,280 ft³/s (234 m³/s) Jan. 1, gage height, 10.11 ft (3.082 m), no other peak above base of 5,000 ft³/s (140 m³/s); minimum, 27 ft³/s (0.76 m³/s) Sept. 9, gage height, 2.88 ft (0.878 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	193	238	268	6880	982	532	1250	125	288	135	770	40
2	106	215	282	4720	800	463	1670	169	290	112	557	39
3	143	202	271	3220	640	413	1510	252	273	95	369	51
4	122	187	250	2530	620	374	1300	226	270	87	269	57
5	106	174	234	1600	650	346	1030	201	249	88	202	58
6	93	161	226	1300	1990	329	781	183	204	85	163	41
7	84	156	270	1000	2270	302	623	177	167	81	242	34
8	80	168	293	900	1580	275	525	167	139	157	187	30
9	86	216	316	800	1250	327	445	156	118	171	152	28
10	92	206	360	550	957	484	386	142	101	234	125	46
11	97	297	358	560	1150	730	351	136	87	154	103	59
12	103	880	346	800	1790	1220	326	141	76	695	85	101
13	108	2930	342	561	1530	1250	291	140	88	991	73	61
14	89	2100	338	1850	2100	1170	268	125	74	534	101	42
15	78	1440	357	1640	2010	985	247	117	63	361	232	39
16	74	1120	853	1270	1670	826	227	154	114	394	222	43
17	199	1060	1090	987	1390	822	208	392	124	637	158	47
18	1310	1100	902	580	1540	746	192	615	138	446	111	56
19	1080	1020	660	450	2160	875	178	888	135	283	82	66
20	806	852	500	450	2050	950	167	768	378	200	67	51
21	651	756	400	400	1660	1220	161	583	603	153	55	43
22	507	724	340	380	1410	1740	154	451	718	122	48	38
23	372	613	300	380	1310	1410	145	362	708	134	44	34
24	292	529	290	400	1100	1090	141	299	451	169	38	31
25	249	469	280	885	1030	888	131	257	322	152	34	30
26	223	411	507	1540	949	752	148	218	318	116	33	28
27	215	364	1090	3040	834	651	160	184	303	98	31	40
28	204	338	1060	2830	711	593	156	159	217	76	32	289
29	184	298	900	2140	616	518	136	141	164	137	41	360
30	210	267	809	1640	---	501	124	188	152	774	46	553
31	249	---	1390	1220	---	512	---	279	---	1110	45	---
TOTAL	8465	19495	15882	46803	38749	23295	13431	8395	7332	9181	4717	2435
MEAN	273	650	512	1510	1336	751	448	271	244	296	152	81.2
MAX	1310	2930	1390	6880	2270	1740	1670	888	718	1110	770	553
MIN	74	156	226	380	616	276	124	117	63	76	31	28
CFSM	.75	1.78	1.40	4.14	3.66	2.06	1.23	.74	.67	.81	.42	.22
IN.	.86	1.99	1.62	4.77	3.95	2.37	1.37	.86	.75	.94	.48	.25
CAL YR 1975 TOTAL	326591		MEAN 895	MAX 8640	MIN 28	CFSM 2.45	IN 33.29					
WTR YR 1976 TOTAL	198180		MEAN 541	MAX 6880	MIN 28	CFSM 1.48	IN 20.20					

KANAWHA RIVER BASIN

03192000 GAULEY RIVER ABOVE BELVA, WV

LOCATION.--Lat 38°14'00", long 81°10'45", Nicholas County, Hydrologic Unit 05050005, 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.

REVISED RECORDS.--WSP 783: Drainage area. WSP 873: 1938. WSP 1275: 1929-30.

GAGE.--Water-stage recorder. Datum of gage is 669.00 ft (203.911 m) above mean sea level, adjustment of 1912.

REMARKS.--Records good. Flow regulated since 1965 by Summersville Lake (station 03189590). Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--48 years, 2,691 ft³/s (76.21 m³/s), 27.79 in/yr (706 mm/yr), unadjusted.

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,300 ft³/s (716 m³/s) Jan. 1, gage height, 12.72 ft (3.877 m); minimum, 160 ft³/s (4.53 m³/s) Aug. 27, gage height, 1.24 ft (0.378 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	1560	1280	21700	3490	1860	1200	258	1550	510	2900	733
2	732	1530	996	18600	3140	1760	1800	287	1350	554	2180	547
3	666	1510	993	14000	2730	1460	1700	354	1070	333	1710	277
4	643	1490	970	9020	2220	1150	1500	387	991	326	827	315
5	627	1470	948	6670	2140	1090	1830	344	712	313	734	847
6	1070	1460	944	4640	4890	1070	3190	320	656	289	527	833
7	2500	1460	1280	3290	10300	1030	1180	314	499	204	854	824
8	2520	1720	2200	3020	6540	1000	752	306	465	435	888	886
9	2370	1750	2200	3430	4430	1060	643	289	442	536	529	825
10	397	1760	1820	2250	3450	1300	604	275	422	1430	469	1150
11	1710	1780	2000	2200	3440	1500	577	266	286	659	444	1060
12	2450	2850	1800	3090	6570	1900	547	270	236	2460	570	1060
13	2230	7140	1390	2140	6310	2100	509	264	234	3650	593	1040
14	341	8020	1360	4530	8030	2100	478	257	314	1490	299	1000
15	196	6780	1460	7190	8830	1700	454	250	281	1080	705	903
16	166	5840	3200	4960	6000	1200	416	278	264	913	701	636
17	305	5640	5070	4520	4910	1000	381	412	355	4570	426	332
18	4460	5050	4850	2830	6060	1000	359	851	317	2970	311	764
19	6800	4480	3130	1420	7240	1600	341	1300	357	1780	268	2430
20	5470	4840	2290	1630	6100	3000	324	3240	502	749	482	534
21	5260	4760	2200	2090	4620	5500	316	3670	2250	541	576	208
22	5080	3250	1790	1470	4330	8000	308	2900	3250	531	567	195
23	4020	3560	1370	1100	4270	6000	296	2110	3190	860	561	183
24	2530	2520	1060	1320	4580	4500	287	1190	1430	1950	581	177
25	2460	2450	1060	2010	3610	3500	280	1130	1040	4950	1050	174
26	2440	2240	1540	3640	3450	3000	289	1030	1080	2330	618	173
27	2410	1740	4150	9880	2810	2500	303	555	740	990	685	209
28	2390	1220	4400	13700	2650	2300	299	464	607	1230	1070	432
29	2750	2060	3390	8000	2160	2200	288	507	542	789	1090	1720
30	3080	1340	3090	5310	---	2400	264	611	346	2960	1060	2090
31	1580	---	3840	3880	---	1600	---	1050	---	4550	1010	---
TOTAL	71203	93270	68071	173530	139300	71380	21715	25739	25778	46932	25285	22557
MEAN	2297	3109	2196	5598	4803	2303	724	830	859	1514	816	752
MAX	6800	8020	5070	21700	10300	8000	3190	3670	3250	4950	2900	2430
MIN	166	1220	944	1100	2140	1000	264	250	234	204	268	173

CAL YR 1975 TOTAL 1246345 MEAN 3415 MAX 26600 MIN 159 MEAN₂ 3427 CFSM₂ 2.61 IN₂ 35.43
WTR YR 1976 TOTAL 784760 MEAN 2144 MAX 21700 MIN 173 MEAN₂ 2121 CFSM₂ 1.61 IN₂ 21.91

‡ Adjusted for change in contents in Summersville Lake.

KANAWHA RIVER BASIN

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03193000 KANAWHA RIVER AT KANAWHA FALLS, WV

LOCATION.--Lat 38°08'20", long 81°12'45", Fayette County, Hydrologic Unit 05050006, 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).

WATER-DISCHARGE RECORDS

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".

REVISED RECORDS.--WSP 783: Drainage area. WSP 923: 1878, 1886, 1897, 1899, 1901-3. WSP 1305: 1902(M), 1940. WSP 1335: 1931.

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.

REMARKS.--Water discharge records good. Flow regulated since 1939 by Claytor Lake (station 03169000), since 1949 by Bluestone Lake (station 03179800), and since 1965 by Summersville Lake (station 03189590). Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--99 years, 12,510 ft³/s (354.3 m³/s), 20.30 in/yr (516 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 91,700 ft³/s (2,600 m³/s) Jan. 1, gage height, 16.35 ft (4.983 m); minimum, 1,870 ft³/s (53.0 m³/s) Aug. 17, gage height, 2.16 ft (0.658 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6520	6460	6060	71900	18800	8210	23000	3490	8070	6990	7490	4040
2	5450	6220	4320	81800	16200	7220	30700	4310	8820	7960	6420	3410
3	5630	4530	5050	57500	14000	9500	24800	5720	7550	5990	5550	2980
4	5090	4730	4660	39900	13900	7900	19200	5010	10400	5860	5360	2900
5	4320	5280	5020	29500	11600	7140	15900	4250	11400	4370	3870	3220
6	3500	5380	4540	20300	16100	7210	15000	3990	7940	5560	3670	2860
7	5000	5290	5020	16800	23500	6610	11700	3840	6300	6100	3650	2550
8	5110	5640	5700	14100	21800	6230	9480	3810	5220	5750	3800	2640
9	5740	5640	5790	13000	14600	5580	8940	3790	5070	6300	2960	2560
10	4070	4830	6520	11100	14800	9810	7790	3130	5980	7290	3430	3110
11	4560	5560	7030	10700	12100	13800	8100	2990	5380	6550	2780	3330
12	5440	8030	7050	9140	16500	14500	5260	3540	4340	10400	3890	3560
13	4680	17400	6290	8990	16300	15900	4930	3860	4320	10500	3800	3430
14	2700	28400	6080	11800	19400	15400	6150	3950	3580	7700	3250	3050
15	3010	22300	4660	16100	21500	15000	5930	2980	3260	6130	3610	2900
16	3110	18400	7030	14800	18400	10400	5510	4380	3260	5480	3250	3280
17	4600	12200	10300	14000	17600	13100	5850	11700	4400	9460	2540	3970
18	10300	12000	10100	11100	22100	14100	5370	13200	18600	7030	2540	3430
19	49600	13100	9100	8360	30800	11300	4660	13300	18300	5120	2940	6560
20	32600	11600	9160	7130	31400	12800	4010	14500	14300	4290	3210	3910
21	22600	11700	7020	8040	24700	17300	4730	12000	25800	5590	3230	2780
22	15000	8970	5650	6840	21600	19200	5210	10400	37800	4650	3060	2790
23	11800	9640	4500	6380	19800	15100	4850	8340	37100	4920	2550	2450
24	9820	7270	4470	6290	18000	11300	3840	5960	23200	4820	2280	2920
25	8090	6530	5370	7580	19200	9410	4590	5320	15700	9430	2820	2810
26	7460	6720	5720	8320	16900	8870	3890	5140	13900	5280	3000	2540
27	5720	6920	8080	20700	15600	12700	3710	4770	10300	4520	3450	2420
28	5010	5760	16700	51500	15000	12400	3640	4900	11200	5310	2950	2830
29	6820	6300	14500	46500	12200	8410	4360	5250	9750	3910	2920	3650
30	7330	7780	13000	31600	---	8990	3970	8560	8350	6260	2970	6000
31	6220	---	11500	23300	---	12100	---	7370	---	9350	4040	---
TOTAL	276960	280580	225990	685470	534400	347490	265070	193750	349590	198870	111280	98880
MEAN	8934	9353	7290	22110	18430	11210	8836	6250	11650	6415	3590	3296
MAX	49600	28400	16700	81800	31400	19200	30700	14500	37800	10500	7490	6560
MIN	2700	4530	4320	6290	11600	5580	3640	2980	3260	3910	2280	2420

CAL YR 1975 TOTAL 5730250 MEAN 15700 MAX 96200 MIN 2120 CFSM 1.88 IN 25.47
WTR YR 1976 TOTAL 3568330 MEAN 9750 MAX 81800 MIN 2280 CFSM 1.17 IN 15.86

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LOCATION.--Lat 38°11'58", long 81°28'41", Kanawha County, Hydrologic Unit 05050006, at the Appalachian Electric Power Company, Cabin Creek steam electric cooling water intakes, at Cabin Creek.

PERIOD OF RECORD.--Water years 1951 to current year.

WATER TEMPERATURES: October 1950 to September 1972.

EXTREMES FOR PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: Maximum daily, 33.0°C on several days in August 1955 and 1959; minimum daily, 0.0°C Feb. 10, 1951, Feb. 14-16, 1958, Jan. 16, 1964, Feb. 2, 3, 1971.

[illegible]

03193830 GILMER RUN NEAR MARLINTON, WV

LOCATION.--Lat 38°19'12", long 80°05'52", Pocahontas County, Hydrologic Unit 05050007, 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.

REVISED RECORDS.--WDR WV-72: 1969-71(P).

GAGE.--Water-stage recorder and concrete dam and culvert control. Altitude of gage is 3,120 ft (951 m), from topographic map.

REMARKS.--Records poor. Doubtful or no gage-height record Dec. 2 to Jan. 6, Mar. 8 to Aug. 9.

AVERAGE DISCHARGE.--8 years, 4.02 ft³/s (0.114 m³/s), 30.33 in/yr (770 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 190 ft³/s (5.38 m³/s) Jan. 10, 1974, gage height, 6.91 ft (2.106 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, Aug. 3, 23-30, 1975, Sept. 9, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 80 ft³/s (2.3 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Oct. 17	2230	118 3.34	5.96 1.817	Dec. 31	---	*Unknown	Unknown
Nov. 12	1245	83 2.35	5.50 1.676				

Maximum daily discharge, 60 ft³/s (1.70 m³/s) Dec. 31.

Minimum daily discharge, 0.01 ft³/s (<0.001 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	4.0	.78	4.0	4.0	2.0	11	.02	4.0	.16	.40	.16
2	.45	3.8	.50	11	2.6	1.8	6.5	.03	6.0	.13	.30	.26
3	.32	3.6	.45	7.0	2.4	1.7	4.0	.04	5.0	.10	.25	.32
4	.19	3.4	.45	5.0	3.0	1.5	2.5	.08	3.6	.09	.20	.13
5	.13	3.2	.40	3.5	8.3	1.4	1.4	.08	2.0	.08	.15	.03
6	.10	3.0	.40	2.5	16	1.3	.95	.07	1.3	.08	.10	.06
7	.08	4.5	.40	2.3	8.0	1.1	.60	.06	.96	.25	.40	.06
8	.08	7.4	.40	2.0	5.0	.90	.45	.06	.72	.20	.20	.03
9	.06	5.9	.60	1.7	4.0	1.2	.30	.08	.52	.50	.12	.01
10	.16	18	.90	1.6	3.8	1.6	.25	.04	.32	.20	.08	2.0
11	.16	9.6	.70	1.5	15	2.7	.15	.04	.26	.08	.04	.39
12	.10	28	.70	1.5	7.0	5.0	.10	.04	.26	.50	.04	.16
13	.04	13	.70	3.5	9.3	8.5	.07	.04	.19	.20	.06	.13
14	.03	5.9	.70	16	10	7.0	.06	.03	.25	.12	.06	.03
15	.03	4.7	1.0	6.4	6.4	6.0	.05	.32	.20	.15	.08	.13
16	.02	4.2	2.5	4.7	5.7	6.5	.04	2.0	.40	.45	.10	.13
17	15	4.5	3.5	3.5	10	7.0	.04	2.0	.70	1.5	.10	.10
18	25	4.0	2.5	2.5	11	6.5	.03	1.4	.45	.70	.10	.10
19	7.4	3.6	2.0	2.0	9.6	6.0	.02	6.2	.30	.40	.13	.02
20	4.7	2.6	1.5	1.5	6.4	6.0	.03	4.0	4.5	.20	.16	.02
21	4.5	5.2	1.2	1.2	5.2	11	.02	2.2	6.0	.10	.06	.08
22	5.7	4.2	1.0	1.0	5.4	7.0	.02	1.5	4.0	.07	.08	.06
23	5.0	2.8	.85	.90	5.4	4.0	.02	.96	2.5	1.5	.08	.02
24	4.2	2.4	.75	4.0	4.7	3.2	.02	.72	1.5	10	.03	.02
25	4.2	1.9	.70	11	4.5	2.4	.02	.59	.90	5.0	.04	.02
26	4.2	1.3	25	44	4.2	2.0	.02	.45	.60	2.0	.06	.06
27	4.2	1.4	13	30	3.4	1.8	.02	.26	.40	.80	.08	5.7
28	4.0	.96	8.0	13	2.8	1.6	.02	.19	.26	.45	.08	2.8
29	3.8	.72	5.0	8.0	2.4	1.5	.02	.30	.19	.45	.10	.85
30	4.5	.72	10	5.7	---	2.5	.02	6.0	.16	.55	.13	8.3
31	4.2	---	60	4.2	---	5.5	---	5.0	---	.45	.13	---
TOTAL	103.27	158.50	146.58	242.70	185.5	118.20	28.64	35.30	48.44	27.46	3.94	22.18
MEAN	3.33	5.28	4.73	7.83	6.40	3.81	.95	1.14	1.61	.89	.13	.74
MAX	25	28	60	44	16	11	11	6.2	6.0	10	.40	8.3
MIN	.02	.72	.40	.90	2.4	.90	.02	.02	.16	.07	.03	.01
CFSM	1.85	2.93	2.63	4.35	3.56	2.12	.53	.63	.89	.49	.07	.41
IN.	2.13	3.27	3.03	5.01	3.83	2.44	.59	.73	1.00	.57	.08	.46

CAL YR 1975 TOTAL 1754.96 MEAN 4.81 MAX 74 MIN .01 CFSM 2.67 IN 36.25
WTR YR 1976 TOTAL 1120.71 MEAN 3.06 MAX 60 MIN .01 CFSM 1.70 IN 23.15

KANAWHA RIVER BASIN

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03194700 ELK RIVER BELOW WEBSTER SPRINGS, WV

LOCATION.--Lat 38°35'50", long 80°29'20", Webster County, Hydrologic Unit 05050007, 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).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,020 ft (311 m), by barometer.

REMARKS.--Water-discharge records good. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--17 years, 698 ft³/s (19.77 m³/s), 35.37 in/yr (898 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,900 ft³/s (677 m³/s) June 2, 1974, gage height, 13.97 ft (4.258 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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 flood marks pointed out by a local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,900 ft³/s (280 m³/s) July 24, gage height, 9.77 ft (2.978 m), no other peak above base of 8,500 ft³/s (240 m³/s); minimum, 25 ft³/s (0.71 m³/s) Aug. 26, 27, 28, gage height, 2.97 ft (0.905 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	188	271	5910	676	450	1180	202	276	172	522	40
2	176	176	317	2910	550	395	1340	292	240	119	370	50
3	177	166	309	1870	450	355	1260	335	244	100	280	121
4	146	157	293	1720	450	325	1870	308	248	90	208	93
5	125	149	293	950	501	300	1480	280	219	83	172	63
6	111	140	312	800	2950	288	1060	260	178	157	143	49
7	99	136	663	700	2260	264	786	252	140	143	145	40
8	93	134	768	600	1370	240	620	252	121	111	175	33
9	91	132	649	500	960	260	494	226	111	121	166	29
10	98	137	613	450	722	335	415	202	98	187	140	40
11	184	198	525	550	1460	480	365	187	90	138	119	196
12	217	620	465	648	1980	834	370	187	80	312	101	131
13	168	2420	452	557	1490	1060	312	172	72	390	93	88
14	137	1400	444	1560	2360	1230	284	154	72	252	87	60
15	121	920	432	1320	1790	913	256	143	88	178	83	51
16	112	754	1060	960	1340	810	236	157	76	187	87	51
17	131	816	1280	746	1420	1010	219	543	69	770	83	56
18	1570	897	941	529	1540	834	202	698	60	536	67	56
19	981	840	693	380	1510	913	190	1490	72	325	56	49
20	637	713	559	444	1160	990	178	1210	193	229	49	45
21	514	633	486	350	895	1700	175	826	330	178	42	46
22	426	603	406	320	913	2180	169	806	365	140	37	59
23	360	498	310	300	1090	1380	166	456	288	264	33	76
24	309	423	270	330	895	970	151	365	187	4790	30	57
25	271	373	260	474	886	786	143	296	148	2250	29	47
26	249	331	623	1480	818	683	178	248	276	1070	26	40
27	240	296	1260	3330	730	578	308	215	240	648	26	60
28	208	291	895	2390	620	599	252	187	166	432	30	536
29	202	261	661	1540	536	550	226	163	126	380	33	450
30	204	248	602	1080	---	676	208	157	131	529	54	564
31	203	---	1480	818	---	738	---	268	---	714	49	---
TOTAL	8748	15050	18592	36516	34322	23126	15093	11337	5004	15995	3535	3276
MEAN	282	502	600	1178	1184	746	503	366	167	516	114	109
MAX	1570	2420	1480	5910	2950	2180	1870	1490	365	4790	522	564
MIN	91	132	260	300	450	240	143	143	60	83	26	29
CFSM	1.05	1.87	2.24	4.40	4.42	2.78	1.88	1.37	.62	1.93	.43	.41
IN.	1.21	2.09	2.58	5.07	4.76	3.21	2.09	1.57	.69	2.22	.49	.45
CAL YR 1975	TOTAL	273587	MEAN 750	MAX 5630	MIN 46	CFSM 2.80	IN 37.98					
WTR YR 1976	TOTAL	190594	MEAN 521	MAX 5910	MIN 26	CFSM 1.94	IN 26.46					

KANAWHA RIVER BASIN

03194700 ELK RIVER BELOW WEBSTER SPRINGS, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

PERIOD OF DAILY RECORD. - -

WATER TEMPERATURES: February 1974 to current year.

TURBIDITY: January 1974 to March 1975.

INSTRUMENTATION.--Temperature recorder since Feb. 13, 1974.

EXTREMES FOR PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: Maximum, 31.0°C Aug. 1, 2, 1975; minimum, 0.0°C Jan. 16-19, 1975, Jan. 5-11, 1976.

EXTREMES FOR CURRENT YEAR. - -

WATER TEMPERATURES: Maximum, 27.5°C June 18; minimum, 0.0°C Jan. 5-11, 1976.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.5	9.0	8.0	7.0	5.5	6.5	6.0	3.0	2.5	9.0	7.5
2	16.0	14.0	10.0	9.0	5.5	4.5	6.0	5.5	3.0	1.0	10.0	8.5
3	14.5	12.5	10.5	9.0	4.5	3.5	6.0	5.5	1.5	1.5	11.0	9.5
4	13.5	11.0	11.5	10.0	3.5	2.0	5.5	1.5	2.5	1.5	12.5	10.5
5	14.0	13.0	11.5	11.0	3.0	2.0	2.5	0.0	3.5	1.5	12.5	11.5
6	15.5	13.5	13.0	11.0	4.5	3.0	0.0	0.0	5.0	3.5	12.0	10.5
7	15.5	13.5	12.5	12.5	5.0	4.0	0.5	0.0	3.5	2.0	10.5	9.0
8	15.0	14.0	14.0	12.0	5.5	5.0	1.0	0.0	2.0	1.5	9.0	7.5
9	15.5	15.0	14.0	12.5	5.5	5.5	0.0	0.0	2.5	1.5	7.5	6.0
10	16.0	15.0	15.0	14.0	6.0	4.5	0.0	0.0	4.5	2.5	7.5	5.5
11	17.0	15.5	12.5	11.5	4.5	4.0	0.5	0.0	6.0	4.5	9.0	7.0
12	16.5	15.5	11.5	11.0	4.0	3.5	0.5	0.5	5.0	4.5	8.0	7.5
13	15.5	15.0	11.0	8.5	5.5	4.0	0.5	0.5	6.5	5.0	8.0	6.5
14	16.0	14.5	8.5	5.5	6.0	5.5	2.5	0.5	7.0	6.5	6.5	5.0
15	16.0	15.0	5.5	5.0	7.0	6.0	1.5	1.5	7.5	6.5	7.0	4.5
16	16.5	16.0	6.0	5.0	7.0	6.5	2.0	1.5	9.0	7.5	7.0	6.0
17	16.0	15.5	6.0	5.5	6.5	5.0	2.0	0.5	10.5	9.0	6.0	3.5
18	16.0	14.5	7.0	6.0	5.0	1.5	0.5	0.5	9.0	8.0	5.0	2.5
19	15.0	12.5	7.0	6.0	1.5	0.5	0.5	0.5	8.0	6.5	7.0	5.0
20	12.5	11.5	7.5	6.5	1.5	0.5	0.5	0.5	6.5	5.5	10.5	7.0
21	12.0	10.5	8.5	7.5	2.0	1.5	0.5	0.5	6.5	5.5	10.5	10.0
22	13.0	12.0	7.5	6.0	1.5	0.5	1.0	0.5	7.0	6.0	10.0	6.5
23	13.5	11.5	6.0	5.0	0.5	0.5	1.0	1.0	6.5	3.5	6.5	5.5
24	14.5	12.5	5.5	4.5	0.5	0.5	1.0	0.5	4.0	2.0	8.0	6.0
25	15.5	13.0	5.5	5.0	0.5	0.5	1.0	0.5	5.5	4.0	8.0	8.0
26	15.5	14.0	5.5	5.0	3.5	0.5	5.5	1.0	7.0	5.5	9.0	6.5
27	15.0	13.5	6.5	5.5	3.5	2.5	5.5	4.0	7.5	6.0	11.0	9.0
28	15.0	13.0	5.5	4.5	4.0	3.0	4.0	2.5	7.5	6.5	11.0	9.5
29	13.5	13.0	4.5	4.5	4.5	4.0	3.0	3.0	8.5	6.5	10.0	9.0
30	13.5	10.5	7.0	4.5	5.5	4.5	3.0	2.5	---	---	11.5	9.0
31	10.5	9.0	---	---	6.5	5.5	2.5	2.5	---	---	12.5	11.0
MONTH	17.0	9.0	15.0	4.5	7.0	0.5	6.5	0.0	10.5	1.0	12.5	2.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	8.5	14.5	13.5	20.5	19.0	24.0	21.5	21.0	20.5	21.5	20.0
2	8.5	6.0	15.0	13.5	20.0	19.0	22.5	20.5	20.5	20.0	21.5	20.5
3	8.5	5.5	14.5	13.5	19.5	18.5	21.5	20.5	20.5	19.0	21.5	20.5
4	9.0	7.5	15.0	12.0	20.5	18.0	22.5	20.5	21.0	19.5	21.5	20.5
5	8.5	6.5	15.5	12.0	20.5	18.0	24.0	20.0	21.0	20.0	22.0	20.5
6	9.0	7.0	16.0	14.5	20.0	18.0	22.0	21.5	21.5	20.5	22.0	20.0
7	10.5	8.5	16.0	15.5	21.5	18.5	22.0	21.0	21.5	21.0	22.0	19.0
8	10.5	9.0	15.5	14.0	22.0	19.0	22.0	21.0	21.0	20.5	22.5	20.0
9	9.5	8.5	15.5	13.0	24.0	20.0	25.5	21.0	20.5	20.0	22.0	20.0
10	10.0	7.0	16.5	14.0	24.5	21.0	23.0	23.0	24.5	20.0	21.5	20.5
11	9.5	7.0	16.5	16.0	24.5	21.0	25.0	23.0	22.5	20.5	20.5	19.5
12	7.5	6.0	18.0	19.5	26.0	21.5	24.5	22.0	23.0	21.0	20.5	19.0
13	9.5	6.0	18.5	19.5	24.5	23.5	22.5	21.0	23.0	21.5	21.0	19.5
14	10.5	7.0	19.0	18.0	25.0	22.0	23.0	20.0	22.5	21.5	21.0	19.5
15	12.5	9.5	19.0	18.0	25.5	23.0	24.0	22.0	21.5	21.0	20.5	20.0
16	15.0	12.0	19.0	18.5	25.0	23.5	23.5	22.0	23.0	21.0	20.0	19.5
17	17.0	14.5	19.0	18.0	26.5	23.5	22.0	21.0	23.0	20.5	20.0	19.5
18	19.0	16.0	18.0	13.5	27.5	23.5	22.0	20.5	23.0	20.5	20.0	19.5
19	20.5	17.5	13.5	11.0	25.5	24.5	22.0	21.0	23.5	20.5	21.0	19.5
20	20.5	18.0	14.0	11.5	24.5	21.5	22.5	21.5	23.5	20.5	20.0	19.5
21	20.5	19.0	15.0	14.0	21.5	20.5	23.5	22.5	23.0	20.5	20.5	19.5
22	20.5	19.0	16.0	13.5	22.5	19.5	23.5	22.5	23.5	20.5	20.5	19.0
23	20.0	17.5	17.0	15.0	22.0	20.5	23.5	22.0	23.5	21.0	19.5	18.5
24	20.0	16.5	18.0	15.5	22.0	21.0	22.5	19.5	23.5	21.0	19.5	18.5
25	20.5	19.5	17.0	15.5	22.5	21.5	20.0	19.5	24.0	21.5	20.5	19.0
26	20.0	14.5	17.0	15.0	23.5	21.5	20.5	19.5	24.0	22.0	19.5	19.0
27	14.5	11.0	18.0	15.0	24.5	20.5	21.0	20.0	23.5	22.0	19.5	19.0
28	11.0	10.0	19.0	17.0	25.5	22.5	21.5	20.5	22.5	21.5	19.0	18.5
29	12.0	9.0	19.0	18.0	26.0	24.0	---	---	23.5	21.5	18.5	18.0
30	14.5	11.0	20.0	18.5	25.0	24.0	---	---	22.5	20.5	18.5	18.0
31	---	---	20.5	19.0	---	---	21.0	20.0	22.0	20.0	---	---
MONTH	20.5	5.5	20.5	11.0	27.5	18.0	25.5	19.5	24.5	19.0	22.5	18.0
YEAR	27.5	0.0										

KANAWHA RIVER BASIN

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03195100 RIGHT FORK HOLLY RIVER AT GUARDIAN, WV

LOCATION.--Lat 38°38'08", long 80°27'58", Webster County, Hydrologic Unit 05050007, on right bank at Guardian, 50 ft (15 m) upstream from Bear Run, and at mile 8.1 (13.0 km).

DRAINAGE AREA.--51.1 mi² (132.3 km²).

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,078.00 ft (328.574 m) above mean sea level.

REMARKS.--Records good. Corps of Engineers gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,500 ft³/s (127 m³/s) June 2, 1974, gage height, 12.55 ft (3.825 m), from rating curve extended above 2,600 ft³/s (73.6 m³/s); minimum, 1.6 ft³/s (0.045 m³/s) Aug. 26, 27, 1976, gage height, 2.68 ft (0.817 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 1	0715	1230 34.8	7.66 2.335	Mar. 21	1715	823 23.3	6.68 2.036
Feb. 6	0900	894 25.3	6.86 2.091	July 24	0630	*1580 44.7	8.35 2.545

Minimum discharge, 1.6 ft³/s (0.045 m³/s) Aug. 26, 27, gage height, 2.68 ft (0.817 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	14	36	550	108	60	270	24	14	18	30	2.9
2	12	13	48	423	100	51	321	34	16	11	22	22
3	20	14	54	250	95	45	318	37	15	8.6	17	17
4	14	14	49	206	91	41	285	37	11	7.0	13	7.4
5	15	14	50	162	114	34	194	34	7.8	6.3	11	5.3
6	16	13	56	121	700	36	130	34	6.4	14	9.8	4.1
7	17	14	150	111	354	31	47	41	5.5	13	14	3.5
8	17	15	160	40	210	30	77	35	4.8	7.8	12	3.2
9	20	15	116	70	132	45	61	30	4.4	20	9.4	2.8
10	27	15	100	25	103	68	51	26	3.9	24	7.8	22
11	47	16	79	101	144	148	44	26	3.5	17	6.5	18
12	27	160	74	125	162	220	44	26	3.8	79	5.3	8.6
13	19	276	74	127	154	182	38	21	3.6	48	4.4	6.5
14	15	112	73	109	174	124	34	18	3.3	27	5.0	5.5
15	13	74	78	245	176	102	32	18	3.0	19	6.0	6.0
16	12	67	276	172	138	101	30	27	3.0	90	7.0	9.8
17	28	83	284	115	136	96	27	88	4.4	194	6.0	12
18	40	84	172	77	144	90	25	220	4.5	80	4.2	9.4
19	27	71	106	60	144	114	24	462	4.5	42	3.6	4.2
20	20	56	84	73	122	122	23	237	41	27	3.0	8.2
21	19	56	67	55	107	525	24	128	32	19	2.6	11
22	18	50	45	45	115	492	22	84	40	15	2.5	17
23	17	43	40	48	115	237	20	59	20	119	2.3	13
24	15	40	35	70	114	148	19	44	12	494	2.2	11
25	14	38	36	158	116	112	19	36	12	288	1.9	7.4
26	13	32	108	270	115	89	29	29	51	115	1.8	4.4
27	14	30	158	252	107	84	27	23	27	65	1.8	78
28	14	30	132	228	86	98	23	19	16	42	3.8	134
29	13	25	105	188	72	101	22	16	11	41	4.0	55
30	14	26	100	140	---	112	21	17	21	38	2.5	210
31	16	---	180	107	---	112	---	17	---	35	3.6	---
TOTAL	5064.0	1516	3123	5390	4511	3855	2355	1955	405.4	2437.7	234.0	723.2
MEAN	16.4	50.5	101	174	156	124	78.5	63.1	13.5	78.6	7.55	24.1
MAX	47	276	288	550	700	525	321	462	51	894	30	210
MIN	9.0	13	30	45	72	30	19	16	3.0	6.3	1.8	2.8
CFSM	.37	.99	1.98	3.41	3.05	2.43	1.54	1.23	.26	1.54	.15	.47
IN.	.43	1.10	2.27	3.92	3.28	2.81	1.71	1.42	.30	1.77	.17	.53

CAL YR 1975 TOTAL 41170.7 MEAN 113 MAX 982 MIN 5.5 CFSM 2.21 IN 22.98
WTR YR 1976 TOTAL 27091.3 MEAN 74.0 MAX 950 MIN 1.8 CFSM 1.45 IN 19.72

KANAWHA RIVER BASIN

03195250 LEFT FORK HOLLY RIVER NEAR REPLETE, WV

LOCATION.--Lat 38°41'19", long 80°26'01", Webster County, Hydrologic Unit 05050007, on left bank at Poling, 100 ft (30 m) downstream from Potts Run, 1.8 mi (2.9 km) southeast of Replete, and at mile 8.4 (13.5 km).

DRAINAGE AREA.--48.1 mi² (124.6 km²).

PERIOD OF RECORD.--March 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,190 ft (363 m), from topographic map.

REMARKS.--Records good. Corps of Engineers gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,390 ft³/s (67.7 m³/s) June 2, 1974, gage height, 10.74 ft (3.274 m); minimum, 2.1 ft³/s (0.059 m³/s) Aug. 27, 28, 1976, gage height, 4.30 ft (1.311 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (23 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ³ /s)	Discharge (m ³ /s)	Gage height (ft)	Gage height (m)
Jan. 1	0630	1110	31.4	8.88	2.707	Mar. 21	1630	1090	30.9	8.83	2.691
Feb. 6	0745	1040	29.5	8.73	2.661	July 24	0515	*1860	52.7	10.05	3.063

Minimum discharge, 2.1 ft³/s (0.059 m³/s) Aug. 27, 28, gage height, 4.30 ft (1.311 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	26	48	900	110	67	192	35	18	20	30	3.6
2	20	25	53	430	100	59	279	56	30	12	25	47
3	23	24	57	279	90	53	324	66	26	9.0	18	22
4	17	24	54	230	88	48	345	72	18	7.6	13	9.5
5	15	23	59	172	112	44	227	72	12	6.6	11	6.6
6	14	22	68	129	780	42	154	64	9.5	10	9.5	5.3
7	13	21	158	100	406	37	111	61	8.4	9.5	16	4.5
8	13	22	158	80	225	34	86	53	7.3	7.8	14	3.9
9	14	21	123	70	145	50	72	45	6.4	61	12	3.6
10	20	20	108	70	112	68	62	42	5.7	36	9.2	45
11	63	20	88	100	246	137	59	37	5.0	24	7.6	29
12	50	156	82	128	288	195	56	38	4.6	77	6.4	14
13	38	328	84	131	227	172	47	30	5.1	53	5.5	8.7
14	31	148	84	418	255	131	44	25	4.6	35	5.3	6.4
15	26	96	88	288	220	108	40	24	4.0	24	6.1	6.1
16	24	84	285	182	164	111	37	37	4.0	92	7.8	9.8
17	50	91	276	124	166	118	34	90	9.0	192	6.2	9.2
18	68	100	168	82	168	115	31	240	7.8	90	4.9	7.3
19	50	92	111	71	156	142	28	510	11	58	4.1	6.4
20	45	77	88	82	128	145	27	285	69	39	3.7	5.7
21	41	76	75	60	107	638	27	158	53	28	3.4	6.6
22	41	68	55	55	126	562	25	100	58	22	3.1	9.0
23	37	60	50	50	139	276	24	73	32	174	2.8	6.8
24	34	55	45	69	131	164	21	58	18	985	2.7	5.7
25	30	51	40	131	126	126	21	47	16	250	2.4	5.0
26	29	44	115	285	118	99	40	38	45	120	2.2	4.7
27	29	43	148	315	103	91	38	30	27	70	2.1	96
28	26	41	132	255	88	98	32	24	17	45	2.9	188
29	24	35	107	190	76	93	30	20	12	40	8.1	85
30	28	35	117	144	---	99	28	25	22	38	8.4	200
31	28	---	225	111	---	94	---	24	---	35	4.4	---
TOTAL	955	1928	3349	5731	5200	4216	2541	2479	565.4	2670.5	257.8	860.4
MEAN	30.8	64.3	108	185	179	136	84.7	80.0	18.8	86.1	8.32	28.7
MAX	68	328	285	900	780	638	345	510	69	985	30	200
MIN	13	20	40	50	76	34	21	20	4.0	6.6	2.1	3.6
CFSM	.64	1.34	2.25	3.85	3.72	2.83	1.76	1.66	.39	1.79	.17	.60
IN.	.74	1.49	2.59	4.43	4.02	3.26	1.97	1.92	.44	2.07	.20	.67
CAL YR 1975 TOTAL	47264.5			MEAN 129	MAX 1020	MIN 6.6	CFSM 2.68	IN 36.55				
WTR YR 1976 TOTAL	30753.1			MEAN 84.0	MAX 985	MIN 2.1	CFSM 1.75	IN 23.78				

KANAWHA RIVER BASIN

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03195400 SUTTON LAKE AT SUTTON, WV

LOCATION.--Lat 38°39'40", long 80°41'40", Braxton County, Hydrologic Unit 05050007, 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 mi² (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.

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. This is a multipurpose reservoir.

COOPERATION.--Records were furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 111,400 acre-ft (137 hm³) June 3, 1974, elevation, 950.19 ft (289.618 m); minimum since initial filling, 734 acre-ft (0.905 hm³) Apr. 1, 1961, elevation, 832.33 ft (253.694 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 66,260 acre-ft (81.7 hm³) July 24, elevation, 926.38 ft (282.361 m); minimum, 4,030 acre-ft (4.97 hm³) Dec. 22, elevation 849.95 ft (259.065 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)	Change in Contents (equivalent in cfs)
Sept. 30.....	912.46	47090	-	-
Oct. 31.....	889.83	24830	-22260	-362
Nov. 30.....	851.10	4360	-20470	-344
Dec. 31.....	864.80	9440	+5080	+83
CAL YR 1975	-	-	+3240	+4
Jan. 31.....	852.44	4750	-4690	-76
Feb. 29.....	850.58	4210	-540	-9
Mar. 31.....	854.75	5490	+1280	+21
Apr. 30.....	915.12	50380	+44890	+754
May 31.....	922.24	60050	+9670	+157
June 30.....	922.54	60480	+430	+7
July 31.....	922.96	61100	+620	+10
Aug. 31.....	921.54	59040	-2060	-34
Sept. 30.....	916.52	52180	-6860	-115
WTR YR 1976	-	-	+5090	+7

KANAWHA RIVER BASIN

03195500 ELK RIVER AT SUTTON, WV

LOCATION.--Lat 38°39'45", long 80°42'35", Braxton County, Hydrologic Unit 05050007, 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).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only October 1938 to February 1939, published in WSP 1305.

REVISED RECORDS.--WSP 1305: 1942(M), 1948-50(M).

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.

REMARKS.--Water-discharge records good. Flow regulated since 1960 by Sutton Lake (station 03195400).

AVERAGE DISCHARGE.--38 years, 1,127 ft³/s (31.92 m³/s), 28.19 in/yr (716 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,840 ft³/s (222 m³/s) July 24, gage height, 19.84 ft (6.047 m); minimum, 75 ft³/s (2.12 m³/s) Aug. 23, 24, 25, 26, Sept. 3-5, 6, 7, 8, gage height, 10.71 ft (3.26 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	616	571	410	1500	1470	750	540	82	236	330	600	80
2	616	606	410	470	1430	606	276	82	292	284	642	80
3	612	630	466	3130	1370	570	123	82	360	199	565	75
4	570	624	540	1630	1160	505	95	82	360	147	410	75
5	525	624	540	4260	1040	470	97	82	320	120	276	75
6	540	612	545	4120	2020	470	88	82	228	120	209	75
7	475	612	438	3490	3330	380	82	80	228	120	174	75
8	445	606	1340	2930	3280	242	80	80	195	123	174	240
9	450	595	1340	2330	2890	305	80	80	120	126	178	420
10	455	595	1320	1440	2310	355	80	80	77	123	181	445
11	470	585	1250	1620	1860	756	80	80	77	126	185	440
12	600	847	1060	1540	2090	1530	80	80	77	425	199	440
13	676	2370	910	1550	2200	1760	80	80	77	430	195	435
14	702	2760	828	2410	2540	1430	80	80	77	430	195	395
15	702	2600	822	3010	2670	1830	80	82	77	450	160	305
16	645	2150	1350	2620	2490	1770	80	82	80	565	138	213
17	702	1770	2120	1760	2110	1710	80	188	77	1390	135	123
18	1440	1660	2130	745	2130	1560	80	630	77	1530	129	91
19	1990	1630	1730	540	2120	1430	80	2590	77	980	107	91
20	1630	1550	1240	495	2060	1430	80	2670	167	570	46	91
21	1230	1430	994	510	1930	2130	80	1910	435	395	80	93
22	566	1190	684	515	1590	3380	80	1180	435	276	80	138
23	994	1060	520	624	1480	3890	80	828	580	274	77	202
24	816	1010	420	694	1510	3040	80	660	690	5530	75	206
25	678	868	390	1020	1500	2230	80	600	520	5650	75	206
26	672	792	910	1670	1480	1730	80	642	460	2490	77	209
27	636	696	1730	3070	1260	1260	80	475	555	1160	77	545
28	570	606	1950	3930	1110	1060	82	272	435	714	82	1060
29	565	550	1350	3410	924	1000	82	232	435	555	77	1430
30	565	455	550	2300	---	945	82	236	410	555	126	1730
31	560	---	1450	1700	---	840	---	232	---	555	112	---
TOTAL	23235	32694	32251	65763	55554	41814	3147	14841	8234	26892	5476	10083
MEAN	750	1090	1040	2121	1916	1349	105	479	274	867	190	336
MAX	1990	2760	2130	4660	3330	3890	540	2870	690	5650	642	1730
MIN	445	455	390	445	924	292	80	80	77	120	75	75

CAL YR 1975 TOTAL 484546 MEAN 1325 MAX 6790 MIN 107 MEAN‡ 1332 CFSM‡ 2.45 IN‡ 33.26
 *TH YR 1976 TOTAL 320384 MEAN 875 MAX 5850 MIN 75 MEAN‡ 882 CFSM‡ 1.62 IN‡ 22.05

‡ Adjusted for change in contents in Sutton Lake.

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	20.0	17.0	16.5	7.0	7.0	6.5	5.5	5.5	5.5	9.0	8.0
2	20.0	19.5	17.5	17.0	7.0	6.5	7.0	6.5	5.5	5.5	10.0	9.0
3	20.0	19.5	17.0	16.5	7.0	6.5	7.0	6.5	5.5	3.0	10.0	9.0
4	20.5	19.5	16.5	16.0	7.0	6.5	7.0	6.5	3.0	3.0	12.0	10.0
5	20.5	20.0	16.0	16.0	7.0	6.5	7.0	6.5	3.0	3.0	12.5	11.0
6	20.5	20.0	16.0	15.5	6.5	6.5	6.5	5.5	5.0	3.0	12.5	11.5
7	20.5	19.5	16.0	16.0	6.5	6.0	5.5	4.5	5.0	5.0	13.0	11.5
8	19.5	19.0	16.0	16.0	6.0	6.0	4.5	3.5	5.0	3.5	11.5	11.0
9	19.5	19.5	16.5	16.0	6.5	6.0	3.5	3.0	3.5	3.0	11.0	9.5
10	19.5	19.5	17.0	16.0	7.0	6.5	3.0	3.0	3.0	3.0	10.0	8.5
11	19.5	19.0	17.0	16.0	7.0	7.0	3.0	2.0	4.0	3.0	8.5	8.0
12	19.5	19.0	16.5	16.0	7.0	6.5	2.0	2.0	6.0	4.0	9.5	8.0
13	20.0	19.0	16.5	16.0	6.5	6.0	2.0	2.0	6.0	5.5	9.5	8.5
14	20.0	19.5	16.0	13.5	6.0	6.0	3.5	2.0	6.0	5.5	8.5	8.5
15	20.0	19.5	13.5	12.0	7.0	6.0	4.5	3.5	6.5	6.0	8.5	7.5
16	19.5	19.0	12.0	10.0	8.0	7.0	4.5	4.5	6.5	6.0	7.5	7.0
17	19.0	18.0	10.0	9.0	9.0	8.0	4.5	4.5	8.0	6.5	7.0	6.5
18	19.0	18.0	9.0	9.0	8.0	6.5	4.5	4.0	10.0	8.0	6.5	5.0
19	19.0	19.0	9.0	9.0	6.5	4.5	4.0	3.5	10.0	10.0	5.0	4.5
20	19.0	18.0	9.5	9.0	4.5	3.0	3.5	3.0	10.0	9.0	6.5	4.5
21	19.0	16.0	9.5	9.0	3.0	2.5	3.0	3.0	9.0	8.0	9.5	6.5
22	17.0	16.0	10.0	9.5	3.0	2.5	3.0	3.0	8.0	8.0	10.0	9.5
23	16.0	16.0	10.0	10.0	3.5	2.5	3.0	3.0	8.0	7.5	9.5	8.5
24	16.0	15.5	10.0	9.5	3.5	3.0	3.0	3.0	7.5	6.0	8.5	7.5
25	16.0	15.5	9.5	8.5	3.0	3.0	3.0	3.0	6.0	5.0	8.5	7.5
26	16.0	16.0	8.5	8.5	4.0	3.0	3.0	3.0	6.0	5.0	10.0	8.5
27	16.5	16.0	8.5	7.5	4.0	3.0	7.5	3.0	7.0	6.0	10.5	9.5
28	16.5	16.0	7.5	7.0	4.5	4.0	7.5	6.0	8.0	7.0	12.0	10.0
29	17.0	16.0	7.0	7.0	4.5	4.5	6.0	5.5	9.0	8.0	12.0	11.5
30	17.0	16.0	7.0	7.0	5.0	4.5	5.5	5.5	---	---	12.0	11.0
31	17.0	16.0	---	---	5.5	5.0	5.5	5.5	---	---	13.0	11.0
MONTH	20.5	15.5	17.5	7.0	9.0	2.5	7.5	2.0	10.0	3.0	13.0	4.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	11.5	11.0	9.5	15.0	13.0	15.5	14.5	20.0	20.0	23.5	20.5
2	11.5	10.0	14.0	10.0	13.5	13.0	16.5	14.5	20.0	19.5	24.0	21.5
3	13.5	9.0										

KANAWHA RIVER BASIN

03195600 GRANNY CREEK AT SUTTON, WV

LOCATION.--Lat 38°40'36", long 80°42'47", Braxton County, Hydrologic Unit 05050007, 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.--Annual maximum, water years 1966-67. 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.

REMARKS.--Records good. 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.

AVERAGE DISCHARGE.--9 years, 9.93 ft³/s (0.281 m³/s), 19.32 in/yr (491 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft³/s (42.8 m³/s) June 16, 1975, gage height, 14.03 ft (4.276 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).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft³/s (8.5 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	2330	359	10.2	Mar. 21	0615	426	12.1
Dec. 31	2200	*492	13.9	July 16	1700	318	9.01

Minimum daily discharge, 0.15 ft³/s (0.004 m³/s) Aug. 26, 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.2	4.1	107	34	3.0	45	1.4	.84	1.5	1.5	.36
2	1.0	1.2	4.1	22	23	2.7	40	1.6	.92	.99	1.1	6.8
3	.74	1.2	3.9	26	14	2.5	21	4.0	1.9	.75	.87	1.7
4	.62	1.2	3.8	20	8.3	2.3	13	2.1	1.2	.71	.71	1.0
5	.55	1.1	3.4	12	9.9	2.1	8.4	1.4	.75	.62	.57	.69
6	.49	.96	5.8	9.2	26	1.9	6.4	1.2	.36	.55	1.7	.53
7	.48	1.0	16	7.3	14	1.8	5.1	1.1	.36	.55	10	.41
8	.63	1.4	8.8	7.0	9.9	1.8	4.0	.97	.36	.55	3.7	.36
9	.94	1.2	7.6	6.5	7.5	13	3.3	.85	.33	6.8	1.9	.35
10	9.3	2.2	11	6.0	6.9	24	2.9	.67	.28	1.3	1.4	3.8
11	3.9	2.2	8.5	14	28	27	3.2	.64	.25	1.7	.93	1.1
12	2.2	26	6.6	22	14	14	2.6	.69	.25	28	.69	.66
13	1.5	22	5.3	30	12	10	2.2	.60	.25	4.4	.62	.47
14	1.2	11	4.3	32	9.2	7.0	2.0	.55	.25	2.1	1.6	.41
15	.95	7.6	7.1	14	8.1	5.6	1.7	.48	.23	6.8	2.7	.40
16	.87	5.4	24	11	7.2	6.4	1.6	3.8	3.3	69	.99	.48
17	52	4.0	12	8.2	16	5.6	1.6	6.6	2.8	24	.57	.55
18	14	3.0	7.5	6.0	15	4.9	1.4	29	.64	7.2	.40	.53
19	6.3	2.4	5.9	5.5	11	4.8	1.3	34	.55	3.8	.35	.46
20	4.4	2.1	4.8	6.5	7.7	4.7	1.2	9.1	29	2.3	.30	.36
21	3.2	4.1	4.2	6.0	6.4	117	1.4	4.5	6.5	1.7	.25	.47
22	2.8	3.3	3.3	5.0	8.9	23	1.4	2.9	4.2	1.6	.25	.44
23	2.2	2.4	2.2	4.5	7.5	12	1.2	2.0	2.0	15	.20	.32
24	1.7	2.0	2.4	19	6.4	7.9	1.0	1.5	1.2	51	.20	.33
25	1.5	1.9	40	18	5.7	7.6	.96	1.3	15	9.6	.20	.36
26	1.6	1.7	81	14	5.2	6.0	1.5	1.1	13	4.9	.15	.39
27	1.7	2.6	22	32	4.5	6.5	1.1	.91	4.0	3.0	.15	29
28	1.4	2.1	14	21	4.0	5.9	.97	.76	2.0	2.1	.20	16
29	1.3	1.9	10	16	3.4	5.2	.87	.65	1.3	3.3	.90	5.2
30	1.8	2.2	10	13	---	5.6	.83	.59	3.5	2.9	1.0	36
31	1.3	---	72	11	---	23	---	1.3	---	2.0	.39	---
TOTAL	123.97	122.56	415.6	531.7	333.7	364.8	179.13	118.26	97.52	260.72	36.49	109.93
MEAN	4.00	4.09	13.4	17.2	11.5	11.8	5.97	3.81	3.25	8.41	1.18	3.66
MAX	52	26	81	107	34	117	45	34	29	69	10	36
MIN	.48	.96	2.2	4.5	3.4	1.8	.83	.48	.23	.55	.15	.32
CFSM	.57	.59	1.92	2.46	1.65	1.69	.86	.55	.47	1.20	.17	.52
IN.†	.66	.65	2.21	2.83	1.78	1.94	.95	.63	.52	1.39	.19	.59
IN.‡	3.31	2.47	4.85	3.53	2.20	3.73	.96	3.92	5.60	6.91	---	6.04
CAL YR 1975 TOTAL	3997.88											
WTR YR 1976 TOTAL	2694.38											
MEAN	11.0											
MAX	192											
MIN	.11											
CFSM	1.58											
IN.†	21.30											
IN.‡	14.36											

† Runoff.

‡ Rainfall.

KANAWHA RIVER BASIN

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03196600 ELK RIVER NEAR FRAMETOWN, WV

LOCATION.--Lat 38°35'34", long 80°53'06", Braxton County, Hydrologic Unit 05050007, 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.

REMARKS.--Records good. Flow regulated since 1960 by Sutton Lake (station 03195400). Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--18 years, 1,552 ft³/s (43.95 m³/s), 28.03 in/yr (712 mm/yr), unadjusted.

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,800 ft³/s (306 m³/s) Jan. 1, gage height, 10.29 ft (3.136 m); minimum, 91 ft³/s (2.58 m³/s) June 11-13, 14, 15, 16, Aug. 28; minimum gage height, 1.81 ft (0.552 m) June 11-13, 14, 15, 16.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	704	674	632	7400	2220	1020	2140	155	280	475	677	115
2	720	712	660	5030	2350	470	1510	142	249	424	753	159
3	712	755	677	5040	2040	754	1210	208	417	241	720	162
4	704	749	783	2100	1740	713	447	224	415	253	541	121
5	640	734	764	4020	1440	616	644	148	402	184	394	107
6	637	724	768	4030	2520	611	503	193	280	174	285	101
7	576	724	1320	3460	4340	570	409	187	254	178	310	96
8	504	716	1490	3010	4040	414	333	183	248	179	240	96
9	511	704	1740	2700	3500	530	242	164	149	238	256	418
10	504	715	1800	2310	2420	962	251	155	118	192	248	544
11	704	716	1670	2370	2440	1660	240	151	91	180	240	553
12	712	1330	1410	2340	2530	2340	235	153	91	407	236	504
13	810	3160	1230	2020	2720	2480	208	142	91	629	240	490
14	808	3350	1000	3010	2840	2320	148	134	92	542	240	472
15	810	3080	1040	4070	3300	2270	149	133	91	523	244	400
16	703	2640	2040	3450	3080	2190	181	215	97	1690	208	300
17	1200	2090	3040	2040	2630	2120	173	277	141	2520	188	212
18	1840	1940	2740	1440	2680	1940	165	1230	116	2100	169	136
19	2270	1880	2330	850	2630	1790	160	2490	105	1420	162	118
20	1930	1820	1680	800	2030	1800	156	3640	331	841	130	115
21	1480	1770	1310	783	2330	4770	159	2440	743	536	110	121
22	1070	1510	1040	754	2170	5120	164	1530	756	424	101	118
23	1080	1270	731	750	1930	4440	152	1110	719	364	99	204
24	1000	1220	644	1190	1940	4010	146	863	865	4240	96	232
25	806	1090	655	1420	1900	2830	143	731	805	7370	93	224
26	802	1010	2610	2050	1840	2320	159	750	726	3400	93	224
27	705	930	2630	3020	1660	1770	167	693	708	1700	93	946
28	671	794	2640	4830	1380	1380	152	388	575	961	204	1620
29	676	746	2380	4310	1220	1310	144	290	510	692	212	1730
30	677	665	995	3150	---	1270	146	289	549	669	124	2530
31	674	---	1880	2340	---	1250	---	286	---	669	173	---
TOTAL	2794	40230	47009	90651	70940	58894	11651	20344	11104	34915	7933	13208
MEAN	903	1341	1516	2424	2446	1900	388	656	370	1126	256	440
MAX	2270	3350	3040	7460	4340	5120	2180	3690	865	7370	753	2530
MIN	504	665	632	750	1220	414	143	133	91	174	93	96

CAL YR 1975 TOTAL 634447 MEAN 1738 MAX 8510 MIN 139 MEAN# 1742 CFSM# 2.32 IN# 31.49
WTR YR 1976 TOTAL 434873 MEAN 1188 MAX 7460 MIN 91 MEAN# 1195 CFSM# 1.59 IN# 21.64

‡ Adjusted for change in contents in Sutton Lake.

KANAWHA RIVER BASIN

03196800 ELK RIVER AT CLAY, WV

LOCATION.--Lat 38°27'36", long 81°05'15", Clay County, Hydrologic Unit 05050007, 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.

REMARKS.--Records fair above 800 ft³/s (22.7 m³/s) and poor below. Flow regulated since 1960 by Sutton Lake (station 03195400). Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--18 years, 1,932 ft³/s (54.71 m³/s), 26.39 in/yr (670 mm/yr), unadjusted.

EXTREMES FOR 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).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 14, 1918, reached a stage of 32.4 ft (9.88 m), from reports of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,500 ft³/s (581 m³/s) Jan. 1, gage height, 14.61 ft (4.453 m); minimum daily, 95 ft³/s (2.69 m³/s) Aug. 25, 26, Sept. 8.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	646	619	770	14300	2800	1180	3370	210	280	525	835	130
2	679	630	788	7180	3430	1020	2690	240	300	412	696	157
3	674	674	776	6520	2850	877	2270	290	340	357	674	191
4	663	690	521	4040	2370	844	1600	350	370	264	565	177
5	619	674	470	4690	1400	742	1170	370	400	222	430	160
6	580	657	421	5730	2420	758	926	330	350	164	334	130
7	555	657	1430	4220	4850	674	407	300	270	170	365	110
8	490	662	2160	4500	4820	470	729	270	240	167	365	95
9	452	652	2170	3540	4340	520	630	250	200	160	296	120
10	452	652	2260	3030	3620	1230	550	230	160	201	292	555
11	641	663	2140	2090	3040	2450	470	210	140	157	289	586
12	641	1270	1410	3400	2770	3180	410	200	170	764	240	485
13	605	3910	1670	3180	3050	3320	370	190	110	776	261	470
14	758	3920	1380	4960	3060	3010	330	180	130	555	317	434
15	746	3570	1390	5530	3590	2910	300	170	110	530	271	407
16	716	3130	2680	4760	3620	2830	280	200	100	1000	292	334
17	501	2420	4080	3640	3180	2800	260	334	123	3550	226	250
18	2400	2130	3770	2430	3290	2650	250	1070	132	2450	208	194
19	2390	2030	2940	1400	3240	2320	240	3440	103	1790	229	160
20	2240	1970	2160	1100	3040	2250	230	4240	148	1090	148	150
21	1720	1950	1690	550	2810	6530	220	3130	591	723	130	140
22	1270	1780	1450	500	2710	6900	220	2200	718	555	120	140
23	1040	1450	1070	550	2350	5530	220	1430	752	640	110	132
24	1000	1360	877	1100	2330	4670	210	1030	800	2030	100	180
25	449	1270	690	1750	2290	3350	230	850	884	8090	95	198
26	746	1110	3930	2650	2220	2760	210	720	891	4400	95	194
27	758	1010	3660	3060	1990	2170	220	550	794	2420	100	884
28	701	851	3560	5630	1540	1690	220	450	696	1290	151	2610
29	630	794	3200	5320	1390	1500	210	360	520	814	357	2020
30	641	758	2080	4290	---	1510	200	400	500	624	194	3130
31	630	---	2170	3160	---	1540	---	280	---	646	144	---
TOTAL	28075	43994	61363	121680	84960	74230	20012	24464	11272	38186	4903	14923
MEAN	506	1466	1979	3925	2930	2395	667	789	376	1632	287	497
MAX	2400	3920	4080	14300	4800	6900	3370	4290	891	8090	835	3130
MIN	452	619	690	550	1390	470	200	170	100	157	95	95
CAL YR 1975 TOTAL												
WTR YR 1975 TOTAL												

‡ Adjusted for change in contents in Sutton Lake.

KANAWHA RIVER BASIN

157

03197000 ELK RIVER AT QUEEN SHOALS, WV

LOCATION.--Lat 38°28'20", long 81°17'10", Kanawha County, Hydrologic Unit 05050007, 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 km) upstream from Big Sandy Creek, and at mile 25.8 (41.5 km). Records include flow of Queen Shoals Creek.

DRAINAGE AREA.--1,145 mi² (2,966 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.

REVISED RECORDS.--WSP 783: Drainage area. WSP 1335: 1929-32, 1935(M), 1936, 1939, 1943(M).

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.

REMARKS.--Records good. Flow regulated since 1960 by Sutton Lake (station 03195400). Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--48 years, 2,010 ft³/s (56.92 m³/s), 23.84 in/yr (606 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,700 ft³/s (586 m³/s) Jan. 1, gage height, 14.41 ft (4.392 m); minimum, 88 ft³/s (2.49 m³/s) Aug. 26, gage height, 3.98 ft (1.213 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	762	740	940	15500	3250	1500	3420	223	330	444	811	142
2	750	731	960	14400	3940	1230	3800	257	335	470	674	106
3	750	770	930	7340	3460	1030	3230	315	345	392	690	
4	762	810	910	5460	2940	890	2420	370	392	330	650	
5	704	750	980	4450	2350	830	1740	375	410	257	507	1000
6	642	780	970	5450	2410	722	1300	335	386	227	392	149
7	618	780	1420	5690	4670	690	492	315	335	184	346	122
8	506	790	2210	4670	5240	650	793	305	266	181	386	103
9	568	770	2350	4080	4850	610	650	280	257	174	345	93
10	561	760	2410	3320	4140	1340	542	257	235	174	285	257
11	578	780	2320	2940	3500	2850	484	239	188	211	253	642
12	762	1340	2070	3540	3160	3800	464	231	142	570	235	535
13	675	4340	1760	3500	3360	3940	422	223	115	968	227	470
14	770	4780	1530	5670	3460	3480	380	211	149	634	257	440
15	810	3960	1400	5680	3780	3710	360	203	115	514	335	440
16	750	3480	2520	5650	4020	3070	345	215	99	1050	340	410
17	500	2800	4140	4320	3680	2990	325	330	115	4200	295	345
18	2410	2250	3920	2900	3760	2720	310	793	149	2870	227	275
19	2280	2130	3320	1600	3740	2520	290	4020	160	2170	199	211
20	2360	2060	2600	1400	3520	2360	275	4740	174	1400	181	163
21	1430	2010	1970	1600	3260	6240	266	3980	266	811	167	139
22	1400	1930	1600	1000	3120	9620	271	2760	766	542	142	139
23	1200	1650	1260	956	2810	6740	271	1780	730	682	119	135
24	1170	1460	970	1310	2560	5860	253	1260	674	730	99	128
25	1060	1400	910	2000	2530	4610	235	932	802	7530	93	207
26	890	1240	3900	2380	2420	3700	244	784	811	5490	93	223
27	890	1150	4450	3680	2320	2940	253	766	714	2960	96	658
28	860	1070	4020	5820	1990	2280	244	706	650	1550	119	3140
29	750	920	3560	5470	1750	1890	235	458	549	910	266	2200
30	750	930	2720	5140	---	1830	219	370	507	666	330	3050
31	740	---	2080	3900	---	1800	---	335	---	658	203	---
TOTAL	30708	48941	67100	135106	96070	87942	25477	28368	11166	39999	9402	15605
MEAN	991	1631	2165	4358	3313	2837	849	915	372	1290	303	520
MAX	2410	4340	4450	15500	5290	9620	3820	4740	811	7530	811	3140
MIN	561	731	910	456	1750	610	219	203	99	174	93	93

CAL YR 1975 TOTAL 906201 MEAN 2484 MAX 12800 MIN 137 MEAN: 2487 CFSM: 2.17 IN: 29.46
WTR YR 1976 TOTAL 595884 MEAN 1628 MAX 15500 MIN 93 MEAN: 1635 CFSM: 1.43 IN: 19.46

‡ Adjusted for change in contents in Sutton Lake.

KANAWHA RIVER BASIN

03198000 KANAWHA RIVER AT CHARLESTON, WV

LOCATION.--Lat 38°22'10", long 81°42'05", Kanawha County, Hydrologic Unit 05050008, 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).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1939 to current year. Monthly discharge only September 1939 to February 1940, published in WSP 1305.

REVISED RECORDS.--WSP 1335: 1943.

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.

REMARKS.--Water-discharge records good. Since 1939, flow regulated by increasing number of reservoirs upstream from station. Corps of Engineers gage-height telemeters at station.

AVERAGE DISCHARGE.--37 years, 14,700 ft³/s (416.3 m³/s), 19.16 in/yr (487 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 29, 1861, reached a stage of about 54.3 ft (16.55 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 110,000 ft³/s (3,120 m³/s) Jan. 2, gage height, 30.18 ft (9.199 m); minimum daily, 2,330 ft³/s (66.0 m³/s) Aug. 24; minimum gage height, 17.37 ft (5.294 m) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6840	7110	7440	76300	23900	10700	21700	3990	8640	7380	8070	3970
2	7630	6850	5730	99200	21400	9380	34800	4920	9380	7750	6760	3860
3	6510	6110	6400	73800	18300	11400	29600	6420	8150	6080	6440	3490
4	5810	5670	5970	52500	18400	9580	24300	5800	11000	5750	6130	3270
5	5460	6390	6380	37100	14700	8700	18000	4980	12000	4760	4000	3510
6	4880	6710	5950	25700	18000	8640	16800	4640	7780	5920	3910	3090
7	6040	6460	7290	23600	28100	7950	14300	4210	6430	6490	3760	2740
8	6500	6900	8750	20300	29000	7490	10900	4570	5610	6120	4660	2790
9	6440	6670	8950	18000	20600	6930	9540	4350	5450	6640	3560	2700
10	5700	6360	9750	15700	19500	12900	9120	3640	6330	7620	3730	3590
11	5720	6490	10100	15100	17600	18900	8580	3580	5670	6890	3020	4360
12	6870	11500	9860	14600	19600	20300	6290	3750	4570	11100	4240	4290
13	5300	23400	8750	13800	20000	21700	5990	4310	4530	12000	4170	4030
14	3930	31900	8260	19000	23700	20500	7120	4370	3860	7960	3740	3580
15	3950	27000	6730	22900	26300	19600	6850	3380	3570	5840	4340	3430
16	4700	22500	12100	23000	23800	14800	6380	4830	3490	7060	3990	3820
17	7280	16100	18100	20600	20900	17500	6680	9360	4630	13700	3350	4480
18	12100	14700	16500	15600	26200	18000	6150	13900	18800	9280	3220	4610
19	43700	15200	14100	11000	33500	14400	5390	17500	19200	7410	3270	6710
20	40100	13600	13080	9800	36400	15000	4700	17500	12800	5790	3490	4180
21	25900	14500	10100	10400	28900	30400	5400	15500	22700	6490	3520	3020
22	17700	11600	8150	8840	25300	35200	5870	12600	35100	5290	3230	3020
23	13100	11800	6390	8280	24000	24600	5510	10300	37100	5030	2730	2680
24	12500	9440	6020	8700	19700	18900	4450	7100	24200	5510	2330	3120
25	8530	8420	6910	11100	22600	15500	5160	6570	16200	17000	3150	3080
26	8620	8510	12100	12000	19100	13200	4480	6200	14000	10900	3230	2830
27	6910	8720	14000	21600	18600	14900	4310	5790	11000	7580	3840	3230
28	6160	7030	20180	54600	17900	15800	4200	5830	12100	6930	3130	6830
29	7370	7590	18800	56400	15300	10300	4890	5950	10500	4430	3270	6590
30	7970	8270	16800	39600	---	12200	4290	9200	9010	6110	3090	10100
31	7780	---	14300	28100	---	13900	---	7970	---	9480	4190	---
TOTAL	317990	343500	323780	867220	651300	479270	301750	223010	353800	236290	123560	121000
MEAN	10260	11450	10440	27970	22460	15460	10060	7194	11790	7622	3986	4033
MAX	43700	31900	20180	99200	36400	35200	34800	17500	37100	17000	8070	10100
MIN	3930	5670	5730	8280	14700	6930	4200	3380	3490	4430	2330	2680
CAL YR 1975	TOTAL	7012470	MEAN	19210	MAX	113000	MIN	2360	CFSM 1.84	IN 25.04		
WTR YR 1976	TOTAL	4342470	MEAN	11860	MAX	99200	MIN	2330	CFSM 1.14	IN 15.50		

WATER-QUALITY RECORDS

WATER TEMPERATURES: March 1953 to August 1970, October 1971 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD. --

WATER TEMPERATURES: Maximum, 35.0°C Aug. 25, 26, 1959; minimum, 0.5°C Dec. 28, 29, 1969.

WATER TEMPERATURES: Maximum, 29.5°C Aug. 25, 26; minimum, 2.0°C Jan. 23, 24.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	19.0	17.0	16.0	10.0	9.5	5.5	4.5	4.5	4.0	9.5	9.0
2	20.0	19.0	17.0	16.0	10.0	9.0	5.0	5.0	4.5	4.0	10.0	9.5
3	19.5	18.5	17.0	16.0	10.0	9.0	5.5	5.0	4.5	4.0	11.0	10.0
4	19.5	18.5	17.0	16.0	10.0	9.0	5.5	5.0	4.5	4.0	11.5	11.0
5	19.0	18.5	17.5	16.0	10.0	9.0	5.0	4.0	4.5	3.5	12.0	11.0
6	20.0	18.5	14.0	17.0	10.5	9.0	4.0	3.5	5.0	4.0	12.0	11.5
7	20.0	18.5	17.0	16.0	10.0	9.0	4.0	3.5	5.0	4.0	12.0	12.0
8	19.5	19.0	17.5	16.5	10.0	9.0	4.0	4.0	4.0	3.5	12.0	11.5
9	20.0	19.0	18.0	17.0	9.5	9.0	4.0	3.5	4.0	3.5	11.5	11.0
10	20.0	19.0	18.5	17.0	9.0	8.5	3.5	3.0	5.0	4.0	12.0	11.0
11	21.0	19.0	18.0	17.0	8.5	8.0	3.0	2.5	5.5	4.5	12.0	11.5
12	20.0	19.0	17.0	16.0	8.5	7.5	3.0	3.0	5.5	3.0	11.5	10.5
13	21.0	19.5	16.0	15.5	8.5	8.5	3.0	3.0	6.0	5.5	11.0	10.5
14	21.0	19.0	15.5	13.0	8.5	8.0	4.0	3.0	6.0	6.0	10.5	10.0
15	21.0	19.0	13.0	13.0	9.0	8.5	4.0	4.0	6.5	6.0	10.0	9.5
16	21.0	19.5	13.0	12.0	8.5	8.0	4.0	4.0	7.0	6.5	10.0	9.5
17	21.0	19.5	12.0	12.0	8.5	7.5	---	---	8.0	7.0	9.5	9.0
18	19.5	19.0	12.0	12.0	7.5	7.0	---	---	9.0	8.0	9.0	9.0
19	19.0	18.0	12.0	11.5	7.0	6.5	---	---	9.0	9.0	9.0	8.5
20	18.0	17.0	12.0	11.0	6.5	6.0	---	---	9.0	9.0	9.0	8.5
21	17.0	16.5	11.5	11.0	6.0	5.0	---	---	9.0	9.0	10.0	9.0
22	17.0	17.0	11.5	11.0	6.0	5.0	---	---	9.0	9.0	10.0	10.0
23	17.0	17.0	11.0	11.0	5.5	4.5	3.0	2.0	9.0	8.5	10.0	10.0
24	17.5	17.0	11.0	10.0	5.0	3.0	4.0	2.0	8.5	8.0	10.0	10.0
25	18.0	17.5	11.0	10.0	5.0	4.0	4.5	4.0	8.0	8.0	11.0	10.0
26	17.5	17.0	11.0	10.0	4.5	3.5	4.5	4.0	8.0	7.5	11.0	11.0
27	17.5	17.0	11.0	10.0	4.5	4.0	4.5	4.0	8.5	8.0	11.5	10.0
28	18.0	17.0	10.0	9.5	4.5	3.5	4.0	3.5	8.5	8.0	12.0	11.5
29	18.0	17.0	10.0	9.0	4.0	3.5	4.0	3.5	9.0	8.5	12.5	12.0
30	18.0	17.0	10.0	9.0	4.5	4.0	4.0	4.0	---	---	13.0	12.0
31	17.0	16.5	---	---	4.5	4.5	4.0	4.0	---	---	14.0	13.0
MONTH	21.0	16.5	18.5	9.0	10.5	3.0	5.5	2.0	9.0	3.0	14.0	8.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	13.0	20.0	18.0	22.5	21.5	25.0	25.0	26.5	26.0	27.5	26.0
2	13.0	12.5	19.5	18.0	22.0	22.0	26.0	25.0	26.0	25.0	27.0	25.5
3	12.5	12.0	19.0	18.0	22.0	22.0	26.0	25.0	25.0	23.5	27.0	25.0
4	12.0	11.5	19.0	17.0	22.5	21.5	25.5	25.0	25.5	23.5	27.0	25.5
5	11.5	11.0	18.0	16.5	22.0	21.5	27.0	25.0	26.5	24.0	27.5	25.5
6	12.0	11.0	19.0	16.5	22.0	21.0	25.5	24.5	26.5	24.5	27.0	25.5
7	12.0	11.5	19.0	17.5	22.5	21.5	25.5	25.0	26.5	25.0	27.0	25.0
8	12.0	12.0	19.0	17.0	23.5	21.5	25.5	25.0	25.5	24.5	27.0	25.5
9	12.5	12.0	20.0	17.5	24.0	22.0	25.5	24.5	26.0	24.5	27.5	25.0
10	13.0	12.5	20.0	17.5	24.0	22.5	25.5	24.5	26.0	24.5	27.5	24.5
11	14.0	13.0	20.0	18.5	25.0	24.0	26.5	24.5	28.0	25.0	25.5	23.5
12	13.0	12.0	20.0	18.5	26.5	24.0	26.0	24.0	28.0	25.5	24.5	23.0
13	13.5	12.0	21.0	19.0	25.5	24.5	24.5	24.0	28.0	26.0	25.0	23.5
14	14.0	13.0	22.0	19.5	27.0	25.0	25.0	24.0	28.0	26.0	25.0	23.5
15	14.0	13.0	22.0	20.5	28.0	25.5	26.0	24.5	27.0	26.0	24.5	23.0
16	15.0	13.5	22.5	20.5	28.5	26.0	25.0	23.5	28.0	26.0	24.0	23.0
17	17.0	14.5	21.5	21.0	28.0	26.0	23.5	22.5	28.0	25.5	24.0	23.0
18	17.5	16.5	21.5	20.0	28.0	27.0	23.5	23.0	28.0	26.0	24.5	23.0
19	18.0	16.0	20.0	18.5	28.0	26.0	25.0	23.0	28.0	26.0	24.5	23.0
20	19.5	16.0	19.0	18.5	26.0	25.0	26.0	24.0	28.0	26.0	23.5	23.0
21	20.0	18.0	19.0	18.0	25.0	23.0	26.0	24.0	28.0	26.0	24.0	22.5
22	20.0	18.5	18.0	18.0	23.0	22.5	26.0	24.5	28.0	26.0	24.0	22.0
23	21.0	19.5	18.5	18.0	23.0	21.5	27.0	24.5	28.0	27.0	23.0	21.5
24	22.0	19.5	19.0	18.0	22.0	21.5	27.5	26.5	29.0	26.5	23.0	21.5
25	20.5	20.0	20.0	18.5	22.5	22.0	27.0	26.0	29.5	27.5	23.5	21.5
26	21.0	19.5	20.0	19.0	23.0	22.5	27.0	24.5	29.5	27.5	23.5	22.0
27	20.0	18.5	21.0	19.0	24.0	22.0	27.0	25.5	28.5	27.5	23.5	20.5
28	19.0	18.0	21.0	20.0	24.5	23.5	28.0	26.0	29.0	27.5	20.5	20.0
29	19.0	17.5	22.0	20.0	25.0	24.0	27.5	26.0	29.0	27.5	21.0	20.0
30	20.0	18.0	22.0	21.0	25.0	24.5	26.5	26.0	28.5	27.0	21.0	20.0
31	---	---	21.5	21.0	---	---	26.5	25.5	28.0	26.5	---	---
MONTH	22.0	11.0	22.5	16.5	28.5	21.0	28.0	22.5	29.5	23.5	27.5	20.0
YEAR	29.5	2.0										

03198450 DRAWDY CREEK NEAR PEYTONA, WV

LOCATION.--Lat 38°07'29", long 81°41'33", Boone County, Hydrologic Unit 05050009, 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.--Annual maximum, water years 1965-68. October 1968 to current year.

REVISED RECORDS.--WDR WV-69: 1965-68(M).

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.

REMARKS.--Records fair except those for periods of no gage-height record, Oct. 1 to Nov. 5 and Aug. 4-19, which are poor. 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.

AVERAGE DISCHARGE.--8 years, 10.2 ft³/s (0.289 m³/s), 17.87 in/yr (454 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,400 ft³/s (39.6 m³/s) Nov. 27, 1973, gage height, 12.93 ft (3.941 m); minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 5, 26, 31, Sept. 1, 24, 25, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 169 ft³/s (4.79 m³/s) Mar. 21, gage height, 5.75 ft (1.753 m), no other peak above base of 150 ft³/s (4.2 m³/s); minimum daily, 0.02 ft³/s (0.001 m³/s) Aug. 5, 26, 31, Sept. 1, 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.5	3.4	69	14	4.1	62	3.4	1.5	1.3	1.4	.02
2	1.5	1.5	2.7	35	12	3.5	35	2.9	1.7	1.0	.30	.70
3	1.4	1.4	2.7	40	10	2.9	24	4.9	1.6	1.0	.06	.16
4	1.3	1.2	2.7	37	10	2.4	19	3.3	1.3	1.1	.03	.12
5	1.2	1.1	2.7	23	9.5	2.6	14	3.0	1.1	1.0	.02	.08
6	1.1	1.1	4.5	16	12	2.1	12	2.7	1.0	1.4	.10	.06
7	1.0	1.3	6.5	15	10	1.7	10	2.7	1.2	2.0	.14	.04
8	1.2	1.3	7.0	13	10	1.6	8.6	2.5	.86	1.2	5.0	.04
9	1.4	1.2	7.2	11	9.1	11	7.4	2.3	.78	1.1	1.5	.08
10	1.1	1.3	6.8	10	8.3	19	6.6	2.1	1.0	.86	.50	12
11	1.2	1.2	5.8	12	9.5	17	6.5	2.1	.62	.86	.70	.78
12	1.1	40	5.3	15	8.6	14	5.8	1.9	.62	1.3	.60	.35
13	1.1	23	4.8	23	16	13	5.2	1.6	.62	1.2	.54	.12
14	1.0	14	4.4	30	39	9.8	4.8	1.5	.62	.70	.30	.10
15	1.0	8.8	9.9	24	29	8.0	4.5	2.4	.54	.54	1.5	.40
16	1.2	6.8	37	19	19	9.2	4.2	2.2	.54	1.0	.80	.25
17	15	5.4	22	15	25	7.0	3.9	3.3	.40	1.3	.30	.12
18	20	4.5	14	11	32	6.0	3.6	14	.94	.78	.20	.10
19	13	3.7	8.0	10	25	5.6	3.3	11	1.5	.70	.10	.08
20	9.0	3.4	7.6	8.5	19	6.0	3.2	6.5	4.1	.54	.08	.06
21	4.5	4.5	6.4	7.5	15	105	3.1	4.8	1.8	.54	.10	.08
22	3.0	3.4	4.5	7.0	16	54	3.0	3.7	1.6	.47	.06	.06
23	2.0	3.1	3.5	6.5	12	30	2.7	3.1	1.1	.40	.04	.03
24	1.5	2.7	3.3	7.0	10	21	2.5	2.6	1.4	.47	.04	.02
25	1.3	2.7	3.0	7.5	9.8	20	2.8	2.3	1.4	.35	.03	.02
26	1.6	2.6	27	9.5	8.8	17	3.4	2.0	1.8	.25	.02	.20
27	1.8	2.9	24	19	7.2	15	2.6	1.7	1.1	.86	.08	2.6
28	1.5	2.3	16	21	6.0	13	2.3	1.6	.86	1.5	.30	1.6
29	1.2	2.1	12	19	5.4	14	2.1	2.0	.86	.40	.10	.78
30	1.6	2.3	12	16	---	16	2.1	1.8	3.7	.35	.04	19
31	1.5	---	23	13	---	39	---	1.6	---	1.5	.02	---
TOTAL	97.6	152.3	299.7	569.5	417.2	490.5	270.2	103.5	38.16	27.97	28.86	40.05
MEAN	3.15	5.08	9.67	18.4	14.4	15.8	9.01	3.34	1.27	.90	.93	1.34
MAX	20	40	37	69	39	105	62	14	4.1	2.0	14	19
MIN	1.0	1.1	2.7	6.5	5.4	1.6	2.1	1.5	.40	.25	.02	.02
CFSM	.41	.66	1.25	2.37	1.86	2.04	1.16	.43	.16	.12	.12	.17
IN.†	.47	.73	1.44	2.73	2.00	2.35	1.30	.50	.18	.13	.14	.19
IN.‡	---	---	3.84	2.65	2.60	.10	---	---	3.85	4.43	---	7.62
CAL YR 1975 TOTAL	4360.22			MEAN 11.9	MAX 124	MIN .35	CFSM 1.54	IN† 20.93				
WTR YR 1976 TOTAL	2535.54			MEAN 6.93	MAX 105	MIN .02	CFSM .89	IN† 12.17				

† Runoff.

‡ Rainfall.

KANAWHA RIVER BASIN

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03198500 BIG COAL RIVER AT ASHFORD, WV

LOCATION---Lat 38°10'45", long 81°42'40", Boone County, Hydrologic Unit 05050009, 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.

REVISED RECORDS--WSP 783: Drainage area. WSP 1305: 1913-14(M). WSP 1335: 1912, 1916(M).

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.

REMARKS--Records good.

AVERAGE DISCHARGE--54 years, 511 ft³/s (14.47 m³/s), 17.66 in/yr (449 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR--Maximum discharge, 5,930 ft³/s (168 m³/s) Jan. 1, gage height, 11.43 ft (3.484 m), no other peak above base of 5,500 ft³/s (160 m³/s); minimum, 27 ft³/s (0.76 m³/s) Sept. 9, gage height, 1.68 ft (0.512 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	187	170	4470	696	406	1500	125	92	55	136	32
2	84	185	162	2570	680	363	1180	139	90	51	136	46
3	81	180	152	1880	640	330	919	157	93	43	88	67
4	71	177	144	1930	600	303	758	147	87	49	62	57
5	64	172	138	1410	578	287	630	128	76	54	49	48
6	62	119	140	990	695	279	517	116	67	61	44	40
7	59	89	222	798	924	257	446	115	59	82	142	33
8	59	101	242	775	901	239	386	111	57	81	154	31
9	70	114	245	600	757	327	331	103	54	81	100	29
10	78	110	262	500	628	853	296	96	50	69	74	161
11	80	117	260	520	609	956	284	93	47	57	63	108
12	68	858	250	600	651	852	273	96	46	101	52	67
13	59	2840	243	663	676	784	248	90	48	174	54	52
14	58	1190	231	1290	1130	664	232	85	93	105	73	42
15	57	720	250	1530	1220	557	220	84	69	69	172	46
16	56	582	1110	1120	1150	530	209	106	62	63	140	61
17	280	558	1340	870	977	577	199	163	52	85	101	70
18	840	522	890	600	1360	516	188	227	53	69	76	62
19	440	425	614	500	2000	522	177	328	60	56	58	51
20	280	342	470	450	1600	542	168	280	85	48	48	46
21	213	322	393	400	1120	2710	163	212	115	41	42	44
22	170	307	324	360	967	2920	163	174	130	39	39	43
23	142	265	250	320	874	1580	154	143	103	40	35	38
24	123	240	230	370	761	1090	144	123	76	34	34	34
25	110	227	210	517	704	898	140	111	74	44	31	33
26	108	213	656	685	644	779	150	101	95	62	30	36
27	112	200	785	1090	581	676	143	92	87	45	30	79
28	108	192	709	1460	514	588	131	84	70	36	35	388
29	103	172	591	1180	457	515	123	83	57	36	47	255
30	167	160	532	927	---	566	117	93	67	39	51	838
31	197	---	838	769	---	690	---	89	---	107	38	---
TOTAL	4483	11886	12853	31944	25094	23156	10589	4094	2214	1976	2234	2937
MEAN	145	396	415	1030	865	747	353	132	73.8	63.7	72.1	97.9
MAX	840	2840	1340	4470	2000	2920	1500	328	130	174	172	838
MIN	56	89	138	320	457	239	117	83	46	34	30	29
CFSM	.37	1.01	1.06	2.62	2.20	1.90	.90	.34	.19	.16	.18	.25
IN.	.42	1.13	1.22	3.02	2.38	2.19	1.00	.39	.21	.19	.21	.28
CAL YR 1975 TOTAL	262085			MEAN 718	MAX 7940	MIN 34	CFSM 1.83	IN 24.81				
WTR YR 1976 TOTAL	133460			MEAN 365	MAX 4470	MIN 29	CFSM .93	IN 12.63				

KANAWHA RIVER BASIN

03198550 BIG COAL RIVER NEAR ALUM CREEK, WV

LOCATION.--Lat 38°15'00", long 81°47'54", Kanawha County, Hydrologic Unit 05050009, at Chesapeake & Ohio Railroad bridge at end of Sproul Tunnel, 2.6 mi (4.2 km) south of Alum Creek, and at mile 2.1 (3.4 km).

DRAINAGE AREA.--442 mi² (1,145 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 588.75 ft (179.451 m) above mean sea level. Prior to Apr. 14, 1976, nonrecording gage at same site. Prior to Jan. 30, 1976, at datum 0.50 ft (0.152 m) lower and Jan. 30 to Apr. 13, 1976, at same datum.

REMARKS.--Water-discharge records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,900 ft³/s (394 m³/s) Mar. 30, 1975, gage height, 22.60 ft (6.888 m), from graph based on gage readings, from rating curve extended above 1,100 ft³/s (31.2 m³/s); minimum daily, 33 ft³/s (0.93 m³/s) Sept. 9, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 6,630 ft³/s (188 m³/s) Jan. 1, gage height, 15.25 ft (4.648 m), no other peak above base of 6,000 ft³/s (170 m³/s); minimum daily, 33 ft³/s (0.93 m³/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	209	163	5440	839	490	1430	148	123	61	150	40
2	85	200	171	3500	800	462	1360	178	117	52	160	52
3	83	179	163	2270	720	403	1060	195	115	52	119	68
4	87	185	157	2340	700	370	889	200	106	55	78	68
5	87	180	150	2350	673	340	713	170	90	65	55	53
6	78	140	215	1770	794	340	623	155	75	80	50	45
7	83	98	310	1380	1060	334	560	148	64	101	150	38
8	87	110	338	1170	920	331	490	130	62	95	193	36
9	90	120	330	846	821	403	427	128	57	95	128	33
10	95	120	330	666	713	934	385	121	55	104	90	165
11	90	127	330	689	665	1160	370	117	52	78	72	128
12	80	950	310	743	693	979	346	117	50	110	62	66
13	70	2540	303	900	745	911	319	110	60	208	84	59
14	65	1700	275	2180	1210	765	295	104	110	140	97	50
15	62	1000	303	1930	1510	578	280	99	80	101	190	50
16	60	707	1200	1450	1250	588	265	128	59	90	165	70
17	275	648	1670	1040	1160	606	250	198	55	130	99	80
18	833	610	1170	750	1670	588	235	473	65	84	78	72
19	653	530	810	600	2240	595	223	560	75	70	64	61
20	390	450	940	550	1830	623	208	438	95	60	52	61
21	266	410	590	520	1360	2750	203	322	119	52	46	53
22	194	382	430	480	1120	3020	200	256	130	45	42	48
23	165	330	338	450	1000	1950	193	208	121	47	40	44
24	150	269	300	490	884	1320	180	173	78	42	38	41
25	118	236	282	600	785	1210	173	150	80	60	36	38
26	109	215	358	765	733	1010	188	123	90	80	34	55
27	114	221	910	925	665	794	180	115	104	60	35	86
28	107	206	965	1170	595	665	163	104	105	50	45	403
29	98	171	797	1150	525	602	150	104	85	40	55	328
30	125	163	689	1030	---	567	130	121	70	43	60	845
31	185	---	810	911	---	745	---	128	---	90	43	---
TOTAL	5069	13406	16107	41055	28680	26433	12488	5721	2547	2440	2610	3236
MEAN	164	447	520	1324	989	853	416	185	84.9	78.7	84.2	108
MAX	833	2540	1670	5440	2240	3020	1430	560	130	208	193	845
MIN	60	98	150	450	525	331	130	99	50	40	34	33
CFSM	.37	1.01	1.18	3.00	2.24	1.93	.94	.42	.19	.18	.19	.24
IN.	.43	1.13	1.36	3.46	2.41	2.22	1.05	.48	.21	.21	.22	.27

CAL YR 1975 TOTAL 309347 MEAN 848 MAX 9300 MIN 43 CFSM 1.92 IN 26.04
WTR YR 1976 TOTAL 159792 MEAN 437 MAX 5440 MIN 33 CFSM .99 IN 13.45

KANAWHA RIVER BASIN

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03198550 BIG COAL RIVER NEAR ALUM CREEK, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURES: October 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 806 micromhos Oct. 3, 1974; minimum daily, 118 micromhos Jan. 2, 1976.

WATER TEMPERATURES: Maximum daily, 30.0°C June 26, July 31, 1975; minimum daily, 0.0°C Jan. 17, 1975, Jan. 9, 10, 1976.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,010 mg/L May 23, 1975; minimum daily mean, 1 mg/L Apr. 30, May 8, 1976.

SEDIMENT LOADS: Maximum daily, 20,300 tons (18,400 tonnes) Mar. 30, 1975; minimum daily, 0.35 ton (0.32 tonne) Apr. 30, May 8, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 713 micromhos July 30; minimum daily, 118 micromhos Jan. 2.

WATER TEMPERATURES: Maximum daily, 29.0°C June 13, July 28, 30; minimum daily, 0.0°C Jan. 9, 10.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 978 mg/L Nov. 13; minimum daily mean, 1 mg/L Apr. 30, May 8.

SEDIMENT LOADS: Maximum daily, 7,790 tons (7,070 tonnes) Jan. 1; minimum daily, 0.35 ton (0.32 tonne) Apr. 30, May 8.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	348	267	286	134	194	254	149	369	378	531	690	552
2	326	245	284	118	209	261	182	377	410	558	558	551
3	342	223	292	134	208	267	179	373	420	579	429	569
4	357	228	295	140	208	276	188	367	431	598	495	527
5	383	233	298	145	213	287	210	369	436	616	462	501
6	382	232	306	160	218	291	213	368	---	626	456	517
7	396	247	266	178	216	302	229	362	446	582	468	541
8	396	248	247	212	182	307	234	363	450	605	377	543
9	413	274	244	207	184	305	---	372	465	662	396	---
10	423	283	248	210	199	264	264	378	463	689	388	388
11	442	307	253	217	213	195	264	390	479	676	414	381
12	441	233	249	212	224	178	272	397	481	631	441	427
13	451	129	254	198	222	212	281	---	490	622	316	459
14	454	142	250	213	177	197	295	412	508	---	419	478
15	453	178	290	147	174	205	301	420	487	512	429	468
16	454	173	180	159	168	214	309	425	506	521	373	483
17	280	189	151	191	174	225	314	416	559	525	388	475
18	270	195	148	192	181	230	322	270	539	503	435	497
19	219	196	160	209	150	230	328	---	547	535	426	526
20	235	207	170	224	150	231	333	296	539	574	451	513
21	263	221	189	256	167	166	340	269	485	594	460	514
22	250	231	212	247	185	137	348	281	528	601	480	518
23	262	235	215	243	204	150	350	280	537	617	481	525
24	278	242	233	253	212	180	351	296	552	602	480	---
25	290	250	243	267	220	208	355	325	517	600	482	---
26	304	266	178	258	225	214	359	330	584	629	499	523
27	305	264	188	215	227	215	---	350	542	657	505	495
28	301	267	196	161	234	227	377	369	565	685	498	379
29	310	272	173	155	246	233	380	364	589	703	536	325
30	307	279	177	168	---	214	389	372	556	713	531	241
31	358	---	124	223	---	222	---	376	---	704	536	---
MONTH	344	232	226	195	199	229	290	356	500	608	461	478
YEAR	MAX	713	MIN	118	MEAN	342						

KANAWHA RIVER BASIN

03198550 BIG COAL RIVER NEAR ALUM CREEK, WV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	14.0	7.0	5.5	8.0	10.0	12.0	16.0	21.0	27.0	28.0	25.0
2	12.5	15.0	7.0	10.0	2.0	14.0	11.0	16.0	21.0	22.0	28.0	24.0
3	16.0	16.0	8.0	10.0	4.0	15.0	13.0	17.0	22.0	26.0	25.0	23.0
4	18.0	16.0	8.0	5.0	6.0	15.0	14.0	18.0	21.0	25.0	23.0	25.0
5	19.0	16.0	10.0	5.0	9.0	10.0	14.0	---	23.0	20.0	25.0	25.0
6	19.0	17.0	10.0	3.0	5.0	11.0	17.0	20.0	---	21.0	25.0	23.0
7	20.0	16.0	12.0	3.0	4.0	10.0	17.0	17.0	25.0	25.0	24.0	24.0
8	19.0	16.0	11.0	2.0	3.0	9.0	14.0	18.0	25.0	26.0	22.0	25.0
9	19.0	17.0	8.0	0.0	4.0	8.0	---	19.0	23.5	26.0	23.0	---
10	20.0	15.0	8.0	0.0	10.0	9.0	13.0	19.0	25.0	24.0	24.0	22.0
11	---	14.0	8.0	1.0	9.0	11.0	12.0	20.0	28.0	28.0	26.0	18.0
12	16.0	15.0	7.0	4.0	10.0	12.0	10.0	20.0	28.0	27.0	26.0	21.0
13	18.0	15.0	9.0	5.0	9.0	7.0	14.0	---	29.0	---	24.0	20.5
14	19.0	9.0	10.0	5.0	10.0	8.0	18.0	21.0	25.0	---	26.0	23.0
15	21.0	8.0	10.5	5.0	11.0	10.0	18.0	20.0	26.0	27.0	25.0	22.0
16	20.0	7.5	10.0	5.0	13.0	8.0	20.0	20.0	27.0	26.0	24.0	21.0
17	19.0	9.5	8.0	5.0	11.0	8.0	22.0	22.0	28.0	25.0	24.0	20.0
18	16.0	10.0	3.0	4.0	10.0	8.0	24.0	18.0	25.0	25.0	25.0	20.0
19	19.0	10.0	4.5	4.0	12.0	10.0	24.0	---	25.0	26.0	25.0	22.0
20	16.0	13.0	4.0	2.0	10.0	10.0	23.0	18.0	25.0	27.0	24.0	21.0
21	17.0	9.0	3.0	2.0	10.0	10.0	23.0	19.0	25.0	28.0	24.0	22.0
22	17.0	10.0	3.0	4.0	11.0	11.0	22.0	19.0	26.0	27.0	25.0	19.0
23	20.0	8.0	2.0	7.0	8.0	12.0	23.0	21.0	26.0	28.0	26.0	18.0
24	20.0	9.0	4.0	7.0	10.0	13.0	22.0	21.0	24.0	26.0	26.0	---
25	19.0	7.0	6.0	8.0	10.0	14.0	22.0	20.0	27.0	27.0	26.0	---
26	15.0	8.0	5.0	5.0	10.0	16.0	10.0	20.0	24.0	28.0	26.0	20.0
27	17.0	8.0	6.0	5.0	12.0	18.0	---	22.0	24.0	27.0	25.0	19.0
28	18.0	8.0	6.0	5.0	13.0	17.0	12.0	21.0	26.0	29.0	25.0	18.0
29	17.0	9.0	7.0	6.0	10.0	15.0	12.5	21.0	26.0	28.0	25.0	17.0
30	15.0	9.0	8.0	5.0	---	14.0	13.0	20.0	27.0	29.0	27.0	16.0
31	14.0	---	9.0	8.0	---	18.0	---	23.0	---	27.0	26.0	---
MONTH	18.0	12.0	7.0	5.0	9.0	11.5	17.0	19.5	25.0	26.0	25.0	21.0
YEAR	MAX	29.0	MIN	0.0	MEAN	16.0						

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	85	26	6.0	209	48	27	163	20	8.8
2	85	27	6.2	200	20	11	171	15	6.9
3	83	17	3.8	179	15	7.2	163	27	12
4	87	20	4.7	185	18	9.0	157	17	7.2
5	87	14	3.3	180	14	6.8	150	15	6.1
6	78	6	1.3	140	17	6.4	215	42	24
7	83	7	1.6	98	14	3.7	310	86	72
8	87	11	2.6	110	67	20	338	200	182
9	90	12	2.9	120	45	15	330	64	57
10	95	17	4.4	120	13	4.2	330	20	18
11	90	13	3.2	127	17	5.8	330	17	15
12	80	14	3.0	950	365	936	310	13	11
13	70	13	2.5	2540	978	6710	303	14	11
14	65	10	1.8	1700	320	1470	275	18	13
15	62	10	1.7	1000	67	181	303	25	20
16	60	14	2.3	707	100	191	1200	327	1060
17	275	199	148	648	25	44	1670	216	974
18	833	319	717	610	11	18	1170	67	212
19	653	87	153	530	22	31	810	43	94
20	390	34	36	450	17	21	940	28	71
21	266	50	36	410	44	49	590	107	170
22	194	41	21	382	35	36	430	58	67
23	165	28	12	330	17	15	338	25	23
24	150	17	6.9	269	61	44	300	33	27
25	118	10	3.2	236	12	7.6	282	16	12
26	109	15	4.4	215	9	5.2	358	160	155
27	114	15	4.6	221	27	16	910	77	189
28	107	13	3.8	206	37	21	965	35	91
29	98	14	3.7	171	23	11	797	90	194
30	125	15	5.1	163	45	20	689	63	117
31	185	23	11	---	---	---	810	35	77
TOTAL	5069	---	1217.0	13406	---	9942.9	16107	---	3997.0

03198550 BIG COAL RIVER NEAR ALUM CREEK, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5440	544	7790	839	70	159	490	13	17
2	3500	460	4350	800	62	134	462	13	16
3	2270	342	2100	720	27	52	403	18	20
4	2340	318	2010	700	47	89	370	18	18
5	2350	282	1790	673	34	62	340	21	19
6	1770	190	908	794	87	187	340	17	16
7	1380	111	414	1060	160	458	334	14	13
8	1170	43	136	920	60	149	331	11	9.8
9	846	47	107	821	28	62	403	84	91
10	666	36	65	713	20	39	934	262	661
11	689	17	32	665	30	54	1160	83	260
12	743	20	40	693	123	230	979	57	151
13	900	99	240	745	85	171	911	23	57
14	2180	190	1120	1210	182	595	765	32	66
15	1930	134	698	1510	406	1660	578	23	36
16	1450	72	286	1250	156	526	588	23	37
17	1040	33	93	1160	263	824	606	110	180
18	750	35	71	1670	255	1150	588	60	95
19	600	43	70	2240	247	1490	595	45	72
20	550	37	55	1830	165	815	623	79	133
21	520	10	14	1360	67	246	2750	625	4640
22	480	10	13	1120	51	154	3020	255	2080
23	450	17	21	1000	35	94	1950	210	1110
24	490	60	79	884	28	67	1320	88	314
25	600	47	76	785	29	61	1210	30	98
26	765	72	149	733	30	59	1010	170	464
27	925	120	300	665	35	63	794	68	146
28	1170	158	500	595	27	43	665	23	41
29	1150	116	360	525	15	21	602	17	28
30	1030	87	242	---	---	---	567	7	11
31	911	71	176	---	---	---	745	64	129
TOTAL	41055	---	24305	28680	---	9714	26433	---	11028.8
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1430	164	633	148	3	1.2	123	6	2.0
2	1360	46	169	178	6	2.9	117	5	1.6
3	1060	28	80	195	8	4.2	115	4	1.2
4	889	23	55	200	6	3.2	106	3	.86
5	713	18	35	170	4	1.8	90	4	.97
6	623	18	30	155	8	3.3	75	3	.61
7	560	15	23	148	4	1.6	64	3	.52
8	490	31	41	130	1	.35	62	4	.67
9	427	19	22	128	2	.69	57	6	.92
10	385	7	7.3	121	2	.65	55	6	.89
11	370	8	8.0	117	6	1.9	52	10	1.4
12	346	7	6.5	117	10	3.2	50	7	.94
13	319	7	6.0	110	5	1.5	60	12	1.9
14	295	8	6.4	104	3	.84	110	11	3.3
15	280	8	6.0	99	6	1.6	80	16	3.5
16	265	7	5.0	128	7	2.4	59	18	2.9
17	250	8	5.4	198	22	12	55	12	1.8
18	235	9	5.7	473	144	217	65	11	1.9
19	223	7	4.2	560	40	60	75	8	1.6
20	208	5	2.8	438	27	32	95	13	3.3
21	203	5	2.7	322	20	17	119	20	6.4
22	200	7	3.8	256	15	10	130	23	8.1
23	193	6	3.1	208	8	4.5	121	15	4.9
24	180	7	3.4	173	6	2.8	78	11	2.3
25	173	3	1.4	150	9	3.6	80	16	3.5
26	188	3	1.5	123	5	1.7	90	35	8.5
27	180	4	1.9	115	4	1.2	104	26	7.3
28	163	4	1.8	104	4	1.1	105	14	4.0
29	150	2	.81	104	6	1.7	85	6	1.4
30	130	1	.35	121	8	2.6	70	20	3.8
31	---	---	---	128	11	3.8	---	---	---
TOTAL	12488	---	1172.06	5721	---	402.33	2547	---	82.98

KANAWHA RIVER BASIN

03198550 BIG COAL RIVER NEAR ALUM CREEK, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	61	7	1.2	150	23	9.3	40	18	1.9
2	52	4	.56	160	70	30	52	18	2.5
3	52	28	3.9	119	54	17	68	38	7.0
4	55	27	4.0	78	38	8.0	68	22	4.0
5	65	7	1.2	55	30	4.5	53	20	2.9
6	80	4	.86	50	25	3.4	45	17	2.1
7	101	17	4.6	150	66	27	38	10	1.0
8	95	17	4.4	193	114	59	36	11	1.1
9	95	4	1.0	128	56	19	33	23	2.0
10	104	15	4.2	90	55	13	165	128	57
11	78	9	1.9	72	27	5.2	128	122	42
12	110	9	2.7	62	40	6.7	66	81	14
13	208	26	15	84	83	19	59	41	6.5
14	140	24	9.1	97	73	19	50	55	7.4
15	101	61	17	190	147	75	50	67	9.0
16	90	71	17	165	87	39	70	63	12
17	130	63	22	99	52	14	80	51	11
18	84	26	5.9	78	64	13	72	31	6.0
19	70	18	3.4	64	24	4.1	61	30	4.9
20	60	9	1.5	52	18	2.5	61	29	4.8
21	52	21	2.9	46	16	2.0	53	24	3.4
22	45	10	1.2	42	14	1.6	48	19	2.5
23	47	6	.76	40	25	2.7	44	18	2.1
24	42	18	2.0	38	19	1.9	41	18	2.0
25	60	8	1.3	36	15	1.5	38	18	1.8
26	80	13	2.8	34	15	1.4	55	18	2.7
27	60	26	4.2	35	17	1.6	86	25	5.8
28	50	8	1.1	45	15	1.8	403	73	79
29	40	4	.43	55	17	2.5	328	56	50
30	43	18	2.1	60	19	3.1	845	460	1050
31	90	11	2.7	43	23	2.7	---	---	---
TOTAL	2440	---	142.91	2610	---	410.5	3236	---	1398.4
YEAR 159792.0			63813.88						

KANAWHA RIVER BASIN

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03199000 LITTLE COAL RIVER AT DANVILLE, WV

LOCATION.--Lat 38°04'47", long 81°50'12", Boone County, Hydrologic Unit 05050009, 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).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1930 to current year. Prior to October 1941, published as "at Madison."

REVISED RECORDS.--WSP 1725: 1951(M), 1955(M).

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.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--46 years, 349 ft³/s (9.884 m³/s), 17.55 in/yr (446 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,450 ft³/s (126 m³/s) Mar. 21, gage height, 10.92 ft (3.328 m), no peak above base of 4,500 ft³/s (130 m³/s); minimum, 19 ft³/s (0.54 m³/s) Sept. 9, gage height, 1.83 ft (0.558 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	92	143	2490	516	306	1460	106	69	58	121	25
2	84	89	127	1430	480	282	845	119	65	52	60	34
3	74	85	125	1280	450	261	631	130	71	52	39	55
4	64	83	119	1470	420	243	548	115	62	80	39	35
5	61	80	117	949	400	237	464	100	60	65	35	31
6	59	78	125	685	556	228	404	96	58	74	40	29
7	56	80	213	584	618	208	358	96	54	76	186	27
8	61	96	216	580	600	196	312	96	52	64	85	23
9	79	83	225	450	524	297	276	87	52	73	49	23
10	64	85	249	400	456	613	249	82	51	57	41	181
11	67	87	237	430	468	584	243	80	49	51	44	67
12	62	1120	225	500	416	524	231	87	45	45	39	38
13	59	1790	213	584	468	500	203	74	44	41	39	30
14	54	801	200	1150	982	432	191	69	102	35	87	25
15	53	532	237	982	955	382	184	73	51	33	100	32
16	56	444	1410	751	740	389	174	89	51	38	85	52
17	382	389	1070	609	713	396	160	100	51	40	51	37
18	564	358	650	450	1040	358	152	186	52	43	43	35
19	303	309	472	390	1110	368	143	264	71	41	37	38
20	210	276	393	350	883	375	138	174	155	38	31	32
21	160	276	340	330	703	2840	134	138	111	35	27	34
22	134	234	250	300	645	2030	132	117	134	35	28	31
23	115	203	220	270	552	1050	121	104	94	33	28	28
24	100	186	200	300	488	740	113	92	73	31	28	24
25	92	172	190	382	456	654	113	85	69	54	29	26
26	104	160	528	468	428	564	127	82	130	37	30	29
27	111	155	568	730	389	512	113	78	104	29	28	213
28	94	140	512	845	361	452	102	78	73	26	33	428
29	87	125	444	735	333	420	98	78	64	26	57	148
30	102	125	432	618	---	440	94	91	69	43	35	878
31	94	---	544	536	---	640	---	71	---	111	26	---
TOTAL	3679	8733	10994	22028	17150	17521	8513	3237	2186	1516	1600	2688
MEAN	119	291	355	711	591	565	284	104	72.9	48.9	51.6	89.6
MAX	564	1790	1410	2490	1110	2840	1460	264	155	111	186	878
MIN	53	78	117	270	333	196	94	69	44	26	26	23
CFSM	.44	1.08	1.31	2.63	2.19	2.09	1.05	.39	.27	.18	.19	.33
IN.	.51	1.20	1.51	3.03	2.36	2.41	1.17	.45	.30	.21	.22	.37
CAL YR 1975 TOTAL	179130			491	MAX 4490	MIN 44	CFSM 1.82	IN 24.68				
WTR YR 1976 TOTAL	99845			273	MAX 2840	MIN 23	CFSM 1.01	IN 13.76				

KANAWHA RIVER BASIN

03199000 LITTLE COAL RIVER AT DANVILLE, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1973 to current year.

WATER TEMPERATURES: July 1973 to current year.

SUSPENDED-SEDIMENT DISCHARGE: August 1973 to current year.

INSTRUMENTATION.--Temperature recorder since July 31, 1973.

REMARKS.--Temperature recorder stopped Nov. 5-9 (range in temperature 13.0°C to 17.0°C).

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,690 micromhos Oct. 18, 1973; minimum daily, 110 micromhos Apr. 27, 1975.

WATER TEMPERATURES: Maximum, 32.0°C July 23, 24, 1976; minimum, 0.0°C Jan. 14-18, 1975.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,230 mg/L Nov. 27, 1973; minimum daily mean, 0 mg/L Oct. 2, 3,

5-9, 1974.

SEDIMENT LOADS: Maximum daily, 44,400 tons (40,300 tonnes) Nov. 27, 1973; minimum daily, 0 ton (0 tonne) Oct. 2, 3, 5-9, 1974.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,380 micromhos Aug. 26; minimum daily, 139 micromhos Mar. 22.

WATER TEMPERATURES: Maximum, 32.0°C July 23, 24; minimum, 1.0°C Jan. 19, 20.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,650 mg/L Mar. 21; minimum daily mean, 1 mg/L Oct. 5-7, 16.

SEDIMENT LOADS: Maximum daily, 12,700 tons (11,500 tonnes) Mar. 21; minimum daily, 0.15 ton (0.14 tonne) Oct. 7, 16.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C)* WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	769	681	513	149	305	394	185	637	704	917	727	1040
2	768	681	501	152	305	407	215	603	718	922	780	852
3	801	685	501	193	316	425	257	531	705	970	824	1070
4	799	685	524	176	316	418	279	536	766	994	898	992
5	842	694	530	200	331	472	309	554	826	956	900	983
6	894	727	582	242	332	482	337	656	853	915	1020	1010
7	509	757	525	272	274	494	385	688	833	843	1010	1040
8	933	741	436	288	260	521	386	701	885	844	775	1060
9	946	768	416	---	267	511	381	707	914	924	625	1080
10	818	732	410	---	295	350	399	702	927	905	750	846
11	850	748	406	---	311	271	418	716	937	1020	850	628
12	887	506	405	---	320	274	461	698	950	1060	1000	627
13	937	143	379	385	329	383	475	661	961	1110	1030	732
14	973	201	384	---	268	309	502	674	896	1150	1020	739
15	1000	253	402	194	197	339	517	682	749	1150	650	772
16	1010	293	244	223	216	357	529	674	726	1160	790	884
17	822	307	161	257	245	338	547	633	775	1100	850	892
18	306	325	200	277	234	358	552	520	959	1110	800	793
19	322	349	256	---	200	342	574	474	1010	1080	950	774
20	396	348	296	368	239	338	563	414	852	1130	1030	867
21	465	381	331	365	240	187	563	441	713	1190	1040	871
22	504	361	354	394	262	139	588	487	661	1230	1040	872
23	546	427	424	404	277	194	542	536	653	1140	1040	844
24	580	467	425	414	311	241	536	550	702	1100	1050	872
25	628	488	435	397	381	273	561	590	855	1080	1330	888
26	637	496	383	356	338	285	598	611	902	1160	1380	911
27	662	512	257	294	347	305	604	630	666	919	1260	913
28	659	529	251	226	354	310	601	680	630	941	1280	340
29	672	520	264	226	374	348	599	725	801	1010	1320	351
30	680	512	291	251	---	339	630	719	828	1080	1190	268
31	720	---	304	278	---	325	---	712	---	1080	1040	---
MONTH	736	511	380	280	291	347	470	618	812	1040	976	827
YEAR	MAX	1380	MIN	139	MEAN	614						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	17.0		12.5	9.5	9.0	7.0	9.0	7.5	6.5	6.0	12.0	10.5
2	18.5	15.0		14.0	10.5	7.0	5.5	7.5	7.0	6.5	3.0	13.0	11.0
3	16.5	13.0		14.5	11.5	6.0	5.5	8.0	7.5	3.5	3.0	15.0	12.5
4	16.5			14.0	13.0	6.0	4.5	7.5	4.5	4.0	3.5	16.5	14.0
5	16.0	13.5		---	---	6.5	4.5	4.5	3.0	7.5	4.5	15.0	12.0
6	18.0	14.0		---	---	7.0	5.5	3.0	2.5	8.0	5.5	14.0	9.5
7	19.0	15.5		---	---	7.0	6.5	4.5	3.0	5.5	4.5	12.0	8.0
8	17.5	16.0		---	---	6.5	6.5	5.5	4.0	4.5	3.0	8.0	8.0
9	19.0	16.5		---	---	6.5	6.5	4.0	2.0	5.0	4.0	9.0	7.5
10	19.0	17.0		17.0	14.0	6.5	5.5	2.0	1.5	7.0	5.0	9.5	9.5
11	20.0	17.5		15.5	12.5	5.5	4.5	3.0	1.5	9.5	7.0	10.0	8.5
12	18.5	16.5		14.0	13.0	5.0	4.5	5.0	3.0	9.0	6.0	11.5	10.0
13	19.0	14.5		14.0	10.5	7.0	5.0	5.0	4.0	9.0	7.0	10.5	6.5
14	19.0	15.5		10.5	8.0	7.0	6.0	6.0	4.5	10.0	9.0	9.5	6.5
15	20.0	16.0		8.0	7.5	9.5	7.0	5.5	3.5	10.5	7.5	9.5	8.5
16	19.0	17.5		8.0	7.0	9.5	8.0	5.0	4.0	12.0	10.5	8.5	5.5
17	17.5	16.5		9.0	8.0	8.0	6.5	5.0	4.0	12.5	12.0	8.5	5.5
18	16.5	15.5		9.0	8.0	6.5	3.5	4.0	1.5	12.5	11.5	10.0	8.5
19	15.5	13.5		9.0	8.0	3.5	2.0	1.5	1.0	11.5	9.5	13.0	10.0
20	13.5	12.5		9.5	8.0	3.0	2.0	2.5	1.0	10.5	8.5	12.5	11.0
21	14.0	11.0		10.5	9.5	4.0	3.0	3.0	2.5	11.0	8.5	11.5	8.5
22	15.5	12.5		9.5	7.5	3.5	2.0	3.0	2.5	11.5	9.5	10.5	7.5
23	15.5	13.0		7.5	6.0	2.0	2.0	2.5	1.5	9.5	7.0	11.0	8.5
24	16.0	13.5		6.5	5.5	2.0	2.0	5.5	2.0	7.5	6.0	12.0	10.5
25	16.0	13.5		6.5	6.5	3.5	2.0	7.0	5.5	9.5	7.5	13.0	10.0
26	15.5	14.0		6.5	5.5	5.5	3.5	9.5	7.0	10.5	9.5	14.0	13.0
27	16.0	13.5		7.0	6.0	5.5	5.5	9.5	5.5	11.5	10.0	14.0	11.0
28	16.5	14.5		6.5	5.0	5.5	5.5	5.5	4.5	10.5	9.5	13.0	11.0
29	16.5	15.5		6.5	4.5	6.5	5.5	5.5	5.0	12.5	10.0	15.5	11.0
30	15.5	12.5		9.0	3.5	8.0	6.5	5.5	5.0	---	---	15.0	13.5
31	12.5	10.5		---	---	9.0	8.0	6.0	5.0	---	---	13.5	9.0
MONTH	20.0	10.5		17.0	4.5	9.5	2.0	9.5	1.0	12.5	3.0	16.5	5.5
	APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.0		17.5	15.0	24.5	21.0	26.5	21.0	25.5	23.0	22.5	18.5
2	9.5	8.5		19.0	15.0	23.0	21.0	26.5	20.0	25.0	21.0	21.5	19.5
3	12.5	8.5		18.0	15.5	21.5	20.0	23.5	21.0	26.5	19.0	24.5	19.5
4	12.0	9.0		18.5	13.5	25.5	18.5	21.5	19.0	28.0	19.5	25.0	19.0
5	11.5	10.0		19.5	13.0	25.5	18.5	24.0	19.0	26.0	20.5	26.0	21.0
6	12.5	9.5		19.5	16.5	26.0	18.5	22.5	20.0	25.5	21.5	25.5	19.0
7	13.5	10.5		19.5	17.0	26.5	18.5	23.0	20.0	23.0	21.5	25.5	17.5
8	14.0	11.5		19.5	15.0	26.5	19.5	24.0	20.0	21.5	20.0	27.0	20.0
9	13.0	9.5		21.0	14.5	27.5	20.5	27.0	21.5	23.0	19.0	27.5	20.5
10	13.0	9.0		22.0	15.0	28.0	20.5	27.5	21.5	26.0	19.5	24.5	20.0
11	12.0	9.0		21.0	18.0	27.0	21.5	30.5	23.0	28.0	20.0	21.5	16.5
12	11.5	7.0		23.0	17.0	29.0	22.0	30.0	24.5	28.5	21.0	23.0	15.5
13	13.5	8.5		24.0	16.0	28.5	23.5	29.0	22.0	27.0	22.5	24.5	17.0
14	15.5	10.0		24.0	20.0	27.5	23.0	29.5	21.0	23.5	18.0	22.0	18.5
15	17.0	12.5		23.0	21.0	28.5	23.0	31.0	23.0	23.5	20.5	20.5	18.5
16	19.5	14.5		22.5	20.0	28.0	23.5	26.5	24.0	24.0	22.0	18.5	18.0
17	22.0	16.0		22.0	19.0	29.5	23.5	27.5	21.5	26.0	20.0	19.5	17.5
18	23.5	18.0		20.5	16.0	28.5	22.5	27.0	20.5	27.0	20.0	21.0	18.0
19	23.5	18.5		17.0	13.0	25.5	23.5	28.0	20.5	27.5	20.0	23.0	18.5
20	23.5	18.5		21.0	15.0	23.5	21.5	28.0	22.0	28.0	20.0	21.0	18.5
21	22.5	19.5		21.5	17.0	21.5	20.0	30.0	23.0	27.0	20.0	23.0	18.0
22	22.5	19.0		24.5	19.5	25.0	19.5	28.5	24.0	29.5	22.0	21.0	16.0
23	21.5	17.5		23.0	19.0	25.0	21.5	32.0	24.5	28.5	22.5	20.5	14.0
24	22.5	17.5		22.5	18.0	24.0	22.0	32.0	25.0	29.5	23.0	20.5	16.0
25	21.5	18.5		21.0	18.0	24.5	22.0	29.5	24.0	29.0	23.0	22.5	17.0
26	18.5	14.5		22.0	16.5	25.0	22.0	30.0	21.5	29.0	23.5	20.0	17.5
27	14.5	12.0		23.5	17.0	28.0	22.0	30.0	23.0	25.5	23.0	14.5	18.0
28	15.5	10.0		21.5	18.5	28.0	22.5	30.5	24.5	25.5	22.5	18.0	17.0
29	17.5	11.0		23.5	18.5	28.5	23.0	28.5	24.0	27.0	23.0	18.0	15.5
30	19.0	12.5		22.5	19.5	26.0	23.0	27.0	24.5	26.0	19.5	17.5	15.0
31	---	---		24.5	20.0	---	---	27.0	24.0	25.0	18.0	---	---
MONTH	23.5	7.0		24.5	13.0	29.5	18.5	32.0	19.0	29.5	18.0	27.5	14.0
YEAR	32.0	1.0											

KANAWHA RIVER BASIN

03199000 LITTLE COAL RIVER AT DANVILLE, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	74	10	2.0	92	4	.99	143	11	4.2
2	84	13	2.9	89	3	.72	127	8	2.7
3	74	7	1.4	85	4	.92	125	8	2.7
4	64	2	.35	83	2	.45	119	6	1.9
5	61	1	.16	80	2	.43	117	11	3.5
6	59	1	.16	78	2	.42	125	16	5.4
7	56	1	.15	80	4	.86	213	20	12
8	61	4	.66	96	4	1.0	216	35	20
9	79	9	1.9	83	3	.67	225	20	12
10	64	11	1.9	85	4	.92	249	62	42
11	67	30	5.4	87	15	2.7	237	55	35
12	62	5	.84	1120	1050	3180	225	17	10
13	59	5	.80	1790	670	3240	213	14	8.1
14	54	4	.58	801	328	709	200	11	5.9
15	53	3	.43	532	253	363	237	125	80
16	56	1	.15	444	64	77	1410	564	2150
17	382	375	387	389	42	44	1070	135	390
18	564	541	824	358	33	32	650	148	260
19	303	100	82	309	60	50	472	116	148
20	210	24	14	276	162	121	393	70	74
21	160	9	3.9	276	182	136	340	21	19
22	134	10	3.6	234	200	126	250	16	11
23	115	7	2.2	203	20	11	220	28	17
24	100	7	1.9	186	10	5.0	200	18	9.7
25	92	9	2.2	172	13	6.0	190	49	25
26	104	10	2.8	160	15	6.5	528	143	204
27	111	8	2.4	155	29	12	568	86	132
28	94	4	1.0	140	18	6.8	512	55	76
29	87	5	1.2	125	3	1.0	444	27	32
30	102	7	1.9	125	5	1.7	432	57	66
31	94	10	2.5	---	---	---	544	73	107
TOTAL	3679	---	1352.38	8733	---	8138.08	10994	---	3966.1
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2490	639	4300	516	152	212	306	18	15
2	1430	290	1120	480	129	167	282	16	12
3	1280	285	985	450	62	75	261	18	13
4	1470	178	706	420	53	60	243	23	15
5	949	155	397	400	74	80	237	15	9.6
6	685	114	211	556	223	335	228	13	8.0
7	584	163	257	618	186	310	208	14	7.9
8	580	77	121	600	67	109	196	14	7.4
9	450	63	77	524	30	42	297	90	72
10	400	76	82	456	34	42	613	290	480
11	430	95	110	468	157	198	584	145	229
12	500	122	165	416	208	234	524	117	166
13	584	113	178	468	174	220	500	52	70
14	1150	611	1900	982	665	1760	432	25	29
15	982	282	748	955	225	580	382	34	35
16	751	158	320	740	148	296	389	100	105
17	609	70	115	713	193	372	396	80	86
18	450	45	55	1040	386	1080	358	35	34
19	390	248	261	1110	336	1010	368	35	35
20	350	140	132	883	191	455	375	24	24
21	330	122	109	703	152	289	2840	1650	12700
22	300	40	32	645	100	174	2030	480	2630
23	270	42	31	552	50	75	1050	530	1500
24	300	86	70	488	47	62	740	106	212
25	382	94	97	456	53	65	654	110	194
26	468	206	260	428	54	62	564	140	213
27	730	191	376	389	40	42	512	97	134
28	845	208	475	361	43	42	452	67	82
29	735	110	218	333	25	22	420	33	37
30	618	106	177	---	---	---	440	100	119
31	536	53	77	---	---	---	640	242	418
TOTAL	22028	---	14162	17150	---	8470	17521	---	19691.9

KANAWHA RIVER BASIN

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03199000 LITTLE COAL RIVER AT DANVILLE, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1460	350	1380	106	24	6.9	69	11	2.0
2	845	140	319	119	27	8.7	65	11	1.9
3	631	157	267	130	20	7.0	71	11	2.1
4	548	64	95	115	12	3.7	62	9	1.5
5	464	35	44	100	13	3.5	60	7	1.1
6	404	31	34	96	9	2.3	58	6	.94
7	358	27	26	96	13	3.4	54	6	.87
8	312	45	38	96	13	3.4	52	6	.84
9	276	51	38	87	11	2.6	52	6	.84
10	249	21	14	82	10	2.2	51	5	.69
11	243	18	12	80	10	2.2	49	5	.66
12	231	14	8.7	87	8	1.9	45	4	.49
13	203	12	6.6	74	9	1.8	44	6	.71
14	191	11	5.7	69	12	2.2	102	17	4.7
15	184	9	4.5	73	42	8.3	51	6	.83
16	174	9	4.2	89	37	8.9	51	6	.83
17	160	6	2.6	100	35	9.5	51	5	.69
18	152	6	2.5	186	88	44	52	5	.70
19	143	6	2.3	264	95	68	71	12	2.3
20	138	6	2.2	174	35	16	155	42	18
21	134	7	2.5	138	23	8.6	111	30	9.0
22	132	6	2.1	117	19	6.0	134	30	11
23	121	6	2.0	104	18	5.1	94	31	7.9
24	113	5	1.5	92	14	3.5	73	10	2.0
25	113	6	1.8	85	13	3.0	69	19	3.5
26	127	10	3.4	82	21	4.6	130	22	7.7
27	113	13	4.0	78	18	3.8	104	32	9.0
28	102	11	3.0	78	15	3.2	73	19	3.7
29	98	10	2.6	78	26	5.5	64	17	2.9
30	94	11	2.8	91	22	5.4	69	14	2.6
31	---	---	---	71	14	2.7	---	---	---
TOTAL	8513	---	2332.0	3237	---	257.9	2186	---	101.99
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	58	9	1.4	121	52	17	25	11	.74
2	52	5	.70	60	39	6.3	34	20	1.8
3	52	7	.98	39	19	2.0	55	19	2.8
4	80	16	3.5	39	11	1.2	35	10	.94
5	65	7	1.2	35	5	.47	31	11	.92
6	74	10	2.0	40	13	1.4	29	11	.86
7	76	15	3.1	186	159	80	27	10	.73
8	64	14	2.4	85	70	16	23	8	.50
9	73	26	5.1	49	40	5.3	23	12	.75
10	57	16	2.5	41	22	2.4	181	61	30
11	51	10	1.4	44	23	2.7	67	47	8.5
12	45	10	1.2	39	19	2.0	38	28	2.9
13	41	9	1.0	39	17	1.8	30	29	2.3
14	35	8	.76	87	128	30	25	24	1.6
15	33	5	.45	100	170	46	32	20	1.7
16	38	6	.62	85	43	9.9	52	24	3.4
17	40	8	.86	51	23	3.2	37	16	1.6
18	43	7	.81	43	13	1.5	35	21	2.0
19	41	7	.77	37	9	.90	38	14	1.4
20	38	5	.51	31	9	.75	32	12	1.0
21	35	5	.47	27	7	.51	34	11	1.0
22	35	7	.66	28	5	.38	31	8	.67
23	33	7	.62	28	5	.38	28	6	.45
24	31	6	.50	28	7	.53	24	7	.45
25	54	13	1.9	29	9	.70	26	8	.56
26	37	9	.90	30	10	.81	29	12	.94
27	29	6	.47	28	10	.76	213	173	99
28	26	5	.35	33	12	1.1	428	216	250
29	26	4	.28	57	20	3.1	148	145	58
30	43	17	2.0	35	12	1.1	878	358	849
31	111	50	15	26	9	.63	---	---	---
TOTAL	1516	---	54.41	1600	---	240.82	2688	---	1326.51
YEAR	99845.0		60094.09						

KANAWHA RIVER BASIN

03199400 LITTLE COAL RIVER AT JULIAN, WV

LOCATION.--Lat 38°09'17" (corrected), long 81°51'10", Boone County, Hydrologic Unit 05050009, on left bank on downstream side of highway bridge on State Route 3 at Julian, 5.6 mi (9.0 km) north of intersection of U.S. Highway 119 and State Route 3, and at mile 17.4 (28.0 km).

DRAINAGE AREA.--319 mi² (826 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 634.13 ft (193.283 m) above mean sea level. Prior to Apr. 21, 1976, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,360 ft³/s (208 m³/s) Apr. 25, 1975, gage height, 16.20 ft (4.938 m), from graph based on gage readings; minimum daily, 24 ft³/s (0.68 m³/s) Sept. 8, 9, 24, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,500 ft³/s (184 m³/s) Mar. 21, gage height, 15.00 ft (4.572 m), from graph based on gage readings, no other peak above base of 4,700 ft³/s (130 m³/s); minimum daily, 24 ft³/s (0.68 m³/s) Sept. 8, 9, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	111	170	3550	701	345	2790	118	82	60	123	25
2	88	98	184	2910	600	310	1540	141	79	55	84	37
3	79	88	170	2150	550	278	968	147	87	55	45	66
4	63	102	154	2320	500	258	768	145	76	85	40	44
5	63	89	150	1560	479	290	613	121	70	70	35	32
6	63	89	146	1070	627	253	482	115	67	80	50	31
7	63	89	265	888	840	206	426	112	60	85	172	28
8	65	89	323	792	832	206	376	112	54	67	117	24
9	71	93	320	673	708	340	293	104	53	75	61	24
10	79	89	323	480	592	908	249	96	50	63	43	235
11	68	106	308	515	603	860	261	88	48	54	39	118
12	63	2020	278	683	543	736	245	99	46	48	38	54
13	61	3180	258	800	613	690	213	87	45	44	47	35
14	56	1700	234	1480	1320	585	203	79	94	40	118	27
15	55	1190	240	1550	1540	479	199	79	54	33	176	27
16	56	732	1450	1200	1210	479	195	101	54	40	129	47
17	898	509	2120	880	1090	455	172	123	54	46	72	43
18	1340	449	1430	620	1530	419	160	326	70	50	53	37
19	828	371	708	500	1720	419	152	454	85	45	39	40
20	395	333	485	420	1380	515	142	255	139	40	32	33
21	220	333	389	370	1080	4880	150	195	128	38	28	35
22	176	295	270	330	948	3760	149	162	126	36	29	31
23	150	240	230	310	792	1880	136	142	107	34	29	28
24	130	204	210	340	627	1570	129	125	76	31	28	24
25	116	194	200	400	550	1200	125	110	70	55	29	28
26	130	176	780	540	500	860	142	104	115	43	31	31
27	136	164	968	1020	449	718	133	97	120	34	31	149
28	115	154	768	1310	419	592	115	93	76	30	35	615
29	120	150	648	1140	389	509	110	96	60	26	57	194
30	120	134	578	940	---	550	107	115	76	60	48	1250
31	115	---	718	753	---	1010	---	91	---	107	29	---
TOTAL	6058	13571	15475	32494	23732	26560	11743	4232	2321	1629	1887	3392
MEAN	195	452	499	1048	818	857	391	137	77.4	52.5	60.9	113
MAX	1340	3180	2120	3550	1720	4880	2790	454	139	107	176	1250
MIN	55	88	146	310	389	206	107	79	45	26	28	24
CFSM	.61	1.42	1.56	3.29	2.56	2.69	1.23	.43	.24	.16	.19	.35
IN.	.71	1.58	1.80	3.79	2.77	3.10	1.37	.49	.27	.19	.22	.40

CAL YR 1975 TOTAL 247109 MEAN 677 MAX 6050 MIN 50 CFSM 2.12 IN 28.82
WTR YR 1976 TOTAL 143094 MEAN 391 MAX 4880 MIN 24 CFSM 1.23 IN 16.69

KANAWHA RIVER BASIN

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03199400 LITTLE COAL RIVER AT JULIAN, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURES: February 1975 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,260 micromhos July 22, 1976; minimum daily, 120 micromhos Dec. 3, 1974, Feb. 12, Mar. 14, 30, 1975.

WATER TEMPERATURES: Maximum daily, 30.0°C Aug. 29, 1975, July 15, 24, 1976; minimum daily, -1.0°C Jan. 17, 22, 1976.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,020 mg/L Mar. 21, 1976; minimum daily mean, 0 mg/L Aug. 28, 29, Sept. 2-5, 9, 10, 1975.

SEDIMENT LOADS: Maximum daily, 13,400 tons (12,200 tonnes) Mar. 21, 1976; minimum daily, 0 ton (0 tonne) Aug. 28, 29, Sept. 2-5, 9, 10, 1975.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,260 micromhos July 22; minimum daily, 135 micromhos Jan. 1.

WATER TEMPERATURES: Maximum daily, 30.0°C July 15, 24; minimum daily, -1.0°C Jan. 17, 22.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,020 mg/L Mar. 21; minimum daily mean, 2 mg/L Oct. 8, Nov. 30, Sept. 24, 25.

SEDIMENT LOADS: Maximum daily, 13,400 tons (12,200 tonnes) Mar. 21; minimum daily, 0.13 ton (0.12 tonne) Sept. 24.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	703	592	448	135	270	---	157	578	678	983	749	980
2	723	613	---	163	271	354	194	559	654	990	761	800
3	761	622	427	---	275	373	231	463	708	1030	841	940
4	756	725	454	168	284	387	254	485	725	---	781	1000
5	787	616	465	189	301	416	289	499	773	1100	800	900
6	849	662	505	227	310	429	316	585	808	989	800	950
7	853	692	447	257	250	441	341	616	816	834	850	950
8	862	721	363	---	238	463	360	646	830	944	700	1000
9	890	694	404	282	246	429	376	649	893	1010	560	1000
10	852	650	360	314	270	280	---	664	878	1010	650	700
11	765	689	356	300	289	234	365	660	904	1110	630	560
12	832	370	363	264	289	242	420	657	920	1060	815	550
13	854	150	---	260	301	256	399	628	925	1150	820	630
14	912	---	353	---	212	286	448	---	908	1200	650	680
15	---	243	357	180	185	309	463	631	818	1220	350	650
16	942	273	175	210	204	316	466	678	719	1070	650	700
17	547	291	160	245	226	311	475	572	766	1080	---	800
18	273	293	---	276	203	318	483	348	915	1160	650	800
19	309	---	236	310	186	316	463	375	892	1090	720	730
20	374	327	273	335	197	312	455	367	796	1160	900	750
21	425	360	---	331	223	138	479	408	666	1200	---	760
22	460	345	328	354	243	149	444	---	684	1260	1000	800
23	504	---	357	366	256	183	437	489	790	1180	1020	800
24	525	---	---	378	273	225	439	522	789	1040	1030	790
25	566	456	406	369	294	250	435	564	885	1140	1030	810
26	572	476	272	330	298	262	436	589	977	1240	1030	770
27	602	466	220	267	306	276	555	617	801	1190	1030	703
28	592	486	227	213	315	283	569	647	716	---	1010	310
29	606	478	---	210	329	317	553	671	863	1080	1030	329
30	636	466	272	230	---	302	587	706	834	1030	1030	---
31	---	---	264	255	---	262	---	686	---	1190	1020	---
MONTH	667	491	340	265	260	304	410	571	811	1090	824	764
YEAR	MAX	1260	MIN	135	MEAN	571						

KANAWHA RIVER BASIN

03199400 LITTLE COAL RIVER AT JULIAN, WV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
UNCF-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	8.0	7.0	7.0	6.0	---	10.0	15.0	21.0	24.0	25.0	21.0
2	18.0	10.0	---	7.0	2.0	15.0	11.0	18.0	21.0	25.0	24.0	21.0
3	20.0	10.0	7.0	---	3.0	12.0	14.0	16.0	21.0	21.0	25.0	23.0
4	20.0	15.0	7.0	4.0	5.0	14.0	12.0	17.0	23.0	---	23.5	23.0
5	20.0	13.0	---	3.0	6.0	15.0	13.0	19.0	23.0	24.0	26.0	23.0
6	20.0	15.0	7.0	3.0	5.0	12.0	14.0	20.0	---	21.0	25.0	21.0
7	20.0	15.0	7.0	5.0	---	11.0	15.0	16.0	---	22.0	22.0	22.0
8	20.0	15.0	7.0	---	---	9.0	14.0	18.0	---	---	20.0	24.0
9	20.0	16.0	7.0	0.0	---	8.0	13.0	19.0	23.0	---	22.0	25.0
10	20.0	17.0	5.0	1.0	---	10.0	---	20.0	---	---	25.0	20.0
11	22.0	15.0	6.0	2.0	9.0	11.0	10.0	20.0	---	---	26.0	19.0
12	20.0	14.0	7.0	5.0	4.0	12.0	11.0	20.0	---	---	24.5	20.0
13	20.0	11.0	---	6.0	10.0	10.0	14.0	22.0	---	26.0	26.0	21.0
14	20.0	---	4.0	---	9.0	10.0	16.0	23.0	---	27.0	22.0	21.0
15	---	7.0	6.0	5.0	10.0	11.0	14.0	23.0	---	30.0	22.0	19.0
16	19.0	9.0	4.0	5.0	13.0	8.0	18.0	21.0	---	25.0	22.0	18.0
17	15.0	9.0	6.0	-1.0	12.0	6.0	23.0	20.0	---	25.0	---	19.0
18	17.0	6.0	---	2.0	11.0	10.0	24.0	15.0	---	24.0	25.0	20.0
19	---	---	2.0	2.0	10.0	12.0	24.0	17.0	---	27.0	26.0	21.0
20	8.0	11.0	4.0	3.0	10.0	15.0	24.0	20.0	---	27.0	25.0	20.0
21	10.0	10.0	---	4.0	10.0	12.0	22.0	20.0	---	25.0	---	19.0
22	10.0	8.0	0.0	-1.0	10.0	12.0	22.0	---	22.0	26.0	28.0	17.0
23	10.0	---	0.0	3.0	7.0	11.0	22.0	21.0	---	29.0	28.0	18.0
24	10.0	---	---	6.0	9.0	13.0	22.0	20.0	---	30.0	28.0	18.0
25	11.0	7.0	3.0	4.0	11.0	12.0	21.0	20.0	---	28.0	28.0	20.0
26	9.0	7.0	1.0	10.0	12.0	15.0	13.0	20.0	---	25.0	28.0	19.0
27	11.0	7.0	6.0	5.0	12.0	15.0	13.0	22.0	---	26.0	25.0	14.5
28	13.0	6.0	6.0	5.0	12.0	15.0	13.0	20.0	---	26.0	24.0	17.0
29	9.0	7.0	---	6.0	13.0	---	12.5	20.0	---	26.0	25.0	17.0
30	---	---	4.0	6.0	---	12.0	13.0	22.0	---	25.0	23.0	---
31	6.0	---	4.0	6.0	---	13.0	---	23.0	---	27.0	23.0	---
MONTH	15.5	10.5	---	4.5	9.0	12.0	16.5	19.5	---	---	24.5	20.0
YEAR	MAX	30.0	MIN	-1.0	MEAN	15.5						

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	76	17	3.5	111	5	1.5	170	8	3.7
2	88	16	3.8	98	3	.79	184	9	4.5
3	79	21	4.5	88	4	.95	170	9	4.1
4	63	13	2.2	102	6	1.7	154	7	2.9
5	63	4	.68	89	6	1.4	150	6	2.4
6	63	8	1.4	89	5	1.2	146	36	14
7	63	4	.68	89	8	1.9	265	74	56
8	65	2	.35	89	10	2.4	323	46	40
9	71	6	1.2	93	14	3.5	320	53	46
10	75	4	.85	89	8	1.9	323	58	51
11	68	5	.92	106	11	3.1	308	46	38
12	63	4	.68	2020	585	3190	278	26	20
13	61	5	.82	3180	600	5150	258	14	9.8
14	56	5	.76	1700	290	1330	234	17	11
15	55	4	.59	1190	116	373	240	20	13
16	56	6	.91	732	43	85	1450	462	1810
17	858	201	487	509	32	44	2120	304	1740
18	1340	314	1140	449	47	57	1430	154	595
19	828	113	253	371	83	83	708	134	256
20	355	42	45	333	214	192	485	60	79
21	220	14	8.3	333	147	132	389	27	28
22	176	9	4.3	295	139	111	270	17	12
23	150	8	3.2	240	121	78	230	17	11
24	130	7	2.5	204	64	35	210	17	9.6
25	116	10	3.1	194	30	16	200	31	17
26	130	9	3.2	176	14	6.7	780	280	590
27	136	23	8.4	164	15	6.6	968	123	321
28	115	14	4.3	154	15	6.2	768	54	112
29	120	9	2.9	150	5	2.0	648	55	96
30	120	11	3.6	134	2	.72	578	63	98
31	115	8	2.5	---	---	---	718	133	258
TOTAL	6058	---	1995.14	13571	---	10918.56	15475	---	6349.0

03199400 LITTLE COAL RIVER AT JULIAN, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3550	573	5490	701	70	132	345	35	33
2	2910	273	2160	600	70	113	310	52	44
3	2150	115	668	550	54	80	278	35	26
4	2320	120	752	500	38	51	258	27	19
5	1560	97	409	479	68	88	290	30	23
6	1070	84	243	627	206	349	253	35	24
7	888	65	156	840	297	674	206	31	17
8	792	58	124	832	127	485	206	23	13
9	673	63	114	708	54	103	340	67	62
10	480	89	115	592	45	72	908	454	1110
11	515	56	78	603	82	134	860	195	453
12	683	80	148	543	111	163	736	89	177
13	800	116	251	613	163	270	690	75	140
14	1480	236	943	1320	191	680	585	44	69
15	1550	127	531	1540	192	798	479	32	41
16	1200	128	415	1210	110	359	479	54	70
17	880	92	219	1090	185	544	455	68	84
18	620	55	92	1530	206	851	419	59	67
19	500	47	63	1720	244	1130	419	36	41
20	420	55	62	1380	175	652	515	107	149
21	370	97	97	1080	108	315	4880	1020	13400
22	330	67	60	948	95	243	3760	535	5430
23	310	43	36	792	73	156	1880	180	914
24	340	117	107	627	67	113	1570	123	521
25	400	114	123	550	87	129	1200	102	330
26	540	122	178	500	82	111	860	66	153
27	1020	355	978	449	68	82	718	61	118
28	1310	87	308	419	46	52	592	40	64
29	1140	64	197	389	34	36	509	32	44
30	940	63	160	---	---	---	550	70	104
31	753	67	136	---	---	---	1010	278	758
TOTAL	32494	---	15413	23732	---	8765	26560	---	24498
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2750	358	2700	118	14	4.5	82	6	1.5
2	1540	147	611	141	11	4.2	79	6	1.3
3	968	66	172	147	21	8.3	87	7	1.6
4	768	43	89	145	32	13	76	6	1.2
5	613	26	43	121	19	6.2	70	5	.94
6	482	18	23	115	19	5.9	67	7	1.3
7	426	35	40	112	10	3.0	60	5	.81
8	376	50	51	112	9	2.7	54	4	.58
9	293	36	28	104	6	1.7	53	6	.86
10	249	23	15	96	6	1.6	50	7	.94
11	261	23	16	88	6	1.4	48	7	.91
12	245	23	15	99	7	1.9	46	6	.75
13	213	17	9.8	87	8	1.9	45	5	.61
14	203	15	8.2	79	14	3.0	94	7	1.8
15	199	15	8.1	79	10	2.1	54	6	.87
16	195	35	18	101	14	3.8	54	6	.90
17	172	35	16	123	28	9.3	54	6	.87
18	160	15	6.5	326	139	130	70	3	.57
19	152	30	12	454	76	93	85	4	.92
20	142	25	9.6	255	44	30	139	40	17
21	150	11	4.5	195	32	17	128	40	14
22	149	10	4.0	162	16	7.0	126	29	10
23	136	9	3.3	142	8	3.1	107	22	6.4
24	129	8	2.8	125	7	2.4	76	5	1.0
25	125	8	2.7	110	6	1.8	70	7	1.3
26	142	11	4.2	104	7	2.0	115	35	11
27	133	9	3.2	97	6	1.6	120	29	9.4
28	115	9	2.8	93	5	1.3	76	7	1.4
29	110	7	2.1	96	17	4.4	60	5	.81
30	107	7	2.0	115	29	9.0	76	5	1.0
31	---	---	---	91	23	5.7	---	---	---
TOTAL	11743	---	3922.8	4232	---	382.8	2321	---	92.54

KANAWHA RIVER BASIN

03199400 LITTLE COAL RIVER AT JULIAN, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	60	18	2.9	123	45	15	25	9	.61
2	55	10	1.5	84	30	6.8	37	18	1.8
3	55	4	.59	45	7	.85	66	25	4.5
4	85	3	.69	40	7	.76	44	17	2.0
5	70	4	.76	35	8	.76	32	13	1.1
6	80	11	2.4	50	6	.81	31	11	.92
7	85	29	6.7	172	165	77	28	11	.83
8	67	8	1.4	117	70	22	24	10	.65
9	75	17	3.4	61	22	3.6	24	10	.65
10	63	38	6.5	43	17	2.0	235	79	50
11	54	13	1.9	39	16	1.7	118	112	36
12	48	8	1.0	38	11	1.1	54	36	5.2
13	44	6	.71	47	40	5.1	35	14	1.3
14	40	5	.54	118	125	40	27	8	.58
15	33	6	.53	176	145	69	27	10	.73
16	40	9	.97	129	86	30	47	20	2.5
17	46	10	1.2	72	15	2.9	43	8	.93
18	50	6	.81	53	8	1.1	37	9	.90
19	45	5	.61	39	7	.74	40	9	.97
20	40	5	.54	32	5	.43	33	6	.53
21	38	7	.72	28	5	.38	35	6	.57
22	36	9	.87	29	5	.39	31	7	.59
23	34	9	.83	29	5	.39	28	6	.45
24	31	10	.84	28	8	.60	24	2	.13
25	55	28	4.2	29	10	.78	28	2	.15
26	43	12	1.4	31	8	.67	31	7	.59
27	34	5	.46	31	6	.50	149	50	20
28	30	5	.41	35	13	1.2	615	196	325
29	26	6	.42	57	35	5.3	194	106	56
30	60	8	1.3	48	14	1.8	1250	322	1000
31	107	69	20	29	8	.63	---	---	---
TOTAL	1624	---	67.10	1887	---	294.29	3392	---	1516.18
YEAR 143094.0			74214.41						

KANAWHA RIVER BASIN

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03199700 COAL RIVER AT ALUM CREEK, WV

LOCATION.--Lat 38°17'11", long 81°48'25", Kanawha County, Hydrologic Unit 05050009, on downstream side of highway bridge on State Route 214 at Alum Creek, 1.1 mi (1.8 km) downstream from confluence of Big Coal and Little Coal Rivers, and at mile 17.5 (28.2 km).

DRAINAGE AREA.--835 mi² (2,163 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 590 ft (180 m), from topographic map. Prior to Mar. 19, 1976, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good above 500 ft³/s (14.2 m³/s) and fair below.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft³/s (453 m³/s) Mar. 30, 1975, gage height, 21.35 ft (6.507 m), from graph based on gage readings; minimum daily, 45 ft³/s (1.27 m³/s) Aug. 26, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,900 ft³/s (337 m³/s) Mar. 21, gage height, 17.89 ft (5.453 m), from graph based on gage readings, no peak above base of 15,000 ft³/s (420 m³/s); minimum daily, 45 ft³/s (1.27 m³/s) Aug. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	355	427	7410	1600	895	4180	288	240	158	208	65
2	208	343	448	6440	1400	806	3260	330	225	122	245	70
3	205	331	437	4500	1350	750	2310	372	270	102	178	112
4	190	325	421	5260	1330	690	1740	384	238	102	114	120
5	160	308	400	3740	1240	655	1380	333	185	120	95	87
6	140	273	430	2500	1450	630	1140	303	160	130	80	65
7	130	240	764	1890	1910	592	985	288	140	190	160	55
8	152	248	760	1850	1890	546	872	285	130	170	345	50
9	165	258	748	1400	1660	672	774	260	120	162	212	50
10	190	260	748	1100	1370	1480	702	242	110	155	145	228
11	188	273	740	1200	1240	2120	666	230	100	125	110	318
12	163	2000	732	1400	1240	1830	655	235	95	130	96	170
13	142	6000	680	1700	1200	1650	588	222	90	192	118	112
14	130	3140	623	3340	2710	1380	543	208	132	188	218	82
15	130	1850	760	3860	3170	1180	515	205	158	130	357	77
16	154	1340	2500	2820	2740	1140	484	230	135	112	375	102
17	675	1200	3800	2030	2420	1120	459	333	110	222	235	138
18	2240	1100	2370	1200	3240	1080	432	938	96	208	162	130
19	1250	965	1570	1000	4340	1070	414	1260	114	120	116	104
20	732	830	1250	1270	3700	1070	399	794	180	95	96	96
21	546	752	1060	1050	2680	7050	384	564	260	84	78	86
22	412	720	885	931	2220	8630	378	447	238	75	71	80
23	364	633	712	830	1870	4610	357	384	250	80	60	70
24	310	563	600	846	1550	2930	339	339	202	80	55	65
25	283	560	650	985	1390	2250	324	291	195	75	50	60
26	280	507	1800	1240	1280	1860	345	260	218	104	45	65
27	273	493	2310	2140	1160	1540	345	240	240	93	50	125
28	288	469	1910	2780	1060	1320	306	222	188	66	61	764
29	278	427	1560	2740	972	1140	279	225	140	50	77	596
30	310	397	1390	2220	---	1260	270	262	162	62	98	1650
31	361	---	1630	1750	---	1400	---	248	---	110	87	---
TOTAL	11254	27160	35115	73422	55382	55346	25825	11222	5121	3812	4397	5792
MEAN	363	905	1133	2368	1910	1785	861	362	171	123	142	193
MAX	2240	6000	3800	7410	4340	8630	4180	1260	270	222	375	1650
MIN	130	240	400	830	972	546	270	205	90	50	45	50
CFSM	.43	1.08	1.36	2.84	2.29	2.14	1.03	.43	.20	.15	.17	.23
IN.	.50	1.21	1.56	3.27	2.47	2.47	1.15	.50	.23	.17	.20	.26
CAL YR 1975 TOTAL	580022			1589	MAX 15300	MIN 85	CFSM 1.90	IN 25.84				
WTR YR 1976 TOTAL	313848			858	MAX 8630	MIN 45	CFSM 1.03	IN 13.98				

NOTE.--No gage-height record May 23 to Sept. 27.

KANAWHA RIVER BASIN

03199700 COAL RIVER AT ALUM CREEK, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURES: December 1974 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 884 micromhos Sept. 7, 1975; minimum daily, 110 micromhos Mar. 14, 1975.

WATER TEMPERATURES: Maximum daily, 30.0°C July 31 to Aug. 2, 1975; minimum daily, 0.0°C Jan. 15, 17, Dec. 22-24, 1975, Jan. 10-12, 18-22, 1976.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 980 mg/L Jan. 1, 1976; minimum daily mean, 1 mg/L Aug. 25, 26, 1975, Sept. 25, 1976.

SEDIMENT LOADS: Maximum daily, 28,500 tons (25,900 tonnes) Mar. 30, 1975; minimum daily, 0.16 ton (0.15 tonne) Sept. 25, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 800 micromhos Sept. 1; minimum daily, 111 micromhos Jan. 2.

WATER TEMPERATURES: Maximum daily, 29.0°C July 11, 12, 15, 21, 29, Aug. 22; minimum daily, 0.0°C Dec. 22-24, Jan. 10-12, 18-22.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 980 mg/L Jan. 1; minimum daily mean, 1 mg/L Sept. 25.

SEDIMENT LOADS: Maximum daily, 19,600 tons (17,800 tonnes) Jan. 1; minimum daily, 0.16 ton (0.15 tonne) Sept. 25.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C): WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	410	354	319	124	215	274	150	404	421	458	690	800
2	414	287	318	111	225	290	174	398	437	445	542	750
3	426	270	318	137	222	302	184	376	455	626	524	620
4	474	266	318	143	222	315	194	374	452	652	514	620
5	494	278	324	149	227	312	215	369	469	674	---	610
6	502	307	331	160	236	327	227	374	496	672	---	670
7	522	337	292	178	227	331	246	375	510	639	531	730
8	481	350	286	224	198	341	260	386	514	575	489	700
9	504	345	265	209	149	339	271	399	555	577	476	720
10	477	373	261	221	212	287	275	409	561	663	492	580
11	453	384	273	224	221	207	283	416	589	678	500	460
12	482	345	269	227	254	194	295	425	604	630	553	470
13	490	164	266	218	290	202	312	451	594	545	505	500
14	505	135	256	205	207	213	319	451	541	587	548	530
15	507	179	264	166	172	222	329	451	525	552	430	520
16	307	158	231	173	171	233	333	467	555	516	400	560
17	353	211	147	189	187	246	341	432	597	420	430	530
18	303	220	172	210	193	245	353	242	565	517	490	570
19	233	218	172	235	158	248	353	247	541	522	490	620
20	240	229	202	288	156	247	371	283	537	546	520	610
21	260	238	213	272	176	152	375	273	502	673	550	610
22	265	258	227	302	199	174	350	273	469	713	580	610
23	247	271	233	273	212	152	360	290	463	730	630	620
24	324	280	260	284	262	184	350	319	459	727	680	536
25	338	284	278	293	245	200	352	334	354	652	690	592
26	350	298	194	281	251	215	354	360	464	633	750	566
27	366	312	189	242	251	224	354	379	504	716	780	470
28	370	319	179	174	263	235	368	389	511	769	770	491
29	380	321	182	171	274	249	406	404	495	773	780	342
30	385	322	193	179	---	249	403	422	469	785	700	243
31	370	---	206	196	---	237	---	410	---	680	750	---
MONTH	397	279	247	209	219	245	305	373	507	627	579	574
YEAR	MAX	800	MIN	111	MEAN	379						

KANAWHA RIVER BASIN

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03199700 COAL RIVER AT ALUM CREEK, WV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	12.0	2.0	7.0	5.0	12.0	10.0	15.0	23.0	25.0	25.0	19.0
2	14.5	13.0	5.0	7.0	5.0	12.0	10.0	15.0	20.0	25.0	24.0	22.0
3	15.0	13.0	5.0	6.0	1.0	12.0	12.0	16.0	20.0	21.0	25.0	20.0
4	15.0	14.0	5.0	4.0	2.0	16.0	12.0	16.0	23.0	23.0	21.5	23.0
5	15.0	12.0	4.0	4.0	5.0	15.0	12.0	12.0	24.0	23.0	---	25.0
6	17.0	15.0	4.0	2.0	---	11.0	12.0	19.0	22.0	24.0	---	25.0
7	18.0	15.0	6.0	3.0	1.0	11.0	13.0	16.0	24.0	23.0	23.0	22.0
8	17.0	15.0	5.0	5.0	2.0	9.0	13.0	16.0	24.0	23.0	21.0	22.0
9	19.0	15.0	5.0	2.0	4.0	---	12.0	16.0	23.0	21.0	20.0	23.0
10	15.0	16.0	5.0	0.0	5.0	7.0	13.0	20.0	26.0	25.0	23.5	21.0
11	21.0	11.0	4.0	0.0	5.0	9.0	10.0	19.0	26.0	29.0	20.0	19.0
12	21.0	14.0	4.0	0.0	6.0	10.0	10.0	16.0	26.0	29.0	22.0	21.0
13	23.0	11.0	6.0	5.0	6.0	8.0	12.0	21.0	27.0	27.0	26.0	20.0
14	19.0	9.0	---	4.0	9.0	9.0	13.0	21.0	27.0	22.0	22.0	20.0
15	19.0	9.0	7.0	4.0	9.0	9.0	15.0	20.0	25.0	29.0	23.0	19.0
16	19.0	9.0	9.0	4.0	10.0	5.0	12.0	20.0	25.0	25.0	23.0	18.0
17	16.0	5.0	6.0	4.0	11.0	5.0	20.0	20.0	28.0	22.0	24.0	19.0
18	15.0	5.0	4.0	0.0	11.0	8.0	22.0	15.0	29.0	24.0	22.0	20.0
19	13.0	6.0	2.0	0.0	9.0	10.0	22.0	15.0	24.0	26.0	23.0	22.0
20	12.0	6.0	2.0	0.0	9.0	13.0	19.0	18.0	23.0	26.0	26.0	20.0
21	14.0	8.0	2.0	0.0	10.0	12.0	20.0	19.0	22.0	24.0	25.0	20.0
22	14.0	8.0	0.0	0.0	9.0	9.0	20.0	17.0	23.5	26.0	24.0	15.0
23	15.0	8.0	0.0	2.0	6.0	10.0	21.0	20.0	24.0	26.0	27.0	20.0
24	15.0	6.0	0.0	5.0	7.5	10.0	20.0	20.0	24.0	26.0	27.0	20.0
25	15.0	5.0	2.0	5.0	8.0	12.0	20.0	20.0	22.0	25.0	23.0	20.0
26	14.0	5.0	4.0	5.0	10.0	13.0	15.0	19.0	26.0	27.0	26.0	19.0
27	15.0	6.0	4.0	5.0	9.5	12.0	14.0	20.0	25.0	25.0	26.0	18.5
28	---	5.0	5.0	4.0	10.0	13.0	10.0	19.0	27.0	27.0	25.0	17.0
29	14.0	6.0	5.0	4.0	11.0	12.0	12.5	22.0	25.0	24.0	24.0	15.0
30	12.0	8.0	7.0	4.0	---	15.0	17.0	22.0	24.0	28.0	22.0	15.0
31	12.0	---	8.0	5.0	---	12.0	---	21.0	---	27.0	22.0	---
MONTH	16.0	9.5	4.0	3.0	7.0	10.5	15.0	18.0	24.5	25.5	24.0	20.0
YEAR	MAX	24.0	MIN	0.0	MEAN	15.0						

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	205	20	11	355	15	14	427	11	13
2	208	17	9.5	343	9	8.3	448	8	9.7
3	205	12	6.6	331	5	4.5	437	6	7.1
4	190	10	5.1	325	11	9.7	421	9	10
5	160	8	3.5	308	10	8.3	400	3	3.2
6	140	5	1.9	273	7	5.2	430	3	3.5
7	130	3	1.1	240	6	3.9	764	18	37
8	152	8	3.3	248	5	3.3	760	22	45
9	165	10	4.5	258	6	4.2	748	23	46
10	190	7	3.6	260	5	3.5	748	18	36
11	188	3	1.5	273	5	3.7	740	23	46
12	163	7	3.1	2000	200	1080	732	12	24
13	142	9	3.5	6000	850	13800	680	4	7.3
14	130	7	2.5	3140	390	3310	623	7	12
15	130	5	1.8	1850	157	784	760	31	64
16	154	23	9.6	1340	101	365	2500	300	2020
17	675	155	282	1200	53	172	3800	350	3590
18	2240	370	2240	1100	52	154	2370	204	1310
19	1250	149	503	965	37	96	1570	67	284
20	732	66	130	830	26	58	1250	42	142
21	546	35	52	752	24	49	1060	29	83
22	412	18	29	720	32	62	885	29	69
23	364	16	16	633	19	32	712	26	50
24	310	13	11	563	11	17	600	7	11
25	283	12	9.2	560	11	17	650	13	23
26	280	11	8.3	507	10	14	1800	199	967
27	273	8	5.9	493	14	19	2310	153	954
28	285	3	2.3	469	15	19	1910	100	516
29	270	5	3.8	427	12	14	1560	57	240
30	310	9	7.5	397	11	12	1390	66	248
31	361	13	13	---	---	---	1630	142	625
TOTAL	11254	---	3376.1	27160	---	20142.6	35115	---	11495.4

KANAWHA RIVER BASIN

03199700 COAL RIVER AT ALUM CREEK, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

JANUARY									
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7410	980	19600	1600	70	302	895	21	51
2	6440	113	1960	1400	74	280	806	22	48
3	4500	121	1470	1350	58	211	750	35	71
4	5260	117	1660	1330	36	129	690	23	43
5	3740	35	353	1240	46	154	655	17	30
6	2500	84	567	1450	100	391	630	22	37
7	1890	67	342	1910	195	1010	592	15	24
8	1850	57	285	1890	82	418	546	10	15
9	1400	44	166	1660	45	202	672	44	80
10	1100	27	80	1370	45	166	1480	315	1260
11	1200	29	94	1240	43	144	2120	142	813
12	1400	55	208	1240	178	596	1830	65	321
13	1700	87	399	1200	190	616	1650	55	245
14	3340	323	2910	2710	246	1800	1380	43	160
15	3860	196	2040	3170	112	959	1180	26	83
16	2820	86	655	2740	65	481	1140	32	98
17	2030	55	301	2420	73	477	1120	73	221
18	1200	20	65	3240	244	2130	1080	54	157
19	1000	20	54	4340	279	3270	1070	41	118
20	1270	47	161	3700	140	1400	1070	71	205
21	1050	36	102	2680	93	673	7050	630	12000
22	931	38	96	2220	58	348	8630	643	15000
23	830	32	72	1870	92	465	4610	210	2610
24	846	32	73	1550	63	264	2930	167	1320
25	985	69	184	1390	35	131	2250	113	686
26	1240	123	412	1280	27	93	1860	98	492
27	2140	238	1380	1160	27	85	1540	93	387
28	2780	233	1750	1060	38	109	1320	60	214
29	2740	124	917	972	27	71	1140	52	160
30	2220	95	569	---	---	---	1260	67	228
31	1750	96	454	---	---	---	1400	104	444
TOTAL	73422	---	39379	55382	---	17375	55346	---	37621
APRIL									
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4180	230	2600	288	8	6.2	240	11	7.1
2	3260	120	1060	330	10	8.9	225	7	4.3
3	2310	90	561	372	44	44	270	6	4.4
4	1740	75	352	384	15	16	238	5	3.2
5	1380	64	238	333	4	3.6	185	8	4.0
6	1140	44	135	303	5	4.1	160	8	3.5
7	985	37	98	288	4	3.1	140	8	3.0
8	872	31	73	285	4	3.1	130	11	3.9
9	774	24	50	260	4	2.8	120	6	1.9
10	702	16	30	242	4	2.6	110	6	1.8
11	666	11	20	230	4	2.5	100	6	1.6
12	655	12	21	235	3	1.9	95	5	1.3
13	588	8	13	222	4	2.4	90	4	1.97
14	543	6	8.8	208	2	1.1	132	6	2.1
15	515	7	9.7	205	2	1.1	158	23	9.8
16	484	6	7.8	230	7	4.3	135	15	5.5
17	459	6	7.4	333	6	5.4	110	5	1.5
18	432	5	5.8	938	170	430	96	3	1.78
19	414	5	5.6	1260	75	255	114	6	1.8
20	399	5	5.4	794	40	86	180	8	3.9
21	384	6	6.2	564	13	20	260	21	15
22	378	6	6.1	447	9	11	238	16	10
23	357	7	6.7	384	7	7.3	250	18	12
24	339	6	5.5	339	5	4.6	202	13	7.1
25	324	6	5.2	291	5	3.9	195	18	9.5
26	345	6	5.6	260	4	2.8	218	28	16
27	345	4	3.7	240	5	3.2	240	31	20
28	306	2	1.7	222	4	2.4	188	24	12
29	279	3	2.3	225	5	3.0	140	11	4.2
30	270	7	5.1	262	12	8.5	162	13	5.7
31	---	---	---	248	13	8.7	---	---	---
TOTAL	25825	---	5349.6	11222	---	959.5	5121	---	177.85

KANAWHA RIVER BASIN

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03199700 COAL RIVER AT ALUM CREEK, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	158	10	4.3	208	94	53	65	5	.88
2	122	3	.99	245	103	68	70	6	1.1
3	102	3	.83	178	32	15	112	8	2.4
4	102	2	.55	114	29	8.9	120	8	2.6
5	120	4	1.3	95	10	2.6	87	7	1.6
6	130	3	1.1	80	17	3.7	65	2	.35
7	190	17	8.7	160	58	25	55	5	.74
8	170	14	6.4	345	94	88	50	10	1.4
9	162	7	3.1	212	101	58	50	11	1.5
10	155	3	1.3	145	16	6.3	228	57	35
11	125	2	.68	110	12	3.6	318	70	60
12	130	12	4.2	96	10	2.6	170	54	25
13	192	42	22	118	60	19	112	22	6.7
14	188	17	8.6	218	98	58	82	9	2.0
15	130	10	3.5	357	170	116	77	18	3.7
16	112	64	19	375	116	118	102	22	6.1
17	222	85	51	235	71	45	138	21	7.8
18	208	41	23	162	37	16	130	19	6.7
19	120	20	6.5	116	12	3.8	104	11	3.1
20	95	120	31	96	7	1.8	96	4	1.0
21	84	56	13	78	5	1.1	86	8	1.9
22	75	4	.81	71	4	.77	80	7	1.5
23	80	2	.43	60	4	.65	70	3	.57
24	80	10	2.2	55	2	.30	65	2	.35
25	75	13	2.6	50	3	.41	60	1	.16
26	104	6	1.7	45	3	.36	65	5	.88
27	93	2	.50	50	4	.54	125	115	39
28	66	4	.71	61	6	.99	764	184	380
29	50	7	.94	77	8	1.7	596	187	301
30	62	3	.50	98	22	5.8	1650	448	2000
31	110	12	3.6	87	10	2.3	---	---	---
TOTAL	3812	---	225.04	4397	---	727.22	5792	---	2895.03
YEAR	313848.0		139723.7						

03200500 COAL RIVER AT TORNADO, WV

LOCATION.--Lat 38°20'20", long 81°50'30", Kanawha County, Hydrologic Unit 05050009, 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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1908 to September 1911, October 1911 to June 1912 (gage heights only), 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.

REMARKS.--Water-discharge records good. Rainfall records collected at site since February 1973 are contained in files of U.S. Geological Survey with only monthly totals published in this report. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--20 years (water years, 1909-11, 1930-31, 1962-76), 1,240 ft³/s (35.12 m³/s), 19.56 in/yr (497 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft³/s (295 m³/s) Mar. 21, gage height, 15.71 ft (4.788 m), no peak above base of 16,000 ft³/s (450 m³/s); minimum, 42 ft³/s (1.19 m³/s) Sept. 9, gage height, 10.28 ft (3.133 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	342	415	6610	1690	972	3530	266	224	158	283	58
2	185	333	432	5710	1600	886	3060	333	207	118	283	69
3	183	324	404	4070	1500	818	2250	361	239	100	194	122
4	160	321	380	4550	1400	752	1830	395	205	93	115	144
5	138	294	361	3540	1310	696	1530	329	171	123	87	99
6	131	277	416	2470	1680	678	1290	294	149	125	75	80
7	124	214	805	1930	2010	620	1110	283	132	198	111	64
8	128	224	802	1800	2010	576	970	275	118	178	397	51
9	149	250	772	1500	1770	709	848	258	112	157	229	47
10	178	249	779	1200	1470	1740	756	238	101	154	150	213
11	174	246	755	1200	1360	2110	693	221	93	123	111	369
12	169	1630	706	1400	1390	1920	677	219	90	125	100	185
13	144	5640	664	1810	1340	1780	609	218	87	232	130	119
14	132	3050	620	3100	2470	1540	561	199	124	186	215	89
15	127	1830	642	3740	3100	1300	529	186	176	121	369	81
16	130	1340	2450	2760	2640	1210	499	216	119	119	426	121
17	714	1190	3520	2180	2390	1310	479	338	101	218	264	155
18	2110	1090	2350	1500	3090	1170	445	1060	91	145	171	137
19	1210	946	1580	1000	3880	1140	414	1470	118	113	128	113
20	769	808	1200	1200	3520	1170	394	957	173	93	98	104
21	559	741	1020	1100	2620	5780	382	657	302	81	80	93
22	437	708	861	950	2240	7420	373	509	241	70	67	88
23	362	607	600	894	2010	4040	367	411	285	76	59	83
24	310	539	550	931	1710	2720	338	346	191	78	55	70
25	266	501	600	1080	1550	2140	316	301	174	67	50	60
26	256	467	2200	1370	1430	1890	335	267	235	87	45	63
27	282	438	2280	2130	1310	1600	335	240	255	97	46	145
28	274	425	1930	3030	1180	1410	300	210	186	63	55	818
29	254	380	1570	2730	1070	1230	273	228	146	49	76	705
30	273	352	1380	2230	----	1320	259	261	189	51	105	1410
31	365	---	1610	1850	----	1470	----	250	---	82	87	---
TOTAL	10879	25756	34654	71565	56740	54117	25752	11796	5034	3680	4661	5955
MEAN	351	859	1118	2309	1957	1746	858	381	168	119	150	199
MAX	2110	5640	3520	6610	3880	7420	3530	1470	302	232	426	1410
MIN	124	214	361	894	1070	576	259	186	87	49	45	47
CFSM	.41	1.00	1.30	2.68	2.27	2.03	1.00	.44	.20	.14	.17	.23
IN.†	.47	1.11	1.50	3.09	2.45	2.34	1.11	.51	.22	.16	.20	.26
IN.‡	3.18	2.55	4.07	3.02	2.05	3.86	---	3.69	2.96	3.51	2.60	4.93

CAL YR 1975 TOTAL 570112 MEAN 1562 MAX 14800 MIN 93 CFSM 1.81 IN†24.63
WTR YR 1976 TOTAL 310589 MEAN 849 MAX 7420 MIN 45 CFSM .99 IN†13.42

† Runoff.

‡ Rainfall.

KANAWHA RIVER BASIN

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03200500 COAL RIVER AT TORNADO, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1973 to current year.

SUSPENDED-SEDIMENT DISCHARGE: December 1972 to current year.

INSTRUMENTATION.--Temperature recorder since Nov. 13, 1973:

REMARKS.--Temperature recorder did not operate for the year. Temperature record published is once-daily readings.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,020 micromhos Oct. 23, 24, 1973; minimum daily, 101 micromhos Jan. 11, 1974.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 4,000 mg/L Mar. 17, 1973; minimum daily mean, 1 mg/L on several days during 1974.

SEDIMENT LOADS: Maximum daily, 106,000 tons (96,200 tonnes) Jan. 11, 1974; minimum daily, 0.99 ton (0.90 tonnes) Sept. 3, 1973.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 874 micromhos Sept. 1; minimum daily, 123 micromhos Jan. 2.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,030 mg/L Nov. 13; minimum daily mean, 2 mg/L Nov. 26.

SEDIMENT LOADS: Maximum daily, 18,000 tons (16,300 tonnes) Jan. 1; minimum daily, 1.2 tons (1.1 tonnes) Aug. 24-26.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	394	424	343	162	203	278	201	423	472	585	---	874
2	417	390	344	123	216	289	---	420	480	626	---	805
3	438	371	336	136	219	296	184	423	459	651	688	832
4	479	354	332	148	220	306	192	408	496	667	610	831
5	492	342	340	149	224	312	212	382	490	709	563	803
6	522	345	344	165	215	330	224	390	518	748	566	768
7	527	355	265	189	231	341	238	346	520	797	570	699
8	533	389	297	200	198	344	252	397	521	729	641	683
9	544	413	273	221	194	352	266	420	545	782	657	704
10	558	421	267	---	207	304	276	440	572	662	605	736
11	593	433	300	234	225	222	281	444	567	726	555	615
12	568	205	282	230	251	196	296	452	575	758	549	440
13	601	137	279	211	250	199	304	462	577	759	554	570
14	599	139	287	188	215	204	338	469	596	664	510	560
15	587	177	283	148	183	216	341	514	635	701	572	550
16	587	195	235	184	174	231	345	500	681	697	580	550
17	591	221	163	176	179	246	353	494	645	645	414	530
18	356	230	156	197	188	249	357	409	648	636	486	580
19	243	239	172	221	171	253	370	220	661	700	520	540
20	237	251	199	262	165	252	370	286	608	690	532	560
21	263	254	222	264	178	---	381	277	638	680	539	600
22	269	272	239	273	194	---	385	282	623	698	549	640
23	308	281	250	278	217	148	385	309	635	---	553	640
24	332	291	272	291	252	179	397	319	647	702	557	630
25	351	312	287	287	224	---	392	349	634	715	544	630
26	368	328	204	251	234	---	385	365	642	745	549	630
27	383	344	193	193	241	216	393	385	624	734	582	616
28	408	353	189	166	249	227	394	409	657	734	569	537
29	424	349	187	173	263	---	424	428	751	774	616	339
30	424	356	196	193	---	247	430	418	693	788	796	302
31	398	---	208	---	---	---	---	469	---	---	856	---
MONTH	446	306	256	204	213	257	323	398	594	707	582	626
YEAR	MAX	874	MIN	123	MEAN	411						

KANAWHA RIVER BASIN

03200500 COAL RIVER AT TORNADO, WV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---				---	25.0	---	23.0
2					---				---	23.0	---	22.0
3					---				---	23.0	23.5	22.0
4					---				---	23.0	23.0	22.0
5					---				---	23.0	23.0	22.0
6					---				---	22.0	23.0	22.0
7					---				---	21.0	23.0	22.0
8					---				---	23.0	22.0	23.0
9					---				---	22.0	21.0	22.0
10					---				---	24.0	21.0	22.0
11					---				---	25.0	23.0	22.0
12					---				---	25.0	24.0	22.0
13					---				---	26.0	25.0	20.0
14					---				---	26.0	24.0	20.0
15					---				---	26.0	23.0	19.0
16					---				---	25.0	23.0	19.0
17					---				---	24.0	23.0	20.0
18					---				---	24.0	23.0	19.0
19					---				---	24.0	23.0	19.0
20					---				---	24.0	23.0	19.0
21					---				---	24.0	24.0	20.0
22					---				24.0	24.0	24.0	19.0
23					---				---	---	24.0	19.0
24					5.5				---	25.0	24.0	18.0
25					---				---	24.0	24.0	18.0
26					---				24.0	25.0	24.0	18.0
27					---				25.0	25.0	24.0	19.0
28					---				26.0	25.0	24.0	18.0
29					---				25.0	26.0	23.0	18.0
30					---				25.0	26.0	24.0	15.0
31					---				---	24.0	24.0	---
MONTH					---				---	24.0	23.5	20.0

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	180	27	14	342	11	10	415	7	7.8
2	185	31	15	333	12	11	432	11	13
3	183	27	13	324	15	13	404	9	9.8
4	160	23	9.9	321	15	13	380	6	6.2
5	138	24	8.9	294	15	12	361	5	4.9
6	131	20	7.1	277	11	8.2	416	10	11
7	124	19	6.4	214	12	6.9	805	30	65
8	128	21	7.3	224	13	7.9	802	20	43
9	149	21	8.4	250	13	8.8	772	15	31
10	178	20	9.6	249	12	8.1	779	10	21
11	174	19	8.9	246	15	10	755	9	18
12	169	17	7.8	1630	215	1680	706	8	15
13	144	14	5.4	5640	1030	15700	664	7	13
14	132	12	4.3	3050	350	2880	620	7	12
15	127	15	5.1	1830	100	494	642	34	59
16	130	14	4.9	1340	40	145	2450	350	2320
17	714	192	370	1190	19	61	3520	499	4740
18	2110	400	2280	1090	11	32	2350	125	793
19	1210	117	382	946	9	23	1580	50	213
20	769	42	87	808	7	15	1200	30	97
21	559	22	33	741	7	14	1020	17	47
22	437	16	19	708	8	15	861	8	19
23	362	16	16	607	7	11	600	5	8.1
24	310	17	14	539	6	8.7	550	3	4.5
25	266	13	9.3	501	3	4.1	600	50	81
26	256	11	7.6	467	2	2.5	2200	309	1840
27	282	12	9.1	438	5	5.9	2280	90	554
28	274	12	8.9	425	3	3.4	1930	33	172
29	254	15	10	380	3	3.1	1570	14	59
30	273	16	12	352	4	3.8	1380	10	37
31	365	13	13	---	---	---	1610	75	326
TOTAL	10879	---	3406.9	25756	---	21210.4	34654	---	11640.3

KANAWHA RIVER BASIN

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03200500 COAL RIVER AT TORNADO, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6610	1010	18000	1690	32	146	972	10	26
2	5710	385	5940	1600	37	160	886	11	26
3	4070	215	2360	1500	31	126	818	12	27
4	4550	220	2700	1400	24	91	752	11	22
5	3540	84	803	1310	22	78	696	12	23
6	2470	117	780	1680	77	349	678	9	16
7	1930	62	323	2010	162	879	620	6	10
8	1800	45	219	2010	75	407	576	6	9.3
9	1500	41	166	1770	25	119	709	10	19
10	1200	77	249	1470	27	107	1740	165	775
11	1200	40	130	1360	35	129	2110	115	655
12	1400	30	113	1390	83	311	1920	47	244
13	1810	56	274	1340	55	199	1780	33	159
14	3100	184	1660	2470	257	1800	1540	22	91
15	3740	160	1620	3100	275	2300	1300	13	46
16	2760	70	522	2640	97	691	1210	13	42
17	2180	42	247	2390	77	497	1310	23	81
18	1500	25	101	3090	193	1700	1170	37	117
19	1000	22	59	3880	300	3140	1140	25	77
20	1200	40	130	3520	273	2590	1170	15	47
21	1100	27	80	2620	104	736	5780	851	13300
22	950	33	85	2240	79	478	7420	820	16400
23	894	30	72	2010	47	255	4040	412	4490
24	931	17	43	1710	32	148	2720	108	793
25	1080	25	73	1550	25	105	2140	44	254
26	1370	44	163	1430	25	97	1890	37	189
27	2130	117	673	1310	22	78	1600	33	143
28	3030	225	1840	1180	17	54	1410	25	95
29	2730	72	531	1070	13	38	1230	25	83
30	2230	40	241	---	---	---	1320	25	89
31	1850	30	150	---	---	---	1470	41	163
TOTAL	71565	---	40347	56740	---	17808	54117	---	38511.3
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3530	351	3350	266	10	7.2	224	12	7.3
2	3060	108	892	333	10	9.0	207	14	7.8
3	2250	102	620	361	9	8.8	239	16	10
4	1830	33	163	395	6	6.4	205	14	7.7
5	1530	18	74	329	6	5.3	171	13	6.0
6	1290	13	45	294	5	4.0	149	12	4.8
7	1110	13	39	283	7	5.3	132	13	4.6
8	970	19	50	275	7	5.2	118	11	3.5
9	848	10	23	258	5	3.5	112	10	3.0
10	756	6	12	238	5	3.2	101	8	2.2
11	693	5	9.4	221	6	3.6	93	25	6.3
12	677	6	11	219	6	3.5	90	14	3.4
13	609	4	6.6	218	10	5.9	87	6	1.4
14	561	5	7.6	199	11	5.9	124	7	2.3
15	529	6	8.6	186	9	4.5	176	19	9.0
16	499	5	6.7	216	11	6.4	119	6	1.9
17	479	6	7.8	338	27	25	101	7	1.9
18	445	15	18	1060	78	223	91	10	2.5
19	414	10	11	1470	87	345	118	8	2.5
20	394	5	5.3	957	27	70	173	8	3.7
21	382	6	6.2	657	11	20	302	20	16
22	373	5	5.0	509	10	14	241	16	10
23	367	4	4.0	411	11	12	285	17	13
24	338	4	3.7	346	15	14	191	19	9.8
25	316	4	3.4	301	16	13	174	18	8.5
26	335	4	3.6	267	15	11	235	16	10
27	335	4	3.6	240	14	9.1	255	20	14
28	300	4	3.2	210	13	7.4	186	13	6.5
29	273	4	2.9	228	23	14	146	11	4.3
30	259	4	2.8	261	44	31	189	12	6.1
31	---	---	---	250	20	13	---	---	---
TOTAL	25752	---	5398.4	11796	---	909.2	5034	---	190.0

KANAWHA RIVER BASIN

03200500 COAL RIVER AT TORNADO, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	158	16	6.8	283	100	76	58	13	2.0
2	118	16	5.1	283	72	55	69	12	2.2
3	100	13	3.5	194	21	11	122	12	4.0
4	93	10	2.5	115	17	5.3	144	17	6.6
5	123	7	2.3	87	15	3.5	99	18	4.8
6	125	8	2.7	75	53	11	80	25	5.4
7	198	10	5.3	111	121	36	64	41	7.1
8	178	23	11	397	132	141	51	27	3.7
9	157	14	5.9	229	72	45	47	32	4.1
10	154	15	6.2	150	42	17	213	80	46
11	123	17	5.6	111	18	5.4	369	50	50
12	125	58	20	100	13	3.5	185	56	28
13	232	54	34	130	42	15	119	32	10
14	186	45	23	215	86	50	89	15	3.6
15	121	38	12	369	85	85	81	17	3.7
16	119	37	12	426	86	99	121	15	4.9
17	218	25	15	264	39	28	155	16	6.7
18	145	19	7.4	171	27	12	137	15	5.5
19	113	18	5.5	128	17	5.9	113	15	4.6
20	93	20	5.0	98	15	4.0	104	14	3.9
21	81	25	5.5	80	14	3.0	93	12	3.0
22	70	18	3.4	67	10	1.8	88	11	2.6
23	76	15	3.1	59	8	1.3	83	12	2.7
24	78	17	3.6	55	8	1.2	70	13	2.5
25	61	26	4.7	50	9	1.2	60	12	1.9
26	87	58	14	45	10	1.2	63	13	2.2
27	97	47	12	46	12	1.5	145	22	8.6
28	63	60	10	55	20	3.0	818	150	331
29	49	75	9.9	76	20	4.1	705	116	221
30	51	25	3.4	105	16	4.5	1410	620	2360
31	82	23	5.1	87	15	3.5	---	---	---
TOTAL	3680	---	265.5	4661	---	734.9	5955	---	3142.3
YEAR	310589.0		143564.2						

KANAWHA RIVER BASIN

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03200650 KANAWHA RIVER AT POCA, WV

LOCATION.--Lat 38°28'29", long 81°49'09", Putnam County, Hydrologic Unit 05050008, on left bank at John Amos Power Plant, at Poca, 200 ft (61 m) upstream from Pocatalico River, and at mile 39.2 (63.1 km).

DRAINAGE AREA.--11,435 mi² (29,617 km²), excludes that of Pocatalico River.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1975 to September 1976.

COOPERATION.--Records were furnished by Appalachian Electric Power Company.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 32.5°C July 15; minimum daily, 5.0°C Jan. 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.5	21.0	13.5	10.0	20.5	23.5	20.0	22.5	29.5	26.5	27.0	22.0
2	25.0	27.0	16.0	17.0	11.5	22.5	20.0	22.0	---	27.0	26.5	28.5
3	19.0	25.0	20.0	22.0	17.0	27.0	19.5	20.5	28.5	25.5	23.5	26.5
4	20.0	24.5	19.0	15.5	19.0	25.0	24.0	19.0	27.0	25.5	24.0	26.5
5	24.5	28.5	17.5	11.0	16.5	29.0	14.5	19.0	24.0	24.5	30.0	26.5
6	25.5	24.5	21.5	10.5	14.5	14.5	17.0	26.5	22.5	26.0	30.0	26.5
7	25.5	26.5	18.5	20.0	9.0	15.5	17.0	29.0	22.5	26.0	30.0	21.5
8	27.5	24.5	20.0	10.0	12.5	15.5	18.5	19.5	25.0	29.0	26.5	26.5
9	24.5	21.0	22.0	5.0	12.0	16.5	19.5	20.5	25.5	---	26.5	27.0
10	25.5	29.5	20.0	10.0	19.0	---	17.0	20.0	29.0	24.5	29.5	25.5
11	29.0	18.5	17.5	15.5	14.5	---	26.0	21.0	27.5	24.0	25.5	21.0
12	20.0	27.0	16.5	15.5	13.5	---	15.5	20.0	30.0	31.0	27.5	24.0
13	21.5	19.0	20.0	12.5	16.5	---	19.0	23.5	29.5	27.0	29.5	26.5
14	26.0	16.5	16.5	17.5	19.5	14.0	22.0	29.0	29.5	27.5	28.5	26.0
15	27.0	14.0	24.5	11.0	20.0	15.5	24.0	20.5	28.5	32.5	29.0	28.5
16	26.0	19.0	17.0	19.0	27.5	20.0	25.5	27.5	29.5	29.0	27.5	26.5
17	26.0	17.0	14.0	17.5	25.0	17.5	20.0	23.5	28.5	29.5	24.0	27.5
18	24.0	22.0	12.0	11.5	23.5	15.0	---	---	26.5	22.0	25.5	27.5
19	19.5	16.0	10.5	6.0	19.5	24.5	27.5	22.0	30.5	24.0	25.5	25.5
20	17.0	15.5	17.5	20.0	19.0	22.5	24.5	24.5	28.5	29.5	25.5	27.5
21	20.5	21.0	16.5	17.5	22.5	20.5	27.5	25.5	25.0	29.0	26.0	24.0
22	22.5	18.5	12.5	14.0	19.0	20.0	24.0	22.0	26.5	---	31.0	19.5
23	21.0	14.0	11.5	10.5	17.5	15.5	25.5	22.0	27.0	32.0	30.5	25.5
24	20.5	14.5	9.0	22.0	17.0	21.0	24.0	22.5	31.5	31.0	29.5	20.5
25	24.0	17.5	9.5	16.0	18.5	22.5	26.0	23.5	31.0	26.0	30.5	21.5
26	20.5	14.5	19.5	24.0	15.5	24.0	21.0	22.0	29.5	25.0	30.5	19.5
27	22.5	14.5	16.5	15.5	21.0	27.0	19.5	---	31.0	---	30.0	29.5
28	24.0	10.5	16.0	10.5	21.0	14.5	18.5	26.5	27.5	29.5	29.0	27.5
29	25.5	14.5	20.0	17.0	20.5	23.5	18.5	26.5	32.0	31.0	27.5	27.5
30	18.5	25.5	21.0	17.5	---	25.0	19.5	25.0	29.0	29.5	29.5	25.0
31	17.0	---	22.0	19.5	---	25.0	---	26.5	---	28.5	25.5	---
MONTH	23.0	20.0	17.0	15.0	18.0	20.5	21.0	23.0	28.0	27.5	28.0	25.5
YEAR	MAX	32.5	MIN	5.0	MEAN	22.0						

KANAWHA RIVER BASIN

03201000 POCATALICO RIVER AT SISSONVILLE, WV

LOCATION.--Lat 38°31'35", long 81°37'50", Kanawha County, Hydrologic Unit 05050008, 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.

REVISED RECORDS.--WSP 1335: 1908-10, 1912-13, 1915-16.

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.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 6 to Nov. 5 and Dec. 26 to Jan. 30, which are poor.

AVERAGE DISCHARGE.--48 years, 295 ft³/s (8.354 m³/s), 16.83 in/yr (427 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s (100 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 1	---	Unknown	Unknown	Sept. 27	1500	*4060	115 17.41 5.307
Mar. 21	1730	3750 106	16.58 5.054				

Minimum discharge, 3.0 ft³/s (0.08 m³/s) June 16, gage height, 1.97 ft (0.600 m).

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	42	366	2500	536	102	1670	42	28	131	404	41
2	35	37	364	1800	775	91	952	80	40	54	170	112
3	38	32	219	1100	426	84	805	166	47	32	62	120
4	41	29	154	1900	340	80	508	229	44	23	36	72
5	33	28	117	900	273	76	352	139	33	19	26	45
6	28	28	106	550	710	73	259	96	27	16	21	34
7	24	28	632	300	695	67	210	131	21	14	66	30
8	21	27	552	650	422	59	168	182	17	13	146	25
9	26	28	320	450	338	113	135	124	14	11	70	19
10	33	36	268	300	254	790	113	90	11	9.6	40	31
11	33	41	236	350	263	937	103	74	9.6	8.3	29	34
12	31	623	190	800	346	700	99	64	8.7	1690	22	33
13	29	1700	152	600	282	504	87	54	8.3	460	21	23
14	26	544	124	2000	264	430	75	45	32	109	66	18
15	25	317	114	1100	222	317	70	42	20	51	358	15
16	22	210	398	600	210	266	65	47	9.6	308	400	18
17	300	146	454	300	331	243	60	54	9.6	2180	149	18
18	1500	106	281	200	1890	192	55	128	8.7	335	68	17
19	800	82	182	150	1200	173	51	304	8.3	121	41	15
20	400	68	139	300	526	162	47	184	138	62	30	14
21	250	66	127	270	358	2020	45	104	229	42	22	12
22	160	70	103	240	315	2840	54	72	93	68	18	12
23	90	67	75	180	266	715	54	54	44	580	15	13
24	70	54	65	190	208	414	49	43	31	600	12	15
25	58	49	60	250	181	326	42	36	35	194	10	13
26	48	45	2000	330	162	295	43	32	94	111	9.0	11
27	52	45	1400	900	144	250	45	28	58	55	37	2130
28	56	43	600	650	127	210	46	25	39	37	492	2520
29	50	44	450	550	113	173	39	23	26	29	1340	630
30	46	55	300	512	---	173	36	25	121	24	182	462
31	50	---	450	464	---	344	---	24	---	26	71	---
TOTAL	4405	4690	10998	21386	12177	13219	6337	2741	1304.8	7412.9	4433.0	6552
MEAN	142	156	355	690	420	426	211	88.4	43.5	239	143	218
MAX	1500	1700	2000	2500	1890	2840	1670	304	229	2180	1340	2520
MIN	21	27	60	150	113	59	36	23	8.3	8.3	9.0	11
CFSM	.60	.66	1.49	2.90	1.76	1.79	.89	.37	.18	1.00	.60	.92
IN.	.69	.73	1.72	3.34	1.90	2.07	.99	.43	.20	1.16	.69	1.02

CAL YR 1975 TOTAL 142099.0 MEAN 389 MAX 4150 MIN 1.6 CFSM 1.63 IN 22.21
WTR YR 1976 TOTAL 95655.7 MEAN 261 MAX 2840 MIN 8.3 CFSM 1.10 IN 14.95

KANAWHA RIVER BASIN

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03201300 KANAWHA RIVER AT WINFIELD DAM, AT WINFIELD, WV
(National stream-quality accounting network station)

LOCATION.--Lat 38°31'32", long 81°54'40", Putnam County, Hydrologic Unit 05050008, on left bank at intake line to Ohio River Valley Water Sanitation Commission (ORSANCO) monitor at Kanawha Valley Power Company raw water intake at Winfield Dam, 1.0 mi (1.6 km) downstream from Winfield Toll Bridge, and at mile 31.1 (50.0 km).

DRAINAGE AREA.--11,809 mi² (30,585 km²).

PERIOD OF RECORD.--Water years 1957-70, 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1956 to September 1970, January 1974 to current year.

pH: October 1974 to current year.

WATER TEMPERATURES: October 1956 to September 1970, January 1974 to current year.

DISSOLVED OXYGEN: October 1974 to current year.

REMARKS.--No discharge records available.

COOPERATION.--Records of specific conductance, pH, water temperatures, and dissolved oxygen were furnished by ORSANCO.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 2,700 micromhos Apr. 21, 1961; minimum daily, 77 micromhos Jan. 31, 1957.

pH: Maximum daily, 8.4 units Dec. 14, 1975; minimum daily, 6.3 units July 19, 20, 1976.

WATER TEMPERATURES: Maximum daily, 33.0°C July 24, 1964; minimum daily, 0.0°C Feb. 14, 1958, Mar. 12, 1960.

DISSOLVED OXYGEN: Maximum daily, 14.8 mg/L Jan. 21, 1976; minimum daily, 3.7 mg/L Sept. 8, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 426 micromhos Aug. 31; minimum daily, 109 micromhos Jan. 3.

pH: Maximum daily, 8.4 units Dec. 14; minimum daily, 6.3 units July 19, 20.

WATER TEMPERATURES: Maximum daily, 27.5°C Aug. 29; minimum daily, 2.0°C Jan. 13, 21-23.

DISSOLVED OXYGEN: Maximum daily, 14.8 mg/L Jan. 21; minimum daily, 3.7 mg/L Sept. 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

		INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL- ONIES PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAH- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	
NOV 07...	1100	6560	340	7.5	15.5	7	8.8	1800	32	71	36	20	
DEC 16...	0400	15200	200	7.1	7.5	3	10.1	80	--	53	20	13	
JAN 23...	1400	9400	360	7.2	1.5	10	--	8	4	58	25	16	
FEB 23...	1100	27200	200	7.1	6.0	15	10.9	200	20	43	14	11	
MAR 23...	0930	31100	190	7.5	10.0	20	9.9	1000	400	41	26	10	
APR 28...	1100	4570	350	--	14.0	20	9.1	40	6	81	23	21	
JUN 04...	1000	11300	220	7.6	22.0	5	7.3	56	40	61	15	16	
JUL 27...	1000	7700	--	--	--	--	--	--	--	--	--	--	
AUG 18...	1300	3160	380	7.5	26.0	5	--	25	0	86	49	23	
SEP 23...	1330	2780	310	7.6	20.0	4	6.3	--	68	65	25	16	
		DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PU- TAS- SIUM (K) (MG/L)	RICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACU3 (MG/L)	CARRON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
NOV 07...		5.0	22	2.7	42	0	34	2.1	36	35	.1	4.4	153
DEC 16...		5.0	19	1.6	40	0	33	5.1	30	22	.1	3.9	114
JAN 23...		4.3	17	1.7	40	0	33	4.0	35	23	.1	5.7	133
FEB 23...		3.8	8.8	1.7	36	0	30	4.6	22	11	.1	5.4	94
MAR 23...		4.0	7.8	4.3	15	0	16	1.0	27	12	.1	5.6	80
APR 28...		7.0	30	4.5	71	--	58	--	48	32	.1	4.0	199
JUN 04...		5.2	20	1.7	55	0	45	2.2	27	22	.1	1.9	134
JUL 27...		--	--	--	--	--	--	--	--	--	--	--	--
AUG 18...		6.9	37	2.3	45	0	37	2.3	53	51	.1	4.9	220
SEP 23...		6.0	26	2.3	48	0	39	1.9	16	17	.1	2.0	159

03201300 KANAWHA RIVER AT WINFIELD DAM, AT WINFIELD, WV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDED ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
NOV 07...	146	.40	.05	.45	.10	--	--	--	--	--	--	--
DEC 16...	114	.47	.73	1.2	.08	1	0	1	0	0	0	0
JAN 23...	123	.71	1.2	1.9	.09	--	--	--	--	--	--	--
FEB 23...	82	.72	.96	1.7	.10	1	0	1	4	1	3	10
MAR 23...	80	1.1	3.2	4.3	.11	--	--	--	--	--	--	--
APR 28...	182	.43	5.3	5.7	.16	--	--	--	--	--	--	--
JUN 04...	121	.30	.85	1.2	.10	2	1	1	1	1	0	10
JUL 27...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 18...	201	.52	2.5	3.0	.08	0	0	0	0	0	1	<10
SEP 23...	109	.54	1.4	1.9	.09	--	--	--	--	--	--	--

[illegible][illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

KANAWHA RIVER BASIN

03201300 KANAWHA RIVER AT WINFIELD DAM, AT WINFIELD, WV--Continued

WATER QUALITY DATA: WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL MALA- THION (UG/L)	MALA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	METHYL PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL METHYL TRI- THION (UG/L)	METHYL TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL PARA- THION (UG/L)	PARA- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)
NOV 07...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEC 16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
JAN 23...	--	--	--	--	--	--	--	--	--	--
FEB 23...	ND	--	ND	ND	--	ND	--	ND	--	ND
MAR 23...	--	--	--	--	--	--	--	--	--	--
APR 28...	--	--	--	--	--	--	--	--	--	--
JUN 04...	ND	--	ND	ND	--	ND	--	ND	--	ND
JUL 27...	--	--	--	--	--	--	--	--	--	--
AUG 18...	ND	--	ND	ND	--	ND	--	ND	--	ND
SEP 23...	--	--	--	--	--	--	--	--	--	--
DATE	TOX- APHENE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TRI- THION IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV 07...	ND	ND	ND	--	--	--	1300	42	744	48
DEC 16...	ND	ND	ND	ND	ND	ND	190	8	328	65
JAN 23...	--	--	--	--	--	--	430	13	330	63
FEB 23...	--	ND	--	ND	ND	ND	1100	30	2200	84
MAR 23...	--	--	--	--	--	--	1500	138	11600	92
APR 28...	--	--	--	--	--	--	9400	34	420	56
JUN 04...	--	ND	--	ND	ND	ND	7900	13	397	64
JUL 27...	--	--	--	--	--	--	2000	24	499	89
AUG 18...	--	ND	--	ND	ND	ND	5700	10	85	79
SEP 23...	--	--	--	--	--	--	10000	20	150	96

KANAWHA RIVER BASIN

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03201300 KANAWHA RIVER AT WINFIELD DAM, AT WINFIELD, WV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	233	194	158	---	162	199	329	238	187	---	396
2	162	222	196	111	156	170	165	340	206	194	204	373
3	189	224	202	109	154	178	159	336	209	---	221	388
4	218	214	215	115	159	188	155	344	214	---	230	380
5	209	216	229	122	164	185	160	340	234	---	241	360
6	214	243	232	128	178	---	164	325	223	218	246	336
7	219	255	228	135	175	---	157	302	206	231	242	329
8	235	261	247	145	164	209	163	302	212	234	234	315
9	239	261	243	156	140	217	170	---	224	264	263	321
10	256	250	217	160	147	228	178	310	237	---	246	328
11	267	242	220	160	154	233	186	318	263	---	260	346
12	249	236	212	167	164	198	204	326	267	235	285	353
13	257	223	219	186	172	171	218	330	268	202	294	367
14	272	160	222	179	166	165	231	346	270	187	300	380
15	279	131	213	171	156	165	247	371	275	197	300	392
16	259	133	220	149	150	165	282	383	279	214	335	383
17	239	147	226	141	136	167	277	378	284	235	378	352
18	272	141	191	139	139	170	276	354	296	187	387	---
19	200	144	176	145	139	162	281	251	216	164	376	---
20	135	140	171	155	128	163	285	204	163	176	376	320
21	---	137	168	168	---	161	295	183	177	190	378	305
22	---	144	170	189	---	128	303	176	156	202	360	294
23	---	146	180	197	133	121	320	174	123	217	366	272
24	141	151	186	197	139	127	315	174	121	229	384	268
25	140	148	203	---	---	132	335	169	129	---	396	276
26	138	160	231	---	145	140	322	171	142	196	411	272
27	152	169	208	---	151	154	314	184	153	181	400	278
28	---	177	184	177	156	160	317	204	165	171	399	280
29	---	181	177	139	---	155	331	211	182	180	406	269
30	---	187	171	132	---	180	330	224	188	192	424	291
31	250	---	167	131	---	194	---	238	---	203	426	---
MONTH	213	189	204	152	153	171	245	277	211	203	326	329
YEAR	MAX	426	MIN	109	MEAN	224						

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	7.4	7.3	6.9	---	7.1	6.9	7.5	7.4	6.9	---	6.6
2	7.2	7.3	7.2	6.7	7.0	7.1	6.9	7.4	7.3	6.8	---	6.7
3	7.2	7.4	7.1	6.8	7.0	7.1	7.0	7.2	7.1	---	6.6	6.8
4	7.3	7.5	7.2	6.8	7.1	7.0	7.0	7.3	7.4	---	6.6	6.8
5	7.2	7.4	7.5	6.9	7.1	7.0	7.0	7.3	7.2	---	6.6	6.8
6	7.1	7.6	7.4	7.0	7.1	---	7.1	7.0	7.3	6.6	7.1	6.8
7	7.1	7.3	7.4	7.0	7.2	---	7.3	7.1	7.1	6.5	---	6.8
8	7.2	7.2	7.7	7.1	7.3	6.9	7.6	7.1	7.1	6.5	7.1	6.8
9	7.1	7.4	7.4	7.0	6.9	6.9	7.4	---	7.0	6.5	---	6.7
10	7.0	7.4	7.1	7.1	7.0	7.0	7.3	7.2	7.1	---	---	6.6
11	7.2	7.2	7.2	7.1	7.2	7.0	7.2	7.3	7.4	---	6.8	6.6
12	7.3	7.1	7.3	7.1	7.0	7.0	7.3	7.2	7.2	6.4	6.9	6.6
13	7.1	7.3	8.0	7.0	7.3	7.0	7.4	7.1	7.2	6.6	7.2	6.5
14	7.1	7.0	8.4	7.1	7.4	7.0	7.2	7.2	6.8	6.7	7.3	6.4
15	7.2	7.2	8.2	7.3	7.1	7.0	7.2	7.2	6.7	6.7	7.0	6.4
16	7.2	7.2	7.7	7.1	7.1	7.2	7.5	7.2	6.6	6.7	7.1	6.5
17	7.1	7.3	7.3	7.0	7.1	7.0	7.7	7.1	6.6	6.6	6.8	---
18	7.0	7.2	7.0	7.0	7.1	7.1	7.4	7.1	6.5	6.4	6.8	---
19	7.0	7.3	7.0	7.0	7.2	7.0	7.1	7.3	6.6	6.3	7.0	---
20	7.1	7.3	7.0	7.0	7.1	7.0	7.1	7.3	6.5	6.3	7.2	6.7
21	---	7.3	7.0	6.8	---	7.0	7.2	7.3	6.6	6.5	7.1	6.5
22	---	7.2	7.0	6.8	---	6.7	7.3	7.2	6.8	6.6	6.9	6.7
23	---	7.2	7.3	6.8	7.2	6.6	7.6	7.1	6.8	6.6	6.8	---
24	7.2	7.3	7.5	6.8	7.2	6.7	7.5	7.1	6.9	6.6	6.7	6.8
25	7.1	7.2	7.2	6.8	---	6.7	7.7	7.1	6.9	---	6.6	6.7
26	7.1	7.2	7.3	6.9	7.1	6.7	7.8	6.9	6.8	6.6	6.9	6.7
27	7.1	7.2	7.2	6.9	7.1	6.7	7.6	6.9	6.8	6.6	6.9	6.7
28	---	7.4	6.9	7.0	7.1	6.8	7.5	7.0	6.9	6.6	6.9	6.7
29	---	7.5	7.1	7.0	---	6.8	7.7	7.4	6.8	6.7	6.8	6.8
30	---	7.4	7.0	7.0	---	7.0	7.8	6.9	6.9	6.7	6.7	6.8
31	7.4	---	7.0	6.9	---	7.0	---	6.9	---	6.6	6.6	---
MONTH	7.2	7.3	7.3	7.0	7.1	6.9	7.3	7.2	6.9	6.6	6.9	6.7
YEAR	MAX	8.4	MIN	6.3	MEAN	7.0						

KANAWHA RIVER BASIN

03201300 KANAWHA RIVER AT WINFIELD DAM, AT WINFIELD, WV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	16.0	8.5	5.5	---	10.0	14.0	19.5	22.0	24.5	---	26.5
2	19.0	16.0	8.0	6.5	4.0	10.0	13.0	19.5	22.0	24.5	26.0	26.0
3	19.0	16.0	7.5	6.5	4.0	10.5	13.0	19.5	22.0	---	26.0	26.0
4	19.0	16.0	7.5	6.0	4.0	12.0	12.5	19.5	22.5	---	26.0	26.0
5	18.5	16.5	7.5	4.5	4.0	12.0	12.0	19.5	22.5	---	26.0	26.5
6	18.5	16.0	7.5	4.0	3.5	---	12.0	20.0	23.0	25.0	26.0	26.0
7	19.0	16.5	7.5	3.5	4.0	---	12.5	19.5	23.0	25.0	25.5	26.0
8	19.0	16.5	7.5	3.5	3.5	12.5	13.0	19.5	23.0	25.0	25.0	25.5
9	19.0	16.5	7.5	3.0	3.0	12.0	13.0	---	23.0	25.5	24.5	25.5
10	19.5	16.5	7.5	2.5	3.5	12.0	13.0	19.0	23.0	---	25.0	25.5
11	19.5	16.5	7.0	2.5	4.5	11.5	13.0	19.0	24.0	---	25.0	25.0
12	20.0	16.0	7.0	2.5	5.0	11.5	13.0	19.5	24.0	25.5	25.5	25.0
13	19.5	15.0	7.0	2.0	6.0	11.0	13.5	20.0	25.0	25.5	26.0	25.0
14	19.5	13.0	7.0	2.5	6.5	10.5	13.5	21.0	25.0	25.0	26.0	25.0
15	20.0	11.5	7.0	3.5	6.5	10.5	14.0	21.0	25.5	25.5	25.5	24.5
16	19.5	10.5	7.5	3.5	7.5	10.0	15.0	21.0	25.5	25.5	25.5	24.0
17	19.0	10.5	7.5	3.5	8.5	9.5	15.5	21.5	26.0	25.0	25.5	24.0
18	19.0	10.0	7.0	3.0	9.0	9.0	16.5	22.0	26.5	24.0	25.5	---
19	18.0	10.0	6.0	2.5	10.0	9.0	17.5	21.0	27.0	23.5	26.0	---
20	17.0	10.0	5.5	2.5	10.0	9.0	18.0	19.5	26.5	24.0	26.0	23.5
21	---	10.0	5.0	2.0	---	9.5	19.0	19.5	25.5	25.0	26.0	23.0
22	---	9.5	4.5	2.0	---	10.5	19.0	19.5	24.0	25.0	26.0	23.0
23	---	9.0	4.5	2.0	9.5	10.0	19.5	19.0	23.0	25.0	26.5	22.5
24	16.0	9.0	4.0	2.5	9.0	10.5	20.0	19.0	22.0	26.0	26.5	22.5
25	16.0	9.0	3.5	2.5	---	10.5	20.5	19.5	22.5	---	26.5	22.5
26	16.0	8.5	3.5	3.0	8.5	11.0	20.0	19.5	22.5	26.5	27.0	22.5
27	16.5	8.5	3.5	4.0	8.5	11.5	19.5	19.5	23.5	27.0	27.0	22.0
28	---	8.5	4.0	4.5	9.0	12.0	19.5	20.0	24.0	26.5	27.0	21.0
29	---	8.0	4.5	4.0	---	12.5	20.0	20.0	24.5	26.0	27.5	20.5
30	---	8.5	4.5	4.5	---	13.5	20.0	21.0	25.0	26.0	27.0	20.5
31	16.5	---	5.0	4.5	---	13.5	---	21.5	---	26.0	27.0	---
MONTH	18.5	12.5	6.0	3.5	6.5	11.0	16.0	20.0	24.0	25.5	26.0	24.0
YEAR	MAX	27.5	MIN	2.0	MEAN	16.0						

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	8.5	---	12.2	---	9.9	9.0	6.7	7.6	7.9	---	4.7
2	8.9	8.5	---	10.6	11.7	9.3	9.5	6.5	7.4	7.3	6.0	4.2
3	8.6	8.5	10.8	11.0	11.4	9.0	9.8	6.8	7.6	---	6.1	3.8
4	8.5	8.2	10.8	12.2	11.2	8.8	10.0	7.1	6.6	---	5.2	3.8
5	8.6	8.1	10.5	13.4	11.0	9.0	9.7	7.2	6.2	---	4.8	4.1
6	8.5	8.1	10.5	12.5	10.9	---	9.6	6.8	6.7	5.3	4.5	4.1
7	8.5	7.9	10.4	11.9	11.3	---	10.0	6.8	6.3	5.1	---	4.0
8	8.6	---	---	12.0	11.3	10.1	9.9	6.6	7.0	4.3	---	3.7
9	7.9	8.0	10.8	12.8	11.8	10.0	9.8	---	7.6	3.9	---	3.8
10	7.0	9.3	---	12.7	12.4	9.7	9.7	7.8	7.5	---	---	3.9
11	7.5	8.5	11.4	11.5	12.9	9.6	9.2	7.6	6.6	---	6.7	4.6
12	7.7	8.6	12.1	11.2	12.7	9.7	8.8	7.2	6.3	4.2	7.2	4.6
13	7.5	8.4	12.2	11.1	13.5	9.9	8.1	6.7	7.6	6.2	8.0	4.8
14	7.1	8.6	11.2	10.9	12.6	9.7	8.3	7.0	6.7	7.4	7.8	4.7
15	7.0	9.5	11.2	11.1	12.1	9.6	8.2	7.4	6.2	7.3	7.4	4.3
16	6.9	9.9	11.0	12.1	12.2	9.6	8.1	---	6.2	7.4	7.5	4.4
17	7.1	10.5	10.9	11.9	13.0	10.8	8.0	---	6.3	7.2	6.4	4.5
18	6.9	10.7	10.4	12.5	13.3	11.8	7.7	---	6.0	7.0	6.5	---
19	6.9	10.7	10.2	13.0	11.2	11.9	7.6	---	6.8	6.1	6.8	---
20	7.6	10.7	11.1	14.1	10.7	11.9	8.6	---	6.6	6.2	6.9	4.5
21	---	10.6	11.0	14.8	---	11.6	9.5	---	7.2	6.1	6.2	4.2
22	---	10.8	10.9	13.1	---	10.9	9.6	---	8.0	6.1	5.7	4.9
23	---	10.9	11.3	12.0	10.0	11.2	8.9	---	8.3	5.9	5.5	5.5
24	---	10.7	11.2	11.3	10.6	11.5	8.4	---	8.7	6.4	5.2	6.2
25	7.2	10.4	11.6	11.9	---	11.4	8.2	---	8.5	---	5.0	6.0
26	7.2	10.2	11.9	11.5	11.8	10.6	8.5	---	8.3	6.0	6.6	5.6
27	7.0	9.9	12.0	12.1	12.4	10.3	8.5	---	8.0	6.0	6.2	5.6
28	---	9.7	11.1	12.9	12.4	9.8	8.0	---	8.0	6.7	5.6	5.9
29	---	9.7	10.9	---	---	9.7	7.5	---	8.3	7.7	5.6	5.9
30	---	9.6	11.4	13.5	---	10.1	7.2	---	7.8	7.4	5.4	6.0
31	8.1	---	12.3	12.6	---	9.5	---	---	---	6.6	5.0	---
MONTH	---	9.4	11.2	12.2	11.9	10.2	8.8	---	7.2	6.3	6.1	4.7
YEAR	MAX	14.8	MIN	3.7	MEAN	8.7						

03201300 KANAWHA RIVER AT WINFIELD DAM, AT WINFIELD, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Nov 07	1100	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		Scenedesmus			
		CHRYSOPHYTA		<1	
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	210	17	
		Melosira	580	44	
		Pennales			
		Achnanthaceae			
		Achnanthes	72	6	
		Cocconeis	72	6	
		Cymbellaceae			
		Cymbella		<1	
		Fragilariaceae			
		Fragilaria	210	17	
		Hannaea		<1	
		Gomphonemataceae			
		Gomphonema	36	3	
		Naviculaceae			
		Navicula	72	6	
		Nitzschiaceae			
		Nitzschia	36	3	
		TOTAL	1300		
Dec 16	0900	CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella		<1	
		Pennales			
		Diatomaceae			
		Diatoma	70	36	
		Fragilariaceae			
		Asterionella	18	9	
		Synedra		<1	
		Gomphonemataceae			
		Gomphonema		<1	
		Naviculaceae			
		Navicula	35	18	
		Pinnularia		<1	
		Nitzschiaceae			
		Nitzschia	70	36	
		TOTAL	190		
Jan 23	1400	CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	110	25	
		Pennales			
		Achnanthaceae			
		Achnanthes		<1	
		Cymbellaceae			
		Cymbella	36	8	
		Diatomaceae			
		Diatoma	36	8	
		Fragilariaceae			
		Asterionella		<1	
		Synedra		<1	
		Gomphonemataceae			
		Gomphonema		<1	
		Naviculaceae			
		Navicula	140	33	
		Nitzschiaceae			
		Nitzschia	110	25	
		TOTAL	430		

03201300 KANAWHA RIVER AT WINFIELD DAM, AT WINFIELD, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Feb 23	1100	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Zygnematales			
		Desmidiaceae			
		Cosmarium	38	3	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	110	10	
		Cymbellaceae			
		Cymbella	19	2	
		Diatomaceae			
		Diatoma		<1	
		Fragilariaceae			
		Hannaea			
		Hannaea Arcus		<1	
		Gomphonemataceae			
		Gomphonema	94	9	
		Meridionaceae			
		Meridion		<1	
		Naviculaceae			
		Navicula	110	10	
		Nitzschiaceae			
		Nitzschia	230	21	
		Achnanthaceae			
		Rhoicosphenia	19	2	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	470	43	
		TOTAL	1100		
Mar 23	0930	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		Scenedesmus	130	9	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	67	4	
		Pennales			
		Achnanthaceae			
		Achnanthes	370	24	
		Cymbellaceae			
		Cymbella	130	9	
		Diatomaceae			
		Diatoma	67	4	
		Fragilariaceae			
		Hannaea	33	2	
		Synedra	170	11	
		Gomphonemataceae			
		Gomphonema	230	16	
		Meridionaceae			
		Meridion	33	2	
		Naviculaceae			
		Navicula	67	4	
		Nitzschiaceae			
		Nitzschia	200	13	
		TOTAL	1500		

KANAWHA RIVER BASIN

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03201300 KANAWHA RIVER AT WINFIELD DAM, AT WINFIELD, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Apr 28	1100	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Micractiniaceae			
		Micractinium	2300	25	
		Occystaceae			
		Ankistrodesmus	610	6	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	4500	48	
		Melosira		<1	
		Pennales			
		Achnanthaceae			
		Achnanthes	120	1	
		Cymbellaceae			
		Cymbella	240	3	
		Diatomaceae			
		Diatoma		<1	
		Fragilariaceae			
		Fragilaria	610	6	
		Hannaea		<1	
		Synedra	120	1	
		Naviculaceae			
		Navicula	490	5	
		Nitzschiaceae			
		Nitzschia	120	1	
		Surirellaceae			
		Surirella		<1	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	240	3	
		TOTAL	9400		
June 04	1000	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Kirchneriella	260	3	
		Scenedesmaceae			
		Scenedesmus	520	7	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	3600	46	
		Melosira	130	2	
		Pennales			
		Naviculaceae			
		Navicula	130	2	
		Nitzschiaceae			
		Nitzschia	390	5	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	2800	36	
		TOTAL	7900		

03201300 KANAWHA RIVER AT WINFIELD DAM, AT WINFIELD, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
July 27	1000	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Kirchneriella		<1	
		Volvocales			
		Chlamydomonadaceae			
		Chlamydomonas	240	12	
		Volvocaceae			
		Pandorina		<1	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	330	16	
		Melosira	1000	51	
		Pennales			
		Achnanthaceae			
		Achnanthes	47	2	
		Cymbellaceae			
		Cymbella	47	2	
		Naviculaceae			
		Navicula	47	2	
		Nitzschiaceae			
		Nitzschia	280	14	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas		<1	
		TOTAL	2000		
Aug 18	1300	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		Scenedesmus			
		Volvocales	230	4	
		Volvocaceae		<1	
		Eudorina			
		Gonium		<1	
		Pandorina	1800	32	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	3300	58	
		Melosira		<1	
		Pennales			
		Nitzschiaceae			
		Nitzschia	110	2	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas	110	2	
		PYRRHOPHYTA			
		Dinophyceae			
		Peridinales			
		Glenodiniaceae			
		Glenodinium	110	2	
		TOTAL	5700		

KANAWHA RIVER BASIN

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03201300 KANAWHA RIVER AT WINFIELD DAM, AT WINFIELD, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Sept 23	1330	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	150	2	
		Scenedesmaceae			
		Scenedesmus	310	3	
		Volvocales			
		Chlamydomonadaceae			
		Chlamydomonas	610	6	
		Volvocaceae			
		Pandorina	2500	25	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	5400	54	
		Melosira	770	8	
		Pennales			
		Naviculaceae			
		Navicula	150	2	
		PYRRHOPHYTA			
		Dinophyceae			
		Peridinales			
		Glenodiniaceae			
		Glenodinium	150	2	
		TOTAL	10000		

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a (mg/m ²)	Chlorophyll b (mg/m ²)	Biomass pigment	Sampling method
		Dry weight	Ash weight				
Dec 12	29	15	11	45	3.7	86	Polyethylene strip
Mar 23	28	130	120	51	0.5	270	
June 4	37	5.2	1.9	52	19	64	

03201410 POPLAR FORK AT TEAYS, WV

LOCATION.--Lat 38°27'23", long 81°55'54", Putnam County, Hydrologic Unit 05050008, 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.

REMARKS.--Records good except those for periods of no gage-height record, Dec. 16 to Feb. 4 and July 25 to Aug. 23, 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.

AVERAGE DISCHARGE.--9 years, 12.0 ft³/s (0.340 m³/s), 18.71 in/yr (475 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 1	---	Unknown	Unknown	Mar. 21	0730	*999 28.3	12.37 3.770

Minimum daily discharge, 0.12 ft³/s (0.003 m³/s) Aug. 22, 23.

DISCHARGE* IN CUHIC FEET PER SECOND* WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.8	23	250	13	3.5	37	2.2	5.1	1.3	9.5	.14
2	2.8	1.6	7.7	30	10	3.4	18	2.1	4.1	.62	3.0	.70
3	1.6	1.6	4.9	40	8.0	3.3	11	4.9	13	.53	.90	.32
4	1.0	1.3	3.5	35	6.7	3.0	8.5	2.8	4.3	.73	.35	.23
5	.94	1.3	3.0	25	7.4	3.2	6.5	2.0	2.3	.51	.25	.19
6	.94	1.1	9.8	17	25	3.1	5.5	1.5	1.3	5.5	.50	.16
7	.78	1.3	25	15	15	2.8	4.6	3.2	.93	7.8	1.0	.15
8	2.1	1.6	11	14	12	2.5	3.8	1.9	.77	2.2	.85	.14
9	2.3	1.3	7.7	12	8.1	8.4	3.2	1.3	.61	1.0	.70	.35
10	1.8	2.8	6.3	10	7.4	16	3.0	.99	.45	.70	.50	1.6
11	5.4	2.3	4.4	12	7.5	14	3.0	.86	.36	.51	.70	.28
12	2.3	132	3.3	15	6.2	11	2.9	.85	.30	1.8	.60	.21
13	1.6	26	2.5	21	7.2	12	2.6	.75	.33	.54	.45	.19
14	1.1	13	2.3	35	6.6	8.4	2.5	.70	.45	.30	.25	.16
15	1.1	7.3	8.2	30	5.9	7.0	2.3	1.6	.28	.25	1.0	1.5
16	1.6	5.9	29	20	5.5	6.9	2.3	2.8	.33	15	.80	2.3
17	121	3.5	20	16	36	6.3	2.1	3.9	.44	11	.35	.58
18	33	3.3	15	13	89	5.3	1.8	12	.26	2.4	.25	.39
19	11	3.0	11	10	23	4.8	1.8	7.6	.45	1.2	.15	.28
20	7.7	2.5	8.0	9.0	14	5.4	1.6	3.3	1.6	.70	.14	.26
21	5.4	2.5	6.0	8.0	10	368	2.4	2.4	.84	.47	.13	.24
22	4.0	2.1	5.0	7.0	11	38	3.3	1.7	.82	1.6	.12	.24
23	3.3	1.8	4.0	6.0	8.6	17	1.9	1.0	1.5	1.5	.12	.22
24	2.5	1.6	3.5	6.5	7.0	12	1.3	.86	.52	2.7	.14	.22
25	2.3	1.6	3.0	8.0	6.3	10	1.1	.72	2.3	3.1	.15	.22
26	2.1	1.1	25	12	5.7	7.8	1.4	.64	2.8	1.0	.21	.41
27	2.3	1.8	18	20	5.1	7.5	1.0	.54	.77	1.8	.26	.99
28	1.8	1.3	12	23	4.7	6.0	.95	.47	.47	2.5	.54	13
29	2.3	3.0	9.0	20	4.1	6.3	.92	6.2	.35	1.7	.32	4.2
30	3.3	11	9.0	16	---	8.0	.86	6.3	7.2	1.2	.17	12
31	2.3	---	25	11	---	30	---	2.7	---	10	.14	---
TOTAL	232.66	242.3	325.1	766.5	376.0	640.9	139.13	80.78	55.23	82.16	24.54	139.88
MEAN	7.51	8.08	10.5	24.7	13.0	20.7	4.64	2.61	1.84	2.65	.79	4.66
MAX	121	132	29	250	89	368	37	12	13	15	9.5	.99
MIN	.78	1.1	2.3	6.0	4.1	2.5	.86	.47	.26	.25	.12	.14
CFSM	.86	.93	1.21	2.84	1.49	2.38	.53	.30	.21	.30	.09	.54
IN.†	.99	1.03	1.39	3.27	1.61	2.74	.59	.34	.24	.35	.10	.60
IN.‡	1.03	1.76	---	---	---	3.94	.48	4.20	3.72	---	---	5.72
CAL YR 1975	TOTAL	6890.32	MEAN	18.9	MAX	426	MIN	.18	CFSM	2.17	IN†	29.42
WTR YR 1976	TOTAL	3105.18	MEAN	8.48	MAX	368	MIN	.12	CFSM	.97	IN†	13.26

† Runoff.
‡ Rainfall.

OHIO RIVER MAIN STEM

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03201500 OHIO RIVER AT POINT PLEASANT, WV

LOCATION.--Lat 38°50'25", long 82°08'30", Mason County, Hydrologic Unit 05030202, 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 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 base gage at datum 505.22 ft (153.991 m) above mean sea level, Sandy Hook datum.

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. Corps of Engineers gage-height telemeters at station.

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 310,000 ft³/s (8,780 m³/s) Feb. 20; maximum gage height, 37.78 ft (11.515 m) Feb. 20; minimum gage height, 23.38 ft (7.126 m) Aug. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	248000	127000	126000	109000	---	---	---		
2	54000	---	---	290000	109000	112000	138000	---	---	---		
3	56000	---	---	304000	105000	108000	146000	---	---	---		
4	51000	---	---	239000	95300	107000	131000	---	---	---		
5	---	---	---	157000	85500	130000	115000	---	---	---		
6	---	---	---	159000	82000	136000	105000	---	---	---		
7	---	---	60000	132000	101000	126000	99700	---	---	---		
8	---	---	58000	120000	103000	110000	89600	---	---	---		
9	---	---	68000	120000	87800	106000	78200	---	---	---		
10	---	---	70000	50000	80600	105000	66400	---	---	---		
11	53000	---	66000	70000	82000	108000	59000	---	---	36000		
12	51000	71700	71000	70000	109000	114000	---	---	---	145000		
13	---	136000	69000	73000	124000	121000	---	---	---	129000		
14	---	129000	66000	115000	131000	119000	---	---	---	71100		
15	---	107000	67000	170000	135000	116000	---	---	---	58100		
16	---	86400	93000	155000	135000	105000	---	---	---	50200		
17	45000	77800	135000	130000	148000	99600	---	---	---	79600		
18	145000	54000	146000	105000	252000	96500	---	45000	---	63500		
19	211000	51000	115000	75000	285000	99100	---	55200	---	41000		
20	195000	48000	102000	58000	310000	91500	---	50000	---	---		
21	136000	43000	90600	63000	283000	128000	---	56000	54200	---		
22	110000	49000	85000	57000	234000	200000	---	---	44000	---		
23	99500	---	72000	47000	211000	177000	---	---	66000	---		
24	92200	---	62000	45000	197000	146000	---	---	54900	76800		
25	76300	---	56000	49000	203000	115000	---	---	40000	94600		
26	64000	---	107000	72000	186000	99600	---	---	56700	73900		
27	55000	---	143000	132000	168000	93500	---	---	---	---		
28	44000	---	149000	200000	155000	87800	---	---	---	---		
29	---	---	129000	230000	142000	78400	---	---	---	---		
30	---	---	107000	183000	---	76800	---	---	---	---		
31	---	---	122000	148000	---	81100	---	---	---	---		
TOTAL	---	---	---	4146000	4466200	3518900	---	---	---	---		
MEAN	---	---	---	133700	154000	113500	---	---	---	---		
MAX	---	---	---	304000	310000	200000	---	---	---	---		
MIN	---	---	---	45000	80600	76800	---	---	---	---		

GUYANDOTTE RIVER BASIN

03202280 PINNACLE CREEK NEAR PINEVILLE, WV

LOCATION.--Lat 37°34'06", long 81°31'58", Wyoming County, Hydrologic Unit 05070101, at bridge on State Route 16, 0.7 mi (1.1 km) upstream from mouth, and 1.3 mi (2.1 km) south of Pineville.

DRAINAGE AREA.--56.9 mi² (147.4 km²).

PERIOD OF RECORD.--October 1975 to November 1976 (discontinued).

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM 7UM-MF (COL./100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT , 1975												
16...	1030	--	--	--	11.0	--	--	1.8	--	--	--	--
30...	0845	19	440	8.2	13.5	7	8.8	--	--	--	--	--
NOV												
25...	1000	25	390	8.2	6.5	1	10.5	--	--	--	16	4
FEB , 1976												
12...	1100	74	260	7.3	4.0	7	9.9	--	--	20	--	10
MAR												
25...	1100	144	237	--	--	--	--	--	--	--	--	--
APR												
28...	0910	35	440	7.5	14.0	1	9.8	--	--	--	56	40
MAY												
25...	1445	36	360	7.7	16.5	2	11.2	--	--	--	200	0
JUN												
24...	1330	18	440	8.6	21.5	20	8.4	--	--	--	90	250
JUL												
29...	1000	4.6	629	7.5	23.0	20	6.8	--	--	--	70	260
AUG												
25...	0945	2.7	715	8.6	22.5	9	7.2	--	--	--	5	120
SEP												
22...	1330	6.1	570	7.8	13.0	8	8.2	--	--	--	--	640
OCT												
18...	1030	32	480	7.8	12.5	1	8.8	--	--	--	25	45
NOV												
17...	1445	28	430	8.7	5.0	2	12.0	--	10	--	--	15
DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED PHOSPHORUS (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CAC03 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	
OCT , 1975												
16...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
25...	--	--	--	--	--	--	--	--	--	--	--	--
FEB , 1976												
12...	67	0	16	6.5	36	1.9	1.5	128	0	105	10	
MAR												
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	89	0	22	8.2	40	1.8	2.1	150	0	123	4.8	
JUN												
24...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
29...	79	0	19	7.7	130	6.4	2.5	327	0	268	17	
AUG												
25...	53	0	12	5.6	160	9.6	3.0	385	0	316	1.5	
SEP												
22...	68	0	18	5.7	110	5.8	2.4	281	0	230	7.1	
OCT												
18...	81	0	20	7.6	71	3.4	2.2	213	0	175	5.4	
NOV												
17...	81	0	21	7.0	68	3.3	2.1	208	0	171	.7	

GUYANDOTTE RIVER BASIN

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03202280 PINNACLE CREEK NEAR PINEVILLE, WV--Continued

WATER QUALITY DATA

DATE	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)
OCT , 1975											
16...	--	--	--	--	--	--	--	--	--	--	.00
30...	--	--	--	--	--	--	--	--	--	--	--
NOV											
25...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1976											
12...	51	1.7	.1	6.6	201	184	--	.23	.00	.23	--
MAR											
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	55	1.9	--	6.9	--	210	--	.02	.01	.03	--
JUN											
24...	--	--	--	--	--	--	--	--	--	--	--
JUL											
29...	84	2.7	.2	4.6	412	412	27	.06	.01	.07	--
AUG											
25...	76	4.3	.2	2.8	457	454	--	.01	.01	.02	--
SEP											
22...	68	5.3	.1	4.9	342	353	--	.05	.01	.06	--
OCT											
18...	66	2.4	.1	7.8	286	283	--	.24	.01	.25	--
NOV											
17...	66	2.5	.1	6.8	278	277	--	.23	.02	.25	--
DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHATE (P04) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
OCT , 1975											
16...	.48	.48	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
NOV											
25...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1976											
12...	--	--	.01	.03	220	200	20	0	0	0	<10
MAR											
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	--	--	.00	.00	--	--	50	--	--	--	--
JUN											
24...	--	--	--	--	--	--	--	--	--	--	--
JUL											
29...	--	--	.01	.03	460	400	60	3	0	3	<10
AUG											
25...	--	--	.04	.12	--	--	50	--	--	--	--
SEP											
22...	--	--	.01	.03	--	--	40	--	--	--	--
OCT											
18...	--	--	.01	.03	--	--	10	--	--	--	--
NOV											
17...	--	--	.03	.09	--	--	40	--	--	--	--

WATER QUALITY DATA

DATE	HEXA- VALENT CHROMIUM (CR6) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDED LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT , 1975										
30...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
12...	0	580	30	5	4	1	30	10	20	<.5
MAR										
25...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	--	290	80	--	--	--	30	0	30	--
JUN										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
29...	1	1300	20	23	14	9	80	50	30	<.5
AUG										
25...	--	--	100	--	--	--	--	--	10	--
SEP										
22...	--	--	150	--	--	--	--	--	30	--
OCT										
18...	--	--	130	--	--	--	--	--	30	--
NOV										
17...	--	--	90	--	--	--	--	--	40	--

DATE	SUS- PENDED MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDED ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- TON (CELLS PER ML)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT , 1975									
30...	--	--	--	--	--	--	--	28	1.4
NOV									
25...	--	--	--	--	--	--	320	14	.94
FEB , 1976									
12...	.0	<.5	10	10	0	3.7	360	20	4.0
MAR									
25...	--	--	--	--	--	--	--	24	9.3
APR									
28...	--	--	--	--	--	--	--	4	.38
MAY									
25...	--	--	--	--	--	--	--	6	.58
JUN									
24...	--	--	--	--	--	--	--	38	1.8
JUL									
29...	.0	<.5	20	0	20	3.0	--	32	.40
AUG									
25...	--	--	--	--	--	6.9	--	21	.15
SEP									
22...	--	--	--	--	--	1.9	--	20	.33
OCT									
18...	--	--	--	--	--	2.7	--	0	.00
NOV									
17...	--	--	--	--	--	2.9	--	4	.30

GUYANDOTTE RIVER BASIN

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03202280 PINNACLE CREEK NEAR PINEVILLE, WV

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (Cells/ml)	Percent of total	Sampling method
Nov 25	1000	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		Cymbella	20	6	
		Naviculaceae			
		Navicula	20	6	
		Nitzschiaceae			
		Nitzschia	280	87	
		TOTAL	320		
Feb 12	1100	CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnantheae			
		Achnanthes	27	8	
		Diatomaceae			
		Diatoma	14	4	
		Fragilariaceae			
		Fragilaria		<1	
		Synedra	96	27	
		Gomphonemataceae			
		Gomphonema	14	4	
		Meridionaceae			
		Meridion	14	4	
		Naviculaceae			
		Navicula	27	8	
		Nitzschiaceae			
		Nitzschia	160	46	
		TOTAL	360		

GUYANDOTTE RIVER BASIN

03202400 GUYANDOTTE RIVER NEAR BAILEYSVILLE, WV

LOCATION.--Lat 37°36'15", long 81°38'44", Wyoming County, Hydrologic Unit 05070101, 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).

WATER-DISCHARGE RECORDS

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.

REMARKS.--Water-discharge records good. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--8 years, 441 ft³/s (12.49 m³/s), 19.44 in/yr (494 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft³/s (527 m³/s) Jan. 11, 1974, gage height, 17.31 ft (5.276 m), from rating curve extended above 11,000 ft³/s (312 m³/s); minimum, 21 ft³/s (0.59 m³/s) Oct. 14, 1970, gage height, 2.44 ft (0.744 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,950 ft³/s (169 m³/s) Jan. 1, gage height, 10.25 ft (3.124 m), no other peak above base of 4,400 ft³/s (120 m³/s); minimum, 38 ft³/s (1.08 m³/s) Sept. 7, 8, 9, gage height, 2.95 ft (0.899 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	93	107	3960	505	409	862	143	262	102	191	46
2	104	90	102	1390	530	382	940	173	264	90	161	51
3	93	90	99	1040	465	346	742	152	241	85	104	78
4	82	82	96	1250	436	319	615	146	206	161	85	61
5	80	88	90	892	428	299	525	131	172	131	74	51
6	80	82	93	630	620	319	450	128	152	116	71	44
7	82	88	113	500	832	275	400	128	136	177	82	39
8	93	110	125	500	706	258	360	128	129	167	85	39
9	122	113	119	346	580	387	319	117	118	155	63	39
10	107	107	143	264	480	1050	291	109	110	137	59	93
11	96	134	143	180	485	946	279	131	101	116	59	152
12	93	423	137	324	465	718	264	170	96	96	54	71
13	88	1070	137	303	455	605	250	137	115	93	54	51
14	80	580	137	615	675	495	240	127	369	85	58	43
15	80	355	137	655	814	428	229	138	404	78	63	71
16	80	275	226	550	712	432	215	244	221	99	90	177
17	137	254	311	465	1270	485	212	226	184	107	88	157
18	222	236	291	337	2700	423	194	356	149	104	67	101
19	191	212	212	210	2830	432	184	642	132	88	59	81
20	155	201	180	319	1640	423	184	456	154	76	52	70
21	134	194	198	271	1100	530	198	320	187	67	47	61
22	116	180	167	261	952	690	201	257	211	63	46	54
23	102	155	125	240	814	665	180	218	200	61	43	49
24	93	140	100	258	700	575	173	180	155	59	41	43
25	88	134	149	324	665	565	167	172	140	88	41	43
26	93	131	170	480	610	580	161	157	162	80	49	50
27	99	125	191	1200	555	570	158	147	145	67	58	85
28	90	122	177	1420	495	510	152	136	121	65	69	428
29	88	110	170	970	450	455	146	136	109	61	78	212
30	93	104	184	706	---	500	140	210	104	88	61	212
31	104	---	428	565	---	480	---	221	---	146	51	---
TOTAL	3275	6078	5057	21425	23969	15551	9431	6136	5249	3108	2203	2752
MEAN	106	203	163	691	827	502	314	198	175	100	71.1	91.7
MAX	222	1070	428	3960	2830	1050	940	642	404	177	191	428
MIN	80	82	90	180	428	258	140	109	96	59	41	39
CFSM	.34	.66	.53	2.24	2.69	1.63	1.02	.64	.57	.32	.23	.30
IN.	.40	.73	.61	2.59	2.89	1.88	1.14	.74	.63	.38	.27	.33
CAL YR 1975 TOTAL	214637			MEAN 588	MAX 7420	MIN 63	CFSM 1.91	IN 25.92				
WTR YR 1976 TOTAL	104234			MEAN 285	MAX 3960	MIN 39	CFSM .93	IN 12.59				

GUYANDOTTE RIVER BASIN

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03202400 GUYANDOTTE RIVER NEAR BAILEYSVILLE, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1973 to current year.

WATER TEMPERATURES: June to September 1976.

SUSPENDED-SEDIMENT DISCHARGE: July 1973 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 764 micromhos Oct. 22, 1973, Oct. 14, 1974; minimum daily, 58 micromhos Mar. 30, 1975.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,180 mg/L May 13, 1974; minimum daily mean, 1 mg/L Nov. 29 to Dec. 3, 1975.

SEDIMENT LOADS.--Maximum daily, 40,400 tons (36,700 tonnes) May 14, 1975; minimum daily, 0.27 ton (0.24 tonne) Dec. 3, 1975.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 714 micromhos July 25; minimum daily, 94 micromhos Jan. 1.

WATER TEMPERATURES: Maximum during period June to September, 27.0°C June 28, 29, July 23, 25; minimum, 16.0°C Sept. 22, 30.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,080 mg/L Jan. 1; minimum daily mean, 1 mg/L Nov. 29 to Dec. 3.

SEDIMENT LOADS: Maximum daily, 12,900 tons (11,700 tonnes) Jan. 1; minimum daily, 0.27 ton (0.24 tonne) Dec. 3.

WATER QUALITY DATA

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
FEB , 1971											
02...	--	460	200	7.5	1.0	--	--	--	--	--	20
MAR											
11...	--	--	290	7.2	4.0	--	--	--	24	0	4.0
MAY											
13...	--	2500	230	7.5	15.5	--	--	--	16	0	4.0
18...	--	692	380	7.3	16.0	--	--	--	32	0	8.0
JUL											
07...	0650	--	540	8.0	22.0	--	--	--	60	0	4.0
07...	0850	--	540	--	--	--	--	--	--	--	--
FEB , 1972											
16...	1515	1030	235	7.7	2.0	--	--	--	60	21	14
16...	1515	--	190	--	--	--	--	--	--	--	--
MAR											
20...	1315	580	515	7.5	7.0	--	--	--	119	16	28
APR											
11...	1540	734	257	7.4	11.0	11.2	--	--	68	23	16
MAY											
10...	1445	812	326	7.7	15.0	10.4	--	--	88	25	21
JUN											
13...	1345	192	615	8.0	19.0	--	--	--	138	1	34
JUL											
12...	1145	252	450	7.8	21.0	--	--	--	109	0	28
AUG											
07...	1400	318	368	7.8	21.0	--	--	--	87	10	21
SEP											
12...	--	152	630	8.7	21.5	--	--	--	130	0	31
NOV											
09...	1200	405	300	7.7	11.0	--	--	--	72	5	17
DEC											
12...	1200	1880	200	7.2	8.0	--	--	--	66	40	16
AUG , 1975											
12...	1210	88	560	8.2	23.0	7.2	510	120	120	0	27

GUYANDOTTE RIVER BASIN

03202400 GUYANDOTTE RIVER NEAR BAILEYSVILLE, WV--Continued

WATER QUALITY DATA

DATE	DIS-SOLVED MAG- NE- SIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS-SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HG03) (MG/L)	CAR- BONATE (C03) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	CARBON DIOXIDE (C02) (MG/L)	DIS-SOLVED SULFATE (S04) (MG/L)	DIS-SOLVED CHLO- RIDE (CL) (MG/L)	DIS-SOLVED FLUO- RIDE (F) (MG/L)
FEB , 1971											
02...	--	--	--	--	44	--	36	--	--	8.0	--
MAR											
11...	--	--	--	--	169	--	139	--	--	8.0	--
MAY											
13...	--	--	--	--	48	--	39	--	--	6.0	--
18...	--	--	--	--	84	--	69	--	--	6.0	--
JUL											
07...	--	--	--	--	186	--	153	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1972											
16...	6.2	23	1.3	1.6	48	0	39	--	64	5.5	.1
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
20...	12	65	2.6	3.2	126	0	103	6.4	160	4.4	.2
APR											
11...	6.7	24	1.3	1.8	54	0	44	--	73	2.5	.1
MAY											
10...	8.6	35	1.6	2.5	77	0	63	--	86	2.5	.1
JUN											
13...	13	84	3.1	3.0	168	0	138	2.7	160	4.5	.2
JUL											
12...	9.5	66	2.8	4.0	155	0	127	3.9	120	5.0	.2
AUG											
07...	8.3	45	2.1	2.4	94	0	77	--	91	4.0	.1
SEP											
12...	12	88	3.4	3.0	173	7	154	--	160	4.1	.2
NOV											
09...	7.1	35	1.8	2.2	81	0	66	2.6	75	3.0	.1
DEC											
12...	6.4	14	.7	1.8	32	0	26	3.2	57	6.0	.0
AUG , 1975											
12...	12	95	3.8	3.6	230	0	189	2.3	120	8.2	.2
DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS- PHATE (P04) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS-SOLVED ALUM- INUM (AL) (UG/L)
FEB , 1971											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
11...	--	--	--	--	--	--	--	--	--	--	--
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JUL											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1972											
16...	7.7	--	--	.40	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
MAR											
20...	7.4	--	345	--	--	--	--	--	--	--	--
APR											
11...	7.2	--	--	.40	--	--	--	--	--	--	--
MAY											
10...	7.1	--	--	.30	--	--	--	--	--	--	--
JUN											
13...	6.0	--	389	--	--	--	--	--	--	--	--
JUL											
12...	6.5	--	316	--	--	--	--	--	--	--	--
AUG											
07...	7.8	--	--	.40	--	--	--	--	--	--	--
SEP											
12...	1.5	--	--	.00	--	--	--	--	--	--	--
NOV											
09...	6.7	--	187	--	--	--	--	--	--	--	--
DEC											
12...	7.4	--	127	--	--	--	--	--	--	--	--
AUG , 1975											
12...	.9	391	381	.10	.01	.11	.01	.03	310	170	140

WATER QUALITY DATA

[illegible]

GUYANDOTTE RIVER BASIN

03202400 GUYANDOTTE RIVER NEAR BAILEYSVILLE, WV--Continued

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COL. ONIES PER 100 ML)
SEP , 1975										
17...	1115	65	470	8.0	18.0	20	9.7	--	30	180
30...	1545	84	450	7.5	20.5	4	7.5	--	1000	300
OCT										
22...	1335	121	605	7.7	13.0	--	--	--	--	--
NOV										
25...	1115	110	360	8.4	6.0	1	11.2	--	100	16
DEC										
09...	1220	117	700	7.8	7.0	--	--	--	--	--
FEB , 1976										
12...	1230	400	305	8.5	5.0	8	11.4	860	--	200
26...	1255	613	200	8.0	12.5	--	--	--	--	--
MAR										
25...	1215	545	249	--	--	--	--	--	--	--
APR										
08...	1200	367	530	8.4	14.0	--	--	--	--	--
28...	1030	125	480	8.0	14.5	2	9.4	--	290	16
MAY										
19...	1235	670	--	--	14.0	--	--	--	--	--
25...	0830	163	380	7.6	16.0	4	8.2	--	1340	0
JUN										
24...	1215	142	460	8.4	22.0	30	7.8	--	200	800
30...	1150	119	490	7.7	23.0	--	7.2	--	--	--
JUL										
29...	1200	59	605	8.4	24.0	5	7.2	--	210	100
AUG										
11...	1750	64	615	8.6	23.0	--	9.5	--	--	--
25...	1100	39	725	8.2	23.5	7	7.2	--	430	140
SEP										
22...	1000	54	490	7.6	15.0	15	8.2	--	--	500
OCT										
18...	1200	157	440	7.9	12.0	2	8.2	--	500	120

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COL. ONIES PER 100 ML)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
NOV , 1976											
17...	1400	145	470	8.5	5.0	2	11.2	90	95	93	0

DATE	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
NOV , 1976											
17...	22	9.3	54	2.4	2.3	137	0	112	.7	100	6.1

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHATE (PO4) (MG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)
NOV , 1976										
17...	.1	5.3	262	268	.18	.05	.23	.01	.03	110

GUYANDOTTE RIVER BASIN

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WATER QUALITY DATA

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO4- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)
SEP , 1975										
17...	110	0	26	10	80	3.4	3.1	183	0	150
30...	100	0	24	10	58	2.5	2.7	143	0	117
OCT										
22...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
DEC										
09...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
12...	73	4	17	7.5	32	1.6	1.8	84	0	69
26...	--	--	--	--	--	--	--	--	--	--
MAR										
25...	--	--	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	--	--	--	--	--	--	--	--	--	--
25...	76	0	18	7.6	47	2.3	2.1	125	0	103
JUN										
24...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUL										
29...	110	--	26	11	100	4.1	4.9	--	--	--
AUG										
11...	--	--	--	--	--	--	--	--	--	--
25...	110	0	25	12	110	4.5	3.3	231	0	189
SEP										
22...	91	0	23	8.2	76	3.5	2.8	183	0	150
OCT										
18...	110	13	25	11	51	2.1	2.6	116	0	95

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTIT- TUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
SEP , 1975										
17...	2.9	110	2.8	--	--	--	--	--	.40	.01
30...	7.2	98	7.2	.1	5.2	283	277	--	.27	.00
OCT										
22...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
DEC										
09...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
12...	.4	68	8.0	.1	6.2	193	184	--	.38	.00
26...	--	--	--	--	--	--	--	--	--	--
MAR										
25...	--	--	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	--	--	--	--	--	--	--	--	--	--
25...	5.0	73	3.9	--	6.2	--	221	--	.26	.01
JUN										
24...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUL										
29...	--	130	7.8	.2	1.1	391	--	9	.19	.00
AUG										
11...	--	--	--	--	--	--	--	--	--	--
25...	2.3	150	8.3	.2	.7	443	424	--	.11	.01
SEP										
22...	7.4	100	8.9	.2	6.5	309	319	--	.55	.01
OCT										
18...	2.3	120	5.6	.1	7.7	276	282	--	.41	.01

GUYANDOTTE RIVER BASIN

03202400 GUYANDOTTE RIVER NEAR BAILEYSVILLE, WV--Continued

WATER QUALITY DATA

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
SEP + 1975										
17...	.41	.04	.12	--	--	90	--	--	--	--
30...	.27	.01	.03	300	100	200	2	0	2	<10
OCT										
22...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
DEC										
09...	--	--	--	--	--	--	--	--	--	--
FEB + 1976										
12...	.38	.01	.03	510	460	50	1	0	1	<10
26...	--	--	--	--	--	--	--	--	--	--
MAR										
25...	--	--	--	--	--	--	--	--	--	--
APR										
08...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	--	--	--	--	--	--	--	--	--	--
25...	.27	.02	.06	--	--	70	--	--	--	--
JUN										
24...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
JUL										
29...	.19	.03	.09	360	240	120	6	0	6	10
AUG										
11...	--	--	--	--	--	--	--	--	--	--
25...	.12	.02	.06	--	--	80	--	--	--	--
SEP										
22...	.56	.05	.15	--	--	80	--	--	--	--
OCT										
18...	.42	.01	.03	--	--	50	--	--	--	--

DATE	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
JUN + 1976									
24...	--	--	--	--	--	--	--	--	--
JUL									
29...	0	440	30	30	0	30	90	40	50
AUG									
25...	--	--	40	--	--	--	--	--	50
SEP									
22...	--	--	100	--	--	--	--	--	60
OCT									
18...	--	--	50	--	--	--	--	--	180
NOV									
17...	--	--	70	--	--	--	--	--	150

DATE	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
JUN + 1976									
24...	--	--	--	--	--	--	--	10	3.8
JUL									
29...	<.5	.0	<.5	10	0	10	6.7	12	1.9
AUG									
25...	--	--	--	--	--	--	3.7	22	2.3
SEP									
22...	--	--	--	--	--	--	2.2	32	4.7
OCT									
18...	--	--	--	--	--	--	2.6	--	--
NOV									
17...	--	--	--	--	--	--	5.5	2	.78

GUYANDOTTE RIVER BASIN

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03202400 GUYANDOTTE RIVER NEAR BAILEYSVILLE, WV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	449	477	424	94	---	335	267	512	306	608	592	---
2	468	---	436	121	267	349	189	476	312	621	519	578
3	498	457	447	151	269	370	218	---	293	625	403	625
4	527	469	464	---	305	373	---	451	---	---	440	598
5	---	486	449	151	288	384	268	472	313	563	486	---
6	513	490	473	180	285	390	294	493	346	505	508	---
7	522	491	---	216	185	---	330	508	391	527	---	597
8	540	---	456	236	---	392	347	516	402	561	---	---
9	533	---	463	269	214	369	351	---	420	497	613	598
10	517	485	436	293	241	208	369	518	448	517	584	618
11	515	444	---	---	274	173	---	---	482	---	604	619
12	---	278	403	302	284	203	378	494	499	516	---	---
13	511	168	369	293	275	223	394	481	500	570	604	391
14	526	160	357	280	273	---	423	450	463	597	608	---
15	---	199	359	205	---	282	430	470	207	618	637	384
16	537	---	334	197	202	295	434	455	233	---	622	482
17	515	235	292	215	188	302	436	393	313	661	---	408
18	503	247	224	---	122	285	---	326	384	642	599	---
19	---	258	216	261	115	295	460	194	425	633	536	---
20	329	278	240	309	160	296	458	166	---	648	537	378
21	336	287	---	296	200	---	462	210	432	660	570	---
22	379	327	274	312	---	237	450	263	433	663	---	503
23	402	---	288	331	249	218	428	---	424	694	624	553
24	430	336	337	343	275	---	447	308	414	---	640	569
25	461	357	354	---	283	260	---	334	461	714	666	---
26	---	393	354	303	293	262	476	335	493	---	661	---
27	481	384	339	191	302	254	477	410	---	648	676	555
28	482	404	---	137	307	---	473	416	548	658	---	384
29	490	412	287	157	---	290	499	441	563	683	---	234
30	497	---	282	181	---	295	498	---	589	613	617	258
31	489	---	280	220	---	285	---	320	---	625	588	---
MONTH	479	355	357	231	244	293	394	400	411	610	---	---
YEAR	MAX	714	MIN	94	MEAN	401						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---			---				---	24.5	---	---
2		---			---				---	23.5	22.0	20.5
3		---			---				---	21.0	22.5	21.5
4		---			---				---	---	23.0	21.5
5		---			---				---	22.0	24.0	---
6		---			---				---	21.0	24.0	---
7		---			---				---	22.0	---	21.0
8		---			---				---	22.0	---	---
9		---			---				---	23.5	22.0	22.0
10		---			---				---	24.0	22.5	22.0
11		---			---				---	---	23.5	20.0
12		16.0			5.0				---	25.5	---	---
13		---			---				---	25.5	24.5	19.5
14		---			---				---	25.0	24.0	---
15		---			---				---	26.0	24.0	20.0
16		---			---				---	---	24.0	19.0
17		---			---				---	25.0	---	18.0
18		---			---				---	23.0	23.0	---
19		---			---				---	25.0	23.0	---
20		---			---				---	26.0	23.0	19.0
21		---			---				---	26.5	23.0	---
22		---			---				---	26.0	---	16.0
23		---			---				24.0	27.0	24.0	17.0
24		---			---				24.0	---	24.5	18.0
25		6.0			---				22.5	27.0	24.0	---
26		---			---				24.0	---	25.5	---
27		---			---				---	26.0	24.5	18.5
28		---			---				27.0	25.0	---	17.0
29		---			---				27.0	25.0	---	17.0
30		---			---				24.0	24.5	22.5	16.0
31		---			---				---	25.0	21.5	---
MONTH		---			---				---	24.5	---	---

GUYANDOTTE RIVER BASIN

03202400 GUYANDOTTE RIVER NEAR BAILEYSVILLE, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	110	20	5.9	93	11	2.8	107	1	.29
2	104	17	4.8	90	11	2.7	102	1	.28
3	93	14	3.5	90	10	2.4	99	1	.27
4	82	14	3.1	82	6	1.3	96	3	.78
5	80	15	3.2	88	3	.71	90	3	.73
6	80	12	2.6	82	6	1.3	93	3	.75
7	82	9	2.0	88	10	2.4	113	3	.92
8	93	12	3.0	110	12	3.6	125	4	1.4
9	122	16	5.3	113	12	3.7	119	9	2.9
10	107	16	4.6	107	13	3.8	143	5	1.9
11	96	20	5.2	134	13	4.7	143	5	1.9
12	93	19	4.8	423	152	292	137	4	1.5
13	88	17	4.0	1070	224	647	137	5	1.8
14	80	12	2.6	580	80	125	137	4	1.5
15	80	7	1.5	355	23	22	137	6	2.2
16	80	6	1.3	275	13	9.7	226	22	13
17	137	20	7.4	254	8	5.5	311	35	29
18	222	30	18	236	8	5.1	291	12	9.4
19	191	24	12	212	7	4.0	212	4	2.3
20	155	17	7.1	201	5	2.7	180	3	1.5
21	134	13	4.7	194	8	4.2	198	3	1.6
22	116	9	2.8	180	6	2.9	167	3	1.4
23	102	9	2.5	155	4	1.7	125	3	1.0
24	93	8	2.0	140	3	1.1	100	4	1.1
25	88	12	2.9	134	2	.72	149	7	2.8
26	93	12	3.0	131	2	.71	170	9	4.1
27	99	10	2.7	125	2	1.4	191	6	3.1
28	50	13	3.2	122	2	.66	177	5	2.4
29	88	8	1.9	110	1	.30	170	4	1.8
30	93	8	2.0	104	1	.28	184	9	4.5
31	104	9	2.5	---	---	---	428	176	492
TOTAL	3275	---	132.1	6078	---	1156.38	5057	---	590.12

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3960	1080	12900	505	13	18	409	6	6.6
2	1390	140	525	530	22	31	382	4	4.1
3	1040	55	154	465	8	10	346	3	2.8
4	1250	27	91	436	4	4.7	319	28	24
5	892	20	48	428	4	4.6	299	36	29
6	630	15	26	620	24	46	319	27	23
7	500	12	16	832	50	112	275	19	14
8	500	13	18	706	19	36	258	16	11
9	346	16	15	580	6	9.4	387	177	239
10	264	21	15	480	5	6.5	1050	222	629
11	180	15	7.3	485	11	14	946	37	95
12	324	11	9.6	465	16	20	718	21	41
13	303	14	11	455	7	8.6	605	13	21
14	615	63	112	675	46	89	495	10	13
15	655	47	83	814	36	79	428	8	9.2
16	550	16	24	712	20	38	432	19	22
17	465	6	7.5	1270	257	1470	485	21	27
18	337	5	4.5	2700	434	3160	423	17	19
19	210	4	2.3	2830	408	3330	432	13	15
20	319	5	4.3	1640	77	341	423	10	11
21	271	3	2.2	1100	70	208	530	22	31
22	261	4	2.8	952	34	87	690	37	69
23	240	8	5.2	814	26	57	665	18	32
24	258	9	6.3	700	18	34	575	11	17
25	324	16	14	665	15	27	565	14	21
26	480	31	40	610	14	23	580	17	27
27	1200	142	529	555	8	12	570	16	25
28	1420	90	345	495	11	15	510	13	18
29	970	36	94	450	9	11	455	11	14
30	706	16	30	---	---	---	500	15	20
31	565	12	18	---	---	---	480	17	22
TOTAL	21425	---	15160.0	23969	---	9301.8	15551	---	1551.7

GUYANDOTTE RIVER BASIN

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03202400 GUYANDOTTE RIVER NEAR BAILEYSVILLE, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	862	111	271	143	9	3.5	262	167	118
2	940	58	147	173	14	6.5	264	67	48
3	742	28	56	152	14	5.7	241	47	31
4	615	18	30	146	13	5.1	206	35	19
5	525	14	20	131	19	6.7	172	25	12
6	450	11	13	128	11	3.8	152	23	9.4
7	400	7	7.6	128	11	3.8	136	18	6.6
8	360	11	11	128	10	3.5	129	17	5.9
9	319	8	6.9	117	7	2.2	118	13	4.1
10	291	8	6.3	109	9	2.6	110	23	6.8
11	279	7	5.3	131	14	5.0	101	18	4.9
12	264	6	4.3	170	21	9.6	96	16	4.1
13	250	7	4.7	137	12	4.4	115	65	26
14	240	17	11	127	8	2.7	369	394	409
15	229	11	6.8	138	11	4.1	404	277	317
16	215	10	5.8	244	32	21	221	88	53
17	212	10	5.7	226	23	14	184	57	28
18	194	9	4.7	356	57	71	149	46	19
19	184	8	4.0	642	137	237	132	37	13
20	184	11	5.5	456	49	60	154	37	15
21	198	12	6.4	320	25	22	187	50	25
22	201	11	6.0	257	19	13	211	59	34
23	180	13	6.3	218	16	9.4	200	41	22
24	173	10	4.7	180	12	5.8	155	8	3.3
25	167	10	4.5	172	15	7.0	140	6	2.3
26	161	12	5.2	157	19	8.1	162	7	3.1
27	158	12	5.1	147	13	5.2	145	7	2.7
28	152	8	3.3	136	8	2.9	121	18	5.9
29	146	8	3.2	136	10	3.7	109	26	7.7
30	140	10	3.8	210	173	113	104	22	6.2
31	---	---	---	221	206	123	---	---	---
TOTAL	9431	---	675.1	6136	---	785.3	5249	---	1262.0
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	102	13	3.6	191	107	55	46	17	2.1
2	90	12	2.9	161	90	39	51	30	4.1
3	85	11	2.5	104	120	34	78	37	7.8
4	161	20	8.7	85	74	17	61	11	1.8
5	131	14	5.0	74	42	8.4	51	10	1.4
6	116	10	3.1	71	34	6.5	44	12	1.4
7	177	10	4.8	82	34	7.5	39	14	1.5
8	167	11	5.0	85	32	7.3	39	13	1.4
9	155	13	5.4	63	30	5.1	39	13	1.4
10	137	39	14	59	23	3.7	93	58	31
11	116	56	18	59	17	2.7	152	116	48
12	96	45	12	54	14	2.0	71	101	19
13	93	37	9.3	54	13	1.9	51	124	17
14	85	26	6.0	58	29	4.5	43	109	13
15	78	23	4.8	63	29	4.9	71	93	18
16	99	34	9.1	90	32	7.8	177	152	73
17	107	24	6.9	88	34	8.1	157	126	53
18	104	31	8.7	67	29	5.2	101	71	19
19	88	22	5.2	59	23	3.7	81	61	13
20	76	23	4.7	52	21	2.9	70	52	9.8
21	67	21	3.8	47	17	2.2	61	42	6.9
22	63	17	2.9	46	16	2.0	54	33	4.8
23	61	27	4.4	43	16	1.9	49	31	4.1
24	59	32	5.1	41	15	1.7	43	29	3.4
25	88	31	7.4	41	18	2.0	43	38	4.4
26	80	19	4.1	49	12	1.6	50	86	12
27	67	22	4.0	58	20	3.1	85	155	36
28	65	20	3.5	69	24	4.5	428	395	462
29	61	14	2.3	78	23	4.8	212	205	117
30	88	115	30	61	22	3.6	212	107	61
31	146	69	27	51	16	2.2	---	---	---
TOTAL	3108	---	234.2	2203	---	256.8	2752	---	1048.3
YEAR 104234.0			32153.80						

03202400 GUYANDOTTE RIVER NEAR BAILEYSVILLE, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Feb 12	1230	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	8	4	
		Melosira	8	4	
		Pennales			
		Achnantheaceae			
		Achnanthes	32	17	
		Diatomaceae			
		Diatoma	24	13	
		Fragilariaceae			
		Synedra	8	4	
		Gomphonemataceae			
		Gomphonema		<1	
		Naviculaceae			
		Navicula	63	35	
		Pinnularia		<1	
		Nitzschiaceae			
		Nitzschia	32	17	
		Surirellaceae			
		Surirella	8	4	
		Rhoicosphenia		<1	
		TOTAL	180		

GUYANDOTTE RIVER BASIN

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03202480 BRIER CREEK AT FANROCK, WV
(Formerly published as Briar Creek at Fanrock)

LOCATION.--Lat 37°33'50", long 81°39'16", Wyoming County, Hydrologic Unit 05070101, 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. Prior to October 1975, published as Briar Creek at Fanrock.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 1,220 ft (372 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--7 years, 10.7 ft³/s (0.303 m³/s), 20.18 in/yr (513 mm/yr).

EXTREMES FOR 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 180 ft³/s (5.10 m³/s) on basis of step-backwater method; minimum daily, 0.06 ft³/s (0.002 m³/s) Oct. 22-31, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 174 ft³/s (4.93 m³/s) Jan. 1, gage height, 3.72 ft (1.134 m), no other peak above base of 150 ft³/s (4.2 m³/s); minimum daily, 0.11 ft³/s (0.003 m³/s) Aug. 14, Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.4	1.1	91	11	6.9	14	1.6	1.0	.42	.93	.28
2	1.0	1.1	1.1	27	11	6.1	15	1.6	1.0	.34	.39	.45
3	.93	1.0	1.1	27	11	5.6	14	1.4	1.0	.53	.28	.36
4	.83	1.0	1.0	32	10	5.1	12	1.1	.74	.74	.20	.32
5	.74	1.2	1.0	19	9.9	4.8	10	1.0	.68	.49	.18	.28
6	.74	1.2	1.0	13	12	4.6	8.6	1.0	.63	.74	.22	.20
7	.74	1.8	1.2	10	12	3.8	7.3	1.0	.58	.93	.45	.13
8	1.6	3.3	1.6	9.9	12	3.8	6.0	1.0	.53	.53	.32	.12
9	1.6	2.8	1.8	8.0	11	14	5.4	.83	.49	.58	.26	.11
10	1.0	3.3	2.8	5.0	8.7	34	4.9	.83	.45	.49	.20	.45
11	1.1	4.7	2.8	7.2	9.1	24	4.8	3.1	.42	.42	.15	.36
12	1.1	62	2.8	6.9	7.6	15	4.5	2.1	.39	.39	.16	.28
13	1.0	32	2.8	7.6	6.9	12	4.0	1.2	.53	.36	.13	.24
14	1.0	11	2.3	14	8.3	9.3	3.8	1.1	.83	.34	.11	.18
15	1.0	7.2	2.6	14	8.7	8.0	3.6	2.1	1.2	.32	.24	.93
16	1.4	6.6	5.7	13	9.1	8.2	3.3	2.3	.49	.42	.49	.53
17	3.8	5.7	6.0	11	41	8.5	3.2	1.6	.42	.49	.30	.42
18	4.7	5.0	5.7	9.5	80	7.9	2.8	2.3	.36	.36	.18	.39
19	3.1	4.1	4.1	8.7	71	7.2	2.8	2.8	.36	.32	.15	.39
20	2.3	3.8	3.8	6.6	29	7.0	2.6	2.1	.63	.30	.13	.36
21	1.8	3.8	3.6	5.3	17	10	2.9	1.6	.68	.26	.13	.39
22	1.6	3.6	2.8	4.5	15	12	2.7	1.4	.63	.28	.13	.36
23	1.2	2.8	1.8	4.5	13	12	2.4	1.2	.53	.30	.13	.32
24	1.2	2.6	1.2	6.3	11	11	2.0	1.1	.49	.58	.13	.30
25	1.0	2.6	1.8	8.3	11	10	2.0	.93	.68	.68	.13	.28
26	1.0	2.1	4.7	11	10	10	2.1	.93	.93	.32	.13	.49
27	1.0	1.8	4.7	26	9.9	10	1.9	.83	.53	.24	.24	2.3
28	1.0	1.6	4.4	30	8.9	9.5	1.6	.74	.45	.22	.58	3.3
29	1.0	1.4	4.1	20	7.9	8.4	1.5	.74	.39	.30	.49	.83
30	2.1	1.2	4.4	14	---	9.9	1.4	.83	.39	2.8	.30	3.8
31	1.6	---	29	11	---	10	---	.93	---	1.0	.28	---
TOTAL	44.78	183.7	114.8	481.3	483.0	308.6	153.1	43.29	18.43	16.49	8.14	19.15
MEAN	1.44	6.12	3.70	15.5	16.7	9.95	5.10	1.40	.61	.53	.26	.64
MAX	4.7	62	29	91	80	34	15	3.1	1.2	2.8	.93	3.8
MIN	.74	1.0	1.0	4.5	6.9	3.8	1.4	.74	.36	.22	.11	.11
CFSM	.20	.85	.51	2.15	2.32	1.38	.71	.19	.08	.07	.04	.09
IN.	.23	.95	.59	2.49	2.50	1.59	.79	.22	.10	.09	.04	.10

CAL YR 1975 TOTAL 4703.53 MEAN 12.9 MAX 259 MIN .36 CFSM 1.79 IN 24.30
WTR YR 1976 TOTAL 1874.78 MEAN 5.12 MAX 91 MIN .11 CFSM .71 IN 9.69

GUYANDOTTE RIVER BASIN

03202490 INDIAN CREEK AT FANROCK, WV

LOCATION.--Lat 37°34'00", long 81°39'10", Wyoming County, Hydrologic Unit 05070101, on left bank at Fanrock, 20 ft (6 m) downstream from Brier Creek, 1.8 mi (2.9 km) downstream from Stop Branch, and at mile 2.5 (4.0 km).

DRAINAGE AREA.--40.7 mi² (105.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,210 ft (369 m), from topographic map. Prior to Oct. 22, 1974, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,500 ft³/s (42.5 m³/s) Mar. 14, 1975, gage height, 13.66 ft (4.164 m), from rating curve extended above 700 ft³/s (19.8 m³/s); minimum, 1.1 ft³/s (0.03 m³/s) July 22, 23, 24, Aug. 12, 13, 14, 1976, gage height, 6.54 ft (1.993 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 728 ft³/s (20.6 m³/s) Jan. 1, gage height, 11.07 ft (3.374 m), no other peak above base of 500 ft³/s (14 m³/s); minimum, 1.1 ft³/s (0.03 m³/s) July 22, 23, 24, Aug. 12, 13, 14, gage height, 6.54 ft (1.993 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	18	7.2	528	60	39	144	6.2	9.6	2.0	6.2	1.5
2	4.5	18	6.5	191	60	31	156	6.2	7.9	1.8	3.1	2.3
3	4.0	16	6.0	167	55	28	103	6.5	7.6	2.0	2.0	3.3
4	3.4	15	5.6	220	50	24	82	6.2	5.8	5.2	1.7	2.3
5	3.1	14	5.4	130	50	23	62	5.6	4.3	2.7	1.5	1.7
6	3.0	13	5.2	82	71	24	50	5.4	3.7	3.0	1.4	1.6
7	3.0	15	11	63	82	18	43	5.6	3.4	6.9	2.1	1.4
8	3.8	23	10	57	77	18	38	5.8	3.3	3.3	1.8	1.3
9	9.3	20	12	34	59	63	35	4.9	3.0	5.4	1.6	1.3
10	4.9	23	15	22	45	224	26	4.3	2.8	3.4	1.4	1.4
11	4.5	28	16	35	46	170	24	14	2.7	2.3	1.3	6.0
12	4.1	167	16	36	35	108	22	14	2.6	1.8	1.2	2.3
13	3.8	191	15	36	37	86	19	8.6	16	1.7	1.2	1.7
14	3.5	79	14	76	45	62	18	7.6	38	1.6	1.2	1.4
15	4.3	47	14	82	47	54	16	12	59	1.4	1.5	1.8
16	7.2	38	32	76	51	52	16	31	17	1.4	2.7	16
17	22	31	39	62	170	55	16	25	9.3	1.8	2.1	5.8
18	31	26	38	40	362	51	15	29	4.9	1.7	1.6	4.0
19	24	23	26	34	411	53	15	40	3.4	1.4	1.4	3.1
20	21	20	22	36	244	55	13	36	6.5	1.3	1.3	2.7
21	18	21	22	29	141	62	13	26	6.5	1.3	1.3	2.6
22	15	16	16	26	108	75	12	20	5.2	1.2	1.3	2.7
23	14	12	10	22	87	85	11	15	4.3	1.2	1.4	2.4
24	13	11	7.0	31	71	81	10	13	3.1	1.8	1.3	2.3
25	13	10	13	41	67	72	8.9	10	3.5	1.4	1.4	2.3
26	14	9.3	25	60	65	77	8.6	8.6	8.9	2.5	1.3	2.8
27	16	8.6	26	200	59	81	7.9	6.9	4.5	1.6	3.1	17
28	14	8.2	26	233	50	72	7.6	6.0	3.0	1.4	11	44
29	13	6.9	25	140	45	60	6.9	6.2	2.3	1.4	5.4	16
30	19	6.5	30	90	---	69	6.2	8.2	2.2	15	2.4	31
31	19	---	130	66	---	84	---	6.9	---	15	1.7	---
TOTAL	336.4	934.8	645.9	2945	2750	2056	1005.1	400.7	254.3	108.5	69.9	214.8
MEAN	10.9	31.2	20.8	95.0	94.8	66.3	33.5	12.9	8.48	3.50	2.25	7.16
MAX	31	191	130	528	411	224	156	40	59	15	11	44
MIN	3.0	6.5	5.2	22	35	18	6.2	4.3	2.2	1.2	1.2	1.3
CFSM	.27	.77	.51	2.33	2.33	1.63	.82	.32	.21	.09	.06	.18
IN.	.31	.85	.59	2.69	2.51	1.88	.92	.37	.23	.10	.06	.20
CAL YR 1975	TOTAL	27186.9	MEAN	74.5	MAX	1110	MIN	2.0	CFSM	1.83	IN	24.85
WTR YR 1976	TOTAL	11721.4	MEAN	32.0	MAX	528	MIN	1.2	CFSM	.79	IN	10.71

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD. - -

SPECIFIC CONDUCTANCE: June 1974 to current year.
WATER TEMPERATURES: November 1974 to March 1975, August 1975 to current year.
SUSPENDED-SEDIMENT DISCHARGE: June 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 349 micromhos July 20, 1976; minimum daily, 42 micromhos Jan. 1, 1976.
WATER TEMPERATURES: Maximum, 26.0°C Aug. 24, 1975; minimum, 0.0°C Dec. 1, 1974, Jan. 15, 1975, Jan. 7, 15,
17, 21, 24, 1976.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 521 mg/L June 20, 1976; minimum daily mean, 1 mg/L Oct. 8, 1974,
and on several days during 1976.
SEDIMENT LOADS: Maximum daily, 622 tons (564 tonnes) Mar. 29, 1975; minimum daily, 0 ton (0 tonne) Oct. 8, 1974.

EXTREMES FOR CURRENT YEAR. - -

SPECIFIC CONDUCTANCE: Maximum daily, 349 micromhos July 20; minimum daily, 42 micromhos Jan. 1.
WATER TEMPERATURES: Maximum, 25.0°C July 24, 29, 31; minimum, 0.0°C Jan. 7, 15, 17, 21, 24.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 521 mg/L June 20; minimum daily mean, 1 mg/L on several days.
SEDIMENT LOADS: Maximum daily, 235 tons (213 tonnes) Jan. 1; minimum daily, 0.01 ton (0.009 tonne) Dec. 5, 6.

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	HARD-NESS (CA+MG)
SEP , 1975											
30...	1630	6.8	120	7.8	16.5	10	6.9	2.8	11	500	--
OCT											
20...	1700	12	200	7.6	12.0	--	--	--	--	--	--
DEC											
08...	1630	11	170	7.9	7.0	--	--	--	--	--	--
JAN , 1976											
21...	1530	31	110	7.5	.0	--	--	--	--	--	--
FEB											
26...	1655	62	100	7.4	10.0	--	--	--	--	--	--
APR											
07...	1800	38	120	7.4	12.5	--	--	--	--	--	--
MAY											
19...	1420	40	--	--	13.5	--	--	--	--	--	--
25...	0930	12	80	8.0	15.0	3	8.8	--	1800	0	20
JUN											
30...	1345	2.0	140	6.4	21.0	--	5.6	--	--	--	--
AUG											
11...	1500	1.2	225	7.7	21.0	--	7.1	--	--	--	--
SEP											
16...	1430	10	--	--	18.0	--	--	--	--	--	--

[illegible]

GUYANDOTTE RIVER BASIN

03202490 INDIAN CREEK AT FANROCK, WV--Continued

WATER QUALITY DATA

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE PLUS NITRITE (N) (MG/L)
SEP , 1975										
30...	1.1	--	--	--	83	--	2	--	--	--
OCT										
20...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
JAN , 1976										
21...	--	--	--	--	--	--	--	--	--	--
FEB										
26...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	--	--	--	--	--	--	--	--	--	--
25...	.5	8.4	2.9	6.7	--	47	--	.11	.01	.12
JUN										
30...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	--	--	--	--	--	--	--	--	--	--
SEP										
16...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	TOTAL HYDRO- LYZABLE PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)
SEP , 1975										
30...	.02	.40	.42	.03	.01	--	--	.01	.01	--
OCT										
20...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
JAN , 1976										
21...	--	--	--	--	--	--	--	--	--	--
FEB										
26...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
MAY										
19...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	.01	.03	--	--	20
JUN										
30...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	--	--	--	--	--	--	--	--	--	--
SEP										
16...	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
SEP , 1975							
30...	380	30	--	--	2.6	17	--
MAY , 1976							
25...	700	220	50	50	--	10	.32

GUYANDOTTE RIVER BASIN

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03202490 INDIAN CREEK AT FANROCK, WV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	110	---	42	73	93	64	147	115	200	184	157
2	120	126	---	44	---	93	73	122	128	219	140	151
3	120	---	---	51	72	100	72	106	136	222	228	146
4	145	104	107	44	71	100	73	132	210	196	278	156
5	175	110	113	53	76	---	73	119	181	210	185	155
6	128	111	114	56	76	98	---	109	184	211	---	155
7	156	110	109	64	62	110	82	149	186	196	---	200
8	---	109	100	---	64	101	85	130	162	242	154	207
9	---	121	95	---	74	74	---	136	183	224	155	215
10	---	---	81	78	71	50	---	126	194	240	200	94
11	118	97	84	---	---	56	110	114	162	240	184	151
12	127	56	---	78	82	70	108	99	167	274	208	105
13	152	51	77	77	81	---	114	100	174	253	215	---
14	141	71	78	62	81	76	108	---	114	235	159	132
15	---	70	---	51	68	83	102	132	79	240	158	142
16	---	71	71	52	74	77	98	---	91	241	153	92
17	---	77	62	---	63	75	96	120	98	298	158	---
18	---	82	---	63	59	84	98	102	113	327	206	95
19	103	75	---	---	71	76	101	74	137	---	226	156
20	---	---	---	---	58	---	123	---	167	349	---	130
21	---	76	---	71	83	77	109	82	126	345	220	138
22	---	---	---	---	74	---	117	91	118	249	215	152
23	96	---	---	---	79	72	114	100	145	228	222	205
24	108	102	---	90	76	65	106	94	166	233	234	200
25	---	92	---	81	80	69	116	81	180	231	223	157
26	---	96	---	75	78	69	128	86	170	226	158	154
27	111	100	71	61	81	65	129	---	162	231	152	150
28	---	93	69	54	87	64	128	94	173	227	124	104
29	---	109	69	53	85	73	104	95	---	337	---	93
30	---	108	77	61	---	77	114	93	201	190	135	101
31	120	---	62	69	---	66	---	96	---	159	149	---
MONTH	---	93	---	---	74	78	102	108	152	242	188	146
YEAR	MAX	349	MIN	42	MEAN	125						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	17.0	10.5	9.0	7.5	7.0	7.0	6.0	6.0	4.5	12.0	8.0
2	18.0	16.0	10.5	9.0	7.5	6.5	7.0	5.5	4.0	1.0	13.5	8.5
3	16.0	14.5	11.0	9.5	7.0	6.5	7.0	5.5	3.0	0.5	15.5	10.5
4	15.0	13.0	11.5	10.0	6.5	6.0	5.5	2.5	4.0	1.5	16.0	11.5
5	14.5	13.5	12.0	10.5	6.0	6.0	2.5	5.0	6.5	3.5	14.5	11.5
6	15.0	14.0	13.0	11.5	6.5	6.0	---	---	7.0	4.0	13.5	8.0
7	15.5	14.5	13.0	12.0	7.0	6.5	2.5	0.0	4.0	2.0	8.0	5.0
8	15.5	15.0	14.0	12.5	7.0	7.0	3.0	0.5	3.0	1.0	8.0	4.5
9	16.0	15.5	14.0	13.0	7.5	7.0	---	---	5.0	2.5	8.5	7.0
10	16.5	15.5	14.5	13.5	7.5	7.0	---	---	7.0	3.0	10.0	8.5
11	17.5	16.5	13.5	12.0	7.0	6.0	---	---	9.0	6.5	10.5	9.5
12	17.0	15.5	13.0	12.0	6.0	5.5	---	---	7.0	4.5	11.0	10.0
13	16.0	14.5	13.0	12.0	5.5	5.5	---	---	9.5	6.5	11.0	10.5
14	15.5	14.0	12.0	10.5	5.5	5.5	3.0	1.5	11.0	9.0	10.5	9.0
15	15.5	14.5	10.5	9.5	6.5	5.5	2.0	0.0	10.5	7.5	9.5	7.5
16	15.5	15.5	9.5	8.5	7.5	6.5	2.5	1.0	13.0	10.5	9.0	8.5
17	15.5	15.5	8.5	8.5	7.5	6.5	2.5	0.0	13.0	11.0	8.5	6.0
18	15.5	14.5	8.5	8.5	6.5	5.0	---	---	11.0	10.5	8.5	5.0
19	14.5	13.0	8.5	8.0	5.0	4.0	---	---	11.0	10.0	10.0	7.5
20	13.0	12.0	8.5	8.0	4.0	3.5	---	---	10.5	9.0	12.0	9.5
21	12.0	11.0	9.0	8.5	3.5	3.5	5.0	0.0	10.5	9.0	12.5	12.0
22	12.5	11.0	9.0	8.5	3.5	3.0	---	---	11.0	10.0	12.5	10.5
23	12.5	11.0	8.5	8.0	3.0	3.0	---	---	10.0	8.5	11.0	9.0
24	12.5	11.0	8.0	7.0	3.0	2.5	4.5	0.0	9.0	7.5	11.0	9.5
25	13.0	11.0	7.5	7.0	2.5	2.5	4.5	1.5	10.0	8.0	11.0	11.0
26	13.0	12.5	7.5	7.0	3.0	2.5	6.5	4.5	10.5	9.5	13.0	10.5
27	13.5	12.5	7.5	7.0	3.0	3.0	6.5	4.0	10.5	9.5	13.5	13.0
28	14.0	13.0	7.0	7.0	3.5	3.0	4.0	3.0	10.0	8.5	13.5	11.5
29	14.5	13.5	7.0	6.5	4.0	3.5	4.5	4.0	10.5	8.5	13.0	11.5
30	14.5	12.0	7.0	6.5	5.0	4.0	4.0	3.5	---	---	14.5	11.0
31	12.0	10.5	---	---	6.0	5.0	6.0	4.0	---	---	15.0	14.0
MONTH	18.0	10.5	14.5	6.5	7.5	2.5	---	---	13.0	0.5	16.0	4.5
APRIL			MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.0	15.5	12.5	21.0	17.0	20.0	17.5	23.5	21.0	19.0	17.5
2	12.0	10.5	17.0	12.5	19.5	18.5	19.5	16.5	22.0	19.5	19.0	18.5
3	12.5	10.0	15.0	12.0	18.5	17.0	18.5	17.5	21.5	18.0	20.0	18.0
4	12.5	11.5	14.5	9.5	18.0	15.5	19.5	17.5	22.0	18.0	20.0	18.5
5	12.5	10.5	16.5	8.0	17.0	13.0	20.5	17.0	23.5	19.5	20.0	19.5
6	12.5	10.5	18.0	12.5	17.5	13.5	20.5	18.0	24.5	21.0	19.5	18.5
7	12.5	10.0	17.5	14.5	18.5	13.0	21.0	18.0	24.5	22.5	19.0	17.0
8	13.0	8.5	16.0	11.0	19.5	14.5	21.5	18.0	23.5	21.5	19.0	18.0
9	10.5	6.5	16.0	8.5	20.0	15.5	21.5	19.5	22.5	20.5	20.0	18.5
10	11.5	4.5	17.5	9.5	20.5	16.0	22.0	18.0	23.5	21.0	20.0	17.5
11	9.0	5.5	17.0	13.5	21.0	16.5	23.5	19.5	22.0	20.5	17.5	15.0
12	10.0	4.0	17.5	14.0	22.5	18.0	23.5	21.5	22.0	21.5	17.5	14.5
13	10.5	3.5	19.0	11.0	22.0	19.0	21.5	18.5	22.0	21.5	17.5	15.5
14	12.5	5.5	21.0	15.5	22.5	20.0	21.0	17.0	22.5	22.0	17.5	16.5
15	15.5	7.5	20.0	18.0	21.0	18.5	24.0	19.5	23.5	22.5	17.5	17.0
16	17.5	10.5	19.0	18.0	21.5	19.0	22.5	21.0	24.0	22.5	18.0	17.5
17	19.0	12.5	19.0	17.5	21.5	19.0	21.5	19.0	23.0	21.5	18.5	18.0
18	19.5	13.5	18.5	15.5	22.5	19.0	20.0	16.5	22.0	20.0	19.5	18.0
19	20.0	13.5	15.5	13.5	21.5	20.0	21.5	16.5	21.5	20.0	20.0	18.5
20	20.0	14.5	16.0	13.5	21.5	20.0	23.0	19.0	21.0	19.5	19.5	18.5
21	21.0	16.5	17.5	14.5	21.0	19.0	23.5	20.5	20.0	19.5	19.5	18.0
22	20.0	17.0	19.5	16.0	21.0	18.5	23.5	20.5	20.5	20.0	18.0	16.5
23	19.5	13.0	19.0	14.5	21.5	18.5	24.5	22.0	22.5	20.5	16.5	15.0
24	20.0	13.5	17.5	14.0	22.0	19.0	25.0	21.5	23.0	22.0	16.5	15.5
25	19.5	16.5	17.0	13.0	22.0	19.5	23.0	21.0	23.0	22.0	17.5	16.5
26	16.0	11.5	16.0	11.5	22.5	20.5	23.0	18.5	24.0	22.5	18.0	17.0
27	12.0	8.0	17.5	11.5	22.5	20.0	24.5	20.5	23.0	22.5	18.5	17.5
28	13.0	6.5	17.0	14.5	22.5	19.5	24.5	22.0	22.5	22.0	18.0	17.0
29	14.0	7.0	19.5	16.0	23.0	20.0	25.0	22.5	22.5	22.0	18.0	16.5
30	16.0	8.0	19.5	16.5	22.0	20.5	24.0	23.0	22.0	19.5	17.5	15.5
31	---	---	20.0	16.5	---	---	25.0	23.0	20.0	17.5	---	---
MONTH	21.0	3.5	21.0	8.0	23.0	13.0	25.0	16.5	24.5	17.5	20.0	14.5
YEAR	25.0	0.0										

GUYANDOTTE RIVER BASIN

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03202490 INDIAN CREEK AT FANROCK, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.0	9	.10	18	5	.24	7.2	4	.08
2	4.5	8	.10	18	6	.29	6.5	4	.07
3	4.0	4	.04	16	6	.26	6.0	3	.05
4	3.4	6	.06	15	8	.32	5.6	1	.02
5	3.1	4	.03	14	5	.19	5.4	1	.01
6	3.0	3	.02	13	4	.14	5.2	1	.01
7	3.0	3	.02	15	6	.24	11	2	.06
8	3.8	10	.61	23	42	2.6	10	5	.14
9	9.3	14	.42	20	21	1.1	12	6	.19
10	4.9	8	.11	23	24	1.5	15	4	.16
11	4.5	21	.26	28	9	.68	16	3	.13
12	4.1	11	.12	167	104	79	16	3	.13
13	3.8	4	.04	191	61	31	15	8	.32
14	3.5	3	.03	79	15	3.2	14	6	.23
15	4.3	9	.39	47	5	.63	14	9	1.1
16	7.2	12	.23	38	5	.51	32	34	3.6
17	22	41	2.6	31	4	.33	39	4	.42
18	31	11	.92	26	3	.21	38	3	.31
19	24	5	.32	23	3	.19	26	13	.91
20	21	5	.28	20	4	.22	22	14	.83
21	18	5	.24	21	5	.28	22	10	.59
22	15	4	.16	16	5	.22	16	8	.35
23	14	4	.15	12	6	.19	10	11	.30
24	13	3	.11	11	10	.30	7.0	15	.28
25	13	2	.07	10	4	.11	13	15	.53
26	14	2	.08	9.3	2	.05	25	19	1.3
27	16	2	.09	8.9	1	.02	26	6	.42
28	14	3	.11	8.2	1	.02	26	3	.21
29	13	4	.14	6.9	1	.02	25	2	.14
30	19	11	.56	6.5	2	.04	30	12	.97
31	19	5	.26	---	---	---	130	95	69
TOTAL	336.4	---	8.67	934.8	---	124.10	645.9	---	82.86
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	528	142	235	60	14	2.6	39	5	.53
2	191	16	8.3	60	13	2.1	31	5	.42
3	167	29	13	55	5	.74	28	3	.23
4	220	32	19	50	4	.54	24	3	.19
5	130	22	7.7	50	2	.27	23	5	.31
6	82	11	2.4	71	22	4.5	24	6	.39
7	63	7	1.2	82	3	.66	18	4	.19
8	57	8	1.2	77	16	3.3	18	3	.15
9	34	7	.64	59	17	2.7	63	105	33
10	22	7	.42	45	12	1.5	224	140	80
11	35	5	.47	46	12	1.5	170	27	12
12	36	3	.29	35	1	.09	108	15	4.4
13	36	4	.39	37	17	1.9	86	12	2.8
14	76	32	6.4	45	37	4.5	62	12	2.0
15	82	3	.66	47	7	.89	54	5	.73
16	76	1	.21	51	9	1.2	52	6	.84
17	62	1	.17	170	269	189	55	5	.74
18	40	2	.22	362	204	199	51	1	.14
19	34	8	.73	411	92	102	53	2	.29
20	36	4	.39	244	33	22	55	6	.89
21	29	3	.23	141	19	7.2	62	37	6.2
22	26	3	.21	108	18	5.2	75	7	1.4
23	22	3	.18	87	11	2.6	85	6	1.4
24	31	2	.17	71	24	4.6	81	10	2.2
25	41	3	.33	67	14	2.5	72	12	2.3
26	60	13	2.1	65	11	1.9	77	6	1.2
27	200	71	42	59	9	1.4	81	3	.66
28	233	38	24	50	5	.68	72	4	.78
29	140	15	5.7	45	4	.49	60	3	.49
30	90	4	.97	---	---	---	69	11	2.0
31	66	3	.53	---	---	---	84	104	26
TOTAL	2945	---	375.21	2750	---	567.56	2056	---	184.87

03202490 INDIAN CREEK AT FANROCK, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	144	125	49	6.2	11	.18	9.6	16	.41
2	156	16	6.7	6.2	10	.17	7.9	25	.53
3	103	7	1.9	6.5	16	.28	7.6	21	.43
4	82	5	1.1	6.2	12	.20	5.8	26	.41
5	62	6	1.0	5.6	9	.14	4.3	14	.16
6	50	8	1.1	5.4	7	.10	3.7	6	.06
7	43	14	1.6	5.6	11	.17	3.4	7	.06
8	38	7	.72	5.8	14	.22	3.3	8	.07
9	35	6	.57	4.9	12	.16	3.0	36	.29
10	26	5	.35	4.3	10	.12	2.8	5	.04
11	24	5	.32	14	52	2.4	2.7	16	.12
12	22	4	.24	14	41	1.5	2.6	5	.04
13	19	5	.26	8.6	21	.49	16	77	11
14	18	4	.19	7.6	13	.27	38	131	25
15	16	5	.22	12	35	1.8	59	120	21
16	16	6	.26	31	28	2.3	17	65	3.0
17	16	8	.35	25	16	1.1	9.3	43	1.1
18	15	5	.20	29	13	1.0	4.9	75	.99
19	15	13	.53	40	19	2.1	3.4	78	.72
20	13	17	.60	36	21	2.0	6.5	521	9.8
21	13	23	.81	26	21	1.5	6.5	67	1.2
22	12	11	.36	20	14	.76	5.2	24	.34
23	11	9	.27	15	11	.45	4.3	34	.39
24	10	12	.32	13	9	.32	3.1	27	.23
25	8.4	16	.38	10	10	.27	3.5	171	1.9
26	8.6	26	.60	8.6	13	.30	8.9	146	3.7
27	7.4	9	.19	6.9	15	.28	4.5	57	.69
28	7.0	7	.14	6.0	17	.28	3.0	115	.93
29	6.4	7	.13	6.2	23	.39	2.3	37	.23
30	6.2	9	.15	8.2	32	.71	2.2	22	.13
31	---	---	---	6.9	9	.17	---	---	---
TOTAL	1005.1	---	70.56	400.7	---	22.13	254.3	---	84.97
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.0	15	.08	6.2	184	3.1	1.5	32	.13
2	1.6	14	.07	3.1	71	.59	2.3	35	.22
3	2.0	30	.16	2.0	49	.26	3.3	33	.29
4	5.2	52	.73	1.7	19	.09	2.3	19	.12
5	2.7	30	.22	1.5	43	.21	1.7	15	.07
6	3.0	30	.34	1.4	32	.12	1.6	16	.07
7	0.4	56	1.0	2.1	35	.20	1.4	11	.04
8	3.3	47	.42	1.8	19	.09	1.3	9	.03
9	5.4	75	1.1	1.6	17	.07	1.3	14	.05
10	3.4	50	.46	1.4	12	.05	1.4	150	8.8
11	2.3	45	.28	1.3	18	.06	6.0	64	1.0
12	1.8	23	.11	1.2	9	.03	2.3	28	.17
13	1.7	18	.08	1.2	10	.03	1.7	24	.11
14	1.6	10	.04	1.2	10	.03	1.4	12	.05
15	1.4	15	.06	1.5	12	.05	1.8	120	9.5
16	1.4	69	.26	2.7	33	.24	16	170	7.3
17	1.8	12	.06	2.1	13	.07	5.8	48	.75
18	1.7	8	.04	1.6	8	.03	4.0	30	.32
19	1.4	7	.03	1.4	7	.03	3.1	14	.12
20	1.3	6	.02	1.3	10	.04	2.7	12	.09
21	1.3	13	.05	1.3	16	.06	2.6	16	.11
22	1.2	38	.12	1.3	29	.10	2.7	12	.09
23	1.2	48	.16	1.4	47	.18	2.4	7	.05
24	1.0	72	.35	1.3	15	.05	2.3	10	.06
25	1.4	77	2.9	1.4	7	.03	2.3	10	.06
26	2.5	58	.39	1.3	17	.06	2.8	32	.28
27	1.6	53	.23	3.1	105	1.6	17	179	12
28	1.4	45	.17	11	231	7.1	44	133	16
29	1.4	28	.11	5.4	204	3.0	16	42	1.8
30	15	433	31	2.4	154	1.0	31	107	9.0
31	15	470	19	1.7	65	.30	---	---	---
TOTAL	108.5	---	60.04	69.9	---	18.87	214.8	---	68.68
YEAR	11721.4		1668.52						

GUYANDOTTE RIVER BASIN

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03202750 CLEAR FORK AT CLEAR FORK, WV

LOCATION.--Lat 37°37'20", long 81°41'42", Wyoming County, Hydrologic Unit 05070101, on right bank 0.8 mi (1.3 km) southwest of Clear Fork, 1.0 mi (1.6 km) downstream from Laurel Branch, 1.0 mi (1.6 km) upstream from Cedar Creek, and at mile 4.0 (6.4 km).

DRAINAGE AREA.--123 mi² (319 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,160 ft (354 m), from topographic map. Prior to Oct. 22, 1974, nonrecording gage at same site and datum.

REMARKS.--Water-discharge records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft³/s (119 m³/s) Mar. 24, 1975, gage height, 14.58 ft (4.44 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s); minimum, 8.5 ft³/s (0.24 m³/s), Aug. 26, 1976, gage height, 7.25 ft (2.21 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft³/s (45 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Nov. 12	2200	1720 48.7	11.96 3.645	Feb. 18	0330	1790 50.7	12.05 3.673
Jan. 1	0630	*2470 70.0	12.90 3.932				

Minimum discharge, 8.5 ft³/s (0.24 m³/s) Aug. 26, gage height, 7.25 ft (2.21 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	32	53	1010	184	121	225	34	30	17	54	9.5
2	27	31	47	678	192	110	260	40	32	15	41	14
3	25	31	44	576	173	101	220	39	31	17	23	26
4	23	29	43	768	164	94	190	35	27	53	17	17
5	21	28	41	422	157	92	159	31	23	34	14	13
6	20	27	39	275	278	87	136	29	20	35	13	11
7	18	29	53	206	414	78	120	28	19	87	27	10
8	21	42	55	192	322	75	105	29	17	55	26	9.5
9	41	41	56	139	238	206	95	27	15	39	17	9.0
10	33	47	70	100	184	472	87	25	15	30	14	25
11	29	81	70	134	181	327	82	27	15	24	12	24
12	27	642	70	131	163	242	78	30	14	21	11	15
13	24	1050	68	137	164	200	68	27	15	18	11	12
14	22	360	66	696	436	159	64	23	104	16	11	11
15	21	211	68	512	492	139	61	24	66	14	40	16
16	23	194	245	325	336	155	59	50	39	17	42	38
17	175	194	305	238	660	159	58	48	34	18	24	24
18	218	184	213	170	1550	152	54	58	26	15	17	17
19	169	155	150	108	1270	161	52	96	22	14	14	17
20	92	131	126	147	612	164	49	85	31	13	12	14
21	70	124	110	126	309	381	49	67	36	12	11	13
22	56	105	92	115	305	508	49	55	60	11	11	13
23	49	89	68	40	248	333	46	47	33	11	11	13
24	43	81	50	123	206	245	43	42	28	11	10	12
25	39	77	70	194	196	218	42	38	23	14	9.2	11
26	38	71	107	339	186	184	42	34	23	17	8.7	11
27	39	67	134	588	170	166	41	30	24	13	9.2	30
28	35	61	137	612	147	148	38	27	20	11	11	154
29	33	54	128	340	134	139	35	26	17	11	19	68
30	36	49	124	280	---	145	33	28	17	24	16	128
31	34	---	241	213	---	148	---	28	---	36	11	---
TOTAL	1498	4317	3143	10834	10155	5909	2640	1207	876	723	567.1	785.0
MEAN	48.0	144	101	349	350	191	88.0	38.9	29.2	23.3	18.3	26.2
MAX	218	1050	305	1010	1550	508	260	96	104	87	54	154
MIN	18	27	39	90	134	75	33	23	14	11	8.7	9.0
CFSM	.39	1.17	.82	2.84	2.85	1.55	.72	.32	.24	.19	.15	.21
IN.	.45	1.31	.95	3.28	3.07	1.79	.80	.37	.26	.22	.17	.24

CAL YR 1975	TOTAL	95320.0	MEAN 261	MAX 3220	MIN 12	CFSM 2.12	IN 28.83
WTR YR 1976	TOTAL	42644.1	MEAN 117	MAX 1810	MIN 8.7	CFSM .95	IN 12.90

03202750 CLEAR FORK AT CLEAR FORK, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1974 to current year.

WATER TEMPERATURES: November 1974 to May 1975, October 1975 to September 1976.

SUSPENDED-SEDIMENT DISCHARGE: June 1974 to current year.

INSTRUMENTATION.--Temperature recorder since Nov. 20, 1974.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 916 micromhos July 27, 1976; minimum daily, 54 micromhos May 19, 1975.

WATER TEMPERATURES: Maximum, 28.5°C Aug. 26, 1976; minimum, 0.0°C Dec. 5, 1974, Dec. 19, 20, 23-25, 1975, Jan. 6, 9-12, 18-24, 1976.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,420 mg/L Nov. 12, 1975; minimum daily mean, 1 mg/L on several days each year.

SEDIMENT LOADS: Maximum daily, 6,160 tons (5,590 tonnes) Mar. 24, 1975; minimum daily, 0.04 ton (0.04 tonnes) Oct. 8-14, 1974.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 916 micromhos July 27; minimum daily, 100 micromhos Jan. 1.

WATER TEMPERATURES: Maximum, 28.5°C Aug. 26; minimum, 0.0°C Dec. 19, 20, 23-25, Jan. 6, 9-12, 18-24.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,420 mg/L Nov. 12; minimum daily mean, 1 mg/L Apr. 29, 30, May 6, 7, 10.

SEDIMENT LOADS: Maximum daily, 3,520 tons (3,190 tonnes) Nov. 12; minimum daily, 0.07 tons (0.06 tonne) May 10.

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
AUG , 1975										
12...	1440	32	640	--	26.0	--	7.0	--	--	360
SEP										
17...	1030	18	560	7.6	16.5	8	9.7	--	--	500
30...	1730	34	530	7.6	18.0	3	10.0	--	--	540
OCT										
16...	1115	21	598	--	10.0	--	--	1.3	--	--
22...	1050	59	560	7.9	11.5	--	--	--	--	--
29...	1540	26	520	8.5	16.5	2	10.5	--	--	120
NOV										
25...	1200	87	340	8.5	6.5	1	10.5	--	--	44
DEC										
08...	1305	56	620	7.1	7.0	--	--	--	--	--
JAN , 1976										
22...	1220	119	400	7.2	.0	--	--	--	--	--
FEB										
12...	1300	170	290	8.6	5.0	15	9.8	--	1160	--
27...	0900	163	360	--	8.0	--	--	--	--	--
MAR										
25...	1330	204	214	--	12.0	--	--	--	--	--
APR										
08...	1300	126	390	7.0	13.0	--	--	--	--	--
28...	1115	42	475	8.2	14.0	1	9.8	--	--	40
MAY										
19...	1600	100	--	--	16.0	--	--	--	--	--
25...	1000	41	470	8.0	17.0	2	8.8	--	--	0
JUN										
24...	1130	30	520	8.5	21.0	8	9.5	--	--	180
JUL										
01...	0830	16	610	6.7	20.0	--	8.2	--	--	--

WATER QUALITY DATA

[illegible]

WATER QUALITY DATA

[illegible]

GUYANDOTTE RIVER BASIN

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03202750 CLEAR FORK AT CLEAR FORK, WV--Continued

WATER QUALITY DATA

DATE	HEXA- VALENT CHROMIUM (CR6) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
AUG , 1975										
12...	--	450	20	--	--	--	400	40	360	--
SEP										
17...	--	900	10	--	--	--	390	20	370	--
30...	0	460	40	7	7	0	630	10	620	<2.6
OCT										
29...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
12...	0	1900	10	6	5	1	400	20	380	<.5
MAR										
25...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	--	400	30	--	--	--	420	0	420	--
JUN										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
25...	--	--	--	--	--	--	--	--	--	--
29...	1	150	30	15	0	15	100	10	90	<.5
AUG										
25...	--	--	40	--	--	--	--	--	80	--
SEP										
22...	--	--	50	--	--	--	--	--	100	--
OCT										
18...	--	--	70	--	--	--	--	--	690	--
NOV										
17...	--	--	50	--	--	--	--	--	670	--

DATE	SUS- PENDE D MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)
AUG , 1975									
12...	--	--	--	--	--	3.0	--	12	--
SEP									
17...	--	--	--	--	--	--	--	23	--
30...	2.1	<.5	40	10	30	2.0	--	9	--
OCT									
29...	--	--	--	--	--	--	--	8	.56
NOV									
25...	--	--	--	--	--	--	51	14	3.3
FEB , 1976									
12...	.0	<.5	30	10	20	3.1	150	33	15
MAR									
25...	--	--	--	--	--	--	--	29	16
APR									
28...	--	--	--	--	--	--	--	3	.34
MAY									
25...	--	--	--	--	--	--	--	14	1.5
JUN									
24...	--	--	--	--	--	--	--	24	1.9
JUL									
25...	--	--	--	--	--	--	--	4	--
29...	.0	<.5	10	0	10	2.9	--	--	--
AUG									
25...	--	--	--	--	--	2.9	--	7	.18
SEP									
22...	--	--	--	--	--	1.8	--	5	.19
OCT									
18...	--	--	--	--	--	--	--	2	.31
NOV									
17...	--	--	--	--	--	4.3	--	3	.46

GUYANDOTTE RIVER BASIN

03202750 CLEAR FORK AT CLEAR FORK, WV--Continued

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)
JUL , 1976											
29...	1300	10	640	8.5	23.0	1	8.0	--	0	650	--
AUG											
12...	0945	11	670	6.8	20.0	--	7.4	--	--	--	--
25...	1200	9.7	710	8.1	23.0	1	7.4	--	25	55	--
SEP											
17...	0915	25	--	--	17.0	--	--	--	--	--	--
22...	1115	14	625	7.5	17.0	1	8.6	--	--	76	--
OCT											
18...	1330	56	400	7.6	8.5	2	9.0	--	140	--	28
NOV											
17...	1300	57	430	8.3	4.0	1	10.2	80	--	60	--
DATE		HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO4- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)
JUL , 1976											
29...	250	--	51	30	37	1.0	4.6	--	--	--	--
AUG											
12...	--	--	--	--	--	--	--	--	--	--	--
25...	270	230	56	31	32	.9	4.6	43	0	35	--
SEP											
17...	--	--	--	--	--	--	--	--	--	--	--
22...	280	250	56	34	31	.8	4.6	37	0	30	--
OCT											
18...	170	150	35	21	16	.5	3.2	24	0	20	--
NOV											
17...	160	130	32	19	20	.7	2.6	40	0	33	--
DATE		CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	SUS- PENDE SOLIDS (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
JUL , 1976											
29...	--	250	19	.2	1.0	458	--	3	.28	.01	--
AUG											
12...	--	--	--	--	--	--	--	--	--	--	--
25...	.5	300	15	.1	1.0	499	461	--	.01	.01	--
SEP											
17...	--	--	--	--	--	--	--	--	--	--	--
22...	1.9	300	15	.2	2.4	482	462	--	.11	.01	--
OCT											
18...	1.0	160	8.8	.1	9.8	295	272	--	1.3	.01	--
NOV											
17...	.3	180	8.9	.1	8.0	285	293	--	.51	.01	--
DATE		DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
JUL , 1976											
29...	.29	.01	.03	70	0	70	2	0	2	<10	--
AUG											
12...	--	--	--	--	--	--	--	--	--	--	--
25...	.02	.00	.00	--	--	20	--	--	--	--	--
SEP											
17...	--	--	--	--	--	--	--	--	--	--	--
22...	.12	.01	.03	--	--	20	--	--	--	--	--
OCT											
18...	1.3	.01	.03	--	--	10	--	--	--	--	--
NOV											
17...	.52	.01	.03	--	--	40	--	--	--	--	--

GUYANDOTTE RIVER BASIN

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03202750 CLEAR FORK AT CLEAR FORK, WV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	523	490	373	100	---	303	207	460	508	634	696	---
2	531	---	375	138	238	311	177	---	502	666	524	540
3	552	494	386	158	236	320	183	456	493	626	637	540
4	565	492	398	---	237	335	---	486	497	---	676	530
5	---	495	409	162	243	340	210	473	485	432	547	---
6	608	507	421	193	232	343	230	481	---	463	390	---
7	635	505	---	212	164	---	252	488	454	465	380	570
8	635	512	475	224	---	380	263	502	565	376	---	---
9	553	---	361	257	189	318	285	---	576	441	305	660
10	488	439	337	284	218	163	299	505	601	465	330	650
11	517	386	---	---	246	160	---	---	614	---	340	580
12	---	216	308	262	256	185	326	510	630	521	340	---
13	600	140	300	273	256	201	333	517	---	556	350	530
14	610	194	301	159	238	---	340	513	366	582	350	---
15	---	232	304	152	---	247	355	511	265	595	345	560
16	598	---	228	174	172	248	373	597	285	662	280	670
17	325	230	168	193	158	248	370	456	329	682	---	460
18	292	228	176	---	111	260	---	449	---	---	290	---
19	---	244	201	259	123	253	401	392	430	712	305	---
20	330	249	219	259	165	239	409	333	---	740	225	620
21	360	266	---	---	195	---	401	319	526	---	240	---
22	380	277	255	276	---	155	398	341	394	735	320	625
23	392	---	269	292	242	171	421	---	425	740	315	640
24	413	310	306	302	248	199	427	406	460	777	320	670
25	443	315	297	257	268	217	---	416	494	786	320	---
26	---	315	296	216	268	234	445	420	525	---	320	---
27	457	327	258	164	269	242	459	438	---	916	315	580
28	461	330	---	148	279	---	459	452	553	661	310	340
29	489	348	228	171	---	258	452	474	590	689	---	360
30	487	---	230	189	---	253	454	---	615	658	295	410
31	500	---	212	218	---	253	---	528	---	713	280	---
MONTH	490	342	300	211	219	253	343	459	487	627	369	---
YEAR	MAX	916	MIN	100	MEAN	384						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	16.5	15.5	---	---	8.0	7.0	5.5	4.5	11.5	9.0
2	---	---	16.0	15.0	---	---	7.0	6.0	4.5	1.0	12.0	10.0
3	---	---	15.0	12.5	---	---	7.5	6.5	2.5	0.5	14.5	12.0
4	---	---	12.5	11.5	---	---	6.5	2.5	3.5	1.0	15.5	13.0
5	---	---	13.0	11.0	---	---	2.5	1.0	5.5	3.5	14.5	13.5
6	---	---	13.5	12.0	---	---	1.0	0.0	6.5	4.5	13.5	10.0
7	---	---	14.0	12.5	---	---	2.5	0.5	4.0	2.0	10.5	8.0
8	---	---	14.0	13.0	7.5	7.0	3.5	1.5	2.0	1.0	8.0	6.5
9	---	---	15.0	13.0	7.5	7.0	1.5	0.0	4.0	2.0	7.0	6.5
10	---	---	16.5	14.5	7.0	5.0	0.5	0.0	5.5	3.0	9.5	6.0
11	---	---	14.5	12.0	5.0	3.5	0.0	0.0	8.0	6.0	10.0	8.0
12	---	---	12.5	11.0	4.0	3.0	1.5	0.0	7.5	5.0	10.0	8.0
13	---	---	11.5	10.5	6.0	3.5	2.0	0.5	7.5	6.0	10.0	7.5
14	---	---	12.0	11.0	6.5	4.5	4.5	2.5	8.5	7.5	9.0	5.5
15	---	---	11.5	10.0	8.5	5.5	4.0	2.5	8.5	6.0	8.0	5.5
16	---	---	13.0	10.5	9.0	7.5	3.5	2.5	11.0	8.5	8.0	5.5
17	---	---	11.5	9.0	7.5	6.0	3.5	2.0	11.0	10.0	5.5	3.5
18	---	---	10.5	9.0	6.0	2.0	1.5	0.0	9.5	9.0	7.5	3.0
19	---	---	13.0	10.0	1.5	0.0	1.5	0.0	9.5	7.5	9.5	6.5
20	---	---	13.5	11.0	2.0	0.0	0.0	0.0	8.5	6.5	12.0	8.0
21	---	---	12.0	10.0	3.0	2.0	0.0	0.0	9.5	6.0	12.0	11.0
22	---	---	11.5	9.5	2.5	1.0	0.0	0.0	9.5	7.0	10.0	7.5
23	---	---	11.0	8.5	1.0	0.0	0.5	0.0	7.0	5.0	10.0	6.0
24	---	---	11.5	9.0	1.5	0.0	3.0	0.0	6.5	3.0	10.5	7.0
25	---	---	11.0	9.0	1.0	0.0	9.5	3.0	8.0	5.0	10.5	9.0
26	---	---	12.0	11.0	3.5	1.0	7.5	6.0	9.5	7.0	12.5	8.5
27	---	---	12.0	11.5	3.5	3.5	7.5	4.5	10.5	7.5	13.0	12.0
28	---	---	---	---	4.5	3.5	4.5	3.0	10.0	7.5	13.0	9.5
29	---	---	---	---	5.5	4.0	4.0	4.0	11.0	8.0	13.0	9.5
30	13.5	11.5	---	---	6.5	5.5	4.0	3.0	---	---	14.5	9.5
31	15.5	13.5	---	---	8.5	6.5	5.5	3.5	---	---	14.5	13.0
MONTH	---	---	16.5	8.5	---	---	9.5	0.0	11.0	0.5	15.5	3.0

03202750 CLEAR FORK AT CLEAR FORK, WV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	10.0	---	---	23.0	19.5	22.5	20.0	24.5	22.0	21.0	18.0
2	10.0	8.0	---	---	22.0	20.5	24.0	20.0	22.0	20.5	20.5	19.5
3	12.0	7.5	---	---	21.5	19.5	24.0	19.0	22.5	18.0	22.0	18.5
4	12.0	10.0	---	---	23.0	17.5	21.5	18.5	23.0	18.5	22.5	19.0
5	11.0	8.0	---	---	23.0	16.5	19.5	18.5	23.0	19.0	24.0	20.0
6	12.0	8.5	---	---	23.0	17.5	21.5	18.0	23.5	19.5	23.5	18.5
7	13.0	9.5	---	---	23.5	17.0	20.5	18.5	22.5	21.0	23.0	17.5
8	13.5	10.5	---	---	24.0	18.0	20.0	18.5	21.5	20.0	24.0	18.5
9	12.0	9.0	---	---	24.5	19.5	21.0	19.0	20.5	18.5	25.0	20.0
10	12.5	8.0	---	---	25.5	19.0	23.5	19.5	22.5	18.5	22.5	19.0
11	9.5	7.5	---	---	25.5	19.5	24.0	19.5	24.5	18.5	20.5	16.5
12	10.5	5.5	---	---	27.5	20.5	26.0	20.5	24.0	20.0	23.5	16.0
13	12.5	6.5	---	---	26.0	22.0	26.5	23.5	24.5	21.5	21.5	17.0
14	14.0	8.5	---	---	22.0	20.5	25.5	21.5	23.5	21.0	20.0	17.5
15	15.5	10.5	---	---	24.0	21.5	25.5	20.5	23.0	21.5	19.5	18.0
16	18.5	12.5	---	---	24.0	21.5	26.5	21.5	23.0	21.5	18.5	18.0
17	20.5	15.0	---	---	26.5	21.5	24.0	22.5	23.5	20.0	18.5	17.0
18	22.5	16.5	---	---	26.5	22.0	25.5	21.0	23.0	19.0	19.0	17.5
19	22.5	17.0	16.0	15.0	25.0	23.0	24.5	19.5	23.5	19.0	23.0	17.5
20	---	---	18.5	15.0	23.0	21.5	24.0	19.5	23.5	19.0	19.0	17.5
21	---	---	21.0	16.5	23.0	20.5	26.0	20.5	23.0	20.0	20.5	17.0
22	---	---	24.0	18.5	22.0	20.0	27.0	22.0	24.5	23.0	19.0	15.0
23	---	---	23.0	19.0	23.5	19.5	28.0	23.0	26.5	24.5	18.0	13.5
24	---	---	22.0	17.5	23.0	20.5	28.0	23.5	26.5	22.0	19.0	14.5
25	---	---	20.0	16.5	22.5	20.5	27.0	23.0	27.0	22.5	20.0	16.0
26	---	---	20.5	15.0	24.5	21.0	25.5	20.5	28.5	23.5	17.5	16.5
27	---	---	21.0	15.0	27.0	21.0	27.0	22.0	25.5	24.0	18.0	17.0
28	---	---	19.5	18.0	26.5	22.0	25.0	23.0	25.5	22.5	17.5	16.0
29	---	---	22.0	18.0	27.0	22.0	26.0	22.5	26.0	22.5	16.0	15.5
30	---	---	23.0	18.5	25.0	22.5	25.0	23.0	24.0	20.0	16.0	14.5
31	---	---	22.5	19.5	---	---	25.0	22.5	23.0	17.5	---	---
MONTH	---	---	---	---	27.5	16.5	28.0	18.0	28.5	17.5	25.0	13.5
YEAR	28.5	0.0										

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	27	10	.73	32	7	.60	53	5	.72
2	27	12	.87	31	8	.67	47	5	.63
3	25	12	.81	31	7	.59	44	4	.48
4	23	9	.56	29	4	.31	43	4	.46
5	21	8	.45	28	3	.23	41	3	.33
6	20	9	.49	27	5	.36	39	9	.95
7	18	12	.58	29	8	.63	53	10	1.4
8	21	15	.85	42	15	1.7	55	6	.89
9	41	17	1.9	41	18	2.0	56	8	1.2
10	33	16	1.4	47	22	2.8	70	8	1.5
11	29	12	.94	81	31	6.8	70	6	1.1
12	27	8	.58	642	1420	3520	70	4	.76
13	24	6	.39	1050	320	906	68	2	.37
14	22	8	.48	360	126	122	66	5	.89
15	21	10	.57	211	50	28	68	12	2.2
16	23	38	2.4	194	33	17	245	245	164
17	175	432	204	194	29	15	305	73	60
18	218	234	138	184	24	12	213	21	12
19	129	120	42	155	22	9.2	150	8	3.2
20	92	33	8.2	131	19	6.7	126	7	2.4
21	70	10	1.9	124	19	6.4	110	7	2.1
22	56	6	.91	105	20	5.7	92	6	1.5
23	49	6	.79	89	19	4.6	68	9	1.7
24	43	8	.93	81	18	3.9	50	8	1.1
25	39	9	.95	77	13	2.7	70	5	.94
26	38	9	.92	71	10	1.9	107	13	3.8
27	39	8	.84	67	8	1.4	134	11	4.0
28	35	9	.85	61	7	1.2	137	9	3.3
29	33	9	.80	54	6	.87	128	9	3.1
30	36	10	.97	49	5	.66	124	13	4.4
31	34	6	.55	---	---	---	241	87	57
TOTAL	1488	---	416.61	4317	---	4681.92	3143	---	338.42

03202750 CLEAR FORK AT CLEAR FORK, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	1810	539	2980	188	16	8.1	121	10	3.3
2	678	98	179	192	21	11	110	8	2.4
3	576	87	135	173	11	5.1	101	11	3.0
4	768	61	126	164	7	3.1	94	10	2.5
5	422	33	38	157	12	5.1	92	7	1.7
6	275	20	15	278	266	219	87	6	1.4
7	206	14	7.8	414	73	82	78	6	1.3
8	192	17	8.8	322	32	28	75	7	1.4
9	139	9	3.4	238	15	9.6	206	57	32
10	100	8	2.2	184	11	5.5	472	259	330
11	134	9	3.3	181	38	19	327	50	44
12	131	9	3.2	163	32	14	242	33	22
13	137	21	7.8	164	28	12	200	18	9.7
14	696	565	1170	436	345	433	159	15	6.4
15	512	142	196	492	120	159	139	10	3.8
16	325	38	33	336	86	78	155	19	8.0
17	238	9	5.8	680	228	574	159	28	12
18	170	8	3.7	1550	262	1100	152	25	10
19	108	9	2.6	1270	192	658	161	15	6.5
20	147	7	2.8	612	83	137	164	10	4.4
21	126	5	1.7	369	37	37	381	106	133
22	115	3	.93	305	25	21	508	97	133
23	90	7	1.7	248	22	15	333	58	52
24	123	17	5.6	206	14	7.8	245	21	14
25	194	35	18	196	15	7.9	218	23	14
26	339	117	107	186	14	7.0	184	13	6.5
27	588	289	459	170	19	8.7	166	14	6.3
28	612	110	182	147	10	4.0	148	12	4.8
29	390	45	47	134	10	3.6	139	9	3.4
30	280	22	17	---	---	---	145	11	4.3
31	213	15	8.6	---	---	---	148	15	6.0
TOTAL	10834	---	5771.93	10155	---	3672.5	5909	---	883.1
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	225	48	29	34	2	.18	30	4	.32
2	260	27	19	40	3	.32	32	4	.35
3	220	17	10	39	3	.32	31	7	.59
4	190	13	6.7	35	2	.19	27	7	.51
5	159	10	4.3	31	2	.17	23	3	.19
6	136	8	2.9	29	1	.08	20	3	.16
7	120	7	2.3	28	1	.08	19	4	.21
8	105	6	1.7	29	2	.16	17	4	.18
9	95	5	1.3	27	2	.15	15	3	.12
10	87	9	2.1	25	1	.07	15	3	.12
11	82	6	1.3	27	2	.15	15	3	.12
12	78	4	.84	30	3	.24	14	5	.19
13	68	5	.92	27	2	.15	15	8	.32
14	64	5	.86	23	2	.12	104	353	108
15	61	5	.82	24	2	.13	66	135	24
16	59	5	.80	50	4	.54	39	28	2.9
17	58	6	.94	48	6	.78	34	15	1.4
18	54	6	.87	58	12	1.9	26	9	.63
19	52	5	.70	96	43	11	22	8	.48
20	49	4	.53	85	26	6.0	31	8	.67
21	49	5	.66	67	9	1.6	36	13	1.3
22	49	5	.66	55	6	.89	60	83	13
23	46	4	.50	47	5	.63	33	41	3.7
24	43	4	.46	42	6	.68	28	21	1.6
25	42	4	.45	38	8	.82	23	24	1.5
26	42	3	.34	34	5	.46	23	23	1.4
27	41	2	.22	30	14	1.1	24	13	.84
28	38	2	.21	27	12	.87	20	6	.32
29	35	1	.09	26	17	1.2	17	11	.50
30	33	1	.09	28	4	.30	17	11	.50
31	---	---	---	28	4	.30	---	---	---
TOTAL	2640	---	91.56	1207	---	31.58	876	---	166.12

03202750 CLEAR FORK AT CLEAR FORK, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	17	16	.73	54	37	6.2	9.5	7	.18
2	15	12	.49	41	24	2.7	14	9	.34
3	17	8	.37	23	22	1.4	26	27	1.9
4	53	24	3.4	17	10	.46	17	14	.64
5	34	23	2.1	14	7	.26	13	7	.25
6	35	17	1.6	13	7	.25	11	7	.21
7	87	65	15	27	26	1.9	10	7	.19
8	55	34	5.0	26	12	.84	9.5	6	.15
9	39	18	1.9	17	8	.37	9.0	5	.12
10	30	16	1.3	14	7	.26	25	34	2.3
11	24	9	.58	12	12	.39	24	18	1.2
12	21	6	.34	11	11	.33	15	12	.49
13	18	6	.29	11	13	.39	12	8	.26
14	16	7	.30	11	19	.56	11	8	.24
15	14	7	.26	40	49	5.3	16	17	.73
16	17	6	.28	42	118	14	38	33	3.4
17	18	5	.24	24	53	3.4	24	22	1.4
18	15	4	.16	17	18	.83	17	15	.69
19	14	4	.15	14	12	.45	17	13	.60
20	13	5	.18	12	8	.26	14	11	.42
21	12	5	.16	11	8	.24	13	9	.32
22	11	4	.12	11	7	.21	13	6	.21
23	11	4	.12	11	10	.30	13	7	.25
24	11	4	.12	10	9	.24	12	7	.23
25	14	5	.19	9.2	7	.17	11	8	.24
26	17	6	.28	8.7	6	.14	11	9	.27
27	13	6	.21	9.2	10	.25	30	25	2.0
28	11	5	.15	11	15	.45	154	525	231
29	11	3	.09	19	29	1.5	68	127	23
30	24	16	1.0	16	18	.78	128	625	224
31	36	21	2.0	11	8	.24	---	---	---
TOTAL	723	---	39.11	567.1	---	45.07	785.0	---	497.23
YEAR	42644.1		16635.15						

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Nov 25	1200	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira		<1	
		Pennales			
		Cymbellaceae			
		Cymbella	7	14	
		Naviculaceae			
		Navicula	22	43	
		Nitzschiaceae			
		Nitzschia	22	43	
		TOTAL	51		
Feb 12	1300	CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	27	18	
		Pennales			
		Achnanthaceae			
		Achnanthes	27	18	
		Gomphonemataceae			
		Gomphonema	41	27	
		Nitzschaceae			
		Nitzschia	41	27	
		Surirellaceae			
		Surirella	14	9	
		TOTAL	150		

GUYANDOTTE RIVER BASIN

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03202990 BUFFALO CREEK AT MAN, WV

LOCATION.--Lat 37°44'34", long 81°52'27", Logan County, Hydrologic Unit 05070101, at local traffic bridge at Man, and 1,200 ft (366 m) upstream from mouth.

DRAINAGE AREA.--45.6 mi² (118.1 km²).

PERIOD OF RECORD.--August 1975 to November 1976 (discontinued).

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM 7UM-MF (COL./ 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
AUG , 1975										
12...	1630	19	550	--	31.0	--	7.0	--	3900	980
OCT										
01...	1150	17	540	7.8	18.5	--	--	--	--	--
29...	1345	20	690	8.3	19.0	100	7.9	--	6900	1300
30...	1015	20	480	8.3	11.0	40	11.2	--	370	240
NOV										
25...	1345	36	600	8.2	8.5	8	9.5	--	2000	600
FEB , 1976										
11...	1245	104	380	8.0	10.0	--	9.9	--	29000	9000
MAR										
26...	0830	96	450	--	13.0	100	--	--	3500	400
APR										
28...	1230	23	680	8.0	14.5	120	9.9	--	6700	800
MAY										
26...	1345	20	675	8.2	21.5	4	9.8	--	8600	200
JUN										
24...	1000	17	750	6.8	--	15	8.1	--	6000	1200
JUL										
28...	1200	6.6	975	8.1	22.5	2	9.0	--	800	330
AUG										
26...	1215	5.0	760	8.6	23.5	2	9.0	--	2100	700
SEP										
23...	0910	4.8	860	7.6	14.5	3	8.8	--	--	1800
OCT										
19...	1045	16	620	7.2	8.0	9	9.2	--	4600	280
NOV										
17...	1145	20	670	8.0	5.0	4	11.2	22000	--	2000

DATE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
AUG , 1975										
12...	260	180	54	30	49	1.3	5.7	98	--	80
OCT										
01...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
30...	220	160	50	22	35	1.0	5.0	70	0	57
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
11...	--	--	--	--	--	--	--	--	--	--
MAR										
26...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
26...	220	130	47	26	49	1.4	5.5	112	0	92
JUN										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	300	300	62	36	72	1.8	7.3	--	0	--
AUG										
26...	280	200	64	30	72	1.9	7.4	97	0	80
SEP										
23...	340	240	72	38	70	1.7	7.7	121	0	99
OCT										
19...	270	190	57	30	47	1.3	5.7	98	0	80
NOV										
17...	230	160	51	26	46	1.3	5.4	94	0	77

GUYANDOTTE RIVER BASIN

03202990 BUFFALO CREEK AT MAN, WV--Continued

WATER QUALITY DATA

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SU4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDE SOLIDS (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
AUG , 1975										
12...	--	270	3.9	.1	8.4	513	472	--	.41	.01
OCT										
01...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
30...	.6	230	5.0	--	--	--	--	--	.77	.02
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
11...	--	--	--	--	--	--	--	--	--	--
MAR										
26...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
26...	1.1	230	4.9	--	5.6	--	426	--	.38	.02
JUN										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	--	330	8.0	.2	8.3	634	--	4	.33	.05
AUG										
26...	.4	350	12	.2	3.6	654	588	--	.05	.02
SEP										
23...	4.9	360	18	.2	8.5	677	637	--	.48	.04
OCT										
19...	9.9	260	8.1	.1	9.7	521	472	--	1.2	.03
NOV										
17...	1.5	250	8.3	.1	7.5	465	446	--	.88	.02
DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
AUG , 1975										
12...	.42	.01	.03	2100	1530	570	--	--	--	--
OCT										
01...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
30...	.79	.01	.03	--	--	80	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
11...	--	--	--	--	--	--	--	--	--	--
MAR										
26...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
26...	.40	.07	.21	--	--	360	--	--	--	--
JUN										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	.38	.20	.61	210	40	170	4	0	4	<10
AUG										
26...	.07	.18	.55	--	--	180	--	--	--	--
SEP										
23...	.52	.06	.18	--	--	120	--	--	--	--
OCT										
19...	1.2	.03	.09	--	--	50	--	--	--	--
NOV										
17...	.90	.11	.34	--	--	90	--	--	--	--

GUYANDOTTE RIVER BASIN

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03202990 BUFFALO CREEK AT MAN, WV--Continued

WATER QUALITY DATA

DATE	HEXA- VALENT CHROMIUM (CR6) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUS- PENDE D MANGANESE (MN) (UG/L)	DIS- SOLVED MANGANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
AUG • 1975										
12...	--	1400	10	--	--	--	280	40	240	--
OCT										
01...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
30...	--	5300	10	--	--	--	830	50	780	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB • 1976										
11...	--	--	--	--	--	--	--	--	--	--
MAR										
26...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
26...	--	430	10	--	--	--	350	30	320	--
JUN										
24...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	1	300	60	16	10	6	140	10	130	<.5
AUG										
26...	--	--	50	--	--	--	--	--	150	--
SEP										
23...	--	--	90	--	--	--	--	--	300	--
OCT										
19...	--	--	50	--	--	--	--	--	940	--
NOV										
17...	--	--	30	--	--	--	--	--	790	--

DATE	SUS- PENDE D MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)
AUG • 1975									
12...	--	--	--	--	--	3.0	--	37	--
OCT									
01...	--	--	--	--	--	--	--	334	15
29...	--	--	--	--	--	--	--	290	16
30...	--	--	--	--	--	--	--	146	7.9
NOV									
25...	--	--	--	--	--	--	38	28	2.7
FEB • 1976									
11...	--	--	--	--	--	--	--	295	83
MAR									
26...	--	--	--	--	--	--	--	491	127
APR									
28...	--	--	--	--	--	--	--	430	27
MAY									
26...	--	--	--	--	--	--	--	--	--
JUN									
24...	--	--	--	--	--	--	--	48	2.2
JUL									
28...	.0	<.5	40	20	20	34	--	--	--
AUG									
26...	--	--	--	--	--	3.3	--	7	.09
SEP									
23...	--	--	--	--	--	1.1	--	9	.12
OCT									
19...	--	--	--	--	--	--	--	13	.59
NOV									
17...	--	--	--	--	--	2.6	--	12	.65

GUYANDOTTE RIVER BASIN

03203600 GUYANDOTTE RIVER AT LOGAN, WV

LOCATION.--Lat 37°50'34", long 81°58'34" (corrected), Logan County, Hydrologic Unit 05070101, on right bank 200 ft (61 m) downstream from Middelburg Bridge at Logan, 0.8 mi (1.3 km) downstream from Dingess Run, 1.1 mi (1.8 km) upstream from Island Creek, and at mile 80.5 (129.5 km).

DRAINAGE AREA.--836 mi² (2,165 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1961-62. 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.

REMARKS.--Records good above 1,000 ft³/s (28.3 m³/s) and fair below. High flows affected since 1974 by R. D. Bailey Lake at mile 112 (180 km). Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--14 years, 1,155 ft³/s (32.71 m³/s), 18.76 in/yr (477 mm/yr).

EXTREMES FOR 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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,200 ft³/s (261 m³/s) Jan. 1, gage height, 13.00 ft (3.962 m); minimum, 94 ft³/s (2.66 m³/s) Aug. 27, gage height, 4.23 ft (1.289 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	226	345	7430	1450	1060	1740	340	400	173	346	120
2	216	219	325	6180	1430	972	2270	360	427	164	303	126
3	200	212	304	3450	1330	894	2000	405	424	188	294	137
4	176	205	288	4200	1250	821	1670	360	390	262	187	129
5	163	199	278	3120	1180	769	1450	325	328	272	153	145
6	153	194	271	2060	1370	738	1220	306	279	281	146	124
7	148	189	351	1620	1930	708	1070	293	243	333	317	113
8	157	205	398	1460	1970	634	948	288	223	378	203	105
9	209	216	448	1220	1700	770	843	266	210	376	177	101
10	233	251	477	960	1390	2270	753	253	199	279	148	126
11	236	268	503	800	1260	2710	704	253	181	269	127	123
12	192	2970	500	1040	1220	2020	674	284	176	216	120	235
13	177	5410	481	1050	1160	1650	618	330	192	179	118	159
14	164	2720	462	2480	1710	1390	582	284	230	155	175	124
15	156	1640	483	2740	2270	1160	554	277	639	151	209	124
16	162	1250	1470	2040	2070	1120	522	313	553	143	189	139
17	1050	1110	1720	1660	2640	1230	498	474	381	146	186	273
18	1380	1010	1410	1310	7790	1160	480	556	299	162	175	243
19	910	895	1070	800	7580	1120	450	814	270	162	143	192
20	618	765	835	921	5260	1130	426	974	342	146	125	152
21	462	691	739	982	3140	2630	420	719	347	134	116	144
22	370	636	651	840	2400	3220	444	556	566	127	112	128
23	315	551	526	734	2060	2380	438	467	455	123	108	119
24	280	510	400	801	1750	1880	405	405	366	118	104	115
25	250	476	476	1010	1620	1640	380	354	286	128	102	112
26	230	436	742	1410	1530	1560	380	327	258	128	100	118
27	240	412	950	2210	1410	1440	360	302	266	144	101	185
28	230	387	966	3640	1280	1350	350	276	249	130	112	501
29	220	359	865	2950	1160	1220	340	273	205	122	130	753
30	243	333	820	2100	---	1230	325	303	186	206	140	1180
31	233	---	1030	1670	---	1290	---	319	---	297	134	---
TOTAL	9982	24945	20584	64888	64310	44166	23314	12056	9570	6092	5100	6345
MEAN	322	832	664	2093	2218	1425	777	389	319	197	165	212
MAX	1380	5410	1720	7430	7790	3220	2270	974	639	378	346	1180
MIN	148	189	271	734	1160	634	325	253	176	118	100	101
CFSM	.39	1.00	.79	2.50	2.65	1.70	.93	.47	.38	.24	.20	.25
IN.	.44	1.11	.92	2.89	2.86	1.97	1.04	.54	.43	.27	.23	.28
CAL YR 1975 TOTAL	608018			1666	18800	122		1.99	27.06			
WTR YR 1976 TOTAL	291352			796	7790	100		.95	12.96			

GUYANDOTTE RIVER BASIN

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03203600 GUYANDOTTE RIVER AT LOGAN, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1975 to November 1976 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1976.

WATER TEMPERATURES: October 1975 to September 1976.

SUSPENDED-SEDIMENT DISCHARGE: August 1975 to current year.

EXTREMES FOR CURRENT PERIOD.--August to September 1975:

SEDIMENT CONCENTRATIONS: Maximum daily mean during period, 347 mg/L Sept. 24; minimum daily mean, 8 mg/L Sept. 30.

SEDIMENT LOADS: Maximum daily during period, 1,860 tons (1,690 tonnes) Sept. 24; minimum daily, 4.3 tons (3.9 tonnes) Aug. 26, Sept. 11.

Water year 1976:

SPECIFIC CONDUCTANCE: Maximum daily, 682 micromhos July 26; minimum daily, 123 micromhos Feb. 18.

WATER TEMPERATURES: Maximum daily, 32.0°C July 15, Aug. 9; minimum daily, -1.0°C Dec. 23-25.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 1,750 mg/L Nov. 13; minimum daily mean, 5 mg/L Nov. 4, Mar. 8, June 6.

SEDIMENT LOADS: Maximum daily, 25,600 tons (23,200 tonnes) Nov. 13; minimum daily, 2.7 tons (2.4 tonnes) July 23, 27.

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
AUG. 1975										
13...	0915	214	500	7.2	25.5	--	8.0	--	170	810
SEP										
30...	1400	240	450	8.1	21.0	5	8.9	--	1900	50
OCT										
23...	1100	326	600	7.6	14.0	--	--	--	--	--
29...	1300	244	490	8.3	16.0	5	8.9	--	1540	180
30...	1345	240	520	8.5	14.0	9	11.6	--	--	180
NOV										
25...	1430	444	380	8.1	9.0	2	10.8	--	480	32
DEC										
04...	1045	277	700	7.2	5.0	--	--	--	--	--
JAN. 1976										
08...	1435	1390	340	7.9	2.0	--	--	--	--	--
FEB										
10...	1600	1340	360	7.1	5.5	--	--	--	--	--
11...	1100	1230	225	7.8	8.0	20	10.6	1200	--	270
MAR										
16...	1215	1020	470	7.2	9.0	--	--	--	--	--
26...	1000	1600	260	--	12.5	6	8.8	--	460	80
APR										
13...	1445	575	500	8.2	13.5	--	--	--	--	--
28...	1315	370	510	8.3	14.0	6	10.2	--	510	110
MAY										
12...	1050	262	540	7.8	18.0	--	9.6	--	--	--
24...	1630	395	350	8.1	22.0	4	13.8	--	600	380
JUN										
15...	0935	650	--	--	24.5	--	--	--	--	--
23...	1100	699	480	8.2	20.5	65	9.2	--	6000	2000

GUYANDOTTE RIVER BASIN

03203600 GUYANDOTTE RIVER AT LOGAN, WV--Continued

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
JUL + 1976										
08...	1115	392	460	7.6	23.0	--	7.6	--	--	--
28...	1030	132	725	8.1	23.5	5	7.2	--	430	160
AUG										
17...	1220	194	600	7.8	24.0	--	--	--	--	--
26...	1045	100	760	8.3	26.0	9	8.1	--	400	300
SEP										
14...	0855	124	690	8.1	20.5	--	--	--	--	--
23...	1000	120	570	7.7	15.0	15	8.4	--	--	600
OCT										
19...	1200	365	440	7.8	10.0	5	9.2	--	4000	180
NOV										
17...	1015	350	385	8.0	4.5	2	12.4	3000	--	440
DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
AUG + 1975										
13...	150	38	33	17	63	2.2	4.5	139	0	114
SEP										
30...	110	60	26	12	30	1.2	3.6	66	0	54
OCT										
23...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
30...	130	47	31	12	42	1.6	3.4	97	0	80
NOV										
25...	--	--	--	--	--	--	--	--	--	--
DEC										
04...	--	--	--	--	--	--	--	--	--	--
JAN + 1976										
08...	--	--	--	--	--	--	--	--	--	--
FEB										
10...	--	--	--	--	--	--	--	--	--	--
11...	72	38	15	8.5	17	.9	2.0	42	0	34
MAR										
16...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
APR										
13...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAY										
12...	--	--	--	--	--	--	--	--	--	--
24...	87	25	19	9.6	33	1.5	2.8	76	0	62
JUN										
15...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
JUL + 1976										
08...	--	--	--	--	--	--	--	--	--	--
28...	140	3	33	14	74	2.7	3.9	167	0	137
AUG										
17...	--	--	--	--	--	--	--	--	--	--
26...	150	12	34	16	88	3.1	4.3	169	0	139
SEP										
14...	--	--	--	--	--	--	--	--	--	--
23...	130	18	30	13	68	2.6	3.7	135	0	111
OCT										
19...	130	68	27	14	35	1.4	3.1	69	0	57
NOV										
17...	110	31	25	12	43	1.8	2.6	99	0	81

WATER QUALITY DATA

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUS- PENDED SOLIDS (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
JUL , 1976										
08...	--	--	--	--	--	--	--	--	--	--
28...	2.1	150	17	.2	.8	390	376	14	.06	.01
AUG										
17...	--	--	--	--	--	--	--	--	--	--
26...	1.4	180	20	.2	1.3	445	428	--	.03	.01
SEP										
14...	--	--	--	--	--	--	--	--	--	--
23...	4.3	140	17	.2	3.0	345	343	--	.34	.01
OCT										
19...	1.7	140	9.3	.1	7.9	275	273	--	.57	.01
NOV										
17...	1.6	120	10	.1	4.3	273	268	--	.29	.01

[illegible]

GUYANDOTTE RIVER BASIN

03203600 GUYANDOTTE RIVER AT LOGAN, WV--Continued

DATE	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS-SOLVED ORTHO- PHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
JUL , 1976										
08...	--	--	--	--	--	--	--	--	--	--
28...	.07	.01	.03	260	130	130	4	0	4	<10
AUG										
17...	--	--	--	--	--	--	--	--	--	--
26...	.04	.01	.03	--	--	110	--	--	--	--
SEP										
14...	--	--	--	--	--	--	--	--	--	--
23...	.35	.01	.03	--	--	70	--	--	--	--
OCT										
19...	.58	.01	.03	--	--	40	--	--	--	--
NOV										
17...	.30	.01	.03	--	--	80	--	--	--	--

DATE	HEXA- VALENT CHRO- MIUM (CM6) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (MG) (UG/L)
AUG , 1975										
13...	--	550	20	--	--	--	110	60	50	--
SEP										
30...	0	640	30	13	5	8	140	20	120	<.5
OCT										
29...	--	--	--	--	--	--	--	--	--	--
30...	--	1100	40	--	--	--	150	20	130	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
11...	0	2100	10	7	7	0	180	40	140	<.5
MAR										
26...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
24...	--	550	30	--	--	--	240	--	--	--
JUN										
23...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	1	500	30	11	6	5	100	40	60	<.5
AUG										
26...	--	--	40	--	--	--	--	--	80	--
SEP										
23...	--	--	60	--	--	--	--	--	110	--
OCT										
19...	--	--	50	--	--	--	--	--	230	--
NOV										
17...	--	--	50	--	--	--	--	--	210	--

DATE	SUS- PENDE MERCURY (MG) (UG/L)	DIS- SOLVED MERCURY (MG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
AUG , 1975									
13...	--	--	--	--	--	3.0	--	20	--
SEP									
30...	.0	<.5	20	10	10	5.6	13	4	--
OCT									
29...	--	--	--	--	--	--	--	13	8.6
30...	--	--	--	--	--	--	--	25	16
NOV									
25...	--	--	--	--	--	--	91	14	17
FEB , 1976									
11...	.0	<.5	30	20	10	4.3	87	118	392
MAR									
26...	--	--	--	--	--	--	1100	25	108
APR									
28...	--	--	--	--	--	--	2300	16	16
MAY									
24...	--	--	--	--	--	--	4500	17	18
JUN									
23...	--	--	--	--	--	--	6300	324	611
JUL									
28...	.0	<.5	30	10	20	6.5	--	14	5.0
AUG									
26...	--	--	--	--	--	5.2	1200	22	5.9
SEP									
23...	--	--	--	--	--	1.8	--	27	8.7
OCT									
19...	--	--	--	--	--	2.4	130	--	--
NOV									
17...	--	--	--	--	--	2.7	150	--	--

GUYANDOTTE RIVER BASIN

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03203600 GUYANDOTTE RIVER AT LOGAN, WV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	394	477	392	133	---	310	226	472	544	542	585	606
2	414	470	389	131	---	319	210	491	553	545	592	654
3	586	479	397	174	---	326	275	464	470	549	567	655
4	497	469	401	253	---	339	228	469	470	544	649	632
5	590	466	424	198	---	319	222	486	494	538	666	616
6	494	479	361	194	---	271	242	489	494	575	563	639
7	495	462	399	211	---	278	257	490	501	595	454	639
8	503	466	387	226	---	379	279	498	406	540	491	602
9	---	265	374	247	198	368	306	---	432	920	477	605
10	---	444	362	271	235	259	319	495	434	529	469	661
11	---	461	353	273	240	181	386	508	481	508	477	659
12	---	211	352	284	251	244	375	514	503	543	526	587
13	---	234	357	282	265	186	360	514	516	563	519	610
14	---	234	236	294	223	181	397	506	518	565	532	590
15	---	203	235	190	196	244	382	---	509	562	496	591
16	424	257	294	195	195	260	380	---	439	565	476	588
17	---	234	224	196	168	271	430	463	376	579	524	585
18	---	240	238	258	123	236	435	427	325	564	611	456
19	---	254	234	258	124	252	415	489	324	584	620	452
20	360	253	234	284	136	206	426	366	377	598	646	453
21	364	260	256	311	178	177	434	345	375	651	643	534
22	---	358	257	291	302	190	439	339	449	650	627	536
23	---	360	285	312	258	194	438	367	467	671	639	520
24	---	356	305	285	246	196	453	338	476	678	640	523
25	---	339	296	284	255	220	455	415	513	681	667	451
26	456	358	261	266	261	255	453	442	520	682	672	450
27	---	358	274	220	266	297	450	467	489	653	651	404
28	---	357	271	263	305	296	453	485	485	680	638	457
29	444	374	263	271	332	252	467	482	508	667	614	456
30	451	391	255	284	---	261	473	495	511	667	583	311
31	451	---	228	276	---	250	---	---	---	606	607	---
MONTH	---	352	309	246	---	259	369	456	465	593	578	551
YEAR	MAX	682	MIN	123	MEAN	407						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	14.0	7.0	4.5	---	13.0	15.0	17.0	24.0	25.0	25.0	20.5
2	16.0	13.5	8.0	4.5	---	14.0	15.0	17.0	---	25.0	24.0	22.0
3	15.5	13.5	5.0	4.5	---	14.5	14.0	14.0	25.0	24.0	24.0	23.0
4	15.0	14.0	6.0	4.0	---	15.0	15.0	18.0	---	26.0	24.0	20.0
5	16.0	13.5	6.5	4.0	---	12.0	16.0	18.0	28.0	24.0	27.0	22.0
6	16.5	12.0	4.5	3.5	---	12.0	16.0	18.0	25.0	24.0	24.0	19.5
7	16.0	13.5	5.0	4.0	---	11.0	16.0	18.0	25.0	24.0	23.0	19.0
8	14.5	14.0	5.0	0.5	---	10.0	16.0	19.0	24.0	25.0	24.0	18.5
9	---	13.0	6.0	0.5	5.0	10.0	14.0	---	25.0	23.0	32.0	19.0
10	---	13.5	4.5	0.0	7.0	10.0	14.0	22.0	27.0	26.0	22.0	23.0
11	---	12.0	3.5	0.5	8.0	10.0	14.0	22.0	25.0	27.0	25.0	26.0
12	---	12.0	5.5	1.5	8.0	11.0	14.0	22.0	28.0	30.0	27.0	21.0
13	---	11.0	3.0	1.0	9.0	11.0	16.0	23.0	29.0	26.0	24.0	18.0
14	---	10.0	3.5	1.0	11.0	11.0	17.0	23.0	27.0	26.0	23.0	19.0
15	---	8.0	4.5	2.0	12.0	11.0	16.0	---	26.0	32.0	24.0	18.5
16	15.5	9.0	1.5	2.0	12.0	10.0	17.0	---	25.0	26.0	24.0	18.0
17	---	6.5	4.5	1.0	12.0	---	18.0	22.0	27.0	26.0	24.0	18.0
18	---	8.0	1.5	0.5	12.0	11.0	20.0	20.0	26.0	26.0	24.0	19.0
19	---	8.0	0.5	0.0	13.0	---	24.0	26.0	24.0	26.0	23.0	19.5
20	13.0	7.0	0.5	0.5	14.0	12.0	24.0	15.0	22.0	26.0	23.0	18.5
21	13.5	6.5	0.5	0.5	13.0	11.0	24.0	26.0	23.0	26.0	20.0	18.5
22	---	6.5	0.5	0.0	13.0	11.0	24.0	26.0	22.0	27.0	23.0	22.0
23	---	6.5	-1.0	0.5	12.0	12.0	24.0	20.0	22.0	27.0	23.5	18.5
24	---	6.0	-1.0	1.0	12.0	12.0	23.0	23.5	25.0	26.0	24.0	23.0
25	---	6.0	-1.0	1.0	16.0	12.0	23.0	20.0	25.0	27.0	23.0	18.0
26	13.5	6.0	1.5	1.0	18.0	14.0	22.0	18.0	25.0	27.0	24.5	18.0
27	---	5.5	---	1.0	18.0	12.0	20.0	26.0	28.0	28.0	21.5	18.5
28	---	5.0	3.5	0.5	13.0	12.0	20.0	20.0	29.0	25.0	22.0	21.0
29	14.5	5.0	4.0	1.5	13.0	13.0	20.0	---	27.0	27.0	24.0	20.0
30	14.0	7.0	4.0	1.5	---	17.0	19.0	23.0	26.0	26.0	20.5	20.0
31	13.5	---	4.5	2.0	---	16.0	---	---	---	27.0	20.0	---
MONTH	---	9.5	3.5	1.5	---	12.0	18.5	21.0	25.5	26.5	23.5	20.0
YEAR	MAX	32.0	MIN	-1.0	MEAN	15.5						

GUYANDOTTE RIVER BASIN

03203600 GUYANDOTTE RIVER AT LOGAN, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	397			270	---	---	205	43	24
2	349			223	---	---	384	60	62
3	317			203	---	---	247	55	37
4	303			262	---	---	171	31	14
5	353			213	---	---	146	23	9.1
6	379			309	---	---	160	32	14
7	444			267	---	---	154	29	12
8	721			271	---	---	149	27	11
9	568			213	---	---	144	23	8.9
10	633			221	---	---	133	18	6.5
11	677			237	---	---	122	13	4.3
12	524			260	---	---	330	196	175
13	451			220	---	---	348	182	171
14	385			206	---	---	321	167	145
15	402			288	---	---	232	137	86
16	538			306	---	---	168	76	34
17	466			475	---	---	151	31	13
18	589			373	---	---	183	46	23
19	485			336	---	---	250	44	30
20	449			254	---	---	347	124	116
21	495			213	---	---	396	247	264
22	591			184	---	---	306	262	216
23	449			178	---	---	480	326	422
24	367			164	25	11	1980	347	1860
25	358			157	24	10	1450	282	1100
26	409			145	11	4.3	743	174	349
27	328			139	18	6.8	478	106	137
28	282			135	16	5.8	356	75	72
29	249			135	30	11	284	18	14
30	223			131	24	8.5	238	8	5.1
31	269			129	31	11	---	---	---
TOTAL	13495			7117	---	---	11056	---	5434.9
YEAR	625071		5503.3						
DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	209	18	10	226	21	13	345	105	98
2	216	16	9.3	219	16	9.5	325	142	125
3	200	14	7.6	212	7	4.0	304	61	50
4	176	14	6.7	205	5	2.8	288	25	19
5	163	12	5.3	199	23	12	278	52	39
6	153	11	4.5	194	23	12	271	47	34
7	148	10	4.0	189	18	9.2	351	45	43
8	157	11	4.7	205	22	12	398	45	48
9	209	24	14	216	42	24	448	43	52
10	233	40	25	251	19	13	477	44	57
11	236	35	22	268	19	14	503	47	64
12	192	30	16	2970	1330	10700	500	38	51
13	177	28	13	5410	1750	25600	481	26	34
14	164	25	11	2720	1230	9030	462	26	32
15	156	22	9.3	1640	240	1060	483	34	49
16	162	28	12	1250	77	260	1470	403	1750
17	1050	316	967	1110	53	159	1720	197	915
18	1380	136	507	1010	39	106	1410	62	236
19	910	76	187	895	44	106	1070	34	98
20	618	52	87	765	57	118	835	19	43
21	462	37	46	691	43	80	739	10	20
22	370	25	25	636	21	36	651	10	18
23	315	21	18	551	16	24	526	19	27
24	280	19	14	510	17	23	400	18	19
25	250	16	11	476	15	19	476	23	30
26	230	14	8.7	436	15	18	742	23	46
27	240	14	9.1	412	28	31	950	30	77
28	230	13	8.1	387	33	34	966	35	91
29	220	15	8.9	359	41	40	865	56	131
30	243	19	12	333	55	49	820	62	137
31	233	18	11	---	---	---	1030	466	1560
TOTAL	9982	---	2094.2	24945	---	47618.5	20584	---	5993

GUYANDOTTE RIVER BASIN

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03203600 GUYANDOTTE RIVER AT LOGAN, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7430	331	5990	1450	20	78	1060	32	92
2	6180	150	2500	1430	16	62	972	31	81
3	3450	58	540	1330	13	47	894	21	51
4	4200	18	204	1250	11	37	821	17	38
5	3120	31	261	1180	9	29	769	60	125
6	2060	49	273	1370	17	63	738	33	66
7	1620	39	171	1930	76	396	708	12	23
8	1460	29	114	1970	55	293	634	5	8.6
9	1220	23	76	1700	71	326	770	27	56
10	960	19	49	1390	52	195	2270	319	2160
11	800	25	54	1260	76	259	2710	150	1100
12	1040	40	112	1220	58	191	2020	53	289
13	1050	217	615	1160	148	464	1650	38	169
14	2480	1120	7460	1710	116	536	1390	102	383
15	2740	30	222	2270	60	368	1160	38	119
16	2040	40	220	2070	118	660	1120	44	133
17	1660	29	130	2640	303	2160	1230	103	342
18	1310	23	81	7790	450	9460	1160	41	128
19	800	21	45	7580	354	7240	1120	45	136
20	921	15	37	5260	252	3580	1130	37	113
21	982	15	40	3140	113	958	2630	295	2390
22	840	36	82	2400	20	130	3220	158	1370
23	734	19	38	2060	25	139	2380	109	700
24	801	46	99	1750	90	425	1880	212	1080
25	1010	65	177	1620	60	262	1640	100	443
26	1410	170	647	1530	46	190	1560	186	783
27	2210	272	1620	1410	23	88	1440	670	2600
28	3640	111	1090	1280	13	45	1350	502	1830
29	2950	45	358	1160	95	298	1220	79	260
30	2100	61	346	---	---	---	1230	116	385
31	1670	37	167	---	---	---	1290	103	359
TOTAL	64888	---	23818	64310	---	28979	44166	---	17812.6
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1740	105	493	340	12	11	400	18	19
2	2270	94	576	360	116	113	427	23	27
3	2000	247	1330	405	54	59	424	12	14
4	1670	38	171	360	13	13	390	12	13
5	1450	25	98	325	17	15	328	8	7.1
6	1220	17	56	306	52	43	279	5	3.8
7	1070	16	46	293	38	30	243	13	8.5
8	948	13	33	288	59	46	223	10	6.0
9	843	11	25	266	47	34	210	9	5.1
10	753	11	22	253	17	12	199	12	6.4
11	704	9	17	253	9	6.1	181	12	5.9
12	674	10	18	284	9	6.9	176	7	3.3
13	618	8	13	330	11	9.8	192	7	3.6
14	582	10	16	284	23	18	230	27	17
15	554	36	54	277	26	19	639	69	119
16	522	80	113	313	33	28	553	88	131
17	498	83	112	474	30	38	381	149	153
18	480	105	136	556	226	361	299	100	81
19	450	28	34	814	193	424	270	75	55
20	426	10	12	974	107	281	342	95	88
21	420	12	14	719	60	116	347	225	211
22	444	23	28	556	63	95	566	333	509
23	438	44	52	467	84	106	455	332	408
24	405	103	113	405	52	57	366	193	191
25	380	109	112	354	20	19	286	95	73
26	380	43	44	327	16	14	258	69	48
27	360	13	13	302	7	5.7	266	45	32
28	350	12	11	276	6	4.5	249	36	24
29	340	8	7.3	273	10	7.4	205	29	16
30	325	10	8.8	303	18	15	186	13	6.5
31	---	---	---	319	32	28	---	---	---
TOTAL	23314	---	3778.1	12056	---	2035.4	9570	---	2285.2

GUYANDOTTE RIVER BASIN

03203600 GUYANDOTTE RIVER AT LOGAN, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	173	11	5.1	346	128	120	120	46	15
2	164	19	8.4	303	136	111	126	40	14
3	188	18	9.1	294	51	40	137	29	11
4	262	22	16	187	37	19	129	44	15
5	272	28	21	153	31	13	145	39	15
6	281	81	61	146	98	39	124	23	7.7
7	333	88	79	317	152	130	113	15	4.6
8	378	49	50	203	85	47	105	36	10
9	376	95	90	177	70	33	101	81	22
10	279	70	53	148	58	23	126	84	29
11	269	18	13	127	39	13	123	37	12
12	216	15	8.7	120	25	8.1	235	95	62
13	179	15	7.2	118	51	16	159	17	7.3
14	155	16	6.7	175	105	50	124	36	12
15	151	17	6.9	209	75	42	124	85	28
16	143	16	6.2	189	60	31	139	91	34
17	146	11	4.3	186	50	25	273	105	78
18	162	11	4.8	175	46	22	243	68	45
19	162	21	9.2	143	40	15	192	49	25
20	146	20	7.9	125	29	9.8	152	53	22
21	134	15	5.4	116	27	8.5	144	52	20
22	127	16	5.5	112	31	9.4	128	49	17
23	123	8	2.7	108	27	7.9	119	47	15
24	118	14	4.5	104	26	7.3	115	24	7.5
25	128	14	4.8	102	28	7.7	112	13	3.9
26	128	10	3.5	100	24	6.5	118	26	8.3
27	144	7	2.7	101	43	12	185	81	40
28	130	14	4.9	112	80	24	501	156	211
29	122	21	6.9	130	75	26	753	155	315
30	206	37	21	140	44	17	1180	586	1860
31	297	30	24	134	44	16	---	---	---
TOTAL	6092	---	553.4	5100	---	949.2	6345	---	2966.3
YEAR	291352		170752.9						

03203600 GUYANDOTTE RIVER AT LOGAN, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Sep 30, 1975	1400	CHRY SOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Cocconeis		<1	
		Naviculaceae			
		Navicula	13	100	
		TOTAL	13		
Nov 25	1430	CHRY SOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	8	9	
		Pennales			
		Achnanthaceae			
		Achnanthes		<1	
		Rhoicosphenia	8	9	
		Cymbellaceae			
		Cymbella	8	9	
		Diatomaceae			
		Diatoma	8	9	
		Naviculaceae			
		Navicula	50	55	
		Nitzschiaceae			
		Nitzschia	8	9	
		TOTAL	91		
Feb 11, 1976	1100	CHRY SOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	11	12	
		Cymbellaceae			
		Cymbella	11	12	
		Diatomaceae			
		Diatoma	22	25	
		Fragilariaceae			
		Synedra	11	12	
		Gomphonemataceae			
		Gomphonema	11	12	
		Naviculaceae			
		Navicula	11	12	
		Nitzschiaceae			
		Nitzschia	11	12	
		TOTAL	87		
Mar 26	1000	CHRY SOPHYTA			
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		Cymbella		<1	
		Fragilariaceae			
		Synedra	52	5	
		Gomphonemataceae			
		Gomphonema	52	5	
		Naviculaceae			
		Navicula	940	82	
		Nitzschiaceae			
		Nitzschia	100	9	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas		<1	
		TOTAL	1100		

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Apr 28	1315	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus		<1	
		Dictyosphaerium	280	13	
		Zygnematales			
		Desmidiaceae			
		Cosmarium	57	3	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	230	10	
		Melosira	230	10	
		Pennales			
		Achnanthaceae			
		Achnanthes	110	5	
		Naviculaceae			
		Navicula	450	20	
		Nitzschiaceae			
		Nitzschia	680	30	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	230	10	
		TOTAL	2300		
May 24	1630	CHLOROPHYTA			
		Chlorophyceae			
		Zygnematales			
		Desmidiaceae			
		Cosmarium	86	2	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	350	8	
		Pennales			
		Achnanthaceae			
		Achnanthes	1100	25	
		Gomphonemataceae			
		Gomphonema	86	2	
		Naviculaceae			
		Navicula	1700	38	
		Neidium	86	2	
		Nitzschiaceae			
		Nitzschia	950	21	
		Achnanthaceae			
		Rhoicosphenia	86	2	
		TOTAL	4500		
June 23	1100	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	63	1	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	820	13	
		Pennales			
		Achnanthaceae			
		Achnanthes	510	8	
		Cymbellaceae			
		Cymbella	130	2	
		Fragilariaceae			
		Synedra	440	7	
		Gomphonemataceae			
		Gomphonema	130	2	
		Naviculaceae			
		Navicula	2300	37	
		Nitzschiaceae			
		Nitzschia	950	15	
		Surirellaceae			
		Surirella	250	4	
		Achnanthaceae			
		Rhoicosphenia	130	2	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	510	8	
		TOTAL	6300		

GUYANDOTTE RIVER BASIN

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03203600 GUYANDOTTE RIVER AT LOGAN, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Aug 26	1045	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		Scenedesmus	110	10	
		Volvocales			
		Volvocaceae			
		Gonium	180	16	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	80	7	
		Melosira	550	47	
		Pennales			
		Cymbellaceae			
		Cymbella	57	5	
		Naviculaceae			
		Navicula	57	5	
		Nitzschiaceae			
		Nitzschia	92	8	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas	34	3	
		TOTAL	1200		
Oct 19	1200	CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	17	14	
		Pennales			
		Diatomaceae			
		Diatoma	17	14	
		Naviculaceae			
		Navicula	10	8	
		Nitzschiaceae			
		Nitzschia	3	3	
		Chrysophyceae			
		Chrysomonadales			
		Mallomonadaceae			
		Mallomonas	3	3	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	68	54	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas	7	5	
		TOTAL	130		

GUYANDOTTE RIVER BASIN

03203600 GUYANDOTTE RIVER AT LOGAN, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Nov 17	1015	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	11	8	
		Melosira	6	4	
		Pennales			
		Cymbellaceae			
		Cymbella	3	2	
		Fragilariaceae			
		Fragilaria	6	4	
		Gomphonemataceae			
		Gomphonema	3	2	
		Naviculaceae			
		Navicula	20	13	
		Nitzschiaceae			
		Nitzschia	17	11	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	85	57	
		TOTAL	150		
Feb 11, 1977	1400	CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		Cymbella		<1	
		Diatomaceae			
		Diatoma	7	7	
		Fragilariaceae			
		Synedra	67	64	
		Gomphonemataceae			
		Gomphonema		<1	
		Naviculaceae			
		Navicula	7	7	
		Nitzschiaceae			
		Nitzschia	15	14	
		Surirellaceae			
		Surirella	7	7	
		TOTAL	100		

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LOCATION.--Lat 37°48'28", long 82°01'42", Logan County, Hydrologic Unit 05070101, 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).

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

GAGE.--Water-stage recorder. Concrete control since Sept. 11, 1969. Altitude of gage is 760 ft (232 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 14.2 ft³/s (0.402 m³/s), 17.69 in/yr (449 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 665 ft³/s (18.8 m³/s) Apr. 25, 1975, gage height, 4.90 ft (1.494 m), from rating curve extended above 100 ft³/s (2.83 m³/s) by step-backwater method; no flow for several days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 184 ft³/s (5.21 m³/s) Nov. 12, gage height, 3.07 ft (0.936 m), from rating curve extended as explained above, no other peak above base of 100 ft³/s (2.8 m³/s); no flow for many days.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.0	5.2	76	18	11	42	3.3	.75	.03	4.2	0
2	1.6	2.0	3.8	49	16	10	42	3.2	.87	0	1.2	0
3	1.2	1.9	3.4	42	15	10	31	4.1	.81	4.1	.65	0
4	.80	1.8	3.0	42	14	9.6	24	2.5	.43	2.7	.51	0
5	.60	1.6	2.7	38	12	9.6	22	1.8	.19	.87	.11	0
6	.42	1.6	3.8	27	18	9.6	17	1.5	.15	1.6	4.8	0
7	.37	2.1	7.8	22	17	8.9	14	2.4	.11	2.4	6.3	0
8	1.1	2.1	7.8	21	18	8.9	12	2.2	.03	1.3	3.2	0
9	1.0	1.4	8.9	19	17	13	10	1.3	0	1.0	1.9	0
10	.32	2.0	9.3	15	15	16	9.7	1.1	0	.75	.94	.94
11	.25	1.9	8.2	18	14	15	8.8	1.8	0	.51	.60	0
12	.19	100	7.0	18	13	16	8.8	1.3	0	.31	.51	0
13	.13	71	6.3	22	15	18	6.8	.94	.43	.23	.51	0
14	.07	42	5.8	38	30	17	5.6	.81	.47	.07	.27	0
15	.03	32	9.6	38	36	15	5.1	1.1	.11	0	1.8	0
16	1.9	25	35	32	31	16	4.8	1.6	0	.07	1.2	0
17	14	21	36	27	52	15	4.2	1.9	0	.23	.65	0
18	14	16	27	21	83	12	3.9	4.2	0	0	.47	0
19	9.3	13	19	16	72	10	3.7	3.0	.81	0	.39	0
20	7.4	11	16	15	53	11	3.5	1.6	3.7	0	.23	0
21	4.9	12	14	13	39	62	3.5	1.3	1.6	0	.11	0
22	3.2	11	11	10	34	64	3.5	1.0	1.1	0	0	0
23	2.4	9.6	8.0	8.5	32	43	3.3	.94	2.5	0	0	0
24	1.9	8.5	5.0	7.4	25	31	2.8	.94	.81	0	0	0
25	1.6	7.8	7.4	7.8	20	26	2.7	.81	.65	0	0	0
26	3.2	6.7	11	8.5	18	22	3.7	.81	.51	0	0	.51
27	2.7	5.4	12	13	16	17	3.3	.70	.31	0	0	3.7
28	1.9	4.9	11	16	14	15	3.0	.75	.19	0	0	3.0
29	2.4	4.2	9.6	17	13	14	2.5	.87	.11	0	0	1.6
30	3.0	4.0	8.2	18	---	14	2.2	.94	.19	5.3	0	33
31	2.0	---	19	17	---	16	---	.75	---	3.2	0	---
TOTAL	85.28	425.5	341.8	732.2	770	575.6	309.4	514.6	16.83	24.67	30.35	42.75
MEAN	2.75	14.2	11.0	23.6	26.6	18.6	10.3	16.66	.56	.80	.98	1.43
MAX	14	100	36	76	83	64	42	4.2	3.7	5.3	6.3	33
MIN	.03	1.4	2.7	7.4	12	8.9	2.2	.70	0	0	0	0
CFSM	.25	1.30	1.01	2.17	2.44	1.71	.94	.15	.05	.07	.09	.13
IN.	.29	1.45	1.17	2.50	2.63	1.96	1.06	.18	.06	.08	.10	.15
CAL YR 1975	TOTAL	6710.33	MEAN	18.4	MAX	240	MIN	0	CFSM	1.69	IN	22.90
WTR YR 1976	TOTAL	3405.84	MEAN	9.31	MAX	100	MIN	0	CFSM	.85	IN	11.62

GUYANDOTTE RIVER BASIN

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03203700 ISLAND CREEK AT LOGAN, WV

LOCATION.--Lat 37°50'50", long 82°00'30", Logan County, Hydrologic Unit 05070101, at C & O Railroad bridge, 150 ft (46 m) downstream from Copperas Mine Fork, 0.5 mi (0.8 km) upstream from Coal Branch, and 1.0 mi (1.6 km) upstream from Logan.

DRAINAGE AREA.--103 mi² (267 km²).

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1976.

pH: April to September 1976.

WATER TEMPERATURES: April to September 1976.

TURBIDITY.--October 1975 to September 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 1,970 micromhos Aug. 6; minimum daily, 102 micromhos Jan. 11.

pH: Maximum daily during period April to September, 8.1 units Sept. 25, 29; minimum daily, 6.8 units Apr. 12.

WATER TEMPERATURES: Maximum daily during period April to September, 33.0°C July 15; minimum daily, 16.0°C Apr. 10.

TURBIDITY: Maximum daily, 200 JTU Sept. 29, 30; minimum daily, 2 JTU Dec. 6, 8, 10, Jan. 14, 31, July 22, Aug. 19.

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM-TUM-MF (COL./100 ML)	IMMEDIATE COLIFORM (COL./100 ML)	FECAL COLIFORM (COL./100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG , 1975											
13...	1030	54	950	--	21.0	--	7.9	--	--	13000	8000
SEP											
17...	1500	--	2200	--	19.0	--	--	--	--	--	--
30...	1300	55	1650	7.4	18.0	30	7.9	--	--	250000	4000
OCT											
29...	1145	39	1100	8.2	16.0	20	8.9	--	--	20600	9900
NOV											
25...	1500	118	900	7.5	8.5	20	9.0	--	--	1100	120
FEB , 1976											
11...	1030	243	450	7.2	10.0	45	9.6	--	9500	--	1600
MAR											
26...	1130	276	520	--	12.5	--	10.2	--	--	960	100
APR											
28...	1415	62	1100	7.8	13.5	9	9.8	--	--	820	1000
MAY											
25...	1130	41	1130	7.5	18.0	10	8.4	--	--	2900	900
JUN											
23...	1300	40	1100	7.8	21.0	15	9.8	--	--	7300	1000
JUL											
28...	0900	12	1500	7.2	23.0	3	6.8	--	--	2400	--
AUG											
26...	0930	19	1400	7.7	21.0	3	7.4	--	--	22000	9700
SEP											
23...	1130	16	1500	7.3	13.0	8	8.6	--	--	--	5900
OCT											
19...	1300	48	1020	7.7	11.0	30	9.0	--	--	5000	740
NOV											
17...	0930	42	910	7.8	5.0	20	10.2	2000	--	--	1600

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CaCO3 (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
AUG , 1975										
13...	260	130	--	--	60	26	130	3.5	7.3	152
SEP										
17...	--	--	--	--	--	--	--	--	--	--
30...	340	230	.0	.0	80	33	110	2.6	8.7	127
OCT										
29...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
11...	140	85	--	--	32	14	45	1.7	3.5	64
MAR										
26...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	250	110	--	--	58	25	140	3.9	7.8	170
JUN										
23...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	290	85	--	--	71	28	210	5.3	8.9	253
AUG										
26...	270	69	--	--	67	26	200	5.3	9.1	250
SEP										
23...	300	62	--	--	74	27	220	5.6	8.9	285
OCT										
19...	250	160	--	--	59	26	110	3.0	6.4	121
NOV										
17...	230	110	--	--	55	23	120	3.4	6.1	151

GUYANDOTTE RIVER BASIN

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03203700 ISLAND CREEK AT LOGAN, WV--Continued

WATER QUALITY DATA

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIU2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
AUG , 1975										
13...	0	125	--	400	10	.2	11	768	722	--
SEP										
17...	--	--	--	--	--	--	--	--	--	--
30...	0	104	8.1	480	12	.2	12	834	803	61
OCT										
29...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
11...	0	53	6.5	180	7.1	.1	9.1	356	325	--
MAR										
26...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	0	139	8.6	410	12	--	11	--	750	--
JUN										
23...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	0	208	26	470	15	.1	5.4	1010	937	--
AUG										
26...	0	205	8.0	460	18	.3	8.9	980	916	--
SEP										
23...	0	234	23	520	19	.2	12	980	1030	--
OCT										
19...	0	99	3.9	390	13	.2	13	664	682	--
NOV										
17...	0	124	3.8	380	12	.2	11	670	686	--

DATE	SUS- PENDE SOLIDS (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
AUG , 1975										
13...	--	.33	.02	.35	--	--	--	--	--	.01
SEP										
17...	--	--	--	--	--	--	--	--	--	--
30...	--	.39	.02	.41	.89	.51	1.4	.18	.01	.01
OCT										
29...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
11...	--	.42	.00	.42	--	--	--	--	--	.00
MAR										
26...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	--	.34	.04	.38	--	--	--	--	--	.01
JUN										
23...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	8	.41	.08	.49	--	--	--	--	--	.06
AUG										
26...	--	.37	.11	.48	--	--	--	--	--	.01
SEP										
23...	--	.62	.07	.69	--	--	--	--	--	.01
OCT										
19...	--	.64	.02	.66	--	--	--	--	--	.02
NOV										
17...	--	.46	.02	.48	--	--	--	--	--	.01

GUYANDOTTE RIVER BASIN

03203700 ISLAND CREEK AT LOGAN, WV--Continued

WATER QUALITY DATA

DATE	DIS- SOLVED ORTHOPHOS- PHATE (PO4) (MG/L)	TOTAL HYDRO- LYZABLE PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
AUG , 1975										
13...	.03	--	--	1800	1700	100	--	--	--	--
SEP										
17...	--	--	--	--	--	--	--	--	--	--
30...	.03	.14	.03	700	560	140	1	1	0	0
OCT										
29...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
11...	.00	--	--	3000	2970	30	0	0	0	10
MAR										
26...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	.03	--	--	--	--	80	--	--	--	--
JUN										
23...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	.18	--	--	470	360	110	4	2	2	<10
AUG										
26...	.03	--	--	--	--	100	--	--	--	--
SEP										
23...	.03	--	--	--	--	70	--	--	--	--
OCT										
19...	.06	--	--	--	--	30	--	--	--	--
NOV										
17...	.03	--	--	--	--	60	--	--	--	--
DATE	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
AUG , 1975										
13...	--	2400	30	--	--	--	840	--	840	--
SEP										
17...	--	--	--	--	--	--	--	--	--	--
30...	0	5300	450	15	10	5	1700	0	1700	<.5
OCT										
29...	--	--	--	--	--	--	--	--	--	--
NOV										
25...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
11...	0	5500	500	19	19	0	520	50	470	<.5
MAR										
26...	--	--	--	--	--	--	--	--	--	--
APR										
28...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	--	4100	130	--	--	--	850	--	850	--
JUN										
23...	--	--	--	--	--	--	--	--	--	--
JUL										
28...	1	990	40	19	13	6	870	10	860	<.5
AUG										
26...	--	--	40	--	--	--	--	--	780	--
SEP										
23...	--	--	130	--	--	--	--	--	900	--
OCT										
19...	--	--	1300	--	--	--	--	--	890	--
NOV										
17...	--	--	1300	--	--	--	--	--	780	--

GUYANDOTTE RIVER BASIN

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03203700 ISLAND CREEK AT LOGAN, WV--Continued

WATER QUALITY DATA

DATE	SUS- PENDE MERCURY (MG) (UG/L)	DIS- SOLVED MERCURY (MG) (UG/L)	TOTAL ZINC (Zn) (UG/L)	SUS- PENDE ZINC (Zn) (UG/L)	DIS- SOLVED ZINC (Zn) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT OIS- CHARGE (T/DAY)
AUG , 1975									
13...	--	--	--	--	--	3.0	--	37	--
SEP									
17...	--	--	--	--	--	--	--	81	--
30...	.0	<.5	70	30	40	4.0	26	77	--
OCT									
29...	--	--	--	--	--	--	--	24	2.5
NOV									
25...	--	--	--	--	--	--	44	26	8.3
FEB , 1976									
11...	.0	<.5	50	30	20	5.8	140	120	79
MAR									
26...	--	--	--	--	--	--	110	19	14
APR									
28...	--	--	--	--	--	--	--	19	3.2
MAY									
25...	--	--	--	--	--	--	2900	19	2.1
JUN									
23...	--	--	--	--	--	--	--	21	2.3
JUL									
28...	.0	<.5	20	10	10	5.4	650	14	.45
AUG									
26...	--	--	--	--	--	2.7	--	7	.36
SEP									
23...	--	--	--	--	--	3.6	180	20	.86
OCT									
19...	--	--	--	--	--	--	--	23	3.0
NOV									
17...	--	--	--	--	--	2.7	--	21	2.4

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C); WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	990	390	257	483	606	433	963	---	1390	---	1400
2	1350	1050	850	258	542	619	544	1090	---	1240	---	1400
3	1380	1000	770	456	503	650	607	964	---	1230	---	1400
4	1360	996	862	392	485	661	570	1080	---	1230	---	970
5	1240	1020	864	166	363	730	499	1080	---	1240	---	970
6	1350	1060	303	384	539	562	544	1200	---	1300	1970	970
7	1370	995	600	459	447	561	569	1230	---	920	520	---
8	1220	999	575	462	541	726	611	1210	---	954	860	970
9	1230	1000	535	463	450	503	503	1240	---	1250	970	1350
10	1380	987	339	387	144	501	957	1200	---	1260	1080	---
11	1380	988	277	102	490	654	647	1180	1430	1380	1200	---
12	1410	157	217	470	544	559	957	1200	1410	1380	1250	1300
13	1380	282	502	447	511	561	976	1220	1410	1380	860	---
14	1410	303	262	345	264	560	941	1250	1300	1380	860	1300
15	1410	505	403	357	320	646	975	1180	1390	1360	860	---
16	1340	550	217	261	315	557	961	1250	1410	1370	860	1300
17	382	513	255	480	505	556	942	1110	1430	1370	1080	1300
18	415	549	647	500	508	559	1040	910	1080	1410	1080	1300
19	695	590	278	393	255	554	938	898	1080	1450	1200	1350
20	701	620	420	499	314	---	1040	1000	1070	1450	1250	1300
21	814	624	653	149	319	262	959	1030	1060	1480	1250	1300
22	836	769	399	437	467	257	1070	1080	1070	1490	1250	1350
23	911	832	650	176	492	408	1010	1130	1220	---	1300	1450
24	963	836	174	440	474	409	1080	1180	1080	---	1300	1450
25	896	778	648	225	495	426	1010	1220	1350	---	1300	860
26	1000	843	297	245	512	573	1010	1220	1370	---	1300	810
27	960	774	424	229	511	424	1050	1230	1360	---	1200	1400
28	1020	836	426	244	254	856	1070	1250	1360	---	1400	860
29	920	834	394	507	243	499	1090	1160	1250	---	1400	530
30	890	832	426	400	---	614	963	---	1260	---	1300	530
31	915	---	261	466	---	408	---	---	---	---	970	---
MONTH	1090	770	462	357	424	549	852	1140	---	---	1150	1160
YEAR	MAX	1970	MIN	102	MEAN	847						

GUYANDOTTE RIVER BASIN
03203700 ISLAND CREEK AT LOGAN, WV--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	7.2	---	7.7	---	7.9
2							---	7.2	---	7.7	---	7.9
3							---	7.3	---	7.6	---	8.0
4							---	7.1	---	7.5	---	8.0
5							---	7.1	---	7.5	---	8.0
6							---	7.2	---	7.5	7.5	8.0
7							---	7.1	---	7.3	7.6	---
8							---	7.2	---	7.3	7.5	8.0
9							---	7.2	---	7.4	7.5	8.0
10							7.2	7.2	---	7.4	7.5	---
11							7.2	7.1	7.4	7.4	7.6	---
12							6.8	7.1	7.4	7.4	7.6	8.0
13							7.0	7.0	7.3	7.6	7.7	---
14							7.1	7.2	7.3	7.5	7.9	7.9
15							7.2	7.2	7.5	7.5	7.8	---
16							7.4	7.1	7.5	7.5	7.8	7.9
17							7.2	7.1	7.5	7.5	7.8	8.0
18							7.2	7.1	7.5	7.5	7.7	8.0
19							7.1	7.2	7.5	7.7	7.8	8.0
20							6.9	7.0	7.4	7.5	7.7	7.9
21							7.1	7.1	7.4	7.5	7.8	8.0
22							7.2	7.2	7.5	7.5	7.8	8.0
23							7.1	7.2	7.5	---	7.8	7.9
24							7.1	7.1	7.4	---	7.9	8.0
25							7.1	7.1	7.5	---	7.9	8.1
26							6.9	7.5	7.5	---	8.0	8.0
27							6.9	7.3	7.5	---	8.0	7.9
28							7.1	7.3	7.6	---	7.9	8.0
29							7.1	7.2	7.5	---	7.9	8.1
30							7.1	---	7.6	---	7.9	8.0
31							---	---	---	---	8.0	---
MONTH							---	7.2	---	---	7.8	8.0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	19.0	---	32.0	---	23.0
2							---	18.0	---	25.0	---	23.0
3							---	18.0	---	23.0	---	24.0
4							---	18.0	---	25.0	---	23.0
5							---	18.0	---	23.0	---	21.0
6							---	19.0	---	23.0	23.0	22.0
7							---	19.0	---	23.0	22.0	---
8							---	19.0	---	23.0	23.0	23.0
9							---	20.0	---	23.0	23.0	23.0
10							16.0	21.0	---	25.0	20.0	---
11							17.0	21.0	24.0	24.0	23.0	---
12							17.0	21.0	27.0	25.0	25.0	22.0
13							17.0	23.0	26.0	23.0	23.0	---
14							18.0	22.0	25.0	25.0	22.0	22.0
15							18.0	21.0	26.0	33.0	23.0	---
16							18.0	20.0	23.0	30.0	23.0	21.0
17							20.0	20.0	25.0	25.0	22.0	20.0
18							20.0	19.0	24.0	25.0	23.0	21.0
19							22.0	19.0	21.0	25.0	22.0	21.0
20							22.0	15.0	22.0	26.0	22.0	20.0
21							23.0	27.0	20.0	24.0	21.0	22.0
22							24.0	30.0	22.0	25.0	24.0	21.0
23							24.0	18.0	22.0	---	21.0	20.0
24							23.0	19.0	24.0	---	21.0	20.0
25							24.0	19.0	23.0	---	22.0	21.0
26							20.0	18.0	24.0	---	23.0	20.0
27							20.0	25.0	25.0	---	22.0	21.0
28							20.0	21.0	27.0	---	23.0	20.0
29							22.0	26.0	23.0	---	21.0	21.0
30							18.0	---	24.0	---	22.0	20.0
31							---	---	---	---	22.0	---
MONTH							---	20.5	---	---	22.5	21.5

GUYANDOTTE RIVER BASIN

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03203700 ISLAND CREEK AT LOGAN, WV--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	15	3	25	15	20	15	5	---	10	---	6
2	80	15	20	10	20	20	10	10	---	40	---	6
3	15	15	20	15	35	20	15	40	---	25	---	5
4	20	40	15	15	15	20	15	60	---	30	---	15
5	25	10	20	5	10	15	10	20	---	25	---	20
6	100	10	2	15	20	15	15	20	---	15	15	20
7	60	30	20	15	25	10	10	30	---	30	60	---
8	60	35	2	20	20	20	15	40	---	30	10	7
9	20	25	3	20	20	25	10	100	---	10	10	20
10	25	15	2	30	20	100	80	10	---	8	7	---
11	50	10	3	20	30	25	10	5	30	10	10	---
12	10	150	3	20	15	10	20	100	7	8	5	8
13	35	25	4	25	20	50	20	30	20	8	10	---
14	25	15	3	2	15	25	10	10	7	6	10	15
15	30	20	3	30	15	20	4	40	45	6	30	---
16	10	20	15	10	15	15	9	90	20	5	15	15
17	120	20	20	20	30	15	10	80	15	6	3	15
18	20	20	20	30	25	20	50	90	20	3	4	15
19	15	55	5	10	20	20	20	60	8	7	2	7
20	15	15	20	25	20	---	40	20	15	7	4	7
21	15	25	20	15	15	25	60	10	15	3	8	7
22	15	20	15	10	40	25	10	10	8	2	4	7
23	15	25	20	10	20	35	10	40	15	---	45	4
24	15	20	4	25	40	30	10	100	15	---	60	4
25	20	20	20	10	15	15	30	40	10	---	10	15
26	20	30	5	10	30	15	20	50	8	---	6	10
27	20	15	15	10	3	15	10	20	8	---	5	5
28	20	20	20	10	20	15	40	10	9	---	4	10
29	15	35	15	30	20	15	20	10	20	---	7	200
30	10	25	15	20	---	20	10	---	20	---	5	200
31	15	---	20	2	---	25	---	---	---	---	25	---
MONTH	30	25	10	15	20	25	20	40	---	---	15	25
YEAR	MAX	200	MIN	2	MEAN	20						

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Sep 30, 1975	1300	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Fragilariaceae			
		Synedra		<1	
		Naviculaceae			
		Navicula	13	50	
		Pinnularia	13	50	
		Nitzschiaceae			
		Nitzschia		<1	
		TOTAL	26		
Nov 25	1500	CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Naviculaceae			
		Navicula	44	100	
		TOTAL	44		
Feb 11, 1976	1030	CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Gomphonemataceae			
		Gomphonema	45	33	
		Naviculaceae			
		Navicula	15	11	
		Nitzschiaceae			
		Nitzschia	75	56	
		TOTAL	140		
Mar 26	1130	CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	21	19	
		Fragilariaceae			
		Synedra	21	19	
		Naviculaceae			
		Navicula	64	56	
		Nitzschiaceae			
		Nitzschia	7	6	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Lyngbya		<1	
		TOTAL	110		
May 25	1130	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		Scenedesmus	170	6	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	220	7	
		Fragilariaceae			
		Synedra	480	16	
		Gomphonemataceae			
		Gomphonema	130	4	
		Naviculaceae			
		Navicula	350	12	
		Nitzschiaceae			
		Nitzschia	650	22	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	870	30	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Euglena	44	1	
		TOTAL	2900		

03203700 ISLAND CREEK AT LOGAN, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
July 28	0900	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	55	8	
		Pennales			
		Achnanthaceae			
		Achnanthes	67	10	
		Fragilariaceae			
		Synedra	11	2	
		Gomphonemataceae			
		Gomphonema	11	2	
		Naviculaceae			
		Navicula	220	34	
		Nitzschiaceae			
		Nitzschia	210	32	
		Surirellaceae			
		Surirella	11	2	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Lyngbya	67	10	
		TOTAL	650		
Sep 23	1130	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	9	5	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	9	5	
		Pennales			
		Fragilariaceae			
		Synedra	37	20	
		Naviculaceae			
		Gyrosigma	9	5	
		Navicula	92	50	
		Pinnularia	18	10	
		Nitzschiaceae			
		Nitzschia	9	5	
		TOTAL	180		
Feb 11, 1977	1340	CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	12	2	
		Cymbellaceae			
		Cymbella	6	1	
		Diatomaceae			
		Diatoma	17	4	
		Eunotiaceae			
		Eunotia	17	4	
		Fragilariaceae			
		Synedra	41	9	
		Naviculaceae			
		Navicula	12	2	
		Surirellaceae			
		Surirella	41	9	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Gomposphaeria	12	2	
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	320	67	
		TOTAL	480		

03204000 GUYANDOTTE RIVER AT BRANCHLAND, WV

LOCATION.--Lat 38°13'15", long 82°12'10", Lincoln County, Hydrologic Unit 05070102, 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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1915 to September 1917, October 1917 to September 1922 (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.

REVISED RECORDS.--WSP 803: Drainage area. WSP 853: 1918(M). WSP 1335: 1916-17, 1929-30, 1932-35.

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.

REMARKS.--Water-discharge records good. High flows affected since 1974 by R. D. Bailey Lake at mile 112 (180 km). Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--49 years (water years 1916-17, 1930-76), 1,613 ft³/s (45.68 m³/s), 17.87 in/yr (454 mm/yr).

EXTREMES FOR 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).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood, probably in 1907, reached a stage of about 44 ft (13.4 m), from flood-mark, discharge, 43,500 ft³/s (1,250 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,270 ft³/s (234 m³/s) Jan. 2, gage height, 20.04 ft (6.108 m), backwater; minimum, 109 ft³/s (3.09 m³/s) Aug. 26, 27, gage height, 3.06 ft (0.933 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	375	612	4810	2600	1630	3620	444	400	254	426	162
2	315	380	600	6750	2440	1480	4030	486	474	226	432	158
3	305	360	570	7250	2290	1350	3810	516	528	214	355	170
4	271	340	534	6690	2080	1260	3090	552	492	266	345	174
5	249	325	510	6030	1930	1150	2530	468	438	335	242	154
6	219	310	528	4340	2250	1080	2120	432	375	320	202	166
7	203	300	734	3140	2580	994	1780	410	330	360	325	150
8	199	325	769	2810	3230	958	1540	395	295	405	474	129
9	219	345	818	2350	2970	944	1330	380	270	450	300	117
10	257	360	860	1920	2460	1840	1170	360	254	405	242	222
11	305	398	832	1500	2100	3250	1060	350	242	320	214	290
12	300	2380	818	2110	1900	3670	994	350	222	300	174	182
13	253	4490	783	2250	1840	2780	916	355	214	246	194	242
14	223	6060	741	3570	2410	2290	839	395	226	214	762	222
15	207	3470	762	4750	3410	1920	790	365	280	190	594	170
16	199	2230	2110	4260	3750	1680	755	370	630	202	528	170
17	798	1740	3400	3300	3470	1720	720	432	552	206	360	186
18	2820	1500	2780	2510	5670	1740	684	727	410	182	295	285
19	1910	1250	2030	1880	7240	1630	654	940	350	198	258	295
20	1280	1160	1550	1560	7650	1600	618	1090	400	198	218	254
21	912	1030	1260	1540	5860	4700	600	1070	504	190	178	210
22	707	932	1080	1470	4370	6490	612	804	432	170	150	198
23	581	832	908	1260	3590	5320	600	666	648	154	135	166
24	494	734	783	1200	3000	3930	576	570	528	147	126	144
25	422	666	776	1270	2600	3110	540	498	444	147	117	135
26	398	624	2170	1540	2390	2740	540	438	480	170	112	135
27	398	600	2250	2320	2220	2450	516	400	365	154	126	218
28	375	576	2050	3670	2000	2200	480	375	330	166	120	727
29	365	534	1760	4850	1810	1980	462	355	305	162	158	783
30	380	516	1550	4080	---	2060	438	365	275	158	150	2020
31	386	---	1880	3100	---	2200	---	385	---	290	166	---
TOTAL	16275	35142	38808	100080	92110	71951	38414	15743	11693	7399	8478	8634
MEAN	525	1171	1252	3228	3176	2321	1280	508	390	239	273	288
MAX	2860	6060	3400	7650	7650	6490	4030	1090	648	450	762	2020
MIN	199	300	510	1200	1810	949	438	350	214	147	112	117
CFSM	.43	.96	1.02	2.63	2.59	1.89	1.04	.41	.32	.19	.22	.23
IN.	.49	1.07	1.18	3.04	2.79	2.18	1.17	.48	.35	.22	.26	.26

CAL YR 1975 TOTAL 912842 MEAN 2501 MAX 23300 MIN 151 CFSM 2.04 IN 27.70
WTR YR 1976 TOTAL 444727 MEAN 1215 MAX 7650 MIN 112 CFSM .99 IN 13.49

GUYANDOTTE RIVER BASIN

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1976.

WATER TEMPERATURES: March to September 1976.

TURBIDITY: October 1975 to September 1976.

SUSPENDED-SEDIMENT DISCHARGE: March to September 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 845 micromhos Aug. 27; minimum daily, 119 micromhos Jan. 2.

WATER TEMPERATURES: Maximum daily during period March to September, 30.0°C July 23; minimum daily, 7.0°C

Mar. 17.

TURBIDITY: Maximum daily, 200 JTU Mar. 21, Aug. 15; minimum daily, 1 JTU on several days.

SEDIMENT CONCENTRATIONS: Maximum daily mean during period March to September, 1,920 mg/L Mar. 21; minimum daily mean, 8 mg/L June 9, 12-14.

SEDIMENT LOADS: Maximum daily during period March to September, 24,400 tons (22,100 tonnes) Mar. 21; minimum daily, 4.6 tons (4.2 tonnes) June 13.

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 1975										
11...	1700	458	410	7.7	24.0	--	7.2	--	2800	2600
SEP										
18...	1645	235	540	7.9	20.5	10	8.1	--	500	900
24...	1110	2160	261	--	--	--	--	--	--	--
30...	1045	345	500	8.0	17.0	15	9.0	--	480	260
OCT										
10...	1035	254	630	7.2	17.5	--	--	--	--	--
28...	1315	330	490	8.1	16.0	--	9.0	--	40	40
NOV										
19...	0945	1350	380	7.5	8.0	--	--	--	--	--
28...	1100	482	420	8.1	7.5	3	9.8	--	92	68
DEC										
17...	0900	3530	--	--	--	--	--	--	--	--
17...	1130	3410	240	7.6	6.0	--	--	--	--	--
FEB. 1976										
04...	1210	2090	200	7.2	3.0	--	--	--	--	--
10...	1315	2340	220	8.1	3.0	6	9.8	500	--	150
MAR										
10...	1630	1900	500	--	10.0	--	--	--	--	--
24...	1015	3930	200	8.4	13.0	20	8.3	--	720	400
APR										
21...	1120	585	560	7.2	22.0	--	--	--	--	--
29...	0930	315	540	7.2	14.0	2	9.6	--	24	20
MAY										
26...	1500	--	350	7.1	20.0	5	6.3	--	300	20
JUN										
01...	1205	369	--	--	22.0	--	--	--	--	--
22...	1200	340	460	8.2	21.0	15	9.2	--	450	1000

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
JUL. 1976										
27...	1100	105	800	7.6	23.5	5	8.0	--	10	50
AUG										
23...	1205	136	770	8.2	24.0	--	--	--	--	--
24...	1145	88	740	8.3	24.0	6	8.6	--	120	120
SEP										
21...	1130	145	670	7.7	19.5	10	8.5	--	140	160
OCT										
20...	1145	392	465	7.8	11.0	4	9.2	--	70	20
NOV										
18...	1045	370	480	8.0	5.0	2	11.2	75	--	10

GUYANDOTTE RIVER BASIN

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WATER QUALITY DATA

[illegible][illegible]

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WATER QUALITY DATA

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDE SOLIDS (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
JUL , 1976										
27...	6.4	200	27	.2	1.0	480	468	7	.06	.01
AUG										
23...	--	--	--	--	--	--	--	--	--	--
24...	1.2	190	29	.2	1.8	454	438	--	.04	.01
SEP										
21...	5.1	170	19	.2	2.8	410	411	--	.36	.01
OCT										
20...	1.5	140	17	.1	8.8	292	280	--	.59	.01
NOV										
18...	1.5	130	15	.1	6.0	297	286	--	.33	.01

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
AUG , 1975										
11...	--	.01	.03	2800	2720	80	--	--	--	--
SEP										
18...	--	.01	.03	--	--	110	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
30...	.32	.00	.00	390	250	140	1	0	1	0
OCT										
10...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
NOV										
19...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
DEC										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
04...	--	--	--	--	--	--	--	--	--	--
10...	--	.01	.03	510	480	30	0	0	0	<10
MAR										
10...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
APR										
21...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
MAY										
26...	--	.01	.03	--	--	30	--	--	--	--
JUN										
01...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
JUL , 1976										
27...	.07	.01	.03	200	120	80	9	4	5	<10
AUG										
23...	--	--	--	--	--	--	--	--	--	--
24...	.05	.00	.00	--	--	60	--	--	--	--
SEP										
21...	.37	.01	.03	--	--	30	--	--	--	--
OCT										
20...	.60	.01	.03	--	--	20	--	--	--	--
NOV										
18...	.34	.02	.06	--	--	60	--	--	--	--

GUYANDOTTE RIVER BASIN

03204000 GUYANDOTTE RIVER AT BRANCLAND, WV--Continued

WATER QUALITY DATA

DATE	HEXA- VALENT CHROMIUM (CR6) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
AUG , 1975										
11...	--	3600	40	--	--	--	150	140	10	--
SEP										
18...	--	1300	50	--	--	--	100	50	50	--
24...	--	--	--	--	--	--	--	--	--	--
30...	0	860	0	14	9	5	100	40	60	<.6
OCT										
28...	--	--	--	--	--	--	--	--	--	--
NOV										
28...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
10...	0	900	10	5	5	0	50	20	30	<.5
27...	--	--	--	--	--	--	--	--	--	--
MAR										
24...	--	--	--	--	--	--	--	--	--	--
APR										
29...	--	--	--	--	--	--	--	--	--	--
MAY										
26...	--	600	20	--	--	--	60	40	20	--
JUN										
22...	--	--	--	--	--	--	--	--	--	--
JUL										
27...	1	390	30	51	45	6	110	60	50	<.5
AUG										
24...	--	--	40	--	--	--	--	--	70	--
SEP										
21...	--	--	70	--	--	--	--	--	30	--
26...	--	--	--	--	--	--	--	--	--	--
OCT										
20...	--	--	80	--	--	--	--	--	240	--
NOV										
18...	--	--	40	--	--	--	--	--	150	--

DATE	SUS- PENDE D MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)
AUG , 1975									
11...	--	--	--	--	--	5.0	--	147	--
SEP									
18...	--	--	--	--	--	--	--	36	--
24...	--	--	--	--	--	--	--	348	2030
30...	.1	<.5	20	10	10	3.8	380	30	--
OCT									
28...	--	--	--	--	--	--	--	15	13
NOV									
28...	--	--	--	--	--	--	71	11	14
FEB , 1976									
10...	.0	<.5	20	10	10	10	190	254	1610
27...	--	--	--	--	--	--	--	73	--
MAR									
24...	--	--	--	--	--	--	350	42	446
APR									
29...	--	--	--	--	--	--	4900	9	7.7
MAY									
26...	--	--	--	--	--	--	2800	21	--
JUN									
22...	--	--	--	--	--	--	2500	31	28
JUL									
27...	.0	<.5	20	10	10	6.3	23000	18	5.1
AUG									
24...	--	--	--	--	--	5.0	220000	25	5.9
SEP									
21...	--	--	--	--	--	3.0	1100	--	--
26...	--	--	--	--	--	--	--	21	--
OCT									
20...	--	--	--	--	--	3.6	210	6	6.4
NOV									
18...	--	--	--	--	--	2.1	70	5	5.0

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SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	443	372	180	204	305	218	504	484	622	---	726
2	---	455	361	119	214	322	208	---	503	623	---	790
3	---	454	376	133	230	338	209	489	---	634	691	761
4	---	456	324	154	251	346	193	484	593	---	622	---
5	---	465	382	---	262	357	212	489	---	688	626	---
6	500	478	393	167	252	362	232	488	---	693	627	800
7	533	487	348	183	258	---	249	508	565	635	---	809
8	552	489	347	192	244	---	267	524	583	626	---	836
9	550	496	325	231	221	398	294	525	612	621	555	823
10	562	499	320	242	222	355	323	527	618	616	605	---
11	582	480	---	255	208	288	337	544	---	---	598	596
12	546	465	324	243	247	206	352	---	---	623	639	612
13	555	191	330	242	258	191	366	557	666	643	541	691
14	566	156	330	196	---	211	379	---	---	633	485	736
15	578	171	330	191	221	224	388	575	686	640	376	748
16	592	214	253	185	213	247	400	560	---	674	312	699
17	303	200	---	199	194	268	407	552	---	689	522	686
18	356	237	188	233	140	272	444	510	---	722	552	---
19	239	245	203	---	190	280	422	408	560	730	574	770
20	267	262	217	271	---	288	442	414	500	750	598	720
21	310	269	233	277	167	121	---	368	471	745	642	696
22	330	283	242	---	183	149	478	346	484	735	681	631
23	350	296	267	295	211	181	466	317	509	737	701	---
24	379	310	283	307	239	194	474	320	500	---	742	667
25	397	332	310	322	254	---	478	340	---	760	786	711
26	400	342	239	311	264	220	485	---	495	787	815	699
27	403	355	207	270	280	235	486	434	508	806	845	629
28	405	361	221	238	285	248	503	---	565	818	814	415
29	424	380	226	186	296	255	498	445	629	786	761	404
30	424	387	239	---	---	251	507	463	617	---	---	312
31	432	---	246	---	---	253	---	479	---	---	765	---
MONTH	444	355	291	224	230	263	370	468	---	694	634	679
YEAR	MAX	845	MIN	119	MEAN	426						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	12.0	17.0	22.0	24.0	---	23.0
2	---	---	---	---	---	---	15.0	---	21.0	26.0	---	22.0
3	---	---	---	---	---	---	16.0	17.0	---	23.0	23.5	24.0
4	---	---	---	---	---	---	13.0	19.0	---	---	25.0	---
5	---	---	---	---	---	---	14.0	19.0	---	25.0	---	---
6	---	---	---	---	---	---	15.0	19.0	---	23.0	24.0	23.0
7	---	---	---	---	---	---	16.0	17.0	25.0	22.0	---	23.0
8	---	---	---	---	---	---	13.0	19.0	22.0	23.0	---	22.5
9	---	---	---	---	---	---	14.0	19.0	24.0	25.0	22.0	27.0
10	---	---	---	---	4.0	---	16.0	20.0	22.0	23.0	23.0	---
11	---	---	---	---	---	---	11.0	20.0	---	---	24.0	21.0
12	---	---	---	---	---	11.5	12.0	---	---	25.0	26.0	21.0
13	---	---	---	---	---	---	15.0	18.0	27.0	28.0	25.0	24.0
14	---	---	---	---	---	10.0	18.0	---	---	26.0	22.5	21.0
15	---	---	---	---	---	10.0	20.0	21.0	26.0	---	23.0	21.0
16	---	---	---	---	---	9.0	22.0	23.0	---	25.0	23.0	20.0
17	---	---	---	---	---	7.0	22.0	20.0	---	25.0	23.0	21.0
18	---	---	---	---	---	9.0	21.0	18.0	---	25.0	23.0	---
19	---	---	---	---	---	13.0	24.0	16.0	26.0	29.0	24.0	23.0
20	---	---	---	---	---	14.0	25.0	---	23.0	28.0	25.0	20.0
21	---	---	---	---	---	12.0	---	21.0	21.0	27.0	25.0	21.0
22	---	---	---	---	---	11.0	17.0	19.0	21.0	26.0	27.0	20.0
23	---	---	---	---	---	12.0	24.0	20.0	23.0	30.0	23.0	---
24	---	---	---	---	---	14.0	24.0	19.0	25.0	---	26.5	19.0
25	---	---	---	---	---	---	20.0	21.0	---	28.0	28.0	20.0
26	---	---	---	---	---	---	18.0	---	24.0	27.0	24.0	20.0
27	---	6.5	---	---	---	15.0	12.0	20.0	26.0	26.0	26.0	21.0
28	16.0	---	---	---	---	14.0	12.0	---	25.0	29.0	26.0	---
29	---	---	---	---	---	15.0	14.0	21.0	26.0	27.0	---	---
30	---	---	---	---	---	18.0	19.0	23.0	24.0	---	---	---
31	---	---	---	---	---	14.0	---	---	---	---	23.0	---
MONTH	---	---	---	---	---	---	17.0	---	---	26.0	---	---

GUYANDOTTE RIVER BASIN

03204000 GUYANDOTTE RIVER AT BRANCHLAND, WV--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2	9	50	8	6	30	5	6	7	---	10
2	---	2	6	50	20	5	35	---	10	5	---	10
3	---	4	3	40	20	6	20	7	---	4	20	10
4	---	2	5	40	10	6	25	7	10	---	10	---
5	---	1	2	---	8	6	10	7	---	6	5	---
6	1	1	2	30	40	5	10	4	---	8	4	10
7	1	1	8	10	40	---	10	3	4	9	---	8
8	1	1	8	10	3	---	10	3	5	15	---	10
9	1	1	5	10	20	5	10	3	3	20	20	8
10	2	3	5	10	10	20	8	3	3	30	6	---
11	1	1	---	6	10	50	6	3	---	---	3	30
12	1	7	2	20	20	50	8	---	---	4	2	20
13	1	120	6	8	20	30	6	3	3	3	60	20
14	1	100	2	60	---	20	5	---	---	4	150	15
15	1	55	1	60	40	10	8	4	5	7	200	10
16	1	20	30	40	30	10	6	6	---	10	90	10
17	100	70	---	10	30	15	4	9	---	4	30	7
18	60	15	40	5	30	20	5	20	---	6	20	---
19	65	15	15	---	50	10	2	20	7	5	15	20
20	40	10	10	8	---	15	4	30	25	3	10	15
21	15	20	6	8	30	200	---	30	15	4	15	10
22	6	6	4	---	20	120	5	20	20	3	10	15
23	4	3	5	20	20	45	6	10	35	4	10	---
24	3	3	4	7	10	30	6	10	65	---	10	6
25	2	4	6	10	10	---	4	9	---	5	10	7
26	2	1	20	30	10	20	6	---	60	6	15	20
27	3	3	30	50	20	20	6	5	50	4	10	80
28	2	4	15	60	7	20	5	---	30	4	10	100
29	1	3	6	50	6	15	3	7	15	4	9	60
30	3	3	10	---	---	30	2	5	6	---	---	150
31	5	---	8	---	---	20	---	7	---	---	15	---
MONTH	10	15	9	25	20	30	9	9	---	7	30	25
YEAR	MAX	200	MIN	1	MEAN	15						

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4810			2600			1630	---	---
2	6750			2440			1480	---	---
3	7250			2290			1350	---	---
4	6690			2080			1260	---	---
5	6030			1930			1150	---	---
6	4340			2250			1080	---	---
7	3140			2580			994	---	---
8	2810			3230			958	---	---
9	2350			2970			949	---	---
10	1920			2460			1840	---	---
11	1500			2100			3250	---	---
12	2110			1900			3470	378	3540
13	2250			1840			2780	337	2530
14	3570			2410			2290	210	1300
15	4750			3410			1920	148	767
16	4260			3750			1680	132	599
17	3300			3470			1720	103	478
18	2510			5670			1740	167	785
19	1880			7240			1630	157	691
20	1560			7650			1600	268	1160
21	1540			5860			4700	1920	24400
22	1470			4370			6490	1160	20300
23	1260			3590			5320	490	7040
24	1200			3000			3930	390	4140
25	1270			2600			3110	340	2850
26	1540			2390			2740	330	2440
27	2320			2220			2450	445	2940
28	3670			2000			2200	425	2520
29	4850			1810			1980	340	1820
30	4080			---			2060	385	2140
31	3100			---			2200	290	1720
TOTAL	100080			92110			71951	---	---

GUYANDOTTE RIVER BASIN

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03204000 GUYANDOTTE RIVER AT BRANCHLAND, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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	3620	595	5820	444	30	36	400	29	31
2	4030	845	9630	486	30	39	474	34	44
3	3810	885	9100	516	29	40	528	19	27
4	3090	750	6260	552	33	49	492	14	19
5	2530	500	3420	468	27	34	438	13	15
6	2120	290	1660	432	22	26	375	13	13
7	1780	310	1490	410	16	18	330	12	11
8	1540	115	478	395	13	14	295	9	7.2
9	1330	77	277	380	22	23	270	8	5.8
10	1170	53	167	360	22	21	254	9	6.2
11	1060	65	186	350	10	9.5	242	9	5.9
12	994	53	142	350	11	10	222	8	4.8
13	916	57	141	355	12	12	214	8	4.6
14	839	32	72	395	13	14	226	8	4.9
15	790	34	73	365	15	15	280	12	9.1
16	755	29	59	370	21	21	630	37	63
17	720	23	45	432	33	38	552	34	51
18	684	20	37	727	189	406	410	23	25
19	654	20	35	940	182	462	350	17	16
20	618	22	37	1090	192	565	400	20	22
21	600	20	32	1070	221	638	504	56	76
22	612	14	23	804	100	217	432	31	36
23	600	23	37	666	56	101	648	200	344
24	576	20	31	570	42	65	528	142	202
25	540	21	31	498	30	40	444	135	162
26	540	21	31	438	24	28	480	184	238
27	516	21	29	400	19	21	365	97	96
28	480	16	21	375	18	18	330	57	51
29	462	10	12	355	19	18	305	25	21
30	438	14	17	365	16	16	275	17	13
31	---	---	---	385	19	20	---	---	---
TOTAL	38414	---	39393	15743	---	3034.5	11693	---	1624.5
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	254	16	11	426	37	43	162	34	15
2	226	16	9.8	432	20	23	158	28	12
3	214	13	7.5	355	30	29	170	32	15
4	266	15	11	345	31	29	174	34	16
5	335	21	19	242	19	12	154	34	14
6	320	31	27	202	15	8.2	166	32	14
7	360	37	36	325	50	50	150	22	8.9
8	405	51	56	474	66	84	129	25	8.7
9	450	67	81	300	39	32	117	22	6.9
10	405	68	74	242	18	12	222	76	46
11	320	25	22	214	16	9.2	290	65	51
12	300	11	8.9	174	14	6.6	182	43	21
13	246	9	6.0	194	57	30	242	48	31
14	214	12	6.9	762	485	998	222	34	20
15	190	17	8.7	594	250	401	170	23	11
16	202	17	9.3	528	197	281	170	56	34
17	206	15	8.3	360	76	74	186	26	13
18	182	17	8.4	295	60	48	285	28	22
19	198	20	11	258	53	37	295	33	26
20	198	15	8.0	218	44	26	254	38	26
21	190	17	8.7	178	34	16	210	25	14
22	170	17	7.8	150	34	14	198	24	13
23	154	20	8.3	135	55	20	166	19	8.5
24	147	21	8.3	126	29	9.9	144	15	5.8
25	147	21	8.3	117	30	9.5	135	15	5.5
26	170	24	11	112	26	7.9	135	35	13
27	154	21	8.7	126	24	8.2	218	74	44
28	166	20	9.0	120	23	7.5	727	341	684
29	162	21	9.2	158	20	8.5	783	302	638
30	158	22	9.4	150	22	8.9	2020	903	6520
31	290	46	39	166	27	12	---	---	---
TOTAL	7399	---	557.5	8478	---	2355.4	8634	---	8357.3
YEAR	444727		139482.2						

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Sep 30, 1975	1045	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	86	22	
		Melosira	86	22	
		Pennales			
		Achnanthaceae			
		Rhoicosphenia	43	11	
		Nitzschiaceae			
		Nitzschia	170	44	
		TOTAL	380		
Nov 28	1100	CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		Cymbella	9	12	
		Fragilariaceae			
		Synedra	18	25	
		Naviculaceae			
		Gyrosigma	9	12	
		Navicula	35	50	
		Nitzschiaceae			
		Nitzschia		<1	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria		<1	
		TOTAL	71		
Feb 10, 1976	1315	CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	21	11	
		Pennales			
		Diatomaceae			
		Diatoma	11	6	
		Fragilariaceae			
		Synedra	43	22	
		Naviculaceae			
		Navicula	97	50	
		Achnanthaceae			
		Rhoicosphenia	21	11	
		TOTAL	190		
Mar 24	1015	CHLOROPHYTA			
		Chlorophyceae			
		Zygnematales			
		Zygnemataceae			
		Mougeotia		<1	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	73	21	
		Pennales			
		Cymbellaceae			
		Cymbella	12	3	
		Fragilariaceae			
		Fragilaria	24	7	
		Synedra	24	7	
		Naviculaceae			
		Gyrosigma		<1	
		Navicula	200	55	
		Nitzschiaceae			
		Nitzschia	24	7	
		TOTAL	350		

03204000 GUYANDOTTE RIVER AT BRANCHLAND, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Apr 29	0930	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	160	3	
		Scenedesmaceae			
		Scenedesmus	1100	22	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	210	4	
		Melosira	54	1	
		Pennales			
		Achnanthaceae			
		Achnanthes	54	1	
		Cymbellaceae			
		Amphora		<1	
		Diatomaceae			
		Diatoma	54	1	
		Fragilariaceae			
		Synedra	210	4	
		Gomphonemataceae			
		Gomphonema		<1	
		Naviculaceae			
		Navicula	54	1	
		Nitzschiaceae			
		Nitzschia	3100	62	
		TOTAL	4900		
May 26	1500	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Anksitrodesmus	160	6	
		Scenedesmaceae			
		Actinastrum	210	7	
		Scenedesmus	210	7	
		Volvocales			
		Chlamydomonadaceae			
		Chlamydomonas	100	4	
		Zygnematales			
		Desmidiaceae			
		Staurastrum	52	2	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	360	13	
		Melosira	210	7	
		Pennales			
		Achnanthaceae			
		Achnanthes	52	2	
		Cymbellaceae			
		Cymbella	100	4	
		Fragilariaceae			
		Synedra	160	6	
		Gomphonemataceae			
		Gomphonema	100	4	
		Naviculaceae			
		Navicula	420	15	
		Nitzschiaceae			
		Nitzschia	570	20	
		Achnanthaceae			
		Rhoicosphenia	52	2	
		EUGLENOPHYTA			
		Cryptophyceae			
		Cryptomonidales			
		Cryptomonodaceae			
		Cryptomonas	52	2	
		TOTAL	2800		

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
June 22	1200	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Oocystaceae			
		Ankistrodesmus	59	2	
		Kirchneriella	59	2	
		Scenedesmaceae			
		Scenedesmus	240	10	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	350	14	
		Melosira	770	31	
		Pennales			
		Naviculaceae			
		Gyrosigma	59	2	
		Navicula	120	5	
		Nitzschiaceae			
		Nitzschia	770	31	
		Surirellaceae			
		Surirella	59	2	
		TOTAL	2500		
July 27	1100	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Micractiniaceae			
		Micractinium	1300	6	
		Oocystaceae			
		Ankistrodesmus	1800	8	
		Dictyosphaerium	3200	14	
		Kirchneriella	1300	6	
		Oocystis	2000	9	
		Tetraedron	670	3	
		Treubaria	1000	4	
		Scenedesmaceae			
		Actinastrum	1800	8	
		Scenedesmus	340	1	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	6500	29	
		Melosira	170	1	
		Pennales			
		Cymbellaceae			
		Cymbella	170	1	
		Diatomaceae			
		Diatoma	340	1	
		Fragilariaceae			
		Synedra	340	1	
		Naviculaceae			
		Navicula	340	1	
		Nitzschiaceae			
		Nitzschia	670	3	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	670	3	
		TOTAL	23000		
Sep 21	1130	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Oocystaceae			
		Ankistrodesmus	8	1	
		Selenastrum	8	1	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	16	1	
		Melosira	900	83	
		Pennales			
		Cymbellaceae			
		Cymbella	8	1	
		Gomphonemataceae			
		Gomphonema	16	1	
		Naviculaceae			
		Navicula	39	4	
		Nitzschiaceae			
		Nitzschia	86	8	
		Achnanthaceae			
		Rhoicosphenia	8	1	
		TOTAL	1100		

03204000 GUYANDOTTE RIVER AT BRANCLAND, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Oct 20	1145	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Fragilariaceae			
		Synedra	3	2	
		Gomphonemataceae			
		Gomphonema	10	5	
		Naviculaceae			
		Navicula	17	8	
		Nitzschiaceae			
		Nitzschia	28	14	
		Achnantheaceae			
		Rhoicosphenia	7	3	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	140	68	
		TOTAL	210		
Nov 18	1045	CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	6	9	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	63	91	
		TOTAL	70		
Feb 11, 1977	1200	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Oocystaceae			
		Ankistrodesmus	6	2	
		Volvocales			
		Phacotaceae			
		Pteromonas	13	4	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		Cymbella	13	4	
		Fragilariaceae			
		Fragilaria	13	4	
		Synedra	70	22	
		Gomphonemataceae			
		Gomphonema		<1	
		Meridionaceae			
		Meridion	32	10	
		Naviculaceae			
		Navicula	13	4	
		Nitzschiaceae			
		Nitzschia	32	10	
		Surirellaceae			
		Surirella		<1	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Lyngbya	120	39	
		TOTAL	310		

GUYANDOTTE RIVER BASIN

03204200 GUYANDOTTE RIVER AT BARBOURSVILLE, WV

LOCATION.--Lat 38°24'56", long 82°17'44", Cabell County, Hydrologic Unit 05070102, at bridge on U.S. Highway 60, at Barboursville.

DRAINAGE AREA.--1,309 mi² (3,390 km²).

PERIOD OF RECORD.--October 1975 to September 1976.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1976.

WATER TEMPERATURES: June to September 1976.

TURBIDITY: October 1975 to September 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 720 micromhos, Sept. 3; minimum daily, 120 micromhos, Jan. 3.

WATER TEMPERATURES: Maximum daily during period June to September, 28.5°C July 28; minimum daily, 18.0°C Sept. 30.

TURBIDITY: Maximum daily, 150 JTU Aug. 14, 15; minimum daily, 2 JTU Nov. 5, 6, 8, 26, June 12, 13.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	334	429	313	130	185	314	213	499	463	490	707	690
2	362	442	336	145	195	331	200	497	481	510	686	710
3	388	441	347	120	221	336	217	497	492	510	590	720
4	416	453	360	133	230	355	216	494	472	530	625	690
5	439	455	362	147	249	356	207	486	501	550	608	670
6	470	460	369	157	206	364	226	496	516	560	583	660
7	485	471	279	169	243	379	249	481	511	570	605	700
8	494	486	300	186	238	397	261	509	463	530	583	710
9	514	484	325	206	224	396	294	519	490	530	610	680
10	532	482	312	235	200	354	317	543	510	530	607	710
11	543	494	314	252	197	345	332	562	527	510	536	660
12	564	386	316	242	225	239	351	550	545	460	536	590
13	547	228	323	233	240	195	368	550	555	510	533	590
14	545	167	324	180	245	205	383	560	567	530	392	620
15	553	166	324	177	230	222	398	570	581	530	386	670
16	561	177	230	176	226	245	406	574	593	490	407	650
17	408	205	228	179	193	264	421	558	594	530	321	620
18	264	228	184	183	174	283	427	543	530	490	422	630
19	245	241	202	197	136	285	441	450	522	620	518	700
20	233	251	214	230	127	291	453	409	499	620	520	670
21	283	260	223	255	132	154	425	426	493	620	510	640
22	308	269	237	272	161	153	460	369	422	620	570	600
23	340	290	248	280	190	164	485	358	420	620	570	560
24	348	297	262	299	215	187	486	330	419	610	620	560
25	367	312	275	297	234	201	491	329	409	670	620	590
26	389	330	177	293	267	218	494	359	421	640	670	190
27	392	335	189	258	258	230	498	381	370	690	670	570
28	391	350	201	245	266	249	500	402	422	700	670	400
29	399	360	210	198	294	262	502	436	465	710	710	300
30	415	367	220	163	---	257	500	427	445	680	710	300
31	421	---	222	168	---	254	---	462	---	680	670	---
MONTH	418	344	272	207	214	274	374	472	490	575	573	602
YEAR	MAX	720	MIN	120	MEAN	402						

GUYANDOTTE RIVER BASIN

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03204200 GUYANDOTTE RIVER AT BARBOURSVILLE, WV--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									23.0	25.0	25.0	23.5
2									22.0	25.0	24.0	23.5
3									22.0	23.0	26.0	23.5
4									23.0	22.5	26.0	25.0
5									23.0	23.0	26.0	25.5
6									24.0	22.5	26.0	22.0
7									22.0	23.0	25.0	24.0
8									25.0	24.0	25.0	25.5
9									25.0	---	23.0	26.0
10									24.0	25.0	26.0	24.0
11									26.0	28.0	27.0	23.5
12									28.0	27.5	27.0	21.0
13									27.0	27.0	27.5	23.5
14									27.5	27.0	25.0	22.5
15									27.0	28.0	24.5	22.0
16									22.0	26.0	26.0	21.0
17									27.0	25.0	24.0	21.5
18									27.0	26.0	25.0	23.0
19									25.0	25.0	25.0	23.0
20									24.5	27.5	25.0	23.0
21									25.5	28.0	23.5	23.0
22									25.0	27.5	27.5	21.5
23									23.0	30.0	28.0	21.0
24									24.0	28.0	28.0	21.5
25									25.0	26.0	28.0	22.0
26									25.5	26.0	27.0	21.0
27									26.0	27.0	26.0	20.0
28									25.5	28.5	26.5	21.5
29									27.0	27.0	22.5	22.0
30									25.5	27.0	25.0	18.0
31									---	27.0	25.0	---
MONTH									25.0	26.0	25.5	22.5

TURBIDITY (JTU), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	3	85	150	15	10	40	6	8	15	100	25
2	15	5	15	150	20	10	35	4	7	15	20	20
3	10	6	10	85	20	10	25	3	5	60	10	20
4	7	4	6	55	20	10	25	4	8	65	15	15
5	15	2	4	45	20	9	20	4	6	40	10	20
6	7	2	9	30	95	9	10	4	9	20	7	20
7	8	5	80	25	40	10	10	4	8	20	10	15
8	8	2	20	20	60	9	10	3	6	20	20	20
9	8	3	10	20	35	20	9	4	7	15	25	15
10	5	4	10	15	20	50	8	4	6	8	10	25
11	9	3	10	10	20	45	8	6	4	8	10	40
12	6	80	10	20	20	30	6	4	2	8	10	30
13	8	130	10	30	25	20	5	3	2	4	10	30
14	7	110	8	65	25	10	4	2	5	5	150	40
15	6	100	7	60	75	10	5	3	5	4	150	15
16	7	45	50	70	80	9	6	7	6	90	100	15
17	120	20	70	30	55	10	4	7	7	10	60	20
18	100	20	40	20	45	10	5	7	7	4	40	10
19	70	15	30	15	100	10	6	20	7	40	30	20
20	40	15	20	10	65	20	5	15	15	10	35	15
21	20	10	10	10	50	40	3	20	15	55	30	6
22	20	7	10	10	20	75	5	15	15	10	20	8
23	10	7	6	10	25	60	4	9	20	5	20	7
24	10	5	5	10	15	35	4	9	15	10	90	8
25	7	3	5	15	15	25	3	7	15	7	15	8
26	3	2	100	15	15	15	6	5	40	25	20	6
27	9	3	40	45	15	20	4	20	55	15	20	100
28	10	4	20	60	20	15	3	5	25	35	50	70
29	10	6	15	55	10	15	4	15	20	4	20	80
30	6	10	10	35	---	15	5	7	80	20	15	100
31	6	---	25	20	---	45	---	5	---	10	15	---
MONTH	20	20	25	40	35	20	9	7	15	20	35	25
YEAR	MAX	150	MIN	2	MEAN	25						

GUYANDOTTE RIVER BASIN

03204250 MUD RIVER AT PALERMO, WV

LOCATION.--Lat 38°10'10", long 82°03'30", Lincoln County, Hydrologic Unit 05070102, in center of downstream side of highway bridge at Palermo, 1,800 ft (549 m) downstream from Parsner Creek, and 1.5 mi (2.4 km) upstream from Richs Branch.

DRAINAGE AREA.--51.1 mi² (132.3 km²).

PERIOD OF RECORD.--Water years 1975 to November 1976 (discontinued).

WATER QUALITY DATA

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM 7UM-MF (COL./ 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT , 1975											
28...	1200	18	80	8.0	15.0	3	9.6	--	--	60	120
NOV											
06...	1210	9.4	130	7.3	15.0	3	9.1	--	1300	600	150
28...	0930	18	100	8.2	6.0	3	12.0	--	--	12	56
DEC											
17...	1300	171	50	6.9	5.0	6	10.2	--	3800	200	140
FEB , 1976											
11...	1520	76	50	8.4	9.0	5	10.9	--	20	--	400
MAR											
23...	1300	140	120	7.6	10.0	7	9.2	--	--	100	210
APR											
07...	0900	58	68	--	15.0	--	--	--	--	--	--
29...	1100	11	90	7.8	14.5	3	9.8	--	--	180	36
MAY											
27...	1245	18	60	7.5	17.0	3	8.2	--	--	470	30
JUN											
22...	1000	12	120	6.8	20.0	5	8.8	--	--	540	460
JUL											
27...	0915	4.8	115	6.6	23.0	5	5.5	--	--	290	720
AUG											
24...	1000	4.5	90	7.8	21.0	5	7.2	--	--	180	1200
SEP											
21...	0915	5.1	90	7.3	18.0	6	7.1	--	--	100	700
OCT											
20...	1000	13	115	7.6	10.0	3	8.8	--	--	60	140
NOV											
18...	0900	12	90	7.8	4.0	2	10.4	15	--	--	60

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)
OCT , 1975										
28...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	31	11	7.6	3.0	2.3	.2	2.5	25	0	21
28...	--	--	--	--	--	--	--	--	--	--
DEC										
17...	21	8	4.2	2.5	1.2	.1	1.4	16	0	13
FEB , 1976										
11...	20	9	4.0	2.5	1.2	.1	1.2	14	0	11
MAR										
23...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	23	9	4.9	2.7	1.4	.1	1.5	18	0	15
JUN										
22...	--	--	--	--	--	--	--	--	--	--
JUL										
27...	33	0	7.5	3.5	2.6	.2	2.9	41	0	34
AUG										
24...	33	0	6.9	3.8	2.3	.2	2.6	40	0	33
SEP										
21...	31	0	7.0	3.2	2.5	.2	2.5	37	0	30
OCT										
20...	29	5	6.2	3.3	2.5	.2	2.1	29	0	24
NOV										
18...	23	5	5.2	2.4	2.3	.2	1.6	22	0	18

GUYANDOTTE RIVER BASIN

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03204250 MUD RIVER AT PALERMO, WV--Continued

WATER QUALITY DATA

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	SUS- PENDEED SOLIDS (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
OCT , 1975										
28...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	2.0	14	2.1	.1	6.6	52	51	--	.03	.01
28...	--	--	--	--	--	--	--	--	--	--
DEC										
17...	3.2	12	1.7	.2	7.0	39	39	--	.22	.01
FEB , 1976										
11...	.1	16	1.5	.0	6.5	50	41	--	.17	.00
MAR										
23...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	.9	12	1.4	--	6.2	--	40	--	.06	.00
JUN										
22...	--	--	--	--	--	--	--	--	--	--
JUL										
27...	16	7.7	2.6	.1	5.5	51	53	15	.10	.01
AUG										
24...	1.0	9.5	.9	.1	6.0	56	53	--	.08	.01
SEP										
21...	3.0	10	3.5	.1	6.1	58	54	--	.07	.01
OCT										
20...	1.2	15	2.3	.1	7.6	64	54	--	.09	.01
NOV										
18...	.6	16	1.9	.1	6.7	46	48	--	.11	.01
DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDEED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDEED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
OCT , 1975										
28...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	.04	.01	.03	--	--	30	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
DEC										
17...	.23	.01	.03	--	--	20	--	--	--	--
FEB , 1976										
11...	.17	.01	.03	170	150	20	0	0	0	<10
MAR										
23...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	.06	.00	.00	--	--	10	--	--	--	--
JUN										
22...	--	--	--	--	--	--	--	--	--	--
JUL										
27...	.11	.03	.09	100	70	30	5	5	0	<10
AUG										
24...	.09	.01	.03	--	--	20	--	--	--	--
SEP										
21...	.08	.01	.03	--	--	10	--	--	--	--
OCT										
20...	.10	.01	.03	--	--	0	--	--	--	--
NOV										
18...	.12	.02	.06	--	--	40	--	--	--	--

03204250 MUD RIVER AT PALERMO, WV--Continued

WATER QUALITY DATA

DATE	HEXA- VALENT CHROMIUM (CR6) (UG/L)	TOTAL IRON (FE) (UG/L)	SUS- PENDE IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)
OCT , 1975										
28...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	260	--	--	--	--	--	170
28...	--	--	--	--	--	--	--	--	--	--
DEC										
17...	--	--	--	100	--	--	--	--	--	30
FEB , 1976										
11...	0	700	620	80	3	3	0	60	10	50
MAR										
23...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
MAY										
27...	--	610	420	190	--	--	--	80	0	80
JUN										
22...	--	--	--	--	--	--	--	--	--	--
JUL										
27...	0	1500	1390	110	22	20	2	300	300	0
AUG										
24...	--	--	--	170	--	--	--	--	--	280
SEP										
21...	--	--	--	110	--	--	--	--	--	170
OCT										
20...	--	--	--	250	--	--	--	--	--	230
NOV										
18...	--	--	--	280	--	--	--	--	--	180

DATE	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT , 1975										
28...	--	--	--	--	--	--	--	--	4	.19
NOV										
06...	--	--	--	--	--	--	--	--	3	.08
28...	--	--	--	--	--	--	--	45	1	.05
DEC										
17...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
11...	<.5	.0	<.5	10	10	0	1.6	13	15	3.1
MAR										
23...	--	--	--	--	--	--	--	340	11	4.2
APR										
07...	--	--	--	--	--	--	--	--	10	1.6
29...	--	--	--	--	--	--	--	920	4	.12
MAY										
27...	--	--	--	--	--	--	--	99	--	--
JUN										
22...	--	--	--	--	--	--	--	220	4	.13
JUL										
27...	<.5	.0	<.5	20	20	0	4.3	260	4	.05
AUG										
24...	--	--	--	--	--	--	2.9	1300	7	.09
SEP										
21...	--	--	--	--	--	--	2.7	120	9	.12
OCT										
20...	--	--	--	--	--	--	2.0	14	2	.07
NOV										
18...	--	--	--	--	--	--	4.3	17	3	.10

GUYANDOTTE RIVER BASIN

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03204250 MUD RIVER AT PALERMO, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organisms	Count (cells/ml)	Percent of total	Sampling method
Sep 29, 1975	1800	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Gomphonemataceae			
		Gomphonema	10	100	
		TOTAL	10		
Nov 28	0930	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	11	25	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		Cymbella	11	25	
		Naviculaceae			
		Navicula	11	25	
		Nitzschiaceae			
		Nitzschia	11	25	
		TOTAL	45		
Feb 11, 1976	1520	CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		Cymbella		<1	
		Fragilariaceae			
		Synedra		<1	
		Naviculaceae			
		Navicula		<1	
		Nitzschiaceae			
		Nitzschia	13	100	
		TOTAL	13		
Mar 24	1200	CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	48	14	
		Cymbellaceae			
		Cymbella	24	7	
		Fragilariaceae			
		Fragilaria	24	7	
		Synedra	24	7	
		Gomphonemataceae			
		Gomphonema	120	36	
		Meridionaceae			
		Meridion	24	7	
		Naviculaceae			
		Gyrosigma		<1	
		Navicula	24	7	
		Pinnularia	24	7	
		Nitzschiaceae			
		Nitzschia	24	7	
		TOTAL	340		

03204250 MUD RIVER AT PALERMO, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organisms	Count (cells/ml)	Percent of total	Sampling method
Apr 29	1100	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	52	6	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	100	11	
		Pennales			
		Achnanthaceae			
		Achnanthes	52	6	
		Cymbellaceae			
		Cymbella	26	3	
		Fragilariaceae			
		Fragilaria	26	3	
		Naviculaceae			
		Navicula	240	26	
		Nitzschiaceae			
		Nitzschia	370	40	
		Achnanthaceae			
		Rhoicosphenia	26	3	
May 27	1245	EUGLENOPHYTA			
		Cryptophyceae			
		Cryptomonidales			
		Cryptomonodaceae			
		Cryptomonas	26	3	
		TOTAL	920		
		CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	6	6	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	6	6	
		Gomphonemataceae			
		Gomphonema	6	6	
		Naviculaceae			
		Navicula	31	31	
		Nitzschiaceae			
		Nitzschia	49	50	
		TOTAL	99		
June 22	1000	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	9	4	
		Scenedesmaceae			
		Crucigenia	18	8	
		Scenedesmus	9	4	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	22	10	
		Cymbellaceae			
		Cymbella	13	6	
		Eunotiaceae			
		Eunotia	4	2	
		Gomphonemataceae			
		Gomphonema	13	6	
		Naviculaceae			
		Navicula	62	29	
		Pinnularia	4	2	
		Nitzschiaceae			
		Nitzschia	62	29	
		TOTAL	220		

GUYANDOTTE RIVER BASIN

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03204250 MUD RIVER AT PALERMO, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organisms	Count (cells/ml)	Percent of total	Sampling method
July 27	0915	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Characiaceae			
		Schroederia	6	2	
		Occystaceae			
		Ankistrodesmus	19	7	
		Scenedesmaceae			
		Scenedesmus	13	5	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	19	7	
		Naviculaceae			
		Navicula	19	7	
		Stauroneis	13	5	
		Nitzschiaceae			
		Nitzschia	64	24	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	39	15	
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	64	24	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Euglena	6	2	
		TOTAL	260		
Aug 24	1000	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	9	1	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Cocconeis	9	1	
		Cymbellaceae			
		Cymbella	9	1	
		Naviculaceae			
		Navicula	18	1	
		Nitzschiaceae			
		Nitzschia	71	6	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Agmenellum	1100	88	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas	35	3	
		TOTAL	1300		

03294250 MUD RIVER AT PALERMO, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, SEPTEMBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organisms	Count (cells/ml)	Percent of total	Sampling method
Sep 21	0915	CHRYSTOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	7	6	
		Cocconeis	7	6	
		Cymbellaceae			
		Cymbella	13	11	
		Gomphonemataceae			
		Gomphonema	7	6	
		Naviculaceae			
		Navicula	59	50	
		Nitzschiaceae			
		Nitzschia	26	22	
		TOTAL	120		
Oct 20,	1000	CHLOROPHYTA			
		Chlorophyceae			
		Volvocales			
		Chlamydomonadaceae			
		Chlamydomonas	3	25	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		Cymbella	3	25	
		Nitzschiaceae			
		Nitzschia	7	50	
		TOTAL	13		
Nov 18	0900	CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	5	29	
		Eunotiaceae			
		Eunotia	2	14	
		Naviculaceae			
		Navicula	5	29	
		Nitzschiaceae			
		Nitzschia	5	29	
		TOTAL	17		
Feb 11, 1977	0815	CHLOPOPHYTA			
		Chlorophyceae			
		Volvocales			
		Phacotaceae			
		Pteromonas	13	8	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Eunotiaceae			
		Eunotia		<1	
		Fragilariaceae			
		Synedra		<1	
		Gomphonemataceae			
		Gomphonema	7	4	
		Naviculaceae			
		Navicula		<1	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	100	63	
		Oscillatoriales			
		Oscillatoriaceae			
		Lyngbya	40	25	
		TOTAL	160		

GUYANDOTTE RIVER BASIN

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03204500 MUD RIVER NEAR MILTON, WV
(National stream-quality accounting network station)

LOCATION.--Lat 38°23'15", long 82°06'46", Cabell County, Hydrologic Unit 05070102, 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).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1555: 1953, drainage area.

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.

REMARKS.--Water-discharge records good.

AVERAGE DISCHARGE.--38 years, 284 ft³/s (8.043 m³/s), 15.07 in/yr (383 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,700 ft³/s (100 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 1	2100	3730 106	15.41 4.697	Mar. 22	0400	*5470 155	19.54 5.956

Minimum discharge, 3.2 ft³/s (0.09 m³/s) July 29-31, gage height, 0.53 ft (0.162 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	65	366	3260	374	158	1360	42	56	38	24	7.2
2	39	59	248	2340	400	144	787	71	54	24	46	8.2
3	38	55	178	1270	340	133	490	104	87	16	26	7.5
4	34	51	141	1620	312	122	376	163	101	15	16	7.9
5	29	46	117	828	268	114	302	110	56	13	11	10
6	25	44	125	482	950	108	250	84	39	11	8.2	9.6
7	22	41	998	386	710	97	217	76	29	146	8.6	7.2
8	21	41	534	558	446	87	189	66	24	47	7.5	6.0
9	26	41	334	400	352	108	163	58	19	38	7.5	5.4
10	31	44	288	330	288	512	142	51	16	24	11	6.3
11	31	50	246	360	270	416	131	46	15	16	10	8.9
12	30	618	208	844	246	310	128	44	13	13	7.5	26
13	29	2510	176	715	232	278	115	40	11	10	6.6	21
14	28	991	152	2380	456	266	103	36	10	7.2	244	14
15	25	470	166	1090	436	223	94	35	9.3	6.6	278	11
16	21	322	1080	622	356	207	87	43	9.6	6.9	176	9.6
17	203	214	868	472	662	207	81	84	9.6	24	113	8.6
18	1680	185	468	270	1950	183	74	326	8.9	47	59	10
19	701	149	300	230	1020	170	68	924	8.2	25	40	13
20	308	125	232	250	587	165	63	368	8.9	16	30	12
21	210	114	203	230	420	2720	60	214	25	11	22	11
22	155	103	168	210	370	4660	68	154	37	8.9	18	10
23	121	89	131	180	328	1360	72	111	36	7.2	14	8.6
24	96	74	110	220	272	571	61	84	31	6.3	11	7.2
25	76	67	100	280	244	426	53	68	24	4.8	10	6.9
26	65	63	1920	344	225	366	52	56	69	4.3	8.2	6.0
27	68	61	1340	912	207	312	53	48	76	4.5	6.9	7.9
28	74	61	635	852	187	270	49	41	49	3.8	7.2	125
29	69	63	422	624	173	236	42	42	31	3.4	7.9	133
30	65	84	338	503	---	336	40	61	39	3.2	7.2	146
31	67	---	609	404	---	464	---	53	---	4.1	7.9	---
TOTAL	4428	6900	13201	23666	13081	15729	5770	3703	1001.5	605.2	1250.2	671.0
MEAN	143	230	426	763	451	507	192	119	33.4	19.5	40.3	22.4
MAX	1680	2510	1920	3260	1950	4660	1360	924	101	146	278	146
MIN	21	41	100	180	173	87	40	35	8.2	3.2	6.6	5.4
CFSM	.56	.90	1.66	2.98	1.76	1.98	.75	.46	.13	.08	.16	.09
IN.	.64	1.00	1.92	3.44	1.90	2.29	.84	.54	.15	.09	.18	.10

CAL YR 1975 TOTAL 160199.1 MEAN 439 MAX 4610 MIN 3.8 CFSM 1.71 IN 23.28
WTR YR 1976 TOTAL 90005.9 MEAN 246 MAX 4660 MIN 3.2 CFSM .96 IN 13.08

GUYANDOTTE RIVER BASIN

03204500 MUD RIVER NEAR MILTON, WV--Continued

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1976.

WATER TEMPERATURES: October 1975 to September 1976.

SUSPENDED-SEDIMENT DISCHARGE: October 1975 to September 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 245 micromhos July 21, 22; minimum daily, 60 micromhos Mar. 22.

WATER TEMPERATURES: Maximum daily, 30.0°C July 11; minimum daily, 0.0°C Jan. 7, 8.

SEDIMENT CONCENTRATIONS: Maximum daily mean, 599 mg/L Mar. 21; minimum daily mean, 0 mg/L Nov. 7, 8.

SEDIMENT LOADS: Maximum daily, 4,400 tons (3,990 tonnes) Mar. 21; minimum daily, 0 ton (0 tonne) Nov. 7, 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
OCT												
06...	1450	25	150	--	16.0	--	--	--	--	--	--	--
08...	1000	20	165	7.5	14.0	10	8.4	--	260	140	58	12
28...	1015	75	124	8.3	13.5	5	9.1	--	20	20	--	--
NOV												
13...	1045	2760	122	7.0	12.0	190	8.9	--	8000	15000	26	11
17...	1325	226	170	7.4	7.0	--	--	--	--	--	--	--
24...	1130	74	160	8.4	7.0	3	8.8	--	500	80	--	--
DEC												
17...	0900	938	80	6.6	7.0	50	9.5	--	1800	1600	33	17
22...	1150	157	160	7.6	1.0	--	--	--	--	--	--	--
JAN												
23...	1100	174	160	7.4	2.0	4	--	--	240	84	32	6
30...	1550	512	140	--	3.0	--	--	--	--	--	--	--
FEB												
10...	1420	282	100	8.3	3.5	8	10.8	70	--	40	36	18
19...	1500	912	150	7.2	12.0	50	10.4	--	630	440	29	14
MAR												
10...	0920	671	180	7.2	7.0	--	--	--	--	--	--	--
23...	1300	993	120	7.6	10.0	35	10.1	--	500	300	29	16
APR												
21...	1455	59	140	7.3	22.0	--	--	--	--	--	--	--
27...	1015	53	130	7.9	14.0	3	9.0	--	--	--	--	--
28...	1430	49	190	--	12.0	3	10.2	--	150	14	46	14
MAY												
25...	1305	68	90	7.2	17.5	5	8.3	--	130	100	43	21
JUN												
01...	1000	57	--	--	19.0	--	--	--	--	--	--	--
04...	1330	94	150	6.1	20.0	20	8.2	--	280	120	88	43
21...	1300	25	180	8.2	21.5	6	8.8	--	400	530	--	--
JUL												
27...	1150	4.3	155	6.2	24.0	6	7.3	--	170	350	58	10
AUG												
16...	1100	60	--	--	--	--	--	--	--	--	--	--
18...	1100	3.4	110	7.4	20.0	30	--	--	350	400	36	15
23...	0950	14	180	7.2	21.0	--	--	--	--	--	--	--
23...	1300	14	123	7.2	23.0	4	8.2	--	400	340	40	7
SEP												
20...	1130	12	125	7.4	20.0	4	7.5	--	100	400	45	7

03204500 MUD RIVER NEAR MILTON, WV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT												
06...	--	--	--	--	--	--	--	--	--	--	--	--
08...	16	4.5	6.0	3.2	57	0	2.9	17	.1	6.5	90	90
28...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
13...	8.0	1.5	1.7	3.4	19	0	3.0	17	.1	6.3	59	50
17...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
17...	8.7	2.8	2.6	1.5	20	0	8.0	16	.2	6.6	57	51
22...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	10	1.7	3.5	1.5	32	0	2.0	19	.1	6.6	63	62
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
10...	10	2.7	2.8	1.2	22	0	.2	21	.1	6.5	75	59
19...	7.5	2.5	2.8	1.5	18	0	1.8	19	.1	6.6	63	52
MAR												
10...	--	--	--	--	--	--	--	--	--	--	--	--
23...	7.6	2.5	2.8	2.1	16	0	.6	18	.1	6.7	49	50
APR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
28...	12	4.0	4.9	2.1	40	--	--	20	.1	4.4	87	72
MAY												
25...	12	3.2	2.8	1.7	27	0	2.7	18	--	6.5	--	62
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
04...	28	4.5	5.5	2.4	56	0	71	20	.1	5.6	93	100
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
27...	16	4.3	8.7	2.9	58	0	59	12	.1	4.7	94	88
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
18...	9.3	3.2	3.4	2.3	26	0	1.7	18	.1	6.5	76	60
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	10	3.7	3.9	2.7	41	0	4.1	16	.1	6.2	71	67
SEP												
20...	12	3.7	5.5	3.0	47	0	3.0	13	.1	3.8	70	71

DATE	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE- ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)
OCT												
06...	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	.20	--	.40	.60	.06	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
13...	--	--	.31	--	1.0	1.3	.19	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
17...	--	--	.26	--	.19	.45	.09	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	.28	--	1.5	1.8	.04	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
10...	.23	.00	--	.23	--	--	--	.01	.03	130	110	20
19...	--	--	.25	--	.63	.88	.07	--	--	--	--	--
MAR												
10...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	.37	--	1.2	1.6	.06	--	--	--	--	50
APR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	.01	--	.45	.46	.02	--	--	--	--	--
MAY												
25...	.13	.01	--	.14	--	--	--	.01	.03	--	--	20
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	.18	--	.35	.53	.06	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
27...	.19	.01	--	.20	--	--	--	.01	.03	150	130	20
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	.36	--	.38	.74	.06	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	.25	.01	--	.26	--	--	--	.01	.03	--	--	30
SEP												
20...	.06	.01	.08	.07	.55	.63	.04	.01	.03	--	--	20

GUYANDOTTE RIVER BASIN

03204500 MUD RIVER NEAR MILTON, WV--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)
OCT												
06...	--	--	--	--	--	--	--	--	--	--	--	--
08...	1	1	0	2	2	0	0	0	0	--	3	0
28...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
13...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
17...	1	1	0	0	0	0	<10	0	<10	--	2	1
22...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
10...	--	--	--	0	0	0	<10	--	--	0	--	--
19...	1	0	1	9	0	9	<10	0	<10	--	1	0
MAR												
10...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
04...	3	0	3	0	0	0	10	0	<10	--	0	0
21...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
27...	--	--	--	10	4	6	<10	--	--	1	--	--
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	--
18...	0	0	0	1	0	1	<10	0	<10	--	1	0
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
20...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)
OCT											
06...	--	--	--	--	--	--	--	--	--	--	--
08...	3	0	0	0	920	230	11	11	0	160	10
28...	--	--	--	--	--	--	--	--	--	--	--
NOV											
13...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
DEC											
17...	1	10	10	0	290	30	12	8	4	160	130
22...	--	--	--	--	--	--	--	--	--	--	--
JAN											
23...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
FEB											
10...	--	--	--	--	490	40	2	2	0	50	10
19...	1	10	0	10	2000	170	8	6	2	60	40
MAR											
10...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	100	--	--	--	--	--
APR											
21...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	--	--	--	--	690	150	--	--	--	80	20
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
04...	0	0	0	0	1100	120	12	5	7	90	40
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	520	40	34	11	23	320	20
AUG											
16...	--	--	--	--	--	--	--	--	--	--	--
18...	1	10	0	10	1300	100	10	2	8	120	70
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	210	--	--	--	--	--
SEP											
20...	--	--	--	--	--	150	--	--	--	--	--

GUYANDOTTE RIVER BASIN

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03204500 MUD RIVER NEAR MILTON, WV--Continued.

WATER QUALITY DATA: WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	DIS- SOLVED MAN- GANESE (MG) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDED MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	SUS- PENDED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDED ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT 08...	150	<.5	.0	<.5	1	0	1	20	0	20
28...	--	--	--	--	--	--	--	--	--	--
NOV 13...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
DEC 17...	30	<5.0	.0	<5.0	0	0	0	20	20	0
JAN 23...	--	--	--	--	--	--	--	--	--	--
FEB 10...	40	<.5	.0	<.5	--	--	--	10	0	10
19...	20	<.5	.0	<.5	1	0	1	10	0	10
MAR 23...	40	--	--	--	--	--	--	--	--	--
APR 27...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAY 25...	60	--	--	--	--	--	--	--	--	--
JUN 04...	50	<.5	.0	<.5	0	0	0	10	0	10
21...	--	--	--	--	--	--	--	--	--	--
JUL 27...	300	<.5	.0	<.5	--	--	--	20	10	10
AUG 16...	--	--	--	--	--	--	--	--	--	--
18...	50	<.5	.0	<.5	1	0	1	20	20	0
23...	120	--	--	--	--	--	--	--	--	--
SEP 20...	150	--	--	--	--	--	--	--	--	--

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL B MG/SQ M	UNCOR- RECTED PERI- PHYTON CHLORO- PHYLL A MG/SQ M	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 08...	2.8	12.0	8.50	22.0	35	15.0	13	.70	75
28...	--	--	--	--	--	--	5	1.0	--
NOV 13...	--	--	--	--	1100	--	223	1660	72
24...	--	--	--	--	250	--	5	1.0	--
DEC 17...	6.1	--	--	--	480	--	98	248	79
JAN 23...	--	.100	.200	.600	0	.200	10	4.7	45
FEB 10...	2.1	--	--	--	25	--	16	12	--
19...	3.4	--	--	--	240	--	110	271	83
MAR 23...	--	--	--	--	200	--	116	311	82
APR 27...	--	--	--	--	--	--	6	.86	--
28...	--	--	--	--	390	--	8	1.1	30
MAY 25...	--	--	--	--	--	--	15	2.8	--
JUN 04...	3.5	--	--	--	360	--	24	6.1	84
21...	--	--	--	--	--	--	14	.94	--
JUL 27...	3.8	--	--	--	750	--	16	.19	95
AUG 16...	--	--	--	--	--	--	66	11	75
18...	4.6	--	--	--	270	--	--	--	--
23...	3.1	--	--	--	--	--	19	.72	--
SEP 20...	3.2	--	--	--	160	--	19	.62	53

GUYANDOTTE RIVER BASIN

03204500 MUD RIVER NEAR MILTON, WV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	131	123	73	91	101	98	125	138	134	223	133
2	127	131	122	71	90	102	87	126	131	156	222	135
3	134	128	121	82	86	103	88	142	138	153	154	134
4	136	127	115	84	86	105	94	146	158	152	154	133
5	138	126	116	76	87	105	94	133	150	158	155	137
6	140	126	110	76	87	107	97	125	145	156	155	148
7	144	127	107	95	84	109	102	124	140	105	153	139
8	---	130	99	93	86	109	102	136	138	138	152	138
9	141	129	101	92	87	110	105	130	138	133	151	139
10	145	133	108	92	89	126	106	127	138	144	149	150
11	145	135	107	88	94	98	109	126	140	147	144	152
12	162	121	107	90	93	98	110	126	140	136	140	149
13	156	78	108	88	94	99	120	127	140	137	136	156
14	153	82	109	67	87	98	112	129	141	212	123	156
15	157	90	109	68	88	98	113	130	141	207	100	147
16	153	79	104	78	85	100	115	130	142	206	116	137
17	147	99	106	79	101	102	114	140	145	210	116	132
18	130	100	91	---	84	99	116	157	141	232	111	130
19	90	102	90	90	85	100	117	91	138	238	112	131
20	100	103	97	92	85	101	120	88	138	241	115	129
21	108	107	97	95	88	71	120	93	149	245	115	131
22	112	155	96	100	91	60	---	96	143	245	115	141
23	115	160	98	95	94	92	129	98	159	226	122	142
24	117	140	101	96	94	87	129	101	139	227	120	134
25	119	138	102	105	96	92	128	102	139	225	119	127
26	120	126	81	111	97	96	128	103	143	230	121	123
27	123	127	82	96	98	97	130	105	168	230	123	121
28	126	126	83	97	98	100	130	106	157	229	123	150
29	127	127	85	88	99	97	129	110	138	224	125	122
30	130	134	91	86	---	106	126	112	134	226	125	110
31	132	---	91	87	---	94	---	127	---	228	129	---
MONTH	132	121	102	88	90	99	113	120	143	191	136	137
YEAR	MAX	245	MIN	60	MEAN	123						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	15.0	10.0	7.0	2.0	12.0	10.0	15.0	22.0	21.0	25.0	20.0
2	15.0	14.0	12.0	7.0	2.0	15.0	12.0	17.0	20.0	20.0	24.0	21.0
3	14.0	14.0	10.0	7.0	2.0	11.0	12.0	15.0	20.0	24.0	19.0	21.0
4	14.0	15.0	14.0	7.0	2.0	12.0	12.0	15.0	21.0	23.0	19.0	20.0
5	13.0	15.0	14.0	2.0	3.0	15.0	13.0	17.0	21.0	23.0	23.0	21.0
6	14.0	15.0	12.0	2.0	4.0	12.0	13.0	16.0	20.0	22.0	21.0	20.0
7	17.0	16.0	7.0	0.0	3.0	10.0	14.0	15.0	23.0	23.0	21.0	22.0
8	---	16.0	12.0	0.0	3.0	8.0	15.0	15.0	23.0	25.0	20.0	23.0
9	17.0	17.0	12.0	1.0	3.0	6.0	12.0	15.0	23.0	25.0	18.0	22.0
10	18.0	15.0	10.0	1.0	3.5	---	14.0	19.0	25.0	23.0	19.0	20.0
11	19.0	14.0	10.0	1.0	4.0	10.0	14.0	18.0	25.0	30.0	19.0	19.0
12	17.0	18.0	11.0	1.0	6.0	11.0	12.0	19.0	25.0	29.0	20.0	21.0
13	16.0	14.0	10.0	2.0	9.0	10.0	12.0	20.0	25.0	29.0	21.0	20.0
14	17.0	8.0	12.0	5.0	8.0	10.0	12.0	21.0	25.0	22.0	20.0	19.0
15	20.0	14.0	12.0	2.0	7.0	10.0	15.0	20.0	24.0	27.0	22.0	19.0
16	17.0	15.0	10.0	3.0	11.0	7.0	14.0	20.0	25.0	23.0	20.0	18.0
17	15.0	14.0	10.0	2.0	12.0	6.0	20.0	19.0	25.0	20.0	19.0	18.0
18	15.0	15.0	7.0	---	11.0	8.0	23.0	15.0	25.0	---	19.0	19.0
19	14.0	10.0	2.0	1.0	11.0	10.0	23.0	15.0	24.0	---	19.0	20.0
20	13.0	14.0	2.0	1.0	10.0	13.0	23.0	17.0	22.0	25.0	19.0	18.0
21	14.0	14.0	2.0	1.0	11.0	15.0	22.0	18.0	21.0	25.0	20.0	18.0
22	15.0	10.0	1.0	1.0	8.0	9.0	21.0	20.0	23.0	25.0	20.0	19.0
23	15.0	10.0	2.0	2.0	7.0	10.0	19.0	19.0	23.0	25.0	21.5	18.0
24	15.0	10.5	2.0	2.0	10.0	12.0	20.0	17.0	24.0	24.0	23.0	17.0
25	15.0	12.0	2.0	2.0	10.0	12.0	21.0	19.0	23.0	25.0	25.0	18.0
26	14.0	14.0	9.0	2.0	11.0	14.0	21.0	19.0	24.0	25.0	23.0	18.0
27	14.0	12.0	8.0	5.0	11.0	15.0	20.0	20.0	25.0	24.5	22.0	19.0
28	15.0	10.0	5.0	4.0	11.0	14.0	12.0	19.0	24.0	25.0	23.0	17.0
29	15.0	12.0	5.0	4.0	11.0	12.0	14.0	19.0	23.0	26.0	23.0	16.0
30	15.0	---	6.0	4.0	---	13.0	16.0	22.0	24.0	25.0	21.0	15.0
31	14.0	---	10.0	4.0	---	12.0	---	22.0	---	25.0	21.0	---
MONTH	15.5	13.5	8.0	3.0	7.0	11.0	16.0	18.0	23.0	24.5	21.0	19.0
YEAR	MAX	30.0	MIN	0.0	MEAN	15.0						

GUYANDOTTE RIVER BASIN

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03204500 MUD RIVER NEAR MILTON, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TUNS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)
1	41	12	1.3	65	2	.435	366	52	51
2	39	10	1.1	59	2	.432	248	29	19
3	38	9	.92	55	4	.59	178	39	19
4	34	7	.64	51	3	.41	141	14	5.3
5	29	7	.55	46	2	.25	117	7	2.2
6	25	9	.61	44	1	.12	125	66	22
7	22	10	.59	41	0	0	998	269	725
8	21	11	.62	41	0	0	534	68	98
9	26	9	.63	41	1	.11	334	54	49
10	31	8	.67	44	4	.48	288	11	8.6
11	31	8	.67	50	4	.54	246	8	5.3
12	30	6	.49	618	276	461	208	7	3.9
13	29	5	.39	2510	279	1890	176	11	5.2
14	28	3	.23	991	84	225	152	7	2.9
15	25	2	.14	470	63	80	166	17	7.6
16	21	2	.11	322	73	63	1080	290	846
17	203	86	47	214	28	16	868	33	77
18	1680	308	1400	185	10	5.0	468	7	8.8
19	701	91	172	149	9	3.6	300	12	9.7
20	308	36	30	125	6	2.0	232	4	2.5
21	210	19	11	114	10	3.1	203	5	2.7
22	155	10	4.2	103	6	1.7	168	5	2.3
23	121	8	2.6	89	15	3.6	131	4	1.4
24	96	9	2.3	74	11	2.2	110	3	.89
25	76	6	1.2	67	6	1.1	100	26	7.0
26	65	3	.53	63	4	.68	1920	481	2490
27	68	4	.73	61	4	.66	1340	423	1530
28	74	4	.80	61	4	.66	635	108	185
29	69	4	.75	63	3	.51	422	52	59
30	65	3	.53	84	33	7.5	338	30	27
31	67	2	.36	---	---	---	609	30	49
TOTAL	4428	---	1683.66	6900	---	2770.48	13201	---	6322.29
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TUNS/DAY)
1	3260	250	2200	374	24	24	158	5	2.1
2	2340	88	556	400	42	45	144	3	1.2
3	1270	160	549	340	9	8.3	133	6	2.2
4	1820	176	865	312	6	5.1	122	6	2.0
5	828	54	121	268	122	88	114	6	1.8
6	482	33	43	950	338	867	108	5	1.5
7	386	34	35	710	121	232	97	4	1.0
8	558	52	78	446	49	59	87	3	.70
9	400	16	17	352	27	26	108	12	3.5
10	330	17	15	288	14	11	512	124	171
11	360	43	42	270	4	2.9	416	43	48
12	844	174	397	246	4	2.7	310	27	23
13	715	147	284	232	14	8.8	278	15	11
14	2380	544	3500	456	273	336	266	7	5.0
15	1090	361	1060	436	420	494	223	6	3.6
16	622	117	196	356	88	85	207	5	2.8
17	472	35	45	662	217	388	207	11	6.1
18	270	22	16	1950	450	2370	183	10	4.9
19	230	12	7.5	1020	132	364	170	12	5.5
20	250	10	6.8	587	63	100	165	15	6.7
21	230	17	11	420	35	40	2720	599	4400
22	210	11	6.2	370	24	24	4660	282	3550
23	180	7	3.4	328	18	16	1360	121	444
24	220	4	2.4	272	18	13	571	55	85
25	280	24	18	244	11	7.2	426	40	46
26	344	28	26	225	5	3.0	366	32	32
27	912	255	628	207	4	2.2	312	26	22
28	852	255	587	187	2	1.0	270	23	17
29	624	93	157	173	4	1.9	236	26	17
30	503	28	38	---	---	---	336	63	57
31	404	13	14	---	---	---	464	137	172
TOTAL	23666	---	11524.3	13081	---	5625.1	15729	---	9145.60

GUYANDOTTE RIVER BASIN

03204500 MUD RIVER NEAR MILTON, WV--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1360	238	874	42	6	.68	56	23	3.5
2	787	67	142	71	6	1.2	54	32	4.7
3	490	39	52	104	12	3.4	87	31	7.3
4	376	25	25	163	31	14	101	35	9.5
5	302	16	13	110	14	4.2	56	25	3.8
6	250	10	6.8	84	9	2.0	39	15	1.6
7	217	11	6.4	76	10	2.1	29	12	.94
8	189	11	5.6	66	11	2.0	24	12	.78
9	163	10	4.4	58	15	2.3	19	11	.56
10	142	9	3.5	51	11	1.5	16	9	.39
11	131	6	2.1	46	8	.99	15	9	.36
12	128	6	2.1	44	8	.95	13	10	.35
13	115	5	1.6	40	8	.86	11	12	.36
14	103	5	1.4	36	9	.87	10	15	.41
15	94	9	2.3	35	11	1.0	9.3	15	.38
16	87	10	2.3	43	12	1.4	9.6	13	.34
17	81	8	1.7	84	24	5.4	9.6	11	.29
18	74	6	1.2	326	156	137	8.9	11	.26
19	68	9	1.7	924	184	459	8.2	10	.22
20	63	13	2.2	368	76	76	8.9	12	.29
21	60	13	2.1	214	38	22	25	15	1.0
22	68	14	2.6	154	26	11	37	15	1.5
23	72	8	1.6	111	20	6.0	36	15	1.5
24	61	6	.99	84	15	3.4	31	14	1.2
25	53	3	.43	68	15	2.8	24	14	.91
26	52	5	.70	56	14	2.1	69	27	5.0
27	53	13	1.9	48	12	1.6	76	41	8.4
28	49	10	1.3	41	11	1.2	49	54	7.1
29	42	4	.45	42	46	5.2	31	29	2.4
30	40	5	.54	61	37	6.1	39	36	3.8
31	---	---	---	53	12	1.7	---	---	---
TOTAL	5770	---	1163.91	3703	---	779.95	1001.5	---	69.14
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	38	38	3.9	24	33	2.1	7.2	7	.14
2	24	26	1.7	46	54	6.7	8.2	11	.24
3	16	21	.91	26	38	2.7	7.5	11	.22
4	15	20	.81	16	34	1.5	7.9	13	.28
5	13	18	.63	11	29	.86	10	16	.43
6	11	19	.56	8.2	28	.62	9.6	14	.36
7	146	420	166	8.6	27	.63	7.2	10	.19
8	47	238	30	7.5	16	.32	6.0	11	.18
9	38	141	14	7.5	19	.38	5.4	10	.15
10	24	80	5.2	11	22	.65	6.3	13	.22
11	16	58	2.5	10	14	.38	8.9	12	.29
12	13	43	1.5	7.5	18	.36	26	17	1.2
13	10	31	.84	6.6	21	.37	21	14	.79
14	7.2	24	.47	244	296	195	14	12	.45
15	6.6	14	.25	278	268	201	11	16	.48
16	6.9	22	.41	176	123	58	9.6	14	.36
17	24	30	1.9	113	73	22	8.6	12	.28
18	47	27	3.4	59	48	7.6	10	12	.32
19	25	40	2.7	40	36	3.9	13	12	.42
20	16	32	1.4	30	31	2.5	12	13	.42
21	11	21	.62	22	26	1.5	11	9	.27
22	8.9	21	.50	18	23	1.1	10	6	.16
23	7.2	17	.33	14	19	.72	8.6	4	.09
24	6.3	27	.46	11	12	.36	7.2	6	.12
25	4.8	50	.54	10	10	.27	6.9	5	.09
26	4.3	55	.59	8.2	9	.20	6.0	4	.06
27	4.5	36	.44	6.9	9	.17	7.9	10	.21
28	3.8	17	.17	7.2	17	.33	125	64	22
29	3.4	14	.13	7.9	15	.32	133	65	23
30	3.2	8	.07	7.2	12	.23	146	39	15
31	4.1	11	.12	7.9	10	.21	---	---	---
TOTAL	605.2	---	243.05	1250.2	---	512.98	671.0	---	68.42
YEAR	90005.9		39908.88						

03204500 MUD RIVER NEAR MILTON, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Oct 08	1000	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	17	50	
		Pennales			
		Naviculaceae			
		Gyrosigma		<1	
		Nitzschiaceae			
		Nitzschia	17	50	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria		<1	
		TOTAL	35		
Nov 13	1045	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	39	3	
		Scenedesmaceae			
		Crucigenia	150	13	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Cymbellaceae			
		Cymbella	150	13	
		Naviculaceae			
		Gyrosigma		<1	
		Navicula	550	47	
		Nitzschiaceae			
		Nitzschia	270	23	
		TOTAL	1100		
Nov 24	1130	CHLOROPHYTA			
		Chlorophyceae			
		Volvocales			
		Chlamydomonadaceae			
		Chlamydomonas	230	92	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Naviculaceae			
		Navicula	21	8	
		TOTAL	250		
Dec 17	0900	CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnantheae			
		Achnanthes	55	12	
		Cymbellaceae			
		Cymbella	37	8	
		Eunotiaceae			
		Eunotia	18	4	
		Gomphonemataceae			
		Gomphonema	55	12	
		Meridionaceae			
		Meridion		<1	
		Naviculaceae			
		Navicula	180	38	
		Nitzschiaceae			
		Nitzschia	130	27	
		Surirellaceae			
		Surirella		<1	
		TOTAL	480		
Jan 23	1100	TOTAL	0		
Feb 10	1420	CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Eunotiaceae			
		Eunotia	13	50	
		Nitzschiaceae			
		Nitzschia	13	50	
		TOTAL	25		

03204500 MUD RIVER NEAR MILTON, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Feb 19	1500	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	45	19	
		Cymbellaceae			
		Cymbella	15	6	
		Gomphonemataceae			
		Gomphonema	89	37	
		Meridionaceae			
		Meridion	15	6	
		Naviculaceae			
		Navicula	30	12	
		Nitzschiaceae			
		Nitzschia	15	6	
		Surirellaceae			
		Surirella	30	12	
		TOTAL	240		
Mar 23	1300	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	7	3	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	66	33	
		Cymbellaceae			
		Cymbella	13	7	
		Eunotiaceae			
		Eunotia	13	7	
		Fragilariaceae			
		Synedra	26	13	
		Gomphonemataceae			
		Gomphonema	13	7	
		Naviculaceae			
		Navicula	20	10	
		Stauroneis		<1	
		Nitzschiaceae			
		Nitzschia	33	17	
		Surirellaceae			
		Surirella	7	3	
		TOTAL	200		
Apr 28	1430	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Coelastraceae			
		Coelastrum	11	3	
		Scenedesmaceae			
		Scenedesmus	65	17	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes		<1	
		Cymbellaceae			
		Cymbella	11	3	
		Fragilariaceae			
		Synedra	11	3	
		Gomphonemataceae			
		Gomphonema		<1	
		Naviculaceae			
		Navicula	32	8	
		Nitzschiaceae			
		Nitzschia	180	47	
		EUGLENOPHYCEAE			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas	75	19	
		TOTAL	390		

GUYANDOTTE RIVER BASIN

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03204500 MUD RIVER NEAR MILTON, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON					
Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
June 04	1330	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	9	2	
		Volvocales			
		Chlamydomonadaceae			
		Chlamydomonas	13	4	
		Zygnematales			
		Desmidiaceae			
		Staurastrum	4	1	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	9	2	
		Pennales			
		Achnanthaceae			
		Achnanthes	4	1	
		Cymbellaceae			
		Amphora	13	4	
		Cymbella	4	1	
		Eunotiaceae			
		Eunotia	4	1	
		Fragilariaceae			
		Synedra	4	1	
		Gomphonemataceae			
		Gomphonema	9	3	
		Meridionaceae			
		Meridion	4	1	
		Naviculaceae			
		Gyrosigma	4	1	
		Navicula	66	18	
		Pinnularia	4	1	
		Stauroneis	4	1	
		Nitzschiaceae			
		Nitzschia	160	44	
		Surirellaceae			
		Surirella	4	1	
		Chrysophyceae			
		Chrysomonadales			
		Chromulinaceae			
		Chrysococcus	4	1	
		EUGLENOPHYTA			
		Cryptophyceae			
		Cryptomonidales			
		Cryptomonadaceae			
		Cryptomonas	26	7	
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Euglena	4	1	
		Lepocinclis	9	3	
		TOTAL	360		

03204500 MUD RIVER NEAR MILTON, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
July 27	1150	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	29	4	
		Chlorella	12	2	
		Tetraedron	18	2	
		Volvocales			
		Chlamydomonadaceae			
		Chlamydomonas	24	3	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	12	2	
		Pennales			
		Achnanthaceae			
		Achnanthes	6	1	
		Cymbellaceae			
		Cymbella	6	1	
		Eunotiaceae			
		Eunotia	6	1	
		Fragilariaceae			
		Synedra	6	1	
		Naviculaceae			
		Gyrosigma	6	1	
		Navicula	100	13	
		Neidium	6	1	
		Nitzschaceae			
		Nitzschia	35	5	
		Surirellaceae			
		Surirella	24	3	
		Chrysophyceae			
		Chrysomonadales			
		Chromulinaceae			
		Chrysococcus	6	1	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Agmenellum	380	50	
		EUGLENOPHYTA			
		Cryptophyceae			
		Cryptomonadales			
		Cryptomonadaceae			
		Cryptomonas	18	2	
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Phacus	6	1	
		Trachelomonas	53	7	
		PYRRHOPHYTA			
		Dinophyceae			
		Peridinales			
		Glenodiniaceae			
		Glenodinium	6	1	
		TOTAL	750		

03204500 MUD RIVER NEAR MILTON, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Aug 18	1100	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	10	4	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Achnanthes	52	19	
		Fragilariaceae			
		Synedra	21	8	
		Gomphonemataceae			
		Gomphonema	21	8	
		Naviculaceae			
		Navicula	62	23	
		Tropidoneis		<1	
		Nitzschaceae			
		Hantzschia		<1	
		Nitzschia	83	31	
		Surirellaceae			
		Surirella		<1	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas	21	8	
		TOTAL	270		
Sep 20	1130	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	38	24	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	11	7	
		Pennales			
		Cymbellaceae			
		Cymbella	16	10	
		Fragilariaceae			
		Synedra	5	3	
		Gomphonemataceae			
		Gomphonema	5	3	
		Naviculaceae			
		Navicula	44	28	
		Pinnularia		<1	
		Nitzschaceae			
		Nitzschia	27	17	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Euglena	11	7	
		TOTAL	160		

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PERIPHYTON

Date	Length of exposure (days)	Biomass (g/m ²)		Chlorophyll a	Chlorophyll b	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	(mg/m ²)	(mg/m ²)		
Oct 08	25	22	15	8.5	12	790	Polyethylene strip
Jan 23	37	0.6	0.2	0.2	0.1	1900	

GUYANDOTTE RIVER BASIN

03205180 MUD RIVER AT BARBOURSVILLE, WV

LOCATION.--Lat 38°24'58", long 82°17'42", Cabell County, Hydrologic Unit 05070102, at bridge on Old Guyan River Road at Barboursville, and 200 ft (61 m) upstream from mouth.

DRAINAGE AREA.--360 mi² (932 km²).

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1976.

WATER TEMPERATURES: June to September 1976.

TURBIDITY: October 1975 to September 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 480 micromhos July 12; minimum daily, 67 micromhos Mar. 22.

WATER TEMPERATURES: Maximum daily during period June to September, 28.0°C July 12; minimum daily, 15.5°C

Sept. 23.

TURBIDITY: Maximum daily, 350 JTU July 16; minimum daily, 2 JTU Nov. 26.

WATER QUALITY DATA

		INSTAN- TANEOUS DIS- CHARGE	SPE- CIFIC CON- DUCT- ANCE	PH	TEMPER- ATURE	TUR- BID- ITY	DIS- SOLVED OXYGEN	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	
DATE	TIME	(CFS)	(MICRO- MHOS)	(UNITS)	(DEG C)	(JTU)	(MG/L)					
AUG , 1975												
11...	1200	29	140	8.1	22.0	--	7.1	--	860	--	500	
SEP												
18...	1215	32	215	8.2	17.5	35	7.2	--	--	2800	2000	
OCT												
01...	1630	51	160	8.9	18.0	30	8.5	--	--	980	1100	
29...	0915	120	170	8.1	13.5	7	8.7	--	--	--	--	
NOV												
24...	1015	115	150	8.3	7.5	5	8.6	--	--	1300	--	
FEB , 1976												
10...	1020	394	105	7.5	3.5	10	13.6	--	3100	--	100	
MAR												
22...	1000	--	90	8.3	10.0	--	8.0	--	--	4500	5000	
APR												
27...	0810	83	170	7.4	15.0	4	8.2	--	--	--	--	
MAY												
21...	1645	105	110	7.0	18.0	15	8.6	--	--	520	60	
24...	1645	105	--	--	--	--	--	--	--	--	--	
JUN												
21...	1000	28	260	6.7	20.0	40	6.8	--	--	2500	--	
JUL												
26...	1130	5.0	175	6.6	23.0	30	5.5	--	--	2000	340	
AUG												
23...	1015	18	150	7.8	23.0	20	7.2	--	--	3100	360	
SEP												
20...	0815	14	230	7.8	19.0	10	6.5	--	--	17000	9600	
OCT												
20...	1415	64	170	7.8	11.0	20	8.4	--	--	8000	--	
NOV												
15...	0830	56	155	8.1	4.0	3	10.2	70	--	--	10	
DATE	100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
AUG , 1975												
11...	--	57	16	16	4.2	7.0	.4	3.4	50	0	41	
SEP												
18...	--	68	11	19	5.0	14	.7	3.4	70	0	57	
OCT												
01...	--	53	20	15	3.8	5.4	.3	2.8	40	0	33	
29...	--	--	--	--	--	--	--	--	--	--	--	
NOV												
24...	120	--	--	--	--	--	--	--	--	--	--	
FEB , 1976												
10...	--	37	15	10	2.8	3.8	.3	1.2	26	0	21	
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	
APR												
27...	--	--	--	--	--	--	--	--	--	--	--	
MAY												
21...	--	39	13	10	3.3	3.7	.3	1.8	31	0	25	
24...	--	--	--	--	--	--	--	--	--	--	--	
JUN												
21...	3000	--	--	--	--	--	--	--	--	--	--	
JUL												
26...	--	66	13	19	4.6	8.0	.4	3.8	65	0	53	
AUG												
23...	--	54	17	15	4.0	6.3	.4	4.2	45	0	37	
SEP												
20...	--	68	5	20	4.4	11	.6	3.8	77	0	63	
OCT												
20...	600	53	10	14	4.4	7.1	.4	2.6	52	0	43	
NOV												
15...	--	52	11	15	3.6	6.3	.4	2.1	50	0	41	

GUYANDOTTE RIVER BASIN

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03205180 MUD RIVER AT BARBOURSVILLE, WV--Continued

WATER QUALITY DATA

DATE	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- TUENTS) (MG/L)	SUS- PENDE SOLIDS (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
AUG , 1975											
11...	.6	16	6.1	.2	4.8	97	84	--	.28	.01	.29
SEP											
18...	.7	20	16	--	--	--	--	--	.28	.04	.32
OCT											
01...	.1	21	6.7	.1	7.3	105	84	--	.43	.01	.44
29...	--	--	--	--	--	--	--	--	--	--	--
NOV											
24...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1976											
10...	1.3	23	4.6	.1	6.6	87	66	--	.28	.00	.28
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
APR											
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
21...	5.0	21	3.8	--	7.1	--	67	--	.20	.00	.20
24...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	26	18	7.6	.2	5.5	115	103	46	.96	.01	.97
AUG											
23...	1.1	22	6.7	.2	6.2	98	89	--	.41	.02	.43
SEP											
20...	2.0	18	14	.2	5.8	127	117	--	.12	.01	.13
OCT											
20...	1.3	23	7.6	.1	7.8	95	94	--	.30	.01	.31
NOV											
15...	.6	21	6.5	.1	7.2	96	88	--	.25	.01	.26
DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	
AUG , 1975											
11...	--	.01	.03	740	--	30	--	--	--	--	
SEP											
18...	--	.06	.18	--	--	120	--	--	--	--	
OCT											
01...	.54	.03	.09	520	360	160	0	0	1	0	
29...	--	--	--	--	--	--	--	--	--	--	
NOV											
24...	--	--	--	--	--	--	--	--	--	--	
FEB , 1976											
10...	--	.02	.06	410	390	20	0	0	0	10	
MAR											
22...	--	--	--	--	--	--	--	--	--	--	
APR											
27...	--	--	--	--	--	--	--	--	--	--	
MAY											
21...	--	.00	.00	--	--	20	--	--	--	--	
24...	--	--	--	--	--	--	--	--	--	--	
JUN											
21...	--	--	--	--	--	--	--	--	--	--	
JUL											
26...	--	.01	.03	800	740	60	2	0	3	10	
AUG											
23...	--	.04	.12	--	--	30	--	--	--	--	
SEP											
20...	--	.01	.03	--	--	20	--	--	--	--	
OCT											
20...	--	.02	.06	--	--	10	--	--	--	--	
NOV											
15...	--	.02	.06	--	--	30	--	--	--	--	

03205180 MUD RIVER AT BARBOURSVILLE, WV--Continued

WATER QUALITY DATA

DATE	HEXA- VALENT CHROMIUM (CR6) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE D MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
AUG , 1975										
11...	--	1900	20	--	--	--	430	--	340	--
SEP										
18...	--	2300	170	--	--	--	280	--	160	--
OCT										
01...	0	1400	170	19	13	6	240	70	170	.9
29...	--	--	--	--	--	--	--	--	--	--
NOV										
24...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
10...	0	1000	30	5	3	2	50	10	40	<.5
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
27...	--	--	--	--	--	--	--	--	--	--
MAY										
21...	--	1200	110	--	--	--	100	--	70	--
24...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	1	1700	40	6	0	11	280	70	210	<.5
AUG										
23...	--	--	60	--	--	--	--	--	280	--
SEP										
20...	--	--	180	--	--	--	--	--	590	--
OCT										
20...	--	--	150	--	--	--	--	--	190	--
NOV										
15...	--	--	260	--	--	--	--	--	200	--

DATE	SUS- PENDE D MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE D SEDI- MENT (MG/L)	SUS- PENDE D SEDI- MENT DIS- CHARGE (T/DAY)
AUG , 1975									
11...	--	--	--	--	--	5.0	--	47	--
SEP									
18...	--	--	--	--	--	--	--	62	--
OCT									
01...	.4	<.5	30	20	10	3.6	1200	--	--
29...	--	--	--	--	--	--	--	22	7.1
NOV									
24...	--	--	--	--	--	--	2700	12	3.7
FEB , 1976									
10...	.0	<.5	10	0	10	3.2	120	14	15
MAR									
22...	--	--	--	--	--	--	1700	555	--
APR									
27...	--	--	--	--	--	--	3000	22	4.9
MAY									
21...	--	--	--	--	--	--	4100	--	--
24...	--	--	--	--	--	--	--	32	9.1
JUN									
21...	--	--	--	--	--	--	530	67	5.1
JUL									
26...	.0	<.5	30	0	30	36	14000	44	.59
AUG									
23...	--	--	--	--	--	4.9	22000	46	2.2
SEP									
20...	--	--	--	--	--	4.8	18000	34	1.3
OCT									
20...	--	--	--	--	--	4.4	960	24	4.2
NOV									
15...	--	--	--	--	--	3.4	1500	1	.15

GUYANDOTTE RIVER BASIN

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03205180 MUD RIVER AT BARBOURSVILLE, WV--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	149	152	98	117	125	114	164	155	170	281	180
2	141	147	133	73	115	124	109	158	159	150	225	200
3	141	151	135	88	124	126	104	157	160	170	227	180
4	144	161	143	88	110	129	107	152	162	170	238	180
5	154	162	141	82	109	138	106	150	168	200	245	200
6	156	155	145	89	125	132	114	160	171	200	249	200
7	163	155	136	100	105	136	119	163	171	170	238	200
8	186	154	111	118	105	143	117	160	168	160	241	200
9	173	154	111	106	107	182	128	160	166	120	229	210
10	170	171	118	107	133	152	138	160	169	150	202	240
11	172	162	120	138	117	136	149	162	172	160	202	200
12	168	170	129	138	119	121	140	159	175	480	202	200
13	170	104	133	112	117	124	144	154	179	200	200	200
14	173	88	132	92	122	129	143	157	183	190	217	200
15	180	101	127	92	111	124	142	161	225	190	218	210
16	184	102	138	95	112	119	144	161	184	270	164	230
17	198	108	103	98	111	121	147	145	185	160	165	220
18	162	111	131	99	100	126	148	149	184	170	163	220
19	100	111	100	105	97	122	150	151	194	170	169	210
20	100	115	116	112	99	124	155	102	338	170	174	200
21	108	116	106	119	101	99	147	101	334	180	200	200
22	117	119	113	119	104	67	155	100	188	190	150	210
23	122	120	116	125	109	82	181	101	183	170	150	210
24	125	124	114	129	110	91	157	109	190	180	140	210
25	138	135	124	141	118	103	162	110	201	180	150	210
26	136	342	106	145	121	114	163	116	206	180	150	220
27	135	267	87	140	120	121	165	374	177	170	150	150
28	135	171	92	117	118	117	162	131	178	190	190	130
29	142	170	96	111	121	133	159	124	185	190	150	150
30	149	157	106	109	---	122	157	127	131	210	150	170
31	146	---	123	109	---	137	---	129	---	190	170	---
MONTH	149	148	121	109	113	123	141	149	188	189	194	198
YEAR	MAX	480	MIN	67	MEAN	152						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									20.0	22.0	23.0	19.5
2									19.5	21.5	22.0	21.5
3									19.5	21.0	23.0	21.5
4									21.0	20.0	24.0	22.0
5									21.0	21.0	24.0	24.0
6									21.0	21.0	24.0	22.0
7									20.0	21.0	23.0	22.0
8									22.0	22.0	22.5	23.0
9									22.0	22.0	21.0	23.5
10									22.0	22.5	24.0	22.0
11									22.5	25.0	25.0	20.5
12									24.0	28.0	25.0	19.0
13									22.0	25.0	25.5	22.5
14									25.0	24.0	24.0	21.0
15									25.0	26.0	23.0	21.0
16									25.0	23.5	23.5	20.0
17									25.0	23.5	22.5	20.0
18									25.0	23.0	22.5	22.0
19									23.5	22.5	23.0	22.0
20									21.5	24.0	22.5	22.0
21									22.0	25.0	22.0	19.0
22									21.5	24.0	24.5	20.5
23									23.0	26.0	25.0	15.5
24									22.0	25.0	24.5	17.0
25									22.5	24.0	25.0	20.5
26									23.0	24.0	25.5	20.0
27									24.0	25.0	24.0	20.0
28									24.0	25.5	25.0	20.0
29									24.5	25.5	25.0	19.5
30									22.0	25.0	23.0	19.0
31									---	25.0	22.0	---
MONTH									22.5	23.5	23.5	20.5

GUYANDOTTE RIVER BASIN

03205180 MUD RIVER AT BARBOURSVILLE, WV--Continued

TURBIDITY (JTU), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	4	55	100	10	15	70	6	25	200	80	30
2	15	7	45	85	15	9	70	4	9	100	20	35
3	10	5	30	35	25	20	30	7	15	85	60	30
4	7	6	20	60	20	8	20	5	20	55	20	25
5	15	5	20	40	10	10	10	5	7	50	15	20
6	7	5	25	20	65	10	9	3	7	40	15	20
7	8	6	35	10	150	8	8	15	15	40	40	15
8	10	5	100	20	50	7	9	9	5	60	50	10
9	20	5	45	25	20	30	8	6	10	200	35	20
10	10	8	25	20	20	40	7	8	9	65	65	50
11	10	5	15	15	15	50	7	5	10	30	65	20
12	6	95	10	60	20	35	7	5	8	4	60	15
13	5	120	10	75	10	20	7	4	8	40	75	20
14	9	55	20	30	15	20	6	7	9	40	55	10
15	5	30	8	30	20	10	5	8	7	25	50	20
16	6	20	50	30	25	10	7	9	9	350	150	100
17	120	10	75	20	50	7	6	10	8	60	100	20
18	75	7	35	10	150	6	5	60	15	25	65	10
19	60	8	15	9	75	6	5	60	15	25	50	10
20	25	8	10	9	40	9	6	60	50	25	50	10
21	10	7	8	5	30	70	5	30	55	30	40	15
22	10	6	8	6	20	50	7	20	9	45	40	50
23	10	6	5	6	20	70	10	15	9	40	75	10
24	10	6	5	6	15	50	5	15	15	40	30	10
25	10	4	4	6	10	30	4	15	15	30	30	10
26	8	2	120	10	10	20	7	10	35	15	30	15
27	4	3	100	55	15	20	4	6	15	25	50	200
28	6	5	35	90	10	15	5	20	15	100	55	150
29	10	10	25	35	10	15	4	10	10	30	50	75
30	7	6	20	20	---	15	5	3	75	200	25	70
31	5	---	40	15	---	70	---	35	---	40	45	---
MONTH	15	15	30	30	30	25	10	15	15	70	50	35
YEAR	MAX	350	MIN	2	MEAN	30						

03205180 MUD RIVER AT BARBOURSVILLE, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, OCTOBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Oct 1, 1975	1630	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	43	3	
		Scenedesmaceae			
		Scenedesmus	170	14	
		Tetrastrum	170	14	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Achnanthaceae			
		Cocconeis	43	3	
		Cymbellaceae			
		Cymbella	86	7	
		Gomphonemataceae			
		Gomphonema	43	3	
		Naviculaceae			
		Navicula	170	14	
		Nitzschia			
		Nitzschia	86	7	
		Surirellaceae			
		Surirella	43	3	
Nov 24	1015	CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis		<1	
		Oscillatoriales			
		Nostocaceae			
		Aphanizomenon	210	17	
		EUGLENOPHYTA			
		Cryptophyceae			
		Cryptomonadales			
		Cryptomonadaceae			
		Cryptomonas	120	10	
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Euglena	43	3	
		TOTAL	1200		
		CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	1600	58	
		Selenastrum	63	2	
		Scenedesmaceae			
		Scenedesmus	440	16	
		Tetrasporales			
		Coccomyxaceae			
		Elakatothrix	130	5	
		Volvocales			
		Chlamydomonadaceae			
		Chlamydomonas	510	19	
Feb 10, 1976	1020	CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Naviculaceae			
		Navicula		<1	
		TOTAL	2700		
		CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus		<1	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Gomphonemataceae			
		Gomphonema	11	9	
		Naviculaceae			
		Navicula	11	9	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	97	82	
		TOTAL	120		

03205180 MUD RIVER AT BARBOURSVILLE, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, OCTOBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organisms	Count (cells/ml)	Percent of total	Sampling method
Mar 22	1000	CHRYSOPHYTA			Sediment sampler
		Bacillariophyceae			
		Pennales			
		Gomphonemataceae			
		Gomphonema	290	17	
		Meridionaceae			
		Meridion	290	17	
		Naviculaceae			
		Navicula	860	50	
		Nitzschiaceae			
		Nitzschia	290	17	
		TOTAL	1700		
Apr 27	0810	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Coelastraceae			
		Coelastrum	1100	38	
		Occystaceae			
		Ankistrodesmus	330	11	
		Chodatella	83	3	
		Scenedesmaceae			
		Scenedesmus	640	21	
		Volvocales			
		Chlamydomonadaceae			
		Chlamydomonas	210	7	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	28	1	
		Pennales			
		Naviculaceae			
		Navicula	97	3	
		Nitzschiaceae			
		Nitzschia	69	2	
		Surirellaceae			
		Surirella		<1	
		Chrysophyceae			
		Chrysomonadales			
		Chromulinaceae			
		Chrysococcus	170	6	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	180	6	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euleniaceae			
		Euglena		<1	
		Trachelomonas		<1	
		TOTAL			
May 24	1645	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Micractiniaceae			
		Golenkinia	2000	49	
		Occystaceae			
		Ankistrodesmus	200	5	
		Kirchneriella	400	10	
		Scenedesmaceae			
		Scenedesmus	990	24	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	99	2	
		Pennales			
		Gomphonemataceae			
		Gomphonema	99	2	
		Naviculaceae			
		Gyrosigma	99	2	
		Navicula	200	5	
		TOTAL	4100		

GUYANDOTTE RIVER BASIN

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03205180 MUD RIVER AT BARBOURSVILLE, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, OCTOBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organisms	Count (cells/ml)	Percent of total	Sampling method
June 21	1000	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Scenedesmaceae			
		Scenedesmus	11	2	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Pennales			
		Gomphonemataceae			
		Gomphonema	11	2	
		Naviculaceae			
		Navicula	34	6	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	450	85	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas	23	4	
		TOTAL	530		
July 26	1130	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Dictyosphaerium	2500	18	
		Scenedesmaceae			
		Scenedesmus	2000	14	
		CHRYSTOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira		<1	
		Pennales			
		Naviculaceae			
		Navicula	130	1	
		Nitzschiaceae			
		Nitzschia	250	2	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	9300	65	
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria		<1	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas	130	1	
		TOTAL	14000		

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Aug 23	1015	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Micractiniaceae			
		Golenkinia		<1	
		Occystaceae			
		Ankistrodesmus	160	1	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella		<1	
		Pennales			
		Gomphonemataceae			
		Gomphonema		<1	
		Naviculaceae			
		Navicula	210	1	
		Nitzschiaceae			
		Nitzschia	160	1	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	6400	29	
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	15000	67	
Sep 20	0815	EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas	210	1	
		TOTAL	22000		
		CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus		<1	
		Scenedesmaceae			
		Scenedesmus	1300	7	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Pennales			
		Nitzschiaceae			
		Nitzschia	120	1	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	17000	92	
		TOTAL	18000		
Oct 20	1415	CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	11	1	
		Scenedesmaceae			
		Scenedesmus	44	5	
		Volvocales			
		Phacotaceae			
		Pteromonas	110	11	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	65	7	
		Pennales			
		Cymbellaceae			
		Cymbella	22	2	
		Naviculaceae			
		Navicula	22	2	
		Nitzschiaceae			
		Nitzschia	22	2	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	650	68	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Euglena	11	1	
		TOTAL	960		

GUYANDOTTE RIVER BASIN

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03205180 MUD RIVER AT BARBOURSVILLE, WV--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, OCTOBER 1975 TO FEBRUARY 1977

PHYTOPLANKTON

Date	Time	Organisms	Count (cells/ml)	Percent of total	Sampling method
Nov 15	0830	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Oocystaceae			
		Ankistrodesmus		<1	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella		<1	
		Melosira	31	2	
		Pennales			
		Fragilariaceae			
		Synedra		<1	
		Nitzschiaceae			
		Nitzschia		<1	
		CYANOPHYTA			
		Myxophyceae			
		Oscillatoriales			
		Oscillatoriaceae			
		Oscillatoria	1500	97	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas		<1	
		TOTAL	1500		
Feb 11, 1977	1100	CHLOROPHYTA			
		Chlorophyceae			
		Volvocales			
		Chlamydomonadaceae			
		Chlamydomonas	4	4	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	8	7	
		Pennales			
		Fragilariaceae			
		Asterionella	4	4	
		Meridionaceae			
		Meridion	4	4	
		Naviculaceae			
		Navicula	55	48	
		Nitzschiaceae			
		Nitzschia	17	15	
		Surirellaceae			
		Surirella	21	19	
		TOTAL	110		

GUYANDOTTE RIVER BASIN

03205200 GUYANDOTTE RIVER AT HUNTINGTON, WV

LOCATION---Lat 38°25'42", long 82°23'32", Cabell County, Hydrologic Unit 05070102, at Fifth Avenue Bridge, at Huntington, and 0.3 mi (0.5 km) upstream from mouth.

DRAINAGE AREA---1,682 mi² (4,356 km²).

PERIOD OF RECORD---October 1975 to November 1976 (discontinued).

WATER QUALITY DATA

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM-TUM-MF (COL./100 ML)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT , 1975											
01...	1530	431	410	8.2	18.0	20	6.2	--	--	1200	1500
29...	0930	470	420	8.2	14.5	9	8.0	--	--	540	80
NOV											
24...	0930	638	320	8.0	7.5	2	8.5	--	--	900	100
FEB , 1976											
10...	1110	3080	210	8.3	3.0	10	11.2	--	780	--	110
APR											
27...	0900	423	495	7.8	14.5	4	8.5	--	--	--	--
MAY											
25...	0855	463	290	7.1	19.0	10	7.6	--	--	240	20
JUN											
21...	1045	414	540	8.0	21.0	35	8.2	--	--	8500	3000
JUL											
26...	1300	123	650	8.0	22.5	--	8.2	--	--	1000	100
AUG											
23...	1130	110	525	8.2	23.5	6	12.2	--	--	15000	700
SEP											
20...	0930	26	--	--	--	--	--	--	--	--	--
OCT											
20...	1330	495	390	7.7	11.5	4	9.4	--	--	2100	75
NOV											
15...	0930	463	380	7.7	4.0	3	10.8	1800	--	--	75

DATE	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT , 1975											
01...	99	54	23	10	23	1.0	3.6	54	0	44	.5
29...	--	--	--	--	--	--	--	--	--	--	--
NOV											
24...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1976											
10...	99	33	13	6.5	14	.8	1.7	32	0	26	.3
APR											
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	96	44	24	8.8	27	1.2	2.6	64	0	53	8.1
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
JUL											
26...	130	39	32	13	57	2.1	4.1	115	0	94	1.8
AUG											
23...	120	57	28	13	48	1.9	4.4	81	0	66	.8
SEP											
20...	--	--	--	--	--	--	--	--	--	--	--
OCT											
20...	110	61	24	11	29	1.2	3.2	54	0	44	1.7
NOV											
15...	99	38	23	10	34	1.5	2.9	74	0	61	2.4

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	SUSPENDED SOLIDS (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE PLUS NITRITE (N) (MG/L)
OCT , 1975										
01...	87	10	.0	8.0	205	194	--	.53	.01	.54
29...	--	--	--	--	--	--	--	--	--	--
NOV										
24...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
10...	58	5.7	.1	6.9	150	124	--	.50	.00	.50
APR										
27...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	83	8.4	--	6.6	--	194	--	.40	.01	.41
JUN										
21...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	130	22	.2	.9	328	316	16	.03	.01	.04
AUG										
23...	130	18	.2	2.0	306	284	--	.08	.03	.11
SEP										
20...	--	--	--	--	--	--	--	--	--	--
OCT										
20...	110	15	.1	8.9	240	231	--	.59	.01	.60
NOV										
15...	98	13	.1	7.1	231	227	--	.37	.01	.38

GUYANDOTTE RIVER BASIN

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03205200 GUYANDOTTE RIVER AT HUNTINGTON, WV--Continued

WATER QUALITY DATA

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	SUS- PENDE ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL CAD- MIUM (CU) (UG/L)	SUS- PENDE CAD- MIUM (CU) (UG/L)	DIS- SOLVED CAD- MIUM (CU) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)
OCT , 1975										
01...	.45	.01	.03	500	340	160	0	0	1	<10
29...	--	--	--	--	--	--	--	--	--	--
NOV										
24...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
10...	--	.01	.03	590	570	20	1	1	0	<10
APR										
27...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	--	.02	.06	--	--	100	--	--	--	--
JUN										
21...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	--	.01	.03	280	220	60	5	0	5	<10
AUG										
23...	--	.00	.00	--	--	80	--	--	--	--
SEP										
20...	--	--	--	--	--	--	--	--	--	--
OCT										
20...	--	.01	.03	--	--	10	--	--	--	--
NOV										
15...	--	.01	.03	--	--	30	--	--	--	--

DATE	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)
OCT , 1975										
01...	1	1300	0	18	14	4	170	30	140	<.5
NOV										
24...	--	--	--	--	--	--	--	--	--	--
FEB , 1976										
10...	0	1300	10	4	2	2	80	50	30	<.5
MAR										
22...	--	--	--	--	--	--	--	--	--	--
APR										
27...	--	--	--	--	--	--	--	--	--	--
MAY										
25...	--	840	180	--	--	--	120	20	100	--
JUN										
21...	--	--	--	--	--	--	--	--	--	--
JUL										
26...	0	640	30	17	0	17	160	100	60	<.5
AUG										
23...	--	--	50	--	--	--	--	--	40	--
SEP										
20...	--	--	--	--	--	--	--	--	--	--
OCT										
20...	--	--	100	--	--	--	--	--	180	--
NOV										
15...	--	--	70	--	--	--	--	--	110	--

DATE	SUS- PENDE MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT , 1975									
01...	.0	<.5	30	10	20	5.0	910	92	107
NOV									
24...	--	--	--	--	--	--	170	4	6.9
FEB , 1976									
10...	.0	<.5	10	0	10	3.1	460	60	499
MAR									
22...	--	--	--	--	--	--	--	387	--
APR									
27...	--	--	--	--	--	--	--	26	30
MAY									
25...	--	--	--	--	--	--	--	43	54
JUN									
21...	--	--	--	--	--	--	--	54	60
JUL									
26...	.0	<.5	20	10	10	4.0	--	20	6.6
AUG									
23...	--	--	--	--	--	7.5	--	22	6.5
SEP									
20...	--	--	--	--	--	--	--	44	3.1
OCT									
20...	--	--	--	--	--	2.6	--	11	15
NOV									
15...	--	--	--	--	--	2.5	--	2	2.5

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

PHYTOPLANKTON

Date	Time	Organism	Count (cells/ml)	Percent of total	Sampling method
Oct 01	1530	CHLOROPHYTA			Sediment sampler
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	86	10	
		Scenedesmaceae			
		Scenedesmus		<1	
		CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	170	19	
		Melosira	130	14	
		Pennales			
		Cymbellaceae			
		Cymbella	43	5	
		Gomphonemataceae			
		Gomphonema	43	5	
		Naviculaceae			
		Amphipleura	43	5	
		Navicula	210	24	
		Pinnularia		<1	
		Nitzschiaceae			
		Nitzschia	130	14	
Nov 24	0930	EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Euglena	43	5	
		TOTAL	910		
		CHLOROPHYTA			
		Chlorophyceae			
		Chlorococcales			
		Occystaceae			
		Ankistrodesmus	110	64	
Feb 10	1110	CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Cyclotella	8	5	
		Pennales			
		Naviculaceae			
		Navicula	24	14	
		Nitzschiaceae			
		Nitzschia	16	9	
		CYANOPHYTA			
		Myxophyceae			
		Chroococcales			
		Chroococcaceae			
		Anacystis	8	5	
		EUGLENOPHYTA			
		Euglenophyceae			
		Euglenales			
		Euglenaceae			
		Trachelomonas	8	5	
		TOTAL	170		
Feb 10	1110	CHRYSOPHYTA			
		Bacillariophyceae			
		Centrales			
		Coscinodiscaceae			
		Melosira	57	12	
		Pennales			
		Achnanthaceae			
		Achnanthes		<1	
		Fragilariaceae			
		Fragilaria		<1	
		Gomphonemataceae			
		Gomphonema	57	12	
		Naviculaceae			
		Navicula	200	44	
		Nitzschiaceae			
		Nitzschia	110	25	
		Surirellaceae			
		Surirella	28	6	
		TOTAL	460		

OHIO RIVER MAIN STEM

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03206000 OHIO RIVER AT HUNTINGTON, WV

LOCATION.--Lat 38°24'48", long 82°30'02", Lawrence County, Ohio, Hydrologic Unit 05090101, 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 in reports of National Weather Service.

REVISED RECORDS.--WSP 853: 1934, 1936. WSP 893: Drainage area. WSP 1305: 1935(M), 1939(M).

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.

REMARKS.--Records good. 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. Corps of Engineers gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 654,000 ft³/s (18,500 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 326,000 ft³/s (9,230 m³/s) Feb. 20, gage height, 42.90 ft (13.076 m); minimum, not determined; minimum gage height, 24.23 ft (7.385 m) June 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50000	---	45000	221000	147000	141000	114000	---	---	---	---	---
2	58300	---	49000	310000	127000	129000	153000	---	---	---	---	---
3	60400	---	47000	314000	114000	118000	162000	---	---	---	---	---
4	56000	---	50600	278000	102000	119000	151000	---	---	---	---	---
5	44000	---	39000	216000	87100	136000	134000	---	---	---	---	---
6	---	---	39000	174000	84800	151000	117000	---	---	---	---	---
7	---	---	64400	152000	102000	145000	110000	---	---	---	---	---
8	---	---	60800	136000	111000	126000	94600	---	---	---	---	---
9	---	---	73600	130000	97800	118000	81400	---	---	---	---	---
10	40000	---	75400	99400	80600	114000	68000	---	---	---	---	---
11	55600	35000	69200	76500	85200	118000	60200	---	---	37000	---	---
12	55600	59500	75300	77800	110000	116000	42000	---	---	131000	---	---
13	---	135000	74200	80200	131000	140000	---	---	---	152000	---	---
14	---	153000	69600	122000	140000	135000	---	---	---	76900	---	---
15	---	131000	68800	151000	151000	130000	---	---	---	62800	---	---
16	---	93300	96500	174000	150000	118000	---	---	---	50400	57200	---
17	46000	78200	159000	143000	155000	107000	---	---	---	82400	---	---
18	146000	57700	164000	125000	229000	104000	---	51800	---	66900	---	---
19	212000	55100	130000	82500	296000	103000	---	56400	---	42000	---	---
20	214000	53100	110000	62500	319000	95300	---	52600	---	---	---	---
21	165000	45000	92100	69300	302000	119000	---	61500	57000	---	---	---
22	127000	54000	87400	65500	275000	209000	---	42000	47000	---	---	---
23	112000	---	72800	51500	244000	211000	---	---	68000	50000	---	---
24	99700	---	64100	42000	215000	178000	---	---	57900	81300	---	---
25	78900	---	58100	53900	214000	143000	---	---	41000	107000	---	---
26	67000	---	102000	75200	202000	115000	---	---	63200	79200	---	---
27	58400	---	154000	138000	183000	99200	---	---	50000	48000	---	50200
28	46000	---	168000	212000	172000	93400	---	---	---	---	---	53100
29	49000	---	149000	236000	162000	78200	---	---	---	---	---	---
30	48000	---	122000	207000	---	75600	---	---	---	---	---	---
31	42000	---	134000	171000	---	81300	---	---	---	---	---	---
TOTAL	---	---	2763900	4486700	4788500	3866000	---	---	---	---	---	---
MEAN	---	---	89160	144700	165100	124700	---	---	---	---	---	---
MAX	---	---	168000	314000	319000	211000	---	---	---	---	---	---
MIN	---	---	39000	42000	80600	75600	---	---	---	---	---	---

TWELVEPOLE CREEK BASIN

03206600 EAST FORK TWELVEPOLE CREEK NEAR DUNLOW, WV

LOCATION.--Lat 38°01'02", long 82°17'46", Wayne County, Hydrologic Unit 05090102, 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 Deviltrace Branch, and 7.5 mi (12.1 km) east of Dunlow.

DRAINAGE AREA.--38.2 mi² (98.9 km²).

WATER-DISCHARGE RECORDS

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.

REMARKS.--Water-discharge records good. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--12 years, 52.5 ft³/s (1.487 m³/s), 18.66 in/yr (474 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft³/s (75.3 m³/s) Nov. 27, 1973, gage height, 13.26 ft (4.042 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.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 840 ft³/s (24 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 1	0330	1570 44.5	11.18 3.408	Mar. 21	0600	*1610 45.6	11.27 3.435

Minimum discharge, 0.36 ft³/s (0.010 m³/s) July 24, 30, Aug. 5, 6, gage height, 4.88 ft (1.487 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	27	36	942	86	31	211	11	5.2	3.2	4.3	3.5
2	13	27	34	280	75	29	153	12	6.6	2.4	3.0	6.0
3	13	26	33	347	68	27	105	15	7.8	3.0	1.2	7.2
4	11	23	30	280	60	25	81	12	4.9	8.4	.72	5.2
5	10	21	29	161	56	25	60	11	3.2	4.9	.38	4.6
6	8.9	18	29	95	96	23	49	10	2.6	3.2	9.5	4.0
7	8.6	17	39	80	85	21	42	10	2.0	3.0	26	3.5
8	8.3	20	37	80	70	20	36	9.6	1.8	2.8	7.2	3.0
9	8.1	20	41	60	60	33	32	8.1	1.6	4.3	3.5	2.8
10	5.2	20	40	50	57	54	29	7.8	1.2	3.5	2.4	19
11	5.2	21	37	80	56	51	28	7.8	1.1	2.0	1.4	6.9
12	5.2	163	35	134	45	48	25	8.1	.96	1.4	1.0	3.8
13	4.4	300	32	156	50	50	23	7.0	.96	1.0	1.0	2.8
14	4.6	158	30	280	177	42	21	6.7	.80	.88	60	2.2
15	5.7	92	38	179	144	39	20	7.0	.80	.80	39	3.0
16	8.6	67	191	131	107	42	19	7.8	.72	1.0	34	5.4
17	111	51	140	65	99	40	18	12	.88	1.2	16	4.9
18	152	41	92	50	116	36	16	24	.72	1.0	9.5	4.0
19	87	35	60	45	121	36	16	26	3.0	.88	7.2	3.8
20	58	33	45	40	103	36	15	19	18	.80	6.0	3.5
21	44	31	35	37	88	937	14	13	28	.64	5.2	5.7
22	37	27	28	34	81	361	17	11	8.4	.56	4.6	6.0
23	29	24	22	32	62	160	13	9.0	6.0	.48	4.3	4.3
24	20	21	24	35	52	102	12	7.5	4.9	.96	4.0	3.2
25	16	21	35	40	47	87	12	6.6	4.9	9.5	3.2	2.8
26	17	19	201	49	44	68	14	5.7	14	2.8	4.3	6.0
27	21	21	155	112	39	59	11	4.6	7.5	.96	10	35
28	19	19	111	115	36	49	10	4.0	4.9	.56	7.8	59
29	17	17	85	105	33	55	9.6	6.9	3.5	.38	9.0	23
30	21	18	76	88	---	92	9.3	8.7	3.5	.96	5.4	118
31	23	---	305	70	---	124	---	5.4	---	3.8	4.3	---
TOTAL	804.8	1398	2125	4252	2213	2802	1120.9	314.3	150.44	71.26	295.40	362.1
MEAN	26.0	46.6	68.5	137	76.3	90.4	37.4	10.1	5.01	2.30	9.53	12.1
MAX	152	300	305	942	177	937	211	26	28	9.5	60	118
MIN	4.4	17	22	32	33	20	9.3	4.0	.72	.38	.38	2.2
CFSM	.68	1.22	1.79	3.59	2.00	2.37	.98	.26	.13	.06	.25	.32
IN.	.78	1.36	2.07	4.14	2.16	2.73	1.09	.31	.15	.07	.29	.35

CAL YR 1975	TOTAL	30631.36	MEAN 83.9	MAX 1180	MIN .42	CFSM 2.20	IN 29.83
WTR YR 1976	TOTAL	15909.20	MEAN 43.5	MAX 942	MIN .38	CFSM 1.14	IN 15.49

03206600 EAST FORK TWELVEPOLE CREEK NEAR DUNLOW, WV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to March 1976 (discontinued).

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	129	94	---	---	112	95	---	---	---	---	81	77
2	113	80	---	---	131	95	---	---	80	73	82	78
3	---	---	---	---	105	98	---	---	77	74	86	82
4	---	---	---	---	130	97	---	---	84	77	91	86
5	---	---	---	---	133	94	---	---	---	---	91	88
6	---	---	---	---	98	94	---	---	---	---	89	85
7	---	---	---	---	129	90	---	---	96	88	87	82
8	113	82	---	---	130	91	---	---	93	82	88	84
9	102	90	---	---	91	88	---	---	86	69	88	81
10	---	---	---	---	127	85	---	---	83	75	85	81
11	---	---	---	---	127	89	---	---	77	73	86	85
12	---	---	---	---	89	86	---	---	78	72	---	---
13	---	---	---	---	91	88	---	---	74	71	---	---
14	---	---	---	---	136	77	---	---	73	65	---	---
15	---	---	---	---	136	104	---	---	---	---	---	---
16	---	---	---	---	101	84	---	---	84	74	---	---
17	---	---	---	---	84	79	---	---	76	69	---	---
18	---	---	---	---	81	70	---	---	72	69	---	---
19	---	---	---	---	70	68	---	---	70	65	---	---
20	---	---	---	---	---	---	---	---	69	66	---	---
21	---	---	106	97	---	---	---	---	70	67	---	---
22	---	---	118	106	---	---	---	---	71	68	---	---
23	---	---	121	117	---	---	---	---	69	67	---	---
24	---	---	125	118	---	---	---	---	72	68	---	---
25	---	---	124	119	---	---	---	---	72	70	---	---
26	---	---	121	116	---	---	---	---	74	71	---	---
27	---	---	118	112	---	---	---	---	76	73	---	---
28	---	---	114	110	---	---	---	---	76	73	---	---
29	---	---	117	110	---	---	---	---	79	75	---	---
30	---	---	118	59	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	96	65	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	9.0	4.5	---	---	---	---	13.0	8.0
2	---	---	---	---	---	---	---	---	1.5	0.0	14.0	9.0
3	---	---	---	---	5.5	4.0	---	---	3.0	0.0	16.5	11.5
4	---	---	---	---	5.5	2.5	---	---	3.5	1.0	18.0	13.0
5	---	---	---	---	6.0	3.0	---	---	7.0	3.0	15.5	14.0
6	---	---	---	---	6.5	4.0	---	---	7.0	3.0	14.5	10.0
7	---	---	---	---	6.5	5.0	---	---	3.0	0.5	12.0	6.5
8	---	---	---	---	5.5	5.0	---	---	3.0	0.5	8.0	6.0
9	---	---	---	---	6.0	5.0	---	---	4.5	2.0	7.5	6.5
10	---	---	---	---	5.0	4.0	---	---	7.0	2.5	11.0	6.5
11	---	---	---	---	4.5	2.5	---	---	9.0	6.5	9.5	8.5
12	---	---	---	---	5.0	2.5	---	---	6.5	3.0	---	---
13	---	---	---	---	7.0	5.0	---	---	9.0	6.0	---	---
14	---	---	---	---	7.0	4.5	---	---	9.0	7.0	---	---
15	---	---	---	---	9.5	7.0	---	---	9.5	5.5	---	---
16	---	---	---	---	9.5	7.0	---	---	12.0	9.5	---	---
17	---	---	---	---	7.0	4.5	---	---	12.0	11.0	---	---
18	---	---	---	---	---	---	---	---	11.0	10.0	---	---
19	---	---	---	---	---	---	---	---	10.0	7.5	---	---
20	---	---	---	---	---	---	---	---	9.0	6.0	---	---
21	---	---	9.0	7.5	---	---	---	---	10.5	6.5	---	---
22	---	---	7.5	6.5	---	---	---	---	11.0	7.0	---	---
23	---	---	6.5	4.5	---	---	---	---	7.5	5.5	---	---
24	---	---	5.0	2.5	---	---	---	---	8.0	3.5	---	---
25	---	---	6.0	3.5	---	---	---	---	9.5	5.5	---	---
26	---	---	4.5	2.5	---	---	---	---	12.0	7.5	---	---
27	---	---	7.0	4.5	---	---	---	---	11.5	7.0	---	---
28	---	---	4.5	2.0	---	---	---	---	11.0	6.5	---	---
29	---	---	5.0	2.0	---	---	---	---	12.5	7.5	---	---
30	---	---	9.0	4.5	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	12.5	0.0	---	---

TWELVEPOLE CREEK BASIN

03206780 EAST LYNN LAKE NEAR EAST LYNN, WV

LOCATION.--Lat 38°08'43", long 82°22'58", Wayne County, Hydrologic Unit 05090102, 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 to current year (monthend contents only).

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

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 (1.728 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. This is a multipurpose reservoir.

COOPERATION.--Records were furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 33,030 acre-ft (40.7 hm³) Jan. 14, 1974, elevation, 674.95 ft (205.725 m); minimum since first filling, 10,050 acre-ft (12.4 hm³) Feb. 25, 1974, elevation, 653.90 ft (199.309 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 20,980 acre-ft (25.9 hm³) Mar. 22, elevation, 665.28 ft (202.777 m); minimum, 11,400 acre ft (14.1 hm³) Feb. 24, elevation, 655.62 ft (199.833 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)	Change in Contents (equivalent in cfs)
Sept. 30.....	662.37	17570	-	-
Oct. 31.....	662.41	17610	+40	+1
Nov. 30.....	656.64	12240	-5370	-90
Dec. 31.....	658.49	13850	+1610	+26
CAL YR 1975	-	-	+1460	+2
Jan. 31.....	656.67	12270	-1580	-26
Feb. 29.....	656.45	12080	-190	-3
Mar. 31.....	660.72	15930	+3850	+63
Apr. 30.....	662.72	17920	+1990	+33
May 31.....	663.54	18780	+860	+14
June 30.....	663.66	18900	+120	+2
July 31.....	663.32	18550	-350	-6
Aug. 31.....	663.13	18350	-200	-3
Sept. 30.....	662.97	18180	-170	-3
WTR YR 1976	-	-	+610	+1

TWELVEPOLE CREEK BASIN

311

03206790 EAST FORK TWELVEPOLE CREEK BELOW EAST LYNN DAM, WV

LOCATION.--Lat 38°08'52", long 82°23'00", Wayne County, Hydrologic Unit 05090102, 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.

REMARKS.--Records good. Flow regulated since March 1972 by East Lynn Lake (station 03206780).

AVERAGE DISCHARGE.--14 years, 166 ft³/s (4.701 m³/s), 16.34 in/yr (415 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,690 ft³/s (47.9 m³/s) Jan. 1, gage height, 19.42 ft (5.919 m); minimum, 3.9 ft³/s (0.11 m³/s) Sept. 24, gage height, 11.18 ft (3.408 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	172	116	1070	278	104	238	18	85	43	9.2	40
2	39	169	117	1500	254	104	230	18	43	34	6.4	41
3	38	139	200	1400	275	62	226	20	44	33	6.2	25
4	37	121	156	1240	273	41	224	19	48	18	6.0	40
5	37	143	87	902	250	41	202	18	42	10	6.0	39
6	37	155	66	624	269	41	142	18	38	10	6.6	36
7	37	156	139	436	317	40	120	18	22	6.2	7.5	40
8	37	156	184	278	242	40	117	18	8.5	4.3	6.6	12
9	28	149	208	319	208	79	84	18	6.0	4.4	6.4	7.7
10	24	144	222	317	208	184	66	18	5.8	4.3	6.2	41
11	24	144	161	319	208	220	66	18	5.8	4.3	6.2	41
12	24	674	133	379	189	218	66	18	5.8	4.4	6.2	37
13	24	1330	133	476	168	218	44	18	5.8	4.8	28	35
14	24	1460	132	770	168	216	31	18	5.6	5.0	61	34
15	24	1310	142	900	168	140	31	18	5.6	5.1	81	34
16	24	638	200	586	242	108	31	18	5.6	6.4	121	21
17	191	214	506	311	346	137	31	19	6.0	6.2	120	16
18	624	212	492	256	540	150	30	24	5.8	5.6	68	10
19	569	210	416	133	487	120	22	31	5.8	5.8	53	8.2
20	333	204	284	90	412	105	18	35	7.1	5.8	26	8.4
21	110	210	214	116	344	533	18	34	35	5.8	16	8.7
22	115	140	143	115	308	1330	18	34	50	6.4	16	9.2
23	123	109	109	115	210	1350	18	34	56	6.9	9.4	9.2
24	118	109	90	137	168	1120	18	33	54	7.7	6.9	6.9
25	115	109	67	182	166	593	18	33	52	7.7	7.1	6.2
26	114	108	361	218	126	374	29	26	52	6.6	12	7.1
27	108	109	672	240	105	339	33	23	50	6.6	26	10
28	106	108	658	355	105	254	33	18	67	6.6	31	27
29	103	61	499	440	105	218	32	48	78	6.8	40	38
30	121	40	352	346	---	374	22	121	78	7.1	40	87
31	128	---	324	322	---	304	---	126	---	8.0	40	---
TOTAL	3476	9003	7583	14892	7139	9157	2258	930	973.2	296.8	881.9	775.6
MEAN	112	300	245	480	246	295	75.3	30.0	32.4	9.57	28.4	25.9
MAX	624	1460	672	1500	540	1350	238	126	85	43	121	87
MIN	24	40	66	90	105	40	18	18	5.6	4.3	6.0	6.2

CAL YR 1975 TOTAL 106555.0 MEAN 292 MAX 2340 MIN 13 MEAN† 294 CFSM† 2.13 IN† 28.91
WTR YR 1976 TOTAL 57365.5 MEAN 157 MAX 1500 MIN 4.3 MEAN† 158 CFSM† 1.14 IN† 15.52

† Adjusted for change in contents in East Lynn Lake.

TWELVEPOLE CREEK BASIN

03207020 TWELVEPOLE CREEK BELOW WAYNE, WV

LOCATION.--Lat 38°14'56", long 82°26'06", Wayne County, Hydrologic Unit 05090102, 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 1917, October 1917 to September 1922 (gage heights only), 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.

REVISED RECORDS.--WSP 1335: 1916-17, 1930.

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.

REMARKS.--Records good. Flow regulated since March 1972 by East Lynn Lake (station 03206780). Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--34 years (water years 1916-17, 1929-31, 1947-54, 1956-76), 338 ft³/s (9.572 m³/s), 15.30 in/yr (389 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,000 ft³/s (113 m³/s) Mar. 21, gage height, 16.76 ft (5.108 m); minimum, 11 ft³/s (0.31 m³/s) July 28, gage height, 3.56 ft (1.085 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	220	287	2150	553	216	1090	54	158	112	80	54
2	69	220	238	2680	485	208	790	59	103	61	32	59
3	63	204	272	2210	490	186	631	67	115	61	24	57
4	58	166	265	2090	470	130	523	68	106	60	18	43
5	56	174	190	1530	457	124	445	60	85	42	15	52
6	52	196	154	1040	898	117	360	53	70	43	20	48
7	50	196	365	835	676	109	287	53	60	44	76	46
8	50	198	337	697	556	102	260	51	39	32	91	49
9	50	196	332	619	445	166	226	48	27	27	48	21
10	37	184	362	526	405	357	184	46	23	24	32	34
11	49	188	315	604	390	382	176	44	21	23	26	61
12	51	967	247	832	362	360	168	42	20	21	20	62
13	41	2040	234	1040	325	357	152	40	19	19	21	54
14	37	2040	222	1740	370	342	112	39	17	17	535	48
15	34	1620	277	1500	490	292	106	41	15	15	222	47
16	34	1070	823	1110	496	230	103	44	14	24	250	45
17	485	392	826	685	913	242	97	51	15	56	204	29
18	1020	347	892	514	1530	257	94	102	14	25	152	24
19	901	320	646	325	1150	238	87	114	17	17	89	19
20	556	303	502	272	853	216	74	100	36	14	76	16
21	267	295	355	290	721	2610	72	86	322	13	39	15
22	184	255	292	265	616	2950	70	77	194	13	33	14
23	202	184	204	240	496	2070	68	69	138	20	30	13
24	184	174	180	275	367	1610	63	63	109	15	21	14
25	170	166	160	337	340	1040	60	59	122	14	16	13
26	164	162	1160	440	305	697	63	56	178	13	14	13
27	156	164	1190	856	252	574	74	44	122	12	24	25
28	150	160	1070	769	236	485	72	42	109	13	44	53
29	146	138	874	859	226	390	67	62	120	14	54	120
30	160	86	649	718	---	589	63	184	174	31	56	108
31	166	---	772	595	---	1020	---	178	---	31	56	---
TOTAL	5718	13025	14692	28643	15873	18666	6637	2096	2562	926	2418	1256
MEAN	184	434	474	924	547	602	221	67.6	85.4	29.9	78.0	41.9
MAX	1020	2040	1190	2680	1530	2950	1090	184	322	112	535	120
MIN	34	86	154	240	226	102	60	39	14	12	14	13

CAL YR 1975 TOTAL 213616 MEAN 585 MAX 4060 MIN 16 MEAN† 587 CFSM† 1.96 IN† 26.61
WTR YR 1976 TOTAL 112512 MEAN 307 MAX 2950 MIN 12 MEAN† 308 CFSM† 1.03 IN† 14.02

† Adjusted for change in contents in East Lynn Lake.

TWELVEPOLE CREEK BASIN

313

03207057 BEECH FORK BELOW BEECH FORK DAM, WV

LOCATION.--Lat 38°18'28", long 82°25'28", Wayne County, Hydrologic Unit 05090102, on left bank 2,500 ft (762 m) downstream from Beech Fork Dam, and 1.7 mi (2.7 km) southeast of Lavalette.

DRAINAGE AREA.--80.4 mi² (208 km²).

PERIOD OF RECORD.--July to September 1976.

GAGE.--Water-stage recorder. Datum of gage is 590.00 ft (179.832 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good. High flows affected by Beech Fork Lake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period July to September, 152 ft³/s (4.30 m³/s) Aug. 14, gage height, 2.66 ft (0.811 m); minimum, 0.49 ft/s (0.014 m³/s) Sept. 17, gage height, 0.33 ft (0.101 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										---	7.4	.58
2										---	8.5	1.0
3										---	3.4	.94
4										---	1.5	.80
5										---	1.1	.94
6										---	.94	1.2
7										---	1.8	.80
8										2.2	5.6	.71
9										2.0	4.0	.87
10										1.6	2.0	1.4
11										1.2	1.3	1.6
12										1.2	.94	2.4
13										.87	1.2	1.5
14										.71	92	1.2
15										.67	76	.94
16										4.8	46	.94
17										22	21	.76
18										14	9.6	1.2
19										4.8	6.6	1.4
20										2.3	4.0	1.3
21										1.4	2.8	1.5
22										1.2	2.2	1.3
23										1.2	1.6	.94
24										.87	1.2	.76
25										.87	.94	.80
26										.67	.76	1.1
27										.67	.80	1.8
28										.67	1.2	7.5
29										.62	.94	8.6
30										.76	.67	11
31										2.4	.58	---
TOTAL										---	308.57	57.78
MEAN										---	9.95	1.93
MAX										---	92	11
MIN										---	.58	.58
CFSM										---	.12	.02
IN.										---	.14	.03

BIG SANDY RIVER BASIN

03212600 TUG FORK AT WELCH, WV

LOCATION.--Lat 37°24'56", long 81°35'25", McDowell County, Hydrologic Unit 05070201, at city water plant, at Welch.

DRAINAGE AREA.--85.8 mi² (222.2 km²).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1972 to March 1976 (discontinued).

REMARKS.--Water temperature records collected at site October 1960 to September 1972 are contained in files of U.S. Geological Survey.

COOPERATION.--Records were furnished by West Virginia Water Service Company.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 23.5°C Aug. 20, 21, 1975; minimum daily, -1.0°C Dec. 23, 1975, Jan. 19, Feb. 2, 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily during period October to March, 15.0°C Oct. 1, Nov. 10; minimum daily, -1.0°C Dec. 23, Jan. 19, Feb. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	7.5	5.5	6.0	4.5	9.0						
2	12.5	7.5	5.5	6.0	-1.0	10.5						
3	11.5	10.5	4.5	5.0	2.0	11.0						
4	11.0	11.5	5.0	2.0	3.5	11.0						
5	11.0	11.0	5.0	-0.5	6.5	11.5						
6	12.5	12.5	4.5	1.0	5.0	11.0						
7	14.0	14.0	5.0	1.0	3.5	7.0						
8	14.5	12.0	5.0	0.5	2.0	7.5						
9	14.5	14.0	5.5	1.0	5.0	9.0						
10	14.0	15.0	4.5	1.0	6.0	9.0						
11	14.5	11.5	2.5	2.0	5.5	8.5						
12	14.0	12.0	1.5	2.5	4.5	9.0						
13	14.0	8.5	4.5	2.5	6.0	9.0						
14	14.5	6.5	4.5	4.0	7.5	7.5						
15	14.5	5.5	6.0	2.0	6.5	6.5						
16	14.5	4.5	6.5	2.5	7.5	7.0						
17	14.0	5.0	4.0	2.0	7.5	5.0						
18	14.5	6.0	1.5	0.0	8.5	5.5						
19	14.5	6.5	-0.5	-1.0	7.0	7.0						
20	10.0	7.0	1.0	-0.5	6.5	9.0						
21	10.0	7.0	2.0	1.0	5.5	11.0						
22	10.5	6.5	1.0	2.5	---	9.5						
23	12.0	5.5	-1.0	4.0	5.5	7.5						
24	12.0	3.5	0.0	4.5	5.0	10.0						
25	11.0	4.5	1.5	5.5	6.0	11.5						
26	12.0	4.0	3.5	6.0	7.5	12.5						
27	13.5	5.0	3.5	5.0	7.5	11.0						
28	14.0	4.5	4.5	3.5	6.0	8.5						
29	12.5	3.5	5.0	2.5	5.5	---						
30	11.0	4.5	6.0	4.0	---	---						
31	9.0	---	6.0	3.5	---	---						
MONTH	13.0	8.0	3.5	2.5	5.5	9.0						

BIG SANDY RIVER BASIN

315

03213000 TUG FORK AT LITWAR, WV

LOCATION.--Lat 37°29'05", long 81°50'40", McDowell County, Hydrologic Unit 05070201, 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.

REVISED RECORDS.--WSP 728: 1931. WSP 1335: 1930, 1931-35(M), 1937, 1943-46, 1947(M), 1948, 1949(P), 1950, 1952-53.

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.

REMARKS.--Records fair except those for periods of doubtful gage-height record, Oct. 9 to Nov. 11 and May 22 to Sept. 30, which are poor. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--46 years, 545 ft³/s (15.43 m³/s), 14.74 in/yr (374 mm/yr).

EXTREMES FOR 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,430 ft³/s (154 m³/s) Jan. 1, gage height, 5.80 ft (1.768 m), no peak above base of 6,000 ft³/s (170 m³/s); minimum daily, 45 ft³/s (1.27 m³/s) Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	223	180	160	3640	700	602	2440	290	230	160	240	85
2	211	160	153	1920	680	560	2030	300	237	140	170	85
3	199	140	146	1310	680	518	1460	310	250	150	120	80
4	168	130	139	1500	660	490	1200	300	250	170	90	75
5	178	110	133	1140	665	466	1000	280	230	230	100	70
6	169	99	126	679	807	472	870	270	220	300	200	65
7	160	110	140	732	1020	460	789	250	200	220	240	55
8	152	120	160	679	942	436	716	240	190	160	180	50
9	160	130	190	581	825	460	651	230	180	150	130	60
10	180	130	220	497	700	1520	588	230	170	130	110	77
11	170	150	270	450	665	1460	546	229	160	120	90	120
12	150	261	330	430	637	1090	525	249	150	100	80	160
13	140	1470	310	442	595	924	490	253	170	90	70	75
14	126	957	260	525	644	798	466	249	180	85	140	70
15	121	676	240	658	748	700	442	245	190	80	170	80
16	250	521	400	644	756	672	425	245	189	85	155	160
17	600	438	550	602	816	772	410	253	170	90	159	150
18	650	379	450	518	1370	732	390	257	160	110	130	120
19	400	330	380	436	2650	708	375	325	180	100	95	100
20	220	258	310	415	1900	686	360	410	230	90	85	85
21	160	281	270	410	1330	716	350	405	370	80	75	75
22	140	264	230	380	1170	816	345	370	400	85	60	65
23	130	250	190	340	1130	807	335	350	290	95	55	60
24	120	232	150	350	980	764	330	330	230	90	50	55
25	110	217	169	400	888	764	321	310	190	90	45	55
26	120	204	230	500	825	852	316	280	250	85	50	70
27	140	195	400	686	764	870	307	250	230	80	70	120
28	130	185	430	1630	700	834	298	230	200	75	120	350
29	150	176	370	1240	651	756	294	220	180	150	170	400
30	170	168	350	960	---	1170	285	230	169	230	140	1000
31	200	---	450	798	---	1490	---	230	---	250	100	---
TOTAL	6217	8966	8306	25692	26898	24365	19354	8620	6445	4070	3689	4072
MEAN	201	295	268	829	928	786	645	278	215	131	119	136
MAX	650	1470	550	3640	2650	1520	2440	410	400	300	240	1000
MIN	110	99	126	340	595	436	285	220	150	75	45	50
CFSM	.40	.60	.53	1.65	1.85	1.57	1.28	.55	.43	.26	.24	.27
IN.	.46	.66	.62	1.90	1.99	1.81	1.43	.64	.48	.30	.27	.30

CAL YR 1975 TOTAL 317446 MEAN 870 MAX 12500 MIN 83 CFSM 1.73 IN 23.52
WTR YR 1976 TOTAL 146694 MEAN 401 MAX 3640 MIN 45 CFSM .80 IN 10.87

BIG SANDY RIVER BASIN

03213500 PANTHER CREEK NEAR PANTHER, WV

LOCATION.--Lat 37°26'45", long 81°52'15", McDowell County, Hydrologic Unit 05070201, on left bank 200 ft (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.

REVISED RECORDS.--WSP 1505: 1955(P). WSP 1908: 1955(M), 1957(M).

GAGE.--Water-stage recorder. Altitude of gage is 1,050 ft (320 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Oct. 28 to Dec. 3, which are poor.

AVERAGE DISCHARGE.--30 years, 36.1 ft³/s (1.022 m³/s), 15.92 in/yr (404 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,600 ft³/s (130 m³/s) Mar. 7, 1967, gage height, 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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 452 ft³/s (12.8 m³/s) Dec. 31, gage height, 5.24 ft (1.597 m), no peak above base of 700 ft³/s (20 m³/s); minimum, 0.29 ft³/s (0.008 m³/s) Oct. 7, gage height, 1.77 ft (0.539 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	5.0	3.2	247	31	17	101	6.5	11	2.2	18	2.9
2	.50	4.0	3.0	82	32	14	84	7.0	8.5	.95	5.3	4.7
3	.73	3.4	2.8	67	31	13	60	6.0	9.6	.87	3.2	4.6
4	.44	2.9	2.7	92	31	12	49	5.3	6.8	5.3	2.6	3.1
5	.34	2.4	2.8	53	32	12	37	4.4	5.1	3.1	2.1	2.7
6	.32	2.0	2.8	31	88	11	30	4.6	4.4	26	2.2	2.1
7	.30	2.1	4.6	24	106	9.2	24	4.7	3.6	29	2.7	1.8
8	1.7	2.3	4.7	25	73	9.2	19	4.7	3.7	9.6	2.4	1.6
9	3.1	2.4	5.5	14	47	62	15	3.8	3.2	8.5	2.1	1.5
10	2.4	2.7	7.8	13	33	169	13	4.1	3.0	5.6	1.9	1.4
11	1.6	4.0	8.5	13	30	99	12	25	2.7	4.2	1.7	5.3
12	1.4	15	8.3	15	21	61	11	28	2.5	3.5	1.6	3.4
13	1.3	70	7.5	23	21	47	11	18	2.1	2.9	1.6	2.6
14	1.3	45	6.3	64	28	32	9.4	14	3.0	2.5	1.8	2.5
15	1.4	30	6.5	61	33	23	8.8	14	2.3	2.3	2.2	10
16	1.4	20	16	48	35	30	8.3	16	2.2	5.8	18	8.2
17	5.3	15	19	39	48	29	7.5	15	2.5	5.8	5.1	5.4
18	10	13	15	33	137	26	6.7	21	2.0	3.2	3.1	4.1
19	5.5	11	9.9	27	229	26	6.4	33	2.0	2.4	2.3	3.7
20	4.4	10	8.5	23	111	26	6.6	30	3.7	2.1	1.9	2.7
21	3.6	9.0	7.0	16	67	34	7.3	22	8.3	2.0	1.7	2.8
22	3.0	7.5	6.0	15	58	41	7.5	16	12	1.9	1.6	2.6
23	2.8	6.5	5.4	14	48	42	6.0	13	5.1	2.0	1.5	2.2
24	2.5	6.0	4.7	15	42	37	5.6	11	3.5	1.8	1.4	2.0
25	2.2	5.2	4.3	17	38	42	5.3	9.2	4.6	3.5	1.3	1.9
26	2.5	4.7	6.0	22	34	48	5.6	7.5	7.3	2.4	1.3	2.0
27	2.6	4.3	14	47	28	51	6.0	6.5	4.6	1.9	17	18
28	2.8	4.0	14	72	23	41	5.3	5.5	3.1	1.8	21	27
29	2.7	3.7	13	59	20	41	5.1	6.8	2.9	1.9	9.6	11
30	4.0	3.4	13	44	---	150	4.7	7.8	2.5	2.8	5.1	87
31	7.0	---	92	32	---	127	---	5.8	---	3.4	3.4	---
TOTAL	79.97	316.5	324.8	1347	1555	1381.4	578.1	376.2	137.8	151.22	146.7	243.4
MEAN	2.58	10.6	10.5	43.5	53.6	44.6	19.3	12.1	4.59	4.88	4.73	8.11
MAX	10	70	92	247	229	169	101	33	12	29	21	87
MIN	.30	2.0	2.7	13	20	9.2	4.7	3.8	2.0	.87	1.3	1.5
CFSM	.08	.34	.34	1.41	1.74	1.45	.63	.39	.15	.16	.15	.26
IN.	.10	.38	.39	1.63	1.88	1.67	.70	.45	.17	.18	.18	.29
CAL YR 1975 TOTAL	17260.54			MEAN 47.3	MAX 910	MIN .30	CFSM 1.54	IN 20.85				
WTR YR 1976 TOTAL	6638.09			MEAN 18.1	MAX 247	MIN .30	CFSM .59	IN 8.02				

BIG SANDY RIVER BASIN

317

03213700 TUG FORK AT WILLIAMSON, WV

LOCATION.--Lat 37°40'21", long 82°16'50", Pike County, Ky., Hydrologic Unit 05070201, on left bank at Williamson, 100 ft (30 m) upstream from bridge on U.S. Highway 119, 0.8 mi (1.3 km) downstream from Pond Creek, and at mile 56.4 (90.7 km).

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.

REMARKS.--Records fair. Corps of Engineers gage-height telemeter at station.

AVERAGE DISCHARGE.--9 years, 1,177 ft³/s (33.33 m³/s), 17.15 in/yr (436 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,200 ft³/s (827 m³/s) Jan. 12, 1974, gage height, 37.37 ft (11.390 m), from rating curve extended above 18,000 ft³/s (510 m³/s); minimum, 59 ft³/s (1.67 m³/s) Oct. 18-20, 1969, gage height, 2.04 ft (0.622 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--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 readings by National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,720 ft³/s (247 m³/s) Jan. 1, gage height, 17.02 ft (5.188 m), no peak above base of 9,000 ft³/s (250 m³/s); minimum daily, 67 ft³/s (1.90 m³/s) Aug. 24-27.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	265	337	293	7330	1380	925	3580	420	325	205	450	120
2	260	285	293	4680	1300	880	3680	453	375	198	350	120
3	255	253	280	3220	1300	800	2740	471	369	185	250	120
4	235	235	278	3570	1300	792	2130	420	378	240	176	109
5	217	229	268	2850	1230	776	1750	384	323	273	134	100
6	211	215	255	1950	1410	760	1470	358	280	270	138	100
7	201	221	310	1540	1900	711	1280	358	248	634	376	95
8	201	235	400	1420	1830	669	1130	358	243	456	305	90
9	258	245	439	1100	1570	812	1020	353	235	343	190	87
10	290	255	476	900	1310	3540	905	333	215	278	154	122
11	268	248	508	850	1190	3510	845	340	210	268	128	178
12	227	2110	512	1050	1130	3040	816	519	188	213	109	263
13	211	3960	492	1090	1050	2370	772	459	213	188	99	162
14	201	2120	436	2330	1190	1640	722	384	218	158	99	106
15	199	1330	430	2240	1300	1170	704	358	223	148	140	98
16	229	985	825	1710	1450	1120	680	405	228	156	140	144
17	1090	805	1160	1440	2420	1310	652	501	218	215	215	355
18	1380	688	910	1120	4690	1250	620	508	215	240	188	255
19	712	608	676	755	5320	1200	603	669	250	205	120	195
20	488	552	584	800	4270	1160	575	780	426	180	93	150
21	382	528	532	815	2830	1980	557	648	536	150	84	130
22	313	504	450	660	2280	2500	554	540	568	160	76	111
23	280	427	620	2050	1880	533	474	491	210	73	108	108
24	255	379	340	660	1730	1580	508	423	345	180	67	99
25	223	346	360	820	1550	1440	491	387	283	160	67	87
26	238	331	560	985	1420	1520	480	358	330	136	67	98
27	248	322	785	1390	1280	1500	468	338	369	126	67	171
28	245	313	785	2750	1160	1440	444	323	285	113	98	529
29	240	290	676	2540	1000	1340	423	315	240	109	288	592
30	337	280	640	1930	---	2000	411	335	215	230	253	1810
31	301	---	1010	1570	---	2890	---	325	---	450	150	---
TOTAL	10520	19636	16333	56685	53840	48505	31543	13297	9042	7077	5144	6704
MEAN	339	655	527	1829	1857	1565	1051	429	301	228	166	223
MAX	1380	3960	1160	7330	5320	3540	3680	780	568	634	450	1810
MIN	199	215	255	620	1000	669	411	315	188	109	67	87
CFSM	.36	.70	.57	1.96	1.99	1.68	1.13	.46	.32	.24	.18	.24
IN.	.42	.78	.65	2.26	2.15	1.94	1.26	.53	.36	.28	.21	.27
CAL YR 1975 TOTAL	572670			1569	MAX 17200	MIN 152	CFSM 1.68	IN 22.86				
WTR YR 1976 TOTAL	278326			760	MAX 7330	MIN 67	CFSM .82	IN 11.11				

BIG SANDY RIVER BASIN

03214000 TUG FORK NEAR KERMIT, WV

LOCATION.--Lat 37°49'05", long 82°23'20", Mingo County, Hydrologic Unit 05070201, 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.

REVISED RECORDS.--WSP 953: 1934-41. WSP 1505: 1955.

GAGE.--Water-stage recorder. Datum of gage is 581.82 ft (177.339 m) above mean sea level.

REMARKS.--Records good. National Weather Service gage-height telemeter at station.

AVERAGE DISCHARGE.--42 years, 1,388 ft³/s (39.31 m³/s), 15.91 in/yr (404 mm/yr).

EXTREMES FOR 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).

EXTREMES OUTSIDE PERIOD OF RECORD.--Stage of about 43.3 ft (13.20 m) was reached on unknown date prior to 1915.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,200 ft³/s (317 m³/s) Jan. 1, gage height 20.30 ft (6.187 m), no other peak above base of 10,000 ft³/s (280 m³/s); minimum, 89 ft³/s (2.52 m³/s) Aug. 25, 26, Sept. 9, gage height, 1.37 ft (0.418 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	521	454	9640	1840	1290	4640	459	349	224	518	161
2	345	448	449	7520	1700	1180	4780	503	380	214	464	154
3	320	398	430	4530	1700	1080	3510	542	413	215	304	156
4	300	360	413	5020	1680	1020	2740	492	402	311	226	154
5	280	327	394	3830	1590	988	2300	429	359	290	176	141
6	260	323	388	2690	1750	958	1910	401	316	302	181	122
7	250	326	519	2110	2250	936	1660	411	279	402	443	105
8	230	356	657	1900	2340	858	1460	393	265	581	461	98
9	380	346	772	1500	2080	947	1280	385	249	394	264	95
10	440	372	818	1200	1750	2640	1160	365	239	308	203	233
11	370	374	832	1100	1570	3450	1070	361	233	293	175	187
12	300	4290	831	1400	1470	2600	1030	471	219	253	151	248
13	280	7570	774	1720	1390	2140	967	546	214	205	133	211
14	260	3450	702	3300	1710	1790	898	429	271	178	130	148
15	230	2100	682	3390	2010	1520	855	403	234	160	238	125
16	292	1530	1890	2600	2040	1440	818	422	253	169	267	145
17	1750	1230	2150	2120	3090	1620	781	546	223	234	230	294
18	2490	1050	1650	1660	7370	1600	733	615	220	246	251	292
19	1360	916	1240	1260	6690	1520	689	711	298	212	181	226
20	861	828	1010	1190	5700	1490	655	876	490	166	136	178
21	650	775	900	1190	3700	3530	648	754	598	151	116	151
22	528	703	750	1000	2930	4290	644	609	644	157	109	132
23	442	624	600	800	2550	2960	621	520	627	247	102	118
24	392	537	550	800	2250	2330	575	459	418	204	97	112
25	347	489	580	1110	2010	2060	554	409	337	222	92	102
26	355	435	1230	1340	1830	2020	547	395	311	177	92	121
27	381	448	1520	1790	1670	1970	534	375	414	164	92	289
28	369	428	1460	2590	1530	1870	501	359	334	154	122	659
29	355	400	1250	3200	1390	1710	467	351	268	135	234	711
30	457	384	1140	2580	---	2280	448	368	247	303	306	2800
31	521	---	1580	2100	---	3400	---	366	---	496	219	---
TOTAL	16150	32338	28615	78580	71580	59487	39475	14725	10104	7767	6713	8668
MEAN	521	1078	923	2535	2468	1919	1316	475	337	251	217	289
MAX	2490	7570	2150	9640	7370	4290	4780	876	644	581	518	2800
MIN	230	323	388	800	1390	858	448	351	214	135	92	95
CFSM	.44	.91	.78	2.14	2.08	1.62	1.11	.40	.28	.21	.18	.24
IN.	.51	1.02	.90	2.47	2.25	1.87	1.24	.46	.32	.24	.21	.27

CAL YR 1975 TOTAL 806770 MEAN 2210 MAX 28200 MIN 210 CFSM 1.86 IN 25.33
WTR YR 1976 TOTAL 374202 MEAN 1022 MAX 9640 MIN 92 CFSM .86 IN 11.75

BIG SANDY RIVER BASIN

319

03214500 TUG FORK AT KERMIT, WV

LOCATION.--Lat 37°50'17", long 82°24'35", Mingo County, Hydrologic Unit 05070201, 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, and at mile 34.7 (55.8 km).

DRAINAGE AREA.--1,274 mi² (3,300 km²) at water plant; 1,185 mi² (3,069 km²) at gaging station.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1946 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum daily, 32.0°C July 29, 1949; minimum daily, 0.0°C on several days in 1947, 1951, Jan. 18, 1972.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum daily, 26.0°C July 29; minimum daily, 1.0°C Jan. 10, 11, 14, 18, 19.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	11.5	9.5	7.0	2.5	10.0	10.5	14.5	20.0	23.5	24.5	19.5
2	17.0	11.5	8.5	6.5	2.0	11.5	11.0	14.5	19.5	23.5	23.5	19.0
3	15.0	11.5	7.5	5.5	1.5	12.5	11.5	14.0	19.5	24.0	22.0	19.0
4	14.5	12.0	7.5	4.0	1.5	12.5	11.0	14.5	20.0	22.5	21.5	19.0
5	15.0	12.5	7.0	2.5	2.0	13.5	11.0	15.0	20.0	22.5	21.5	19.5
6	15.5	13.5	7.0	2.0	2.0	11.5	11.5	16.0	20.5	22.5	21.0	20.0
7	15.5	13.5	6.0	2.0	1.5	9.0	12.0	16.0	20.5	23.5	20.0	20.0
8	15.5	13.5	6.0	1.5	1.5	7.5	12.5	16.5	21.0	23.5	20.0	19.0
9	15.5	14.0	6.0	1.5	1.5	9.0	12.5	17.0	21.5	23.5	19.5	19.0
10	16.0	14.0	6.0	1.0	2.0	8.5	13.5	17.5	22.0	24.0	19.0	18.5
11	17.0	13.5	6.0	1.0	2.5	7.0	14.0	18.5	23.5	24.0	19.0	17.5
12	17.5	13.5	5.5	1.5	3.5	7.0	14.0	18.5	24.0	24.5	18.5	18.5
13	17.0	12.5	5.5	1.5	5.0	7.0	14.5	19.0	24.5	24.5	19.5	18.5
14	16.5	12.5	5.5	1.0	6.0	7.0	14.5	19.5	24.5	24.0	21.0	17.5
15	16.5	12.5	6.0	1.5	6.5	7.5	15.5	20.0	24.5	24.5	21.5	17.5
16	16.5	12.0	6.0	2.0	7.5	9.0	16.0	19.5	25.0	24.0	22.0	17.5
17	17.0	12.0	5.5	1.5	9.0	6.5	17.0	19.0	25.0	24.0	21.0	17.0
18	15.5	12.0	5.5	1.0	9.0	7.0	17.5	18.5	25.0	24.5	21.0	17.0
19	14.5	11.5	5.0	1.0	7.5	7.5	17.5	17.5	24.5	24.5	21.0	17.5
20	14.0	11.5	4.5	1.5	8.5	8.5	18.5	17.5	24.0	25.0	21.5	18.5
21	12.5	11.5	4.0	1.5	7.5	8.5	19.0	18.5	23.5	25.0	21.5	17.5
22	12.5	11.5	2.5	1.5	7.0	7.5	19.0	19.0	24.0	25.0	21.5	18.5
23	12.5	10.0	1.5	1.5	6.0	6.5	19.5	19.0	23.5	25.5	21.5	19.0
24	12.5	9.0	1.5	2.0	6.5	7.0	19.5	19.0	23.5	25.5	22.5	19.0
25	12.5	8.5	2.0	2.0	6.5	8.5	19.0	19.5	23.5	24.5	23.5	19.0
26	13.5	6.5	2.0	2.5	7.0	9.0	17.5	19.0	23.5	25.0	23.5	19.5
27	14.0	6.5	2.5	2.5	7.0	9.0	16.0	18.5	23.5	25.0	21.0	19.5
28	14.5	6.5	5.5	2.5	7.5	8.5	15.0	19.0	23.5	25.5	21.5	19.5
29	13.5	6.5	6.5	2.0	8.5	9.0	14.0	19.5	24.0	26.0	21.0	19.0
30	12.5	7.0	7.0	2.0	---	9.5	14.0	19.5	23.5	25.5	20.0	18.5
31	11.5	---	7.0	2.5	---	10.0	---	20.0	---	25.0	19.5	---
MONTH	15.0	11.0	5.5	2.0	5.0	9.0	15.0	18.0	23.0	24.5	21.0	18.5
YEAR	MAX	26.0	MIN	1.0	MEAN	14.0						

BIG SANDY RIVER BASIN

03214900 TUG FORK AT GLENHAYES, WV

LOCATION.--Lat 38°00'20", long 82°30'53", Wayne County, Hydrologic Unit 05070201, on right bank 400 ft (122 m) upstream from Lost Creek, 0.2 mi (0.3 km) downstream from Rock Castle Creek, 0.9 mi (1.4 km) southeast of Glenhayes, and at mile 10.1 (16.3 km).

DRAINAGE AREA.--1,500 mi² (3,885 km²).

PERIOD OF RECORD.--March to September 1976.

GAGE.--Water-stage recorder. Datum of gage is 536.57 ft (163.547 m) above mean sea level.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period March to September, 6,560 ft³/s (186 m³/s) Mar. 21, gage height, 16.90 ft (5.151 m), no peak above base of 11,000 ft³/s (310 m³/s); minimum, 125 ft³/s (3.54 m³/s) Sept. 9, gage height, 2.30 ft (0.701 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	4420	518	426	294	766	238
2						---	4820	564	414	262	744	202
3						---	4190	613	514	270	506	220
4						---	3480	627	478	454	362	202
5						---	3000	530	446	406	274	185
6						---	2600	478	382	358	299	174
7						---	2250	446	342	390	1100	157
8						---	1990	458	310	608	802	136
9						---	1750	446	294	609	564	132
10						---	1580	434	278	466	390	195
11						---	1430	414	266	362	310	358
12						---	1340	422	258	342	254	230
13						---	1240	573	246	286	223	278
14						---	1140	542	238	238	213	238
15						---	1060	466	278	209	286	188
16						1800	1020	470	250	195	458	174
17						1870	975	522	258	234	374	192
18						1930	920	699	234	310	318	350
19						1850	865	835	246	278	302	278
20						1800	820	885	466	238	234	258
21						4770	789	940	1220	199	195	216
22						5720	784	780	945	185	174	192
23						4230	766	649	798	230	160	171
24						3340	721	568	775	294	150	153
25						2900	676	514	534	310	143	136
26						2700	658	462	490	278	146	136
27						2570	640	446	450	209	250	308
28						2430	591	422	482	185	192	1120
29						2260	550	418	382	174	202	990
30						2680	522	450	326	171	298	2110
31						3400	---	442	---	561	322	---
TOTAL				---	---	---	47587	17033	13026	9605	11011	9917
MEAN				---	---	---	1586	549	434	310	355	331
MAX				---	---	---	4820	940	1220	609	1100	2110
MIN				---	---	---	522	414	234	171	143	132
CFSM				---	---	---	1.06	.37	.29	.21	.24	.22
IN.				---	---	---	1.18	.42	.32	.24	.27	.25

BIG SANDY RIVER BASIN

321

03215000 BIG SANDY RIVER AT LOUISA, KY

LOCATION.--Lat 38°10'16", long 82°38'05", Lawrence County, Hydrologic Unit 05070204, on left bank 1.7 mi (2.7 km) upstream from Blaine Creek, 4.3 mi (6.9 km) northwest of Louisa, and at mile 21.3 (34.2 km).

DRAINAGE AREA.--3,892 mi² (10,080 km²).

PERIOD OF RECORD.--October 1938 to September 1976 (discontinued). Monthly discharge only for October, November 1938, October 1947 to September 1948, published in WSP 1305.

REVISED RECORDS.--WSP 1505: 1939.

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 5.65 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, 1.7 mi (2.7 km) downstream from present base gage.

REMARKS.--Records fair. Flow regulated since October 1968 by Fishtrap Lake (station 03207995), since July 1966 by North Fork Pound River Lake (station 03208680), since March 1965 by John W. Flannagan Lake (station 03208990), and since May 1950 by Dewey Lake (station 03210000).

COOPERATION.--Gage-height records were furnished by Corps of Engineers.

AVERAGE DISCHARGE.--38 years, 4,425 ft³/s (125.3 m³/s), 15.44 in/yr (392 mm/yr), unadjusted.

EXTREMES FOR 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 3, 1908, reached a stage of 48.4 ft (14.75 m), former site and datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,200 ft³/s (742 m³/s) Jan. 2; maximum gage height, 24.93 ft (7.599 m) Jan. 2; minimum daily discharge, 394 ft³/s (11.2 m³/s) July 30.

DISCHARGE IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1160	1880	1520	12700	6300	4400	19100	1110	984	744	2000	634
2	1170	1770	1720	24900	5840	4190	16200	1150	1030	672	2220	558
3	1130	1600	1610	21400	5520	3840	11900	1220	1230	595	1680	534
4	1310	1290	1660	19100	5370	3660	8660	1270	1460	796	1050	558
5	1250	1180	1470	17200	5040	3630	6970	1180	1470	940	733	528
6	967	1090	1360	11600	5060	3860	6110	1090	1460	1010	613	482
7	889	1030	1540	7790	5420	3610	5430	1090	1120	1130	1760	443
8	803	1000	1930	6710	5990	3260	4800	1080	815	1080	2050	425
9	824	1140	2210	5920	5950	3160	4280	1010	745	1400	1180	415
10	907	1280	2560	5130	5420	3860	3640	1040	689	1540	887	595
11	1040	1500	2600	4700	4910	9080	3230	898	610	1520	701	740
12	1010	3680	2530	5010	4680	10000	2950	1010	548	1760	593	725
13	928	20500	2540	5810	4390	7000	2760	1140	546	2260	586	678
14	840	20200	2350	8060	4670	5780	2560	1380	482	700	573	580
15	804	12700	2210	11300	5840	5300	2430	1170	503	490	625	500
16	855	7180	3720	10100	8000	4500	2280	1170	508	485	991	470
17	1820	5070	5700	8020	7750	4420	2200	1140	523	612	1090	515
18	7860	4280	5330	6270	17000	4420	2110	1440	519	716	1010	617
19	8000	3830	4250	5180	21500	4270	1970	1930	596	705	878	696
20	5410	3450	3800	4420	21000	4260	1830	1930	736	546	638	620
21	4140	2950	3240	4190	16800	13500	1730	2190	1660	480	566	540
22	3320	2820	2830	3800	11300	22600	1660	1920	2860	450	515	490
23	2470	2670	2570	3270	8560	14800	1630	1450	2770	414	473	480
24	1810	2240	2210	3370	7300	8790	1560	1390	2680	740	421	510
25	1430	1760	1900	3730	6200	6880	1440	1100	1570	941	396	478
26	1270	1740	4310	4300	5300	6390	1360	967	1240	1130	458	521
27	1180	1770	6370	5920	5200	5970	1310	885	1080	749	624	696
28	1150	1690	6430	7880	4800	5620	1280	861	1360	542	635	2110
29	1120	1500	5640	10400	4600	5490	1170	790	1350	413	645	2440
30	1220	1280	4870	9560	---	8660	1130	797	874	394	795	2690
31	1480	---	4640	7460	---	17000	---	911	---	801	799	---
TOTAL	59567	116070	97620	265200	225710	212200	125680	37689	34018	26755	28185	22268
MEAN	1922	3869	3149	8555	7783	6845	4189	1216	1134	863	909	742
MAX	8000	20500	6430	24500	21500	22600	19100	2190	2860	2260	2220	2690
MIN	803	1000	1360	3270	4390	3160	1130	790	482	394	396	415

CAL YR 1975 TOTAL 2614154 MEAN 7162 MAX 57700 MIN 672 MEAN† 7152 CFSM† 1.84 IN† 24.95
WTR YR 1976 TOTAL 1250962 MEAN 3418 MAX 24900 MIN 394 MEAN† 3419 CFSM† .88 IN† 11.96

† Adjusted for change in contents in Fishtrap, North Fork Pound River, John W. Flannagan and Dewey Lakes.

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 stream-flow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream when continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1976

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
Potomac River basin						
01607000	Big Spring at Masonville, WV	Lat 38°55'15", long 79°05'10", Grant County, Hydrologic Unit 02070001, on right bank of Spring Run, at State fish hatchery, at Masonville, and 6.0 mi southeast of Petersburg.		1945-58†, 1968-69†, 1976	9-21-76	7.4
Monongahela River basin						
03070200	Salt Lick Creek at Rowlesburg, WV	Lat 39°21'00", long 79°39'50", Preston County, Hydrologic Unit 05020004, at timber railroad and highway bridge at Rowles- burg, and 0.2 mi upstream from mouth.	34.6	1942-69, 1973, 1975-76	10-24-75 6-14-76	33 10
Little Kanawha River basin						
03155200	South Fork Hughes River at Mac- farlan, WV	Lat 39°04'40", long 81°11'25", Ritchie County, Hydrologic Unit 05030203, at highway bridge 0.4 mi east of Macfarlan, and 1.5 mi upstream from Macfarlan Creek.	210	1915-22†, 1938-51†, 1953-55, 1957-58, 1964,1966, 1969,1976	4-19-76	49
03155400	North Fork Hughes River at Harrisville, WV	Lat 39°13'30", long 81°02'00", Ritchie County, Hydrologic Unit 05030203, at Harrisville, and 0.2 mi upstream from Cunningham Run.	72.9	1948-49, 1951, 1953-56, 1958, 1961-62, 1964, 1966-69, 1972, 1976	4-19-76	15
Kanawha River basin						
03180700	Deer Creek below Green Bank, WV	Lat 38°25'00", long 79°51'42", Pocahontas County, Hydrologic Unit 05050003, at steel bridge on road toward Cass, and 1.7 mi south of Green Bank.	60.0	1960-61, 1964, 1974, 1976	9-8-76	0.69
03182000	Knapp Creek at Marlinton, WV	Lat 38°12'40", long 80°04'30", Pocahontas County, Hydrologic Unit 05050003, on right bank 0.2 mi downstream from Spice Run, and 1.0 mi southeast of Marlinton.	108	1945-58†, 1959, 1962, 1972, 1974, 1976	9-8-76	7.0
03187500	Cranberry River near Richwood, WV	Lat 38°17'45", long 80°31'40", Nicholas County, Hydrologic Unit 05050005, Monongahela National Forrest, at U.S. Forrest Service highway bridge, 0.6 mi upstream from Barrenshe Run, 5.0 mi north of Richwood, and at mile 5.4.	81.2	1944-51†, 1964-71†, 1976	9-7-76	8.2
03189000	Cherry River at Fenwick, WV	Lat 38°13'45", long 80°35'00", Nicholas County, Hydrologic Unit 05050005, at highway bridge at Fenwick, 1,000 ft downstream from Laurel Creek, and at mile 6.4.	150	1929-69†, 1972, 1975-76	9-9-76	12

† Operated as a continuous-record gaging station.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1976

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Potomac River basin							
01605700	Reeds Creek Tributary near Franklin, WV	Lat 38°41'47", long 79°23'55", Pendleton County, Hydrologic Unit 02070001, at culvert on U.S. Highway 33, 0.7 mi up- stream from mouth, and 5.0 mi northwest of Franklin.	0.45	1965-76	10-18-75	4.44	45
01606000	North Fork South Branch Potomac River at Cabins, WV	Lat 38°59'05", long 79°14'10", Grant County, Hydrologic Unit 02070001, on left bank 380 ft upstream from highway bridge at Cabins, 1.8 mi downstream from Jordan Run, 6.0 mi west of Petersburg, and at mile 3.0.	314	1940- 61†, 1962- 76a	10-18-75	12.08	14,900
01606800	Brushy Run near Petersburg, WV	Lat 38°48'20", long 79°12'50", Pendleton County, Hydrologic Unit 02070001, at culvert on State Route 4, 14.0 mi south- west of Petersburg, and at mile 3.2.	1.43	1965-76	10-18-75	5.91	110
01608100	Williams Hollow near Moorefield, WV	Lat 39°05'20", long 78°53'55", Hardy County, Hydrologic Unit 02070001, at culvert on State Route 55, 4.0 mi northeast of Moorefield, and at mile 3.8.	0.24	1965-76	12-31-75	5.46	65
01611150	Tearcoat Creek Tributary near Augusta, WV	Lat 39°12'40", long 78°41'07", Hampshire County, Hydrologic Unit 02070003, at culvert at intersection of State Routes 7 and 7/9, 0.1 mi upstream from mouth, and 6.0 mi south- west of Augusta.	2.65	1965-76	1-1-76	4.66	175
Monongahela River basin							
03050650	Leading Creek Tributary at Gilman, WV	Lat 38°58'35", long 79°50'16", Randolph County, Hydrologic Unit 05020001, at culvert on U.S. Highway 219, 0.3 mi northeast of Gilman, 0.4 mi upstream from mouth, and 3.7 mi north of Elkins.	0.38	1964-76	7-24-76	4.32	19
03052340	Mud Lick Run near Buckhannan, WV	Lat 39°00'17", long 80°15'23", Upshur County, Hydrologic Unit 05020001, on left up- stream wingwall of culvert on U.S. Highway 33 and 119, 0.2 mi upstream from mouth, and 1.5 mi west of Buck- hannon.	2.33	1966-76	7-24-76	(†)	(†)
03055020	Bonica Run on U.S. Highway 250 near Philippi, WV	Lat 39°07'29", long 79°59'50", Barbour County, Hydrologic Unit 05020001, at culvert on U.S. Highway 250, 2.0 mi south- east (corrected) of Philippi, and at mile 2.5.	0.60	1965-76	10-17-75	3.92	41

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 1976--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Monongahela River basin--Continued							
03055040	Bonica Run on State Route 38 near Philippi, WV	Lat 39°09'11", long 79°58'44", Barbour County, Hydrologic Unit 05020001, at culvert on State Route 38, 0.5 mi upstream from mouth, and 3.2 mi east of Philippi.	3.15	1964-76	10-17-75	3.58	162
03056600	Right Fork Wickwire Run on U.S.High-way 119 near Grafton, WV	Lat 39°22'44", long 79°57'48", Taylor County, Hydrologic Unit 05020001, at culvert at intersection of U.S. Highway 119 and Wickwire Road, 0.7 mi upstream from confluence with Wickwire Run, and 4.0 mi north-east of Grafton.	2.33	1965-76	12-31-75	6.87	168
03057500	Skin Creek near Browns-ville, WV	Lat 38°58'30", long 80°26'40", Lewis County, Hydrologic Unit 05020002, 2.6 mi southeast of Brownsville, 4.7 mi southeast of Weston, and at mile 3.0.	25.7	1946-60†, 1961-76a	1-1-76	5.89	1,080
03063950	Job Run near Wymer, WV	Lat 38°52'55", long 79°35'45", Randolph County, Hydrologic Unit 05020004, at culvert on U.S. Highway 33, 0.1 mi up-stream from mouth, and 1.2 mi southeast of Wymer.	1.08	1965-76	1976	<3.77	(†)
03069650	Right Fork Clover Run near Parsons, WV	Lat 39°09'10", long 79°45'46", Tucker County, Hydrologic Unit 05020004, on left bank 12 ft upstream from culvert entrance, at intersection of State Route 38 and Secondary Route 15/5, and 6.0 mi north-west of Parsons.	2.21	1967-76	12-31-75	4.02	(†)
03069850	Long Run near Parsons, WV	Lat 39°15'32", long 79°43'18", Tucker County, Hydrologic Unit 05020004, on left bank 8 ft upstream from entrance to culvert on State Route 72, 0.1 mi southeast of Tucker County line, and 11.0 mi north of Parsons.	0.95	1967-76	10-17-75	7.39	66
Middle Island Creek basin							
03114550	Buffalo Run near Friendly, WV	Lat 39°30'23", long 81°01'41", Tyler County, Hydrologic Unit 05030201, on right bank 10 ft upstream from culvert on State Secondary Route 6, and 1.8 mi southeast of Friendly.	0.88	1967-76	b8-15-75 7-24-76	8.13 (†)	302 (†)
03114600	Little Buffalo Run near Friendly, WV	Lat 39°30'10", long 81°00'59", Tyler County, Hydrologic Unit 05030201, on left bank 12 ft upstream from culvert on State Secondary Route 6, and 2.5 mi southeast of Friendly.	1.22	1967-76	b8-15-75 7-24-76	b7.00 7.90	b288 353
Little Kanawha River basin							
03155450	Big Island Run near Elizabeth, WV	Lat 39°05'00", long 81°15'40", Ritchie-Wirt County line, Hydrologic Unit 05030203, at culvert on State Route 53, and 7.5 mi east of Elizabeth.	3.52	1965-76	7-12-76	7.03	807
Mill Creek basin							
03159700	Grasslick Run near Ripley, WV	Lat 38°45'53", long 81°40'40", Jackson County, Hydrologic Unit 05030202, at culvert on U.S. Highway 21, 1.0 mi upstream from Burnt Run, and 3.8 mi south-east of Ripley.	0.70	1965-76	7-12-76	7.28	228

See footnotes at end of table.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1976--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Kanawha River basin							
03180350	West Fork Greenbrier River Tributary at Durbin, WV	Lat 38°33'30", long 79°49'52", Pocahontas County, Hydrologic Unit 05050003, at culvert on U.S. Highway 250, 0.2 mi upstream from mouth, and 0.9 mi northeast of Durbin.	1.13	1966-68, 1970-76	b10-16-74 12-31-75	b4.74 4.21	b64 42
03180530	Brush Run near Bartow, WV	Lat 38°30'30", long 79°47'03", Pocahontas County, Hydrologic Unit 05050003, on left bank 12 ft upstream from culvert on State Route 28, 2.3 mi south of Bartow, and at mile 4.2.	1.28	1966-76	1976	<3.50	(†)
03180680	Cooper Run near Green Bank, WV	Lat 38°24'32", long 79°48'43", Pocahontas County, Hydrologic Unit 05050003, at culvert on Secondary Route 6, 0.4 mi upstream from mouth, and 1.3 mi southeast of Green Bank.	1.52	1965-76	12-31-75	4.36	69
03181900	Moody Moore Hollow near Huntersville, WV	Lat 38°13'55", long 79°58'44", Pocahontas County, Hydrologic Unit 05050003, at culvert on Secondary Route 11, 0.1 mi upstream from mouth, and 3.5 mi northeast of Huntersville.	0.55	1966-76	12-31-75	3.92	12
03183550	Griffith Creek near Alderson, WV	Lat 37°44'15", long 80°42'36", Summers County, Hydrologic Unit 05050003, at culvert on State Secondary Route 7/14 at Griffith School, 4.0 mi northwest of Alderson, and at mile 2.0.	3.84	1966-76	12-31-75	9.40	271
03183570	Buggar Lick at Pence Springs, WV	Lat 37°41'03", long 80°43'00", Summers County, Hydrologic Unit 05050003, at culvert on State Route 3 at Pence Springs, and 0.3 mi upstream from mouth.	2.71	1966-76	3-31-75	5.72	152
03185020	Little Beaver Creek Tributary near Shady Spring, WV	Lat 37°43'30", long 81°06'02", Raleigh County, Hydrologic Unit 05050004, at culvert on U.S. Highways 19 and 21 and State Highway 3, 0.3 mi upstream from mouth, and 1.3 mi north of Shady Spring.	0.62	1966-76	b9-23-75 12-31-75	b6.66 5.99	b60 39
03190500	Meadow Creek near Summersville, WV	Lat 38°13'31", long 80°55'37", Nicholas County, Hydrologic Unit 05050005, at culvert on Secondary Route 23, 0.7 mi south of Keslers Cross Lanes, 6.0 mi southeast of Summersville, and at mile 2.4.	4.22	1966-76	12-31-75	8.24	512
03191400	Laurel Creek near Summersville, WV	Lat 38°15'28", long 80°59'24", Nicholas County, Hydrologic Unit 05050005, at culvert on Secondary Route 22, at intersection of Secondary Routes 11 and 22, at Tipton, 7.8 mi southwest of Summersville, and at mile 1.4.	4.28	1966-76	12-31-75	5.44	171
03193725	Little Fork at Mossy, WV	Lat 37°58'52", long 81°16'25", Fayette County, Hydrologic Unit 05050006, at culvert on State Route 15, 100 ft upstream from mouth, and 0.6 mi northeast of Mossy.	0.42	1966-76	1-1-76	4.86	21

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 1976--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Kanawha River basin--Continued							
03197150	Ashleycamp Run near Left Hand, WV	Lat 38°37'34", long 81°14'02", Roane County, Hydrologic Unit 05050007, at culvert on State Route 36, 1.2 mi east of Left Hand, and at mile 1.0.	2.01	1966-76	12-31-75	6.77	225
03197900	Elk Twomile Creek Tributary near Charleston, WV	Lat 38°21'13", long 81°31'22", Kanawha County, Hydrologic Unit 05050007, at culvert on Elk Twomile Road, 0.1 mi upstream from mouth, and 5.0 mi northeast of Charleston.	0.49	1965-76	1976	(†)	(†)
03198780	Hunters Branch near Madison, WV	Lat 38°00'20", long 81°48'55", Boone County, Hydrologic Unit 05050009, at culvert on U.S. Highway 119, 0.1 mi upstream from mouth, and 4.0 mi south of Madison.	1.97	1966-76	1-1-76	4.21	64
03198800	Low Gap Creek near Madison, WV	Lat 38°01'41", long 81°50'03", Boone County, Hydrologic Unit 05050009, at culvert at entrance to Low Gap Memory Garden, 0.2 mi upstream from mouth, and 2.7 mi southwest of Madison.	1.28	1963, 1965-76	3-21-76	11.25	52
03200600	Little Scary Creek near Nitro, WV	Lat 38°27'04", long 81°51'14", Putnam County, Hydrologic Unit 05050008, at culvert on Interstate Highway 64, 0.2 mi west of St. Albans interchange, 2.5 mi northwest of Nitro, and at mile 1.0.	0.87	1966-68, 1971-76	10-17-75	11.08	67
03201420	Long Branch near Teays, WV	Lat 38°28'43", long 81°55'49", Putnam County, Hydrologic Unit 05050008, on State Route 34, 1.5 mi north of Winfield interchange on Interstate 64, and 2.0 mi north of Teays.	2.05	1965-76	3-21-76	6.29	132
03201440	Sixteenmile Creek near Pliny, WV	Lat 38°28'39", long 82°02'53", Mason County (corrected), Hydrologic Unit 05050008, at culvert on Pliny to Apple Grove Road, 2.0 mi from Mason-Putnam County line, and 3.7 mi northwest of Pliny.	1.04	1965-76	7-12-76	6.80	235
03201480	Threemile Creek Tributary near Point Pleasant, WV	Lat 38°50'15", long 82°05'42", Mason County, Hydrologic Unit 05050008, at culvert on State Route 2, at intersection of U.S. Highway 35 and State Route 2, 0.2 mi upstream from mouth, and 2.5 mi southeast of Point Pleasant.	0.70	1965-76	12-31-75	4.81	31
Guyandotte River basin							
03203000	Guyandotte River at Man, WV	Lat 37°44'30", long 81°52'45", Logan County, Hydrologic Unit 05070101, on right bank at downstream side of highway bridge at Man, 500 ft upstream from Buffalo Creek, and 0.7 mi downstream from Huff Creek.	762	1928-62†, 1963-76a	2-18-76	10.07	7,830

† Not determined.

‡ Operated as a continuous-record gaging station.

a Recorder chart on file in district office.

b The maximum discharge for the water year 1975 has been revised superseding figures published in the report for 1975.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Monongahela River basin						
Buckhannon River	Tygart Valley River	Lat 38°49'10", long 80°12'47", Upshur County, Hydrologic Unit 05020001, at Alton, 1,000 ft upstream from Big Run, and 11.0 mi south of Buckhannon.	4.65		10-16-75	55
Elk Creek	West Fork River	Lat 39°08'30", long 80°06'49", Barbour County, Hydrologic Unit 05020002, on State Route 57 at Elk City, 1,500 ft downstream from Spaw Lick, and 4.2 mi east of Philippi.	12.3		10-14-75	3.2
Elk Creek	West Fork River	Lat 39°16'56", long 80°21'07", Harrison County, Hydrologic Unit 05020002, at mouth at Clarksburg.	121		10-14-75	59
Salem Fork	West Fork River	Lat 39°18'16", long 80°29'14", Harrison County, Hydrologic Unit 05020002, 0.3 mi upstream from mouth, and 7.5 mi west of Clarksburg.	16.3		10-14-75	10
Tenmile Creek	West Fork River	Lat 39°18'06", long 80°29'07", Harrison County, Hydrologic Unit 05020002, 200 ft downstream from Salem Fork, and 7.5 mi west of Clarksburg.	39.6		10-14-75	25
Tenmile Creek	West Fork River	Lat 39°22'30", long 80°22'30", Harrison County, Hydrologic Unit 05020002, at Lumberport, and 100 ft upstream from mouth.	125	1965	10-14-75	62
Paw Paw Creek	Monongahela River	Lat 39°32'15", long 80°08'20", Marion County, Hydrologic Unit 05020003, at railroad bridge 1.3 mi northwest of Rivesville, and 1.5 mi upstream from mouth.	41.1	1963-64, 1966-67	10-14-75	29
Indian Creek	Monongahela River	Lat 39°33'46", long 80°03'43", Monon- galia County, Hydrologic Unit 05020003, at Everettville, and 0.4 mi upstream from mouth.	21.2		10-14-75	24
Deckers Creek	Monongahela River	Lat 39°37'45", long 79°57'10", Monon- galia County, Hydrologic Unit 05020003, at Morgantown, and 0.6 mi upstream from mouth.	63.2	1947-69†	10-15-75	50
Dents Run	Monongahela River	Lat 39°38'24", long 79°59'23", Monon- galia County, Hydrologic Unit 05020003, 0.4 mi southwest of Granville, and 0.5 mi upstream from mouth.	14.1		10-14-75	5.2
Monongahela River	Ohio River	Lat 39°28'30", long 79°59'35", Monon- galia County, Hydrologic Unit 05020003, at bridge on U.S. Highway 19 at Star City.	2,667		10-15-75	2,550
Scotts Run	Monongahela River	Lat 39°39'40", long 80°00'10", Monon- galia County, Hydrologic Unit 05020003, at bridge on State Highway Alternate 7 in Osage, 0.6 mi up- stream from mouth, and 1.0 mi south- east of Pursglove.	14.4	1963-64	10-14-75	7.5
Robinson Run	Monongahela River	Lat 39°41'04", long 79°58'45", Monon- galia County, Hydrologic Unit 05020003, 0.5 mi south of Maids- ville, and 0.5 mi upstream from mouth.	12.8		10-14-75	6.2

† Operated as a continuous-record gaging station.

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
POTOMAC RIVER BASIN							
01595200 STONY RIVER NEAR MT. STORM, WV (LAT 39 16 10 LONG 79 15 45)							
OCT 21	1340	153	16.0	16.0	140	7.0	--
NOV 20	1205	29	8.0	14.0	180	6.0	10.0
DEC 30	1245	62	5.5	7.5	160	7.0	10.0
FEB 11	1540	344	3.0	3.5	140	6.0	10.0
MAR 24	1230	125	10.5	20.0	160	6.4	11.0
MAY 05	1230	23	12.5	23.0	180	6.8	9.4
JUN 15	1400	32	22.5	28.0	140	7.0	8.2
JUL 27	1300	15	19.0	24.0	--	<4.0	--
SEP 8	1535	8.3	18.0	22.0	220	<5.0	--
01595300 ABRAM CREEK AT OAKMONT, WV (LAT 39 22 00 LONG 79 10 45)							
OCT 21	1135	124	10.5	15.0	210	<5.0	--
NOV 20	1110	38	4.5	12.0	340	5.2	10.6
DEC 30	1130	34	0.0	2.0	300	<5.0	--
FEB 11	1230	617	2.0	7.0	120	7.0	11.0
MAR 24	1140	78	7.5	8.5	220	<5.0	10.4
MAY 05	1140	23	11.0	15.0	375	3.0	9.0
JUN 15	1255	15	22.0	28.0	400	<4.0	7.6
JUL 27	1105	9.2	23.0	23.0	--	<4.0	--
SEP 08	1240	2.2	17.5	24.5	700	<4.0	--
01604500 PATTERSON CREEK NEAR HEADSVILLE, WV (LAT 39 26 35 LONG 78 49 20)							
OCT 29	1300	158	14.0	21.0	190	8.0	9.0
NOV 18	1620	139	9.5	21.5	170	7.2	12.0
DEC 18	1330	76	2.0	-1.0	175	7.0	--
JAN 21	1525	91	0.0	4.5	255	7.5	11.3
FEB 25	1545	159	9.0	23.0	225	7.3	11.3
MAR 23	1445	158	10.0	24.5	170	8.0	12.0
APR 21	1420	61	23.0	--	265	7.9	8.9
JUN 23	1620	58	27.0	32.0	260	6.5	8.2
JUL 26	1110	12	23.0	28.0	285	--	7.1
AUG 31	1335	11	20.0	22.5	--	7.9	6.8
01605600 FRIENDS RUN NEAR FRANKLIN, WV (LAT 38 39 23 LONG 79 23 31)							
OCT 23	1300	8.4	13.5	26.0	60	7.0	9.0
NOV 24	1310	1.1	5.5	12.0	80	7.5	12.0
MAR 15	1310	7.4	7.0	13.5	70	8.5	13.0
APR 27	1200	0.65	5.5	12.5	100	7.3	11.8
JUN 07	1030	1.9	14.0	--	--	--	11.8
JUL 19	1050	0.22	19.0	23.5	155	--	9.8
AUG 30	1155	0.02	18.0	24.5	--	8.0	9.7
01606500 SOUTH BRANCH POTOMAC RIVER NEAR PETERSBURG, WV (LAT 38 59 34 LONG 79 10 26)							
OCT 24	0950	816	12.5	14.0	185	7.5	*9.5
NOV 24	1520	446	5.5	17.0	160	8.5	13.0
DEC 23	0925	227	0.0	-1.0	215	7.5	--
MAR 16	1055	1290	6.5	11.0	120	8.0	12.0
APR 27	1650	253	11.0	13.0	180	7.8	11.3
JUN 07	1740	358	21.0	30.0	--	--	12.2
JUL 19	1800	213	24.0	31.5	235	--	10.7
AUG 31	0855	81	17.5	18.0	--	8.1	7.5
01607500 SOUTH FORK SOUTH BRANCH POTOMAC RIVER AT BRANDYWINE, WV (LAT 38 37 53 LONG 79 14 38)							
OCT 23	1100	90	14.5	19.0	135	7.0	9.0
NOV 20	1610	48	10.5	18.5	135	7.5	11.5
DEC 23	1150	15	0.5	2.0	210	7.0	--
MAR 15	1505	188	8.0	14.5	85	8.0	12.0
APR 27	1410	26	11.0	15.5	150	7.9	11.0
JUN 07	1115	50	18.5	25.0	--	--	12.2
JUL 19	1250	12	23.0	29.0	210	--	9.4
AUG 30	1400	4.6	21.5	23.0	--	8.2	10.1
01608000 SOUTH FORK SOUTH BRANCH POTOMAC RIVER NEAR MOOREFIELD, WV (LAT 39 00 44 LONG 78 57 23)							
OCT 22	1545	320	15.0	30.0	140	7.5	10.0
NOV 20	1415	129	11.0	19.0	140	7.0	11.0
DEC 22	1515	47	3.0	1.0	205	7.0	--
FEB 05	1520	254	4.0	7.5	140	7.0	12.0
MAR 16	1340	404	7.0	11.5	110	8.0	11.0
APR 28	0830	88	9.0	9.5	160	7.7	11.0
JUN 07	1410	112	20.0	30.0	--	--	11.5
JUL 19	1455	36	25.0	30.0	235	--	10.2
AUG 30	1600	16	23.5	25.0	--	8.2	9.8
01608050 FORT RUN NEAR MOOREFIELD, WV (LAT 39 03 56 LONG 78 54 49)							
OCT 22	1330	4.5	14.0	28.0	70	7.3	*9.5
NOV 20	1220	2.2	8.5	21.5	75	7.0	12.0
DEC 22	1245	0.85	0.5	2.0	85	7.0	--
FEB 05	1325	3.7	3.0	7.0	80	7.0	11.6
MAR 17	1005	5.0	0.5	-2.0	95	7.5	12.0
APR 28	1000	0.75	8.5	12.5	78	7.6	11.5
JUN 07	1525	0.33	18.5	30.0	--	--	11.5

* Actual value is within 0.5 milligrams per liter of value shown.

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
POTOMAC RIVER BASIN--Continued							
01608400 BUFFALO CREEK NEAR ROMNEY, WV (LAT 39 22 18 LONG 78 43 51)							
OCT 21	1520	6.8	14.0	30.0	90	7.0	9.0
NOV 19	1540	1.7	10.5	24.5	90	7.0	11.0
DEC 18	1515	0.89	2.0	-3.5	105	6.5	--
FEB 04	1050	4.8	1.5	12.0	97	6.5	13.5
FEB 26	1605	2.0	9.0	21.0	--	7.0	10.6
MAR 18	0940	2.6	2.5	3.5	95	7.0	11.0
APR 29	1510	0.47	15.0	24.0	95	7.0	9.1
JUN 08	0950	0.04	15.0	21.0	--	--	8.6
01608500 SOUTH BRANCH POTOMAC RIVER NEAR SPRINGFIELD, WV (LAT 39 26 49 LONG 78 39 16)							
OCT 29	1550	893	14.5	18.0	210	8.0	10.0
DEC 17	1535	449	5.5	9.0	245	8.0	--
FEB 03	1625	1570	1.0	5.5	175	7.0	14.2
MAR 23	1655	1570	9.5	23.5	200	8.0	12.0
APR 29	1345	444	14.0	21.0	200	8.1	11.1
JUL 20	0955	313	24.0	26.0	285	--	7.6
AUG 31	1410	118	23.0	33.0	--	8.6	8.2
01609800 LITTLE CACAPON RIVER NEAR LEVELS, WV (LAT 39 29 55 LONG 78 29 20)							
OCT 29	1020	35	13.0	20.5	90	7.0	10.0
NOV 19	1050	62	7.0	12.0	90	7.3	13.0
FEB 03	1305	127	0.0	4.0	105	6.5	13.2
MAR 17	1535	112	1.5	0.0	100	7.0	11.0
APR 29	1130	35	11.5	16.0	95	8.7	10.4
JUL 20	1230	0.83	25.0	29.0	170	--	7.2
AUG 31	1630	0.84	23.5	26.5	--	7.3	6.8
01610200 LOST RIVER AT MCCAULEY NEAR BAKER, WV (LAT 39 03 18 LONG 78 43 31)							
OCT 01	0930	126	14.0	20.0	--	7.0	9.0
OCT 30	1030	71	11.0	12.0	130	7.3	9.4
NOV 25	1030	54	3.0	6.0	120	7.5	11.8
DEC 19	1020	12	0.0	-3.0	165	7.0	13.2
JAN 23	0945	34	0.0	-3.0	150	7.0	14.2
FEB 27	0950	100	7.0	16.0	--	7.0	11.5
MAR 25	1005	71	9.5	18.5	120	8.5	9.0
APR 23	0935	47	18.5	21.0	115	7.1	8.7
MAY 20	1000	32	11.0	22.5	130	7.7	9.6
JUN 24	0925	15	23.0	23.0	170	7.7	7.0
JUL 27	0950	4.2	23.5	24.0	220	--	7.1
AUG 25	1030	3.4	23.5	28.0	--	7.9	7.4
SEP 22	1000	10	15.0	16.0	--	7.8	8.2
01611500 CACAPON RIVER NEAR GREAT CACAPON, WV (LAT 39 34 43 LONG 78 18 34)							
OCT 21	1240	1610	13.5	25.0	90	7.5	10.0
NOV 18	1325	558	8.5	19.5	110	7.5	13.0
DEC 17	1120	297	3.5	5.0	155	7.0	--
JAN 21	1250	399	0.5	6.0	150	7.3	11.0
FEB 25	1200	569	6.0	22.5	135	7.0	10.7
MAR 23	1015	473	10.5	21.5	95	8.0	11.0
APR 21	1050	256	22.0	--	140	7.9	8.5
JUN 23	0915	162	25.0	24.5	160	7.4	7.2
JUL 20	1420	77	27.0	36.0	230	--	8.2
AUG 24	1150	72	25.0	29.0	--	7.8	8.1
SEP 21	1040	166	18.0	21.5	--	7.9	9.0
01616500 OPEQUON CREEK NEAR MARTINSBURG, WV (LAT 39 25 25 LONG 77 56 20)							
OCT 28	1315	340	13.0	24.0	455	8.0	10.0
NOV 17	1630	263	9.0	21.5	410	7.4	12.0
DEC 16	1500	197	8.0	9.5	545	8.0	--
JAN 20	1445	251	2.5	7.0	590	8.0	12.2
FEB 25	0900	235	5.0	8.0	580	8.0	11.8
MAR 22	1450	199	4.0	12.5	620	8.0	10.2
APR 20	1510	153	23.0	34.0	400	8.2	9.7
MAY 17	1345	180	20.0	26.0	415	7.9	8.2
JUN 22	1255	172	21.5	30.0	400	7.6	8.5
JUL 21	1025	96	21.5	26.5	455	--	8.6
AUG 23	1530	82	22.5	31.0	--	7.7	9.4
SEP 20	1345	105	17.5	28.5	--	8.1	10.0
01617000 TUSCARORA CREEK ABOVE MARTINSBURG, WV (LAT 39 28 10 LONG 77 58 18)							
OCT 20	1550	27	13.0	18.0	355	7.0	9.4
NOV 18	1010	18	9.5	10.0	430	7.5	11.0
DEC 16	1655	12	8.0	6.5	560	8.0	--
JAN 21	0930	16	6.0	2.0	570	8.0	12.0
FEB 24	1530	13	9.0	15.5	570	8.0	11.3
MAR 22	1640	12	10.5	17.5	400	8.0	11.0
APR 21	0800	12	15.0	--	485	7.8	9.6
MAY 17	1510	8.8	18.5	28.0	400	7.8	9.3
JUN 22	1440	8.0	21.0	30.5	350	7.3	10.2
JUL 21	0850	4.4	--	26.0	520	--	9.0
AUG 23	1400	3.7	20.5	30.0	--	7.7	9.4
SEP 20	1220	3.5	17.0	31.0	--	8.0	10.4
01636500 SHENANDOAH RIVER AT MILLVILLE, WV (LAT 39 16 55 LONG 77 47 22)							
AUG 23	1825	515	27.0	31.0	--	7.8	9.6
SEP 01	1330	327	--	--	--	7.7	9.3

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
MONONGAHELA RIVER BASIN							
03050500 TYGART VALLEY RIVER NEAR ELKINS, WV (LAT 38 55 30 LONG 79 52 45)							
DEC 12	1220	902	5.0	7.0	70	7.0	--
JAN 28	1540	1900	1.0	-3.0	72	7.0	11.2
MAR 10	1430	171	8.0	7.5	82	7.0	6.2
APR 21	0955	94	21.0	26.0	90	7.0	6.4
JUN 03	1115	70	--	18.0	87	7.0	6.4
JUL 14	1145	172	23.0	21.0	85	7.0	6.4
AUG 25	1115	4.6	24.0	29.0	160	7.0	3.8
03051000 TYGART VALLEY RIVER AT BELINGTON, WV (LAT 39 01 45 LONG 79 56 10)							
NOV 10	1245	92	15.0	15.0	150	8.0	--
JAN 26	1400	1880	8.0	16.0	80	7.0	11.6
MAR 08	1455	206	8.0	11.5	140	6.6	11.6
APR 19	1315	174	22.0	30.0	145	6.8	6.6
JUN 01	1545	120	23.0	24.5	140	7.0	8.2
JUL 12	1405	458	20.5	25.5	150	7.0	7.4
AUG 23	1345	24	25.0	28.0	260	7.0	9.0
03052000 MIDDLE FORK RIVER AT AUDRA, WV (LAT 39 02 25 LONG 80 04 10)							
OCT 01	1250	24	17.5	18.0	65	7.0	--
NOV 11	1205	47	10.5	9.0	60	7.0	--
DEC 16	1405	751	7.0	7.0	42	6.7	--
JAN 27	1530	1200	3.0	-2.0	42	5.2	10.6
MAR 09	1500	114	7.0	5.0	50	5.2	12.2
APR 20	1340	88	4.0	28.0	54	5.0	7.2
JUN 02	1355	49	20.0	20.0	47	6.5	7.8
JUL 13	1410	113	21.5	20.0	50	5.7	11.2
AUG 24	1325	5.6	26.0	28.0	80	6.7	6.4
03052500 SAND RUN NEAR BUCKHANNON, WV (LAT 38 57 50 LONG 80 09 10)							
FEB 05	1335	33	1.0	10.0	820	7.4	9.6
MAR 10	1325	13	6.0	11.5	--	7.0	11.6
APR 21	0945	5.0	17.5	30.0	--	7.4	9.2
JUN 03	0955	3.5	17.0	32.0	300	8.0	7.6
JUL 13	1915	12	19.0	21.0	450	7.9	8.1
AUG 17	1510	1.1	21.0	25.5	--	7.0	8.6
03053500 BUCKHANNON RIVER AT HALL, WV (LAT 39 03 05 LONG 80 06 50)							
OCT 01	1040	62	16.0	17.0	175	7.0	--
NOV 11	1045	77	11.0	8.0	110	7.0	--
DEC 16	1120	974	7.0	6.0	70	7.0	--
JAN 27	1140	1790	4.5	9.0	65	6.8	15.2
MAR 09	1235	161	8.0	7.0	90	7.2	9.2
APR 20	1130	140	21.0	23.0	85	7.0	6.8
JUN 02	1200	93	21.5	24.0	90	7.0	7.4
JUL 13	1205	698	21.0	23.0	110	6.3	6.0
AUG 24	1130	15	25.0	28.0	190	7.0	6.2
03054500 TYGART VALLEY RIVER AT PHILIPPI, WV (LAT 39 09 00 LONG 80 02 25)							
NOV 10	1100	237	16.0	20.5	120	7.0	--
DEC 15	1210	1290	7.0	16.0	78	7.0	--
JAN 26	1130	4050	7.0	15.0	90	7.0	12.2
MAR 08	1250	544	8.5	10.0	110	6.9	10.4
APR 19	1010	462	19.0	27.0	110	7.0	8.2
JUN 01	1355	285	21.5	28.0	110	7.0	7.4
JUL 12	1120	893	20.5	24.0	160	7.0	7.0
AUG 23	1150	62	25.5	31.0	200	7.0	7.6
03057000 TYGART VALLEY RIVER AT COLFAX, WV (LAT 39 26 15 LONG 80 07 55)							
OCT 31	1300	690	12.0	12.5	240	7.0	*11.5
JAN 15	1145	4760	1.0	0.0	120	7.1	10.6
APR 07	1050	5400	12.0	--	--	6.8	10.9
JUN 10	1410	176	24.0	31.0	--	8.2	9.5
AUG 12	1325	671	22.0	23.0	--	7.1	7.0
03058000 WEST FORK RIVER AT BROWNSVILLE, WV (LAT 39 00 10 LONG 80 28 35)							
NOV 17	1435	71	11.0	18.0	--	--	--
MAR 11	1130	475	7.0	11.0	--	6.8	10.7
APR 21	1220	21	16.5	30.0	--	8.3	7.6
JUN 03	1135	23	17.0	33.0	410	8.0	6.4
JUL 19	1045	36	19.5	23.0	520	7.7	8.3
AUG 17	1300	9.3	23.0	28.0	--	7.0	6.1
03058500 WEST FORK RIVER AT BUTCHERVILLE, WV (LAT 39 05 25 LONG 80 28 05)							
MAR 10	1540	154	8.0	13.5	--	7.0	9.8
APR 20	1520	48	17.5	34.5	--	8.0	7.2
JUN 03	1235	151	18.0	33.5	390	8.1	10.1
JUL 14	1245	59	19.5	24.5	820	8.3	7.9
AUG 17	1025	20	21.0	22.0	--	6.7	4.2

* Actual value is within 0.5 milligrams per liter of value shown.

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
MONONGAHELA RIVER BASIN--Continued							
03059000 WEST FORK RIVER AT CLARKSBURG, WV (LAT 39 16 15 LONG 80 21 20)							
DEC 04	1105	156	4.5	8.5	460	8.0	12.6
JAN 13	1235	1270	0.5	--	300	8.2	8.6
FEB 24	1300	480	7.0	9.0	340	8.4	11.4
APR 06	1115	682	11.0	--	--	7.8	10.4
MAY 17	1345	435	17.0	16.0	480	7.6	7.6
JUN 28	1145	89	25.0	25.0	520	8.0	7.2
AUG 16	1100	80	22.0	20.0	385	8.0	7.8
AUG 26	1200	32	25.0	28.0	415	8.0	6.0
SEP 29	1310	266	17.0	14.0	275	8.0	--
03061000 WEST FORK RIVER AT ENTERPRISE, WV (LAT 39 25 20 LONG 80 16 40)							
OCT 31	1015	222	9.5	8.5	730	7.0	10.0
DEC 04	1400	309	5.5	18.0	850	7.6	11.4
JAN 13	1540	2120	4.0	0.0	450	6.2	11.6
FEB 26	1130	920	8.0	11.0	650	7.8	9.6
APR 06	1430	1270	11.0	--	--	7.2	9.8
MAY 19	1145	2900	15.0	12.0	560	7.5	6.4
JUN 28	1330	243	25.0	33.0	900	7.7	7.8
AUG 12	1220	130	24.0	27.0	850	7.6	9.2
AUG 26	1340	77	26.0	26.0	1100	7.8	6.2
SEP 29	1510	463	18.0	17.0	620	7.4	--
03061500 BUFFALO CREEK AT BARRACKVILLE, WV (LAT 39 30 15 LONG 80 10 20)							
DEC 03	1200	68	4.0	1.0	700	8.2	14.4
JAN 15	1050	588	2.0	-1.0	200	7.9	10.4
FEB 26	1250	122	7.0	10.0	385	8.3	11.6
APR 09	1415	121	11.0	--	--	8.4	12.6
MAY 21	1255	68	16.0	19.0	500	7.9	8.2
JUN 30	1005	37	--	24.5	960	7.4	7.4
AUG 11	1335	34	21.0	24.0	510	8.1	9.2
AUG 26	1550	9.3	24.0	25.0	1400	8.1	4.6
SEP 24	0950	6.7	14.0	14.0	1800	8.0	--
03062400 COBUN CREEK AT MORGANTOWN, WV (LAT 39 36 30 LONG 79 57 20)							
OCT 02	1155	22	14.0	12.0	--	7.0	--
DEC 02	1155	6.0	4.0	4.0	230	8.0	12.0
JAN 15	1500	36	3.0	1.0	140	7.2	12.2
FEB 27	0855	14	5.0	8.0	170	8.1	10.4
APR 07	1415	21	13.0	--	--	7.4	10.1
APR 08	0900	16	7.0	14.0	160	7.1	11.6
MAY 19	1445	40	11.0	9.0	150	7.0	7.6
JUN 10	1125	1.3	20.0	25.0	240	7.2	7.4
JUL 01	1000	2.6	18.0	17.0	200	7.0	7.6
AUG 11	1520	2.3	21.0	26.0	200	8.0	8.0
SEP 23	1610	0.23	15.0	18.0	225	7.5	--
03063600 HORSECAMP RUN AT HARMAN, WV (LAT 38 54 51 LONG 79 30 32)							
OCT 02	1045	3.6	11.0	8.0	220	8.0	--
NOV 13	1015	18	7.5	2.0	170	8.0	--
DEC 18	1120	7.3	7.0	-11.0	175	8.0	--
JAN 21	1110	3.0	2.0	-5.0	180	8.0	17.0
MAR 03	1000	3.5	10.5	18.5	--	8.0	8.8
APR 07	1020	8.2	8.5	12.0	170	8.0	10.0
MAY 12	1045	1.3	10.0	10.0	200	8.0	9.0
JUN 09	1555	0.68	14.0	24.0	220	8.0	8.0
JUL 07	1035	0.59	15.5	19.0	260	8.0	8.0
AUG 04	1115	0.44	15.0	23.0	220	8.0	7.8
SEP 01	1145	0.07	14.5	23.0	220	8.0	7.4
SEP 28	1105	1.4	14.0	14.5	225	8.0	--
03065000 DRY FORK AT HENDRICKS, WV (LAT 39 04 20 LONG 79 37 20)							
OCT 22	1100	766	--	17.0	60	7.0	--
DEC 29	1525	819	3.0	5.5	64	7.0	13.0
FEB 09	1600	891	1.5	7.0	60	7.0	12.4
MAR 23	1700	1400	8.0	13.0	57	7.0	13.4
MAY 05	1735	298	15.0	23.0	60	7.0	10.2
JUN 16	1430	185	--	22.0	75	7.0	7.0
JUL 28	1500	312	22.0	28.0	--	7.0	--
SEP 09	1430	13	22.0	27.0	90	8.0	--
03066000 BLACKWATER RIVER AT DAVIS, WV (LAT 39 07 35 LONG 79 28 10)							
OCT 21	1635	240	11.5	17.0	70	<6.0	--
NOV 20	1140	105	5.0	12.0	--	--	--
DEC 30	1615	214	5.5	6.0	82	6.0	5.0
FEB 12	1335	719	1.5	8.0	45	6.8	11.8
MAR 25	1310	193	--	--	70	6.0	10.8
MAY 05	1530	60	15.0	23.0	90	6.7	9.0
JUN 15	1635	29	25.0	28.0	90	7.0	7.0
JUL 29	1115	38	23.5	24.5	--	6.5	--
SEP 08	1730	6.4	22.5	23.0	170	7.0	--

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
MONONGAHELA RIVER BASIN--Continued							
03068000 SHAVERS FORK AT BEMIS, WV (LAT 38 48 27 LONG 79 44 16)							
OCT 02	1355	167	11.0	8.0	31	7.0	--
NOV 13	1300	860	8.0	2.0	38	5.7	--
DEC 18	1350	302	0.0	-8.0	34	6.7	--
MAR 03	1215	226	11.0	19.0	--	7.0	6.0
APR 21	1405	77	19.0	23.0	32	7.0	8.4
MAY 12	1440	90	5.0	10.0	41	7.0	6.4
JUN 09	1555	74	22.0	24.5	36	7.0	8.0
JUL 07	1405	68	22.5	23.5	26	7.0	7.4
AUG 04	1335	102	19.0	23.0	30	7.0	8.4
SEP 01	1405	19	19.0	27.0	36	7.0	6.8
SEP 28	1500	662	13.0	14.0	39	--	--
03068600 SHAVERS FORK ABOVE BOWDEN, WV (LAT 38 54 10 LONG 79 41 41)							
JAN 29	1325	586	2.0	-2.0	32	7.0	10.6
MAR 04	1600	208	14.0	26.0	--	6.7	9.2
APR 22	1525	99	19.0	23.0	33	7.0	8.8
AUG 06	1300	73	19.5	19.5	30	7.0	7.4
AUG 20	1220	30	20.0	27.0	36	7.0	6.4
03068610 TAYLOR RUN AT BOWDEN, WV (LAT 38 54 27 LONG 79 41 49)							
OCT 01	1545	3.0	--	17.0	75	7.0	--
NOV 12	1440	60	11.0	12.0	67	7.0	--
DEC 17	1540	22	5.5	4.5	55	7.0	--
JAN 21	1315	7.0	0.5	-5.0	62	7.0	12.6
MAR 03	1405	6.6	11.0	18.5	--	7.0	7.6
APR 08	1055	14	7.0	6.0	56	7.0	10.2
MAY 12	1630	4.6	5.0	13.5	80	7.0	9.2
JUN 10	1300	1.1	16.0	22.5	98	7.0	9.0
JUL 08	1345	1.2	16.0	19.0	100	7.0	7.4
AUG 05	1450	2.7	6.0	23.0	100	7.0	8.2
SEP 02	1445	2.2	16.0	19.0	110	7.0	8.6
SEP 27	1445	7.5	14.5	17.5	90	7.0	--
03068710 SOUTH SPRING AT BOWDEN, WV (LAT 38 54 38 LONG 79 42 22)							
OCT 14	1215	1.6	14.5	19.0	140	7.0	--
03068800 SHAVERS FORK BELOW BOWDEN, WV (LAT 38 54 47 LONG 79 46 14)							
DEC 17	1430	567	4.5	7.0	53	7.0	--
MAR 05	1100	210	14.0	25.0	--	6.8	7.8
APR 08	1525	342	11.0	12.0	39	7.0	9.0
MAY 13	1425	110	18.0	23.0	43	7.5	9.8
JUN 10	1010	73	19.0	23.0	48	7.0	8.0
JUL 08	1055	73	19.0	20.0	46	7.0	8.4
AUG 05	1150	101	19.5	23.0	42	7.0	8.2
AUG 25	1615	23	27.0	30.0	70	9.0	9.0
SEP 29	1415	310	15.5	20.0	40	7.0	--
03068900 SHAVERS FORK NEAR ELKINS, WV (LAT 38 57 58 LONG 79 46 02)							
JAN 29	1525	721	2.0	1.0	40	6.8	12.0
MAR 11	1000	260	6.0	7.0	51	7.0	10.0
APR 08	1330	424	12.0	15.0	40	7.0	10.0
APR 22	1250	127	19.5	20.5	52	7.0	9.4
JUN 10	1115	105	21.0	25.0	46	7.0	6.6
AUG 06	1030	99	20.5	23.5	44	7.0	7.8
AUG 12	1420	88	25.0	27.0	46	7.0	7.0
AUG 20	1510	32	25.0	28.0	56	7.0	7.0
03069000 SHAVERS FORK AT PARSONS, WV (LAT 39 05 45 LONG 79 40 40)							
OCT 22	1340	375	14.0	18.0	46	7.0	--
NOV 20	1550	435	7.0	7.5	48	7.0	--
FEB 10	1720	445	4.0	12.0	50	7.0	6.6
MAR 24	1550	629	11.0	22.0	48	7.0	8.0
MAY 07	1405	203	15.5	15.0	50	7.0	6.4
JUN 16	1630	77	25.0	25.0	56	7.0	8.2
JUL 26	1605	591	22.0	26.0	--	6.6	--
SEP 09	1655	20	27.5	28.0	65	7.0	--
03069500 CHEAT RIVER NEAR PARSONS, WV (LAT 39 07 20 LONG 79 40 50)							
OCT 22	1655	1310	--	22.0	52	7.0	--
DEC 29	1210	1600	7.0	7.0	52	7.0	13.0
FEB 09	1320	1810	0.5	1.5	70	7.0	13.6
MAR 29	1425	3070	8.5	13.0	54	7.0	11.0
MAY 07	1300	527	15.0	14.0	60	7.0	8.8
JUN 16	1150	270	23.0	25.0	82	7.0	6.8
JUL 28	1215	721	20.0	25.0	--	7.0	--
SEP 09	1240	62	22.5	27.0	120	7.0	--
03069880 BUFFALO CREEK NEAR ROWLESBURG, WV (LAT 39 17 19 LONG 79 42 16)							
OCT 24	1140	12	13.0	15.0	46	7.0	--
NOV 18	1045	28	5.5	10.0	<50	7.6	7.8
DEC 30	1055	31	4.0	5.0	60	8.1	7.8
FEB 10	1600	19	4.0	7.0	50	7.0	7.0
MAR 23	1050	46	6.0	15.0	--	6.5	12.0
MAY 06	1440	14	16.0	24.0	42	7.0	8.4
JUN 14	1650	2.6	23.5	28.0	75	7.0	6.4
JUL 26	1255	12	22.0	24.5	--	7.0	6.8
SEP 07	1355	0.23	17.0	20.0	80	7.0	7.8

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
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DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
MONONGAHELA RIVER BASIN--Continued							
03070000 CHEAT RIVER AT ROWLESBURG, WV (LAT 30 20 50 LONG 79 40 00)							
DEC 30	1230	2260	3.0	5.0	70	7.9	10.4
FEB 10	1300	2210	2.0	7.0	75	7.0	10.4
MAR 23	1440	4670	8.0	16.0	65	8.0	11.4
MAY 06	1205	990	6.5	23.0	80	6.8	7.8
JUN 14	1435	287	28.0	33.0	75	7.0	8.1
SEP 07	1125	104	20.5	23.0	90	7.0	8.0
03070200 SALT LICK CREEK AT ROWLESBURG, WV (LAT 39 21 00 LONG 79 39 50)							
OCT 24	1530	33	16.0	20.0	80	7.0	--
JUN 14	1515	10	--	28.5	92	8.0	6.6
03070500 BIG SANDY CREEK AT ROCKVILLE, WV (LAT 39 37 15 LONG 79 42 20)							
OCT 02	1020	270	11.0	12.0	--	6.1	--
OCT 29	1240	155	12.0	15.0	100	8.4	10.0
DEC 02	1015	153	2.0	1.5	105	8.0	12.2
JAN 20	1100	353	0.0	1.5	120	6.4	9.8
FEB 25	1520	490	6.0	14.0	100	8.1	10.6
APR 08	1100	506	8.0	--	--	7.4	11.2
MAY 20	1120	666	10.0	12.0	80	7.0	5.0
JUN 11	1030	73	19.0	22.0	115	7.5	8.8
AUG 11	1130	211	17.0	19.0	70	7.9	8.2
SEP 23	1440	21	16.0	19.0	160	7.5	--
WHEELING CREEK BASIN							
03112000 WHEELING CREEK AT ELM GROVE, WV (LAT 40 02 40 LONG 80 39 40)							
NOV 11	1130	161	11.0	14.0	--	--	--
JAN 26	1220	1110	1.5	11.0	750	6.0	9.6
MAR 09	1110	235	4.0	4.5	--	8.0	12.7
APR 19	1030	133	17.0	30.0	--	7.6	8.1
JUN 01	1135	49	16.5	31.5	400	8.1	6.9
JUL 12	1100	2780	18.5	19.5	--	--	--
AUG 16	1050	225	19.0	23.0	--	7.9	12.0
LITTLE GRAVE CREEK BASIN							
03113700 LITTLE GRAVE CREEK NEAR GLENDALE, WV (LAT 39 57 50 LONG 80 42 04)							
DEC 15	1420	42	3.0	5.0	--	--	--
FEB 19	1120	31	6.0	6.0	305	7.5	13.0
MAR 09	1330	7.3	3.5	3.0	--	8.0	12.4
AUG 16	1240	2.8	20.5	30.5	--	--	--
MIDDLE ISLAND CREEK BASIN							
03114500 MIDDLE ISLAND CREEK AT LITTLE, WV (LAT 39 28 30 LONG 80 59 50)							
FEB 20	1050	1570	8.0	12.5	115	7.5	12.0
MAR 10	0915	145	6.5	5.5	--	7.0	11.8
APR 20	1105	116	15.5	33.5	--	8.1	7.8
JUN 02	1030	88	17.5	32.5	225	7.6	7.7
JUL 13	1240	985	19.5	24.5	--	--	--
03114650 BUFFALO RUN NEAR LITTLE, WV (LAT 39 29 13 LONG 81 00 27)							
NOV 13	1240	14	9.0	0.5	--	--	--
DEC 16	0945	22	2.0	5.0	--	--	--
JAN 27	1040	30	1.5	1.5	820	7.4	10.0
MAR 09	1630	1.9	4.5	3.0	--	8.0	13.2
APR 20	0940	1.0	16.0	32.0	--	8.0	8.4
JUL 13	1435	2.3	18.5	24.5	860	7.6	7.0
LITTLE KANAWHA RIVER BASIN							
03151400 LITTLE KANAWHA RIVER AT WILDCAT, WV (LAT 38 44 00 LONG 80 31 23)							
NOV 12	1415	47	11.0	14.0	70	8.0	8.4
DEC 17	1425	395	6.0	5.0	<50	7.9	--
JAN 29	1140	422	3.5	4.0	60	7.5	11.0
MAR 11	0905	338	6.0	4.0	60	8.1	10.2
APR 21	1510	48	21.0	20.0	55	6.0	7.8
JUN 01	1115	23	20.0	20.0	60	7.0	7.4
JUL 12	1300	826	19.0	22.0	65	7.1	7.0
AUG 16	1400	25	23.0	25.0	45	7.1	6.8
SEP 28	1300	303	16.0	15.0	50	7.4	--
03151600 LITTLE KANAWHA RIVER AT BURNSVILLE, WV (LAT 38 51 55 LONG 80 40 32)							
OCT 08	0945	23	16.0	12.0	--	6.5	7.0
NOV 12	1225	118	14.0	15.0	130	7.1	8.6
DEC 17	1210	671	6.0	5.0	100	7.8	--
JAN 29	0950	1100	3.0	4.0	90	7.8	11.0
MAR 10	1615	547	9.0	10.0	110	7.8	10.8
APR 21	1730	78	22.0	--	100	7.0	7.0
JUN 01	1315	49	24.0	25.0	80	6.9	6.8
JUL 13	0840	469	20.0	16.0	100	7.0	7.0
AUG 16	1600	48	27.0	25.0	90	7.0	6.0
AUG 23	1500	11	27.0	26.0	90	7.8	7.4
SEP 01	1610	7.7	24.0	28.0	40	7.8	8.6
SEP 28	1445	423	17.0	17.0	130	7.1	--
SEP 29	1015	309	16.0	14.0	90	7.3	--

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
LITTLE KANAWHA RIVER BASIN--Continued							
03152000 LITTLE KANAWHA RIVER AT GLENVILLE, WV (LAT 38 56 00 LONG 80 50 20)							
OCT 18	1115	30	14.0	15.0	--	6.8	6.6
NOV 11	1525	76	13.0	11.5	280	7.6	8.6
NOV 12	0820	90	11.0	10.0	250	7.4	8.4
DEC 17	1015	1040	6.0	4.0	120	7.6	--
JAN 28	1700	1720	4.0	3.0	120	7.7	10.4
MAR 08	1640	132	8.5	6.5	165	8.0	9.8
APR 22	0845	131	19.0	15.0	185	7.0	6.8
JUN 02	0915	73	20.0	19.0	220	7.0	6.0
JUL 13	1445	547	22.0	24.0	100	7.0	5.2
AUG 18	0845	53	21.0	17.0	200	7.2	6.0
03152200 BUCK RUN NEAR LEOPOLD, WV (LAT 39 07 26 LONG 80 41 26)							
OCT 08	1350	0.27	14.0	20.0	--	7.2	10.8
NOV 12	1015	60	12.0	12.0	80	7.3	9.0
DEC 16	1545	13	8.0	4.0	85	7.6	--
JAN 26	1505	13	7.0	12.0	80	8.0	10.4
MAR 08	1500	0.70	8.0	6.5	100	8.5	10.8
APR 22	1225	0.68	20.0	18.0	120	7.7	7.6
JUN 01	1620	2.0	21.0	22.0	100	7.8	7.2
JUL 13	1055	1.2	18.0	16.0	100	7.5	7.4
AUG 17	1445	0.17	21.0	21.0	105	8.0	6.2
SEP 30	1320	2.5	14.0	14.0	100	7.5	--
03153500 LITTLE KANAWHA RIVER AT GRANTSVILLE, WV (LAT 38 55 20 LONG 81 05 50)							
OCT 07	1440	86	16.0	21.0	--	7.1	8.8
NOV 11	1200	163	13.5	9.0	180	7.8	9.2
DEC 16	1245	3180	7.5	6.5	120	7.9	--
JAN 28	1350	4210	3.5	1.0	115	7.1	6.6
MAR 09	1000	286	8.0	5.0	160	8.1	9.4
APR 20	1605	243	21.0	23.0	160	8.0	7.6
JUN 02	1125	153	21.0	21.0	140	7.5	5.2
JUL 15	1000	377	23.0	26.0	120	7.3	5.0
AUG 18	1050	153	22.0	24.0	150	7.2	5.0
03154250 TANNER RUN AT SPENCER, WV (LAT 38 48 11 LONG 81 21 58)							
OCT 07	1010	0.23	12.0	14.0	--	7.6	10.4
NOV 11	1005	0.28	6.5	5.0	280	8.4	7.6
DEC 16	0925	12	7.0	3.5	130	7.9	--
JAN 28	1000	8.2	2.0	-2.0	130	8.0	7.2
MAR 09	1430	1.6	3.0	2.0	460	8.0	8.8
APR 20	1400	0.47	28.0	3.5	260	8.0	8.6
JUN 02	1530	0.33	20.5	20.5	360	8.1	6.0
JUL 13	1845	0.56	26.0	25.0	210	7.9	5.0
AUG 18	1740	0.16	28.0	24.0	200	8.6	7.0
SEP 21	1725	0.10	21.0	17.0	435	8.1	--
03154500 REEDY CREEK NEAR REEDY, WV (LAT 38 57 40 LONG 81 23 25)							
OCT 06	1830	9.8	15.0	16.0	--	7.2	8.8
NOV 10	1645	9.9	15.0	14.0	200	7.7	7.8
DEC 15	1450	44	7.5	10.0	170	8.4	--
JAN 27	1615	654	3.0	2.0	110	7.6	8.8
MAR 10	0845	50	6.0	4.0	180	7.9	10.0
APR 20	1110	12	20.0	27.0	180	7.1	5.4
JUN 03	0850	77	17.0	15.0	125	7.1	5.0
JUL 14	0920	28	21.0	19.0	140	6.9	4.8
AUG 18	1615	22	22.0	25.0	160	7.0	5.0
SEP 22	0925	2.4	16.0	10.0	160	7.1	--
03155000 LITTLE KANAWHA RIVER AT PALESTINE, WV (LAT 39 03 35 LONG 81 23 25)							
OCT 06	1645	186	16.0	21.0	--	7.1	11.0
JAN 27	1330	6350	3.5	1.5	140	7.8	10.6
APR 20	0940	418	19.0	18.0	150	7.6	8.0
AUG 19	0955	338	22.0	23.0	120	7.1	7.6
SEP 22	1235	68	21.0	16.0	140	7.2	--
03155200 SOUTH FORK HUGHES RIVER AT MACFARLAN, WV (LAT 39 04 40 LONG 81 11 25)							
APR 19	1410	49	19.0	30.0	140	6.6	7.6
03155400 NORTH FORK HUGHES RIVER AT HARRISVILLE, WV (LAT 39 13 30 LONG 81 02 00)							
APR 19	1240	15	21.0	26.0	180	7.6	9.2
03155500 HUGHES RIVER AT CISCO, WV (LAT 39 07 10 LONG 81 16 40)							
OCT 06	1405	145	15.0	28.0	--	7.0	10.2
NOV 10	1445	70	15.0	14.0	200	8.1	8.8
MAR 10	1325	148	8.0	10.0	180	7.9	9.8
APR 19	1535	105	21.0	33.0	195	7.0	7.0
JUL 14	1730	243	21.0	22.0	145	7.0	6.8
AUG 19	1210	106	19.0	20.0	160	7.4	6.0
SEP 22	1510	9.6	18.0	17.0	190	7.3	--

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DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
KANAWHA RIVER BASIN							
03179000 BLUESTONE RIVER NEAR PIPESTEM, WV (LAT 37 32 45 LONG 81 00 30)							
OCT 21	1110	140	9.0	10.0	260	8.6	12.6
DEC 02	1100	104	3.0	5.0	260	8.4	13.4
JAN 13	1035	388	0.0	0.0	250	7.0	12.0
APR 06	1020	553	9.0	13.0	--	--	--
MAY 19	1030	547	10.0	8.0	150	6.8	12.3
AUG 05	1015	54	20.0	21.0	--	--	--
SEP 01	1000	33	16.0	15.0	430	8.2	9.1
03180000 NEW RIVER AT BLUESTONE DAM, WV (LAT 37 38 35 LONG 80 53 00)							
OCT 21	1440	8640	17.0	18.0	120	--	11.0
NOV 20	1300	4500	10.0	--	--	--	--
JAN 05	1340	8690	4.0	--	120	6.9	14.8
FEB 12	1130	5760	4.0	7.0	140	7.8	13.6
MAR 23	0840	3250	11.0	13.0	140	7.1	--
JUN 08	1225	3800	20.0	21.0	120	6.8	9.2
JUL 20	1145	4460	25.0	24.0	140	6.8	8.6
AUG 16	1315	1500	25.0	23.0	155	--	8.8
03180500 GREENBRIER RIVER AT DURBIN, WV (LAT 38 32 35 LONG 79 50 00)							
OCT 01	0825	128	12.0	9.0	--	--	--
DEC 02	0750	117	2.0	-5.0	--	--	--
JAN 06	1035	310	1.0	-6.0	--	--	--
MAR 23	1315	492	7.0	12.0	--	--	--
APR 27	1000	65	6.0	0.0	--	--	--
JUN 11	0810	46	17.0	13.0	--	--	--
AUG 10	0830	28	16.0	--	--	--	--
SEP 08	1330	5.5	24.0	25.0	390	6.9	--
03180700 DEER CREEK BELOW GREEN BANK, WV (LAT 38 25 00 LONG 79 51 42)							
SEP 08	1220	0.69	--	23.0	--	--	--
03181200 INDIAN DRAFT NEAR MARLINTON, WV (LAT 38 16 48 LONG 80 04 31)							
OCT 01	1230	0.99	16.0	20.0	--	--	--
DEC 02	1015	0.69	5.0	3.0	--	--	--
JAN 06	1425	5.6	6.0	6.0	--	--	--
FEB 19	1110	13	9.0	11.0	--	--	--
APR 27	1250	0.48	7.5	7.0	--	--	--
JUN 10	0850	0.80	14.0	16.5	--	--	--
SEP 08	0855	0.12	13.5	11.5	250	8.1	--
03182000 KNAPP CREEK AT MARLINTON, WV (LAT 38 12 40 LONG 80 04 30)							
SEP 08	1105	7.0	19.0	20.0	275	8.0	--
03182500 GREENBRIER RIVER AT BUCKEYE, WV (LAT 38 11 15 LONG 80 07 50)							
OCT 01	1110	311	16.0	15.0	--	--	--
APR 27	1150	165	10.0	7.0	--	--	--
JUN 10	1105	197	20.5	25.0	--	--	--
AUG 10	1100	104	22.5	22.0	--	--	--
SEP 08	1005	27	21.0	13.0	345	7.9	--
03182700 ANTHONY CREEK NEAR ANTHONY, WV (LAT 37 54 30 LONG 80 17 30)							
OCT 30	0915	51	11.0	7.0	80	6.9	9.6
NOV 19	1720	92	7.0	--	--	--	--
JAN 13	1530	105	1.0	3.0	60	6.2	13.8
FEB 25	1355	222	6.0	12.0	50	6.4	11.4
MAR 24	1200	128	9.0	20.0	55	6.0	--
JUN 09	1415	77	20.0	28.0	65	6.0	8.9
AUG 04	1445	16	22.0	23.0	--	--	--
SEP 09	1245	7.0	20.0	19.0	170	7.7	10.1
30	1340	36	14.0	14.0	130	7.1	9.4
03182950 HOWARD CREEK AT CALDWELL, WV (LAT 37 46 54 LONG 80 23 15)							
OCT 29	1010	20	14.0	17.0	340	7.7	9.4
NOV 19	1530	31	10.0	--	--	--	--
JAN 13	1430	40	2.0	3.0	200	7.1	13.0
FEB 11	0920	68	9.0	8.0	160	6.4	10.8
MAR 22	1440	84	12.0	--	140	9.2	--
JUN 09	1240	36	21.0	27.0	195	8.4	9.4
AUG 17	1350	6.1	23.0	--	--	--	--

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
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KANAWHA RIVER BASIN--Continued							
03183500 GREENBRIER RIVER AT ALDERSON, WV (LAT 37 43 30 LONG 80 38 30)							
OCT 14	1540	369	18.0	23.0	170	8.5	10.9
NOV 19	1410	1690	7.5	--	--	--	--
JAN 07	1400	2540	1.0	4.0	100	7.0	--
FEB 10	1045	2290	3.0	6.0	100	6.9	12.0
MAR 24	1020	2540	8.0	9.0	90	6.7	--
MAY 20	1010	1750	14.0	15.0	100	6.6	10.4
JUN 24	1510	1380	22.0	23.0	100	6.9	7.9
AUG 04	1140	364	21.0	20.0	--	--	--
SEP 01	1300	71	20.0	21.0	250	8.1	8.4
03184000 GREENBRIER RIVER AT HILLDALE, WV (LAT 37 38 25 LONG 80 48 20)							
NOV 19	1100	2040	6.5	--	--	--	--
03184200 BIG CREEK NEAR BELLEPOINT, WV (LAT 37 40 28 LONG 80 48 52)							
DEC 10	1410	1.5	4.0	4.0	120	7.6	13.1
JAN 15	0930	5.2	0.5	-5.0	90	6.1	12.2
FEB 26	0950	8.7	6.0	9.0	85	6.5	11.2
APR 06	1300	7.5	14.0	17.0	--	--	--
MAY 19	1320	5.1	15.0	16.0	110	6.5	10.8
JUN 22	1410	0.79	24.0	25.0	140	8.0	8.6
AUG 04	0930	0.07	16.0	18.0	--	--	--
SEP 09	0930	0.002	16.0	15.0	227	8.0	7.4
03184500 NEW RIVER AT HINTON, WV (LAT 37 40 15 LONG 80 53 40)							
NOV 18	1500	7630	7.5	--	--	--	--
FEB 17	1610	10900	10.0	21.0	190	7.3	--
JUN 07	1510	4140	22.0	26.0	105	7.5	9.3
AUG 16	1550	1620	--	--	154	--	10.5
03185000 PINEY CREEK AT RALEIGH, WV (LAT 37 45 40 LONG 81 09 50)							
OCT 14	1110	6.6	13.0	20.0	320	6.7	9.6
NOV 17	1550	51	6.0	--	--	--	--
JAN 06	1110	103	1.0	-4.0	160	5.8	--
FEB 09	1050	101	2.0	4.0	190	6.4	11.8
MAR 23	1405	104	10.0	16.0	160	6.2	--
JUN 08	1500	13	23.0	25.0	270	6.7	8.4
JUL 19	1315	12	21.0	20.0	240	8.2	9.6
AUG 17	1040	10	17.0	15.0	330	--	10.4
03186500 WILLIAMS RIVER AT DYER, WV (LAT 38 22 45 LONG 80 29 05)							
DEC 03	1120	117	3.0	1.0	--	--	--
JAN 05	1520	474	1.0	-6.0	--	--	--
FEB 19	0910	1140	6.0	5.0	--	--	--
MAR 24	0845	407	5.0	8.0	--	--	--
JUN 08	1210	87	19.0	23.0	--	--	--
SEP 07	1130	12	19.0	22.0	95	7.7	--
03187500 CRANBERRY RIVER NEAR RICHWOOD, WV (LAT 38 17 45 LONG 80 31 40)							
SEP 07	1225	8.2	17.5	25.0	<25	7.4	--
03189000 CHERRY RIVER AT FENWICK, WV (LAT 38 13 45 LONG 80 35 00)							
SEP 09	1110	12	19.5	23.0	--	--	--
03189100 GAULEY RIVER NEAR CRAIGSVILLE, WV (LAT 38 17 30 LONG 80 38 30)							
OCT 03	1120	369	12.0	--	--	--	--
FEB 20	1045	2830	6.5	8.0	--	--	--
MAR 24	1035	1890	7.5	--	--	--	--
APR 29	1110	301	9.0	--	--	--	--
JUN 09	1015	263	20.0	19.0	--	--	--
AUG 11	1015	288	19.0	16.0	--	--	--
SEP 09	1025	61	21.0	21.0	150	7.5	--

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
KANAWHA RIVER BASIN--Continued							
03189600 GAULEY RIVER BELOW SUMMERSVILLE DAM, WV (LAT 38 13 00 LONG 80 53 30)							
DEC 01	1515	743	8.0	5.0	60	7.8	11.8
JAN 12	1440	1300	4.0	7.0	50	6.9	12.8
APR 05	1120	83	12.5	--	--	--	--
MAY 17	1320	113	11.0	21.0	50	5.8	11.0
AUG 03	1355	583	16.0	--	--	--	--
03189650 COLLISON CREEK NEAR NALLEN, WV (LAT 38 10 35 LONG 80 52 07)							
JAN 14	1410	19	4.0	3.0	<50	6.1	13.0
FEB 18	1140	5.5	10.0	8.0	<50	6.4	10.4
APR 05	1135	5.6	6.0	9.0	--	--	--
MAY 18	1130	4.9	11.0	10.0	<50	--	9.8
JUN 21	1340	1.3	16.0	19.0	<50	6.2	8.2
AUG 03	1550	0.46	15.0	--	--	--	--
31	1345	0.03	14.0	18.0	<50	6.2	8.2
03190400 MEADOW RIVER NEAR MT. LOOKOUT, WV (LAT 38 11 25 LONG 80 56 55)							
OCT 24	1220	315	11.5	--	60	8.4	11.1
JAN 14	1045	1630	2.0	2.5	60	6.8	13.4
APR 07	0930	648	9.0	5.0	--	--	--
AUG 06	1000	149	20.0	--	--	--	--
SEP 08	1415	30	20.0	20.0	120	7.1	8.9
03192000 GAULEY RIVER ABOVE BELVA, WV (LAT 38 14 00 LONG 81 10 45)							
DEC 01	1200	1430	8.0	5.0	65	6.7	11.4
JAN 12	1140	3370	3.0	7.0	60	5.9	12.2
FEB 27	1240	2820	8.0	12.0	60	6.3	11.2
MAY 19	1055	383	19.0	20.0	90	6.3	9.0
AUG 03	1100	1770	18.0	--	--	--	--
03193000 KANAWHA RIVER AT KANAWHA FALLS, WV (LAT 38 08 20 LONG 81 12 45)							
OCT 07	1050	5040	16.5	--	90	--	--
NOV 18	1235	12900	9.5	--	110	7.2	--
DEC 18	1210	7760	6.0	-9.0	120	7.7	--
JAN 29	1505	42900	3.5	5.0	240	7.2	--
MAR 29	1055	8560	11.5	19.0	160	7.4	--
APR 29	1300	4300	15.5	--	--	--	--
SEP 10	1145	2980	20.0	18.0	145	7.4	9.2
03193830 GILMER RUN NEAR MARLINTON, WV (LAT 38 19 12 LONG 80 05 52)							
OCT 01	1325	0.53	15.0	19.0	--	--	--
DEC 02	1055	0.50	1.0	1.0	--	--	--
JAN 06	1330	2.6	0.5	0.0	--	--	--
FEB 19	1225	9.1	6.0	11.0	--	--	--
MAR 23	0820	4.1	2.5	6.0	--	--	--
JUN 10	0755	0.24	13.5	11.5	--	--	--
AUG 09	1350	0.12	18.0	--	--	--	--
SEP 02	1330	0.20	17.0	19.0	275	7.8	--
03194700 ELK RIVER BELOW WEBSTER SPRINGS, WV (LAT 38 35 50 LONG 80 29 20)							
OCT 02	0925	173	16.0	10.0	--	--	--
28	1250	223	15.0	21.0	--	--	--
FEB 17	1300	1220	10.0	20.0	--	--	--
MAR 22	1335	2140	8.0	10.0	--	--	--
APR 28	1110	250	10.0	9.0	--	--	--
JUN 08	0945	128	19.0	16.5	--	--	--
AUG 09	0935	162	20.0	18.0	--	--	--
SEP 07	0920	41	19.0	14.0	140	8.0	--
03195100 RIGHT FORK HOLLY RIVER AT GUARDIAN, WV (LAT 38 38 08 LONG 80 27 58)							
OCT 21	1235	18	11.0	24.0	--	--	--
DEC 08	1140	154	8.0	7.0	--	--	--
JAN 12	1305	124	3.0	8.0	--	--	--
FEB 23	1325	116	6.0	3.0	--	--	--
APR 05	1325	187	11.5	15.0	--	--	--
MAY 10	1355	26	15.0	28.0	--	--	--
JUN 21	1045	31	19.0	21.0	--	--	--
AUG 03	1110	18	19.0	26.0	--	--	--
30	1100	5.4	19.0	19.0	120	7.0	--

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
KANAWHA RIVER BASIN--Continued							
03195250 LEFT FORK HOLLY RIVER NEAR REPLETE, WV (LAT 38 41 19 LONG 80 26 01)							
OCT 21	1115	43	10.0	12.0	--	--	--
DEC 08	1015	165	7.0	6.0	--	--	--
JAN 12	1145	126	1.0	1.0	--	--	--
FEB 23	1215	130	4.0	-1.0	--	--	--
APR 05	1200	225	8.0	16.0	--	--	--
MAY 10	1225	45	13.0	21.0	--	--	--
JUN 21	0930	51	17.0	18.0	--	--	--
AUG 03	1300	17	19.5	21.0	--	--	--
30	0935	5.8	18.0	14.0	120	7.4	--
03195500 ELK RIVER AT SUTTON, WV (LAT 38 39 45 LONG 80 42 35)							
OCT 22	0935	946	16.0	11.0	--	--	--
DEC 09	0820	1380	6.5	7.0	--	--	--
FEB 23	1620	1450	8.0	--	--	--	--
APR 05	1545	93	12.0	20.0	--	--	--
MAY 10	1540	85	14.0	29.0	--	--	--
JUN 21	1315	437	13.5	22.0	--	--	--
AUG 04	1355	336	20.5	--	--	--	--
31	1305	80	22.0	25.0	115	6.8	--
03195600 GRANNY CREEK AT SUTTON, WV (LAT 38 40 36 LONG 80 42 47)							
OCT 21	1530	2.7	16.0	25.0	--	--	--
DEC 08	1600	7.3	8.0	8.0	--	--	--
JAN 12	1520	19	5.0	6.0	--	--	--
APR 06	1455	6.2	16.0	20.0	--	--	--
JUN 21	1440	5.0	17.0	25.0	--	--	--
AUG 05	0820	0.46	19.0	--	--	--	--
31	1225	0.37	20.0	23.0	340	7.8	--
03196600 ELK RIVER NEAR FRAMETOWN, WV (LAT 38 35 34 LONG 80 53 06)							
DEC 08	1420	1960	6.0	9.0	--	--	--
JAN 13	1255	2120	2.0	6.0	--	--	--
FEB 24	0840	1990	7.5	--	--	--	--
APR 06	1215	477	10.0	17.0	--	--	--
MAY 11	1045	147	17.0	15.0	--	--	--
JUN 22	1045	676	20.0	25.0	--	--	--
AUG 04	1120	552	20.5	21.0	--	--	--
30	1425	114	19.0	21.0	120	6.9	--
03196800 ELK RIVER AT CLAY, WV (LAT 38 27 36 LONG 81 05 15)							
OCT 22	1310	1170	16.0	--	--	--	--
APR 06	1010	855	12.5	16.0	--	--	--
MAY 11	0900	205	17.0	13.5	--	--	--
JUN 22	0905	676	23.0	19.0	--	--	--
AUG 04	0940	589	--	23.0	--	--	--
31	0820	131	20.0	10.0	115	6.9	--
03197000 ELK RIVER AT QUEEN SHOALS, WV (LAT 38 28 20 LONG 81 17 10)							
OCT 23	1255	1160	16.0	24.0	--	--	--
MAY 12	0920	229	18.0	12.0	--	--	--
AUG 05	1105	514	24.0	23.0	--	--	--
SEP 01	0800	154	21.0	13.0	140	7.0	--
03198000 KANAWHA RIVER AT CHARLESTON, WV (LAT 38 22 10 LONG 81 42 05)							
NOV 11	1120	8050	17.0	--	--	--	--
JAN 07	1310	24700	4.0	--	--	--	--
MAR 18	1300	17800	9.0	--	--	--	--
MAY 25	1230	9870	18.5	--	--	--	--
JUN 09	1230	9270	23.5	--	--	--	--
JUL 29	0940	4920	26.0	--	--	--	--
AUG 02	1215	7240	26.0	--	--	--	--
SEP 08	1300	3080	27.0	--	--	--	--
03198450 DRAWDY CREEK NEAR PEYTONA, WV (LAT 38 07 29 LONG 81 41 33)							
NOV 03	1520	1.4	15.0	22.0	470	7.4	--
DEC 10	1225	6.6	5.0	2.0	320	7.4	--
JAN 19	1450	13	1.0	8.0	190	6.8	--
FEB 25	1015	9.7	7.0	11.0	290	7.0	--
APR 05	1435	13	10.0	20.0	290	7.0	--
MAY 20	1000	6.8	13.0	18.5	--	--	--
JUN 29	1400	0.92	25.0	26.0	450	6.3	9.4
AUG 13	1025	0.25	22.0	24.0	570	7.8	7.5

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
KANAWHA RIVER BASIN--Continued							
03198500 BIG COAL RIVER AT ASHFORD, WV (LAT 38 10 45 LONG 81 42 40)							
NOV 03	1225	177	13.0	--	320	7.5	--
DEC 10	1520	272	5.5	--	420	7.6	--
JAN 14	1310	1860	5.0	6.0	350	7.2	--
MAR 08	1125	258	8.0	10.0	440	7.3	--
APR 05	1230	626	11.0	16.0	260	7.1	--
MAY 17	1015	175	19.0	22.0	--	--	--
JUN 29	1040	63	23.0	24.0	430	7.5	8.4
AUG 09	1200	104	19.0	21.0	390	7.4	8.4
SEP 14	1045	41	19.0	22.0	--	--	--
03198550 BIG COAL RIVER NEAR ALUM CREEK, WV (LAT 38 15 00 LONG 81 47 54)							
NOV 05	1045	177	--	--	360	7.5	--
DEC 15	1230	278	9.5	--	390	7.0	--
JAN 20	1300	707	0.5	2.0	--	7.0	--
FEB 27	1545	640	11.0	25.0	350	--	--
APR 12	1230	352	9.0	5.0	380	7.4	--
MAY 18	1110	399	16.5	11.0	--	--	--
JUN 28	1340	105	25.0	26.0	450	7.6	8.7
AUG 10	1500	88	21.0	28.0	430	8.0	9.2
SEP 13	1235	59	19.0	--	--	--	--
03199000 LITTLE COAL RIVER AT DANVILLE, WV (LAT 38 04 47 LONG 81 50 12)							
NOV 04	1130	81	13.0	--	940	7.7	--
DEC 01	1420	149	8.0	5.0	750	7.1	--
JAN 13	1250	556	4.0	9.0	460	7.7	--
FEB 25	1150	424	8.0	22.0	470	--	--
APR 09	1115	271	11.0	9.0	520	7.7	--
MAY 17	1135	102	20.0	23.5	--	--	--
JUN 29	1200	61	24.0	24.0	800	7.4	8.0
AUG 13	1200	36	23.0	26.0	1200	9.1	8.1
SEP 14	1155	23	19.0	--	--	--	--
03199400 LITTLE COAL RIVER AT JULIAN, WV (LAT 38 09 17 LONG 81 51 10)							
NOV 04	1420	96	15.0	--	925	7.7	--
DEC 09	1600	282	7.0	5.0	500	7.6	--
JAN 14	1545	780	5.0	13.0	360	7.6	--
FEB 25	1500	562	11.0	20.0	410	--	--
APR 09	1510	310	13.0	14.0	500	7.6	--
MAY 17	1255	117	20.0	23.0	--	--	--
JUN 28	1530	74	26.0	29.0	580	7.4	8.7
AUG 12	1340	39	24.0	33.0	990	8.5	8.1
SEP 15	1200	29	19.0	--	--	--	--
03199700 COAL RIVER AT ALUM CREEK, WV (LAT 38 17 11 LONG 81 48 25)							
OCT 02	0910	210	14.0	--	--	--	--
DEC 11	1545	722	6.0	13.0	400	7.4	--
JAN 20	1625	1160	1.5	3.0	--	7.2	--
FEB 24	1540	1550	8.0	27.0	340	6.8	--
APR 12	1530	648	10.5	12.0	400	7.6	--
MAY 17	1440	353	21.0	24.0	--	--	--
JUN 28	1240	185	27.0	26.0	510	7.3	8.6
AUG 10	1245	147	21.0	28.0	465	6.1	9.5
03200500 COAL RIVER AT TORNADO, WV (LAT 38 20 20 LONG 81 50 30)							
NOV 05	1600	294	15.0	--	520	7.6	--
DEC 11	1210	703	4.5	--	400	7.5	--
JAN 16	1240	2750	3.5	2.5	240	7.5	--
FEB 24	1100	1620	6.5	24.5	310	6.9	--
APR 20	1550	401	22.0	--	530	7.8	--
MAY 18	1345	1190	21.0	--	--	--	--
JUN 28	1055	197	25.0	24.0	530	7.3	8.5
AUG 10	0935	162	20.5	24.5	620	7.9	8.7
03201000 POCATALICO RIVER AT Sissonville, WV (LAT 38 31 35 LONG 81 37 50)							
OCT 03	1325	43	15.0	25.0	500	7.1	--
DEC 16	1030	368	7.0	6.0	300	7.6	--
JAN 30	1210	554	2.0	2.5	230	7.5	--
MAR 12	1030	702	9.0	10.5	220	--	--
APR 01	1100	1570	10.0	10.0	190	7.4	--
26	1535	46	17.0	13.0	420	7.7	--
JUN 01	0940	24	20.0	22.0	285	6.4	7.5
JUL 22	0935	56	23.0	23.0	--	--	--
AUG 23	1010	14	20.0	20.0	270	7.3	--
03201410 POPLAR FORK AT TEAYS, WV (LAT 38 27 23 LONG 81 55 54)							
OCT 04	1520	0.87	19.0	32.5	215	6.9	--
NOV 12	1625	3.5	10.0	18.0	280	7.2	--
DEC 16	1445	22	8.0	8.0	200	7.5	--
FEB 04	1440	7.2	4.0	11.5	210	7.0	--
MAR 11	1640	12	11.5	23.0	230	--	--
APR 22	1425	2.6	23.0	25.0	300	7.7	--
JUN 01	1345	3.6	22.0	24.0	225	6.4	8.6
AUG 23	1240	0.12	21.0	22.0	290	--	7.0

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
GUYANDOTTE RIVER BASIN							
03202400 GUYANDOTTE RIVER NEAR BAILEYSVILLE, WV (LAT 37 36 15 LONG 81 38 44)							
OCT 22	1335	121	13.0	23.0	605	7.7	--
DEC 09	1220	117	7.0	--	700	7.8	--
FEB 26	1255	613	12.5	29.0	200	8.0	--
APR 08	1200	367	14.0	15.5	530	8.4	--
MAY 19	1235	670	14.0	18.0	--	--	--
JUN 30	1150	119	23.0	24.0	490	7.7	7.2
AUG 11	1750	64	23.0	29.5	615	8.6	9.5
03202480 BRIER CREEK AT FANROCK, WV (LAT 37 33 50 LONG 81 39 16)							
OCT 20	1500	2.2	12.0	14.0	220	7.6	--
DEC 08	1445	1.7	7.0	--	185	8.1	--
JAN 21	1345	6.1	1.0	1.0	150	7.2	--
FEB 26	1515	10	10.5	22.5	100	--	--
APR 07	1800	6.2	13.0	14.5	170	8.0	--
JUN 30	1440	0.37	22.0	24.0	300	7.4	9.3
AUG 11	1530	0.19	23.0	29.0	315	7.8	--
SEP 16	1330	0.38	17.0	--	--	--	--
03202490 INDIAN CREEK AT FANROCK, WV (LAT 37 34 00 LONG 81 39 10)							
OCT 20	1700	12	12.0	14.0	200	7.6	--
DEC 08	1630	11	7.0	16.0	170	7.9	--
JAN 21	1530	31	0.0	1.0	110	7.5	--
FEB 26	1655	62	10.0	22.0	100	7.4	--
APR 07	1800	38	12.5	14.5	120	7.4	--
MAY 19	1420	40	13.5	18.0	--	--	--
JUN 30	1345	2.0	21.0	23.0	140	6.4	5.6
AUG 11	1500	1.2	21.0	29.0	225	7.7	7.1
SEP 16	1430	10	18.0	--	--	--	--
03202750 CLEAR FORK AT CLEAR FORK, WV (LAT 37 37 20 LONG 81 41 42)							
OCT 22	1050	59	11.5	--	560	7.9	--
DEC 08	1305	56	7.0	--	620	7.1	--
JAN 22	1220	119	0.0	0.0	400	7.2	--
FEB 27	0900	163	8.0	11.0	360	--	--
APR 08	1300	126	13.0	17.0	390	7.0	--
MAY 19	1600	100	16.0	20.0	--	--	--
JUL 01	0830	16	20.0	16.0	610	6.7	8.2
AUG 12	0945	11	20.0	21.0	670	6.8	7.4
SEP 17	0915	25	17.0	--	--	--	--
03203600 GUYANDOTTE RIVER AT LOGAN, WV (LAT 37 50 34 LONG 81 58 50)							
OCT 23	1100	326	14.0	18.0	600	7.6	--
DEC 04	1045	277	5.0	4.5	700	7.2	--
JAN 08	1435	1390	2.0	-5.0	340	7.9	--
FEB 10	1600	1340	5.5	22.0	360	7.1	--
MAR 16	1215	1020	9.0	11.0	470	7.2	--
APR 13	1445	575	13.5	18.0	500	8.2	--
MAY 12	1050	262	18.0	17.0	540	7.8	9.6
JUN 15	0935	650	24.5	24.0	--	--	--
JUL 08	1115	392	23.0	23.0	460	7.6	7.6
AUG 17	1220	194	24.0	22.0	600	7.8	--
SEP 14	0855	124	20.5	16.0	690	8.1	--
03203670 WHITMAN CREEK AT WHITMAN, WV (LAT 37 48 28 LONG 82 01 42)							
OCT 23	1435	2.6	17.0	--	270	7.7	--
DEC 03	1640	3.1	7.0	--	400	7.6	--
JAN 08	1630	21	4.0	-2.0	240	7.5	--
MAR 16	1535	14	7.0	3.0	240	7.5	--
APR 13	1200	9.3	12.0	11.0	280	7.8	--
MAY 12	1235	1.4	19.0	18.0	260	6.5	9.8
JUL 09	0930	1.1	18.0	20.0	260	7.3	8.4
AUG 17	1330	0.65	24.0	25.0	310	9.1	--
SEP 14	0950	0.0	--	16.0	--	--	--
03204000 GUYANDOTTE RIVER AT BRANCHLAND, WV (LAT 38 13 15 LONG 82 12 10)							
OCT 10	1035	254	17.5	--	630	7.2	--
NOV 19	0945	1350	8.0	17.0	380	7.5	--
DEC 17	1130	3410	6.0	1.0	240	7.6	--
FEB 04	1210	2090	3.0	8.0	200	7.2	--
MAR 10	1630	1900	10.0	22.5	500	--	--
APR 21	1120	585	22.0	--	560	7.2	--
JUN 01	1205	369	22.0	24.5	--	--	--
AUG 23	1205	136	24.0	29.0	770	8.2	--
03204500 MUD RIVER NEAR MILTON, WV (LAT 38 23 15 LONG 82 06 46)							
OCT 06	1450	25	16.0	26.0	150	--	--
NOV 17	1325	226	7.0	18.0	170	7.4	--
DEC 22	1150	157	1.0	-7.5	160	7.6	--
JAN 30	1550	512	3.0	3.0	140	--	--
MAR 10	0920	671	7.0	10.0	180	7.2	--
APR 21	1455	59	22.0	30.0	140	7.3	--
JUN 01	1000	57	19.0	22.0	--	--	--
AUG 23	0950	14	21.0	20.0	180	7.2	--

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS
WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	AIR TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)
TWELVEPOLE CREEK BASIN							
03206600 EAST FORK TWELVEPOLE CREEK NEAR DUNLOW, WV (LAT 38 01 02 LONG 82 17 46)							
OCT 09	1255	8.5	16.0	--	90	6.8	--
NOV 21	1420	33	9.0	4.5	100	7.7	--
FEB 02	1450	75	1.0	-6.0	80	7.3	--
MAR 11	1300	55	9.0	14.0	85	--	--
MAY 10	1310	7.7	16.0	20.0	70	6.3	9.2
JUL 14	0925	0.92	19.0	18.0	100	6.5	6.5
AUG 18	0940	9.9	17.5	16.0	160	7.3	--
SEP 15	0905	2.6	18.0	17.0	160	7.4	--
03206790 EAST FORK TWELVEPOLE CREEK BELOW EAST LYNN DAM, WV (LAT 38 08 52 LONG 82 23 00)							
OCT 08	1425	34	17.0	--	80	6.3	--
NOV 20	1420	215	11.5	--	85	7.5	--
DEC 17	1605	700	7.0	0.0	100	7.6	--
FEB 03	1300	287	3.5	8.5	90	7.1	--
MAR 09	1440	95	8.5	2.5	100	7.7	--
APR 23	1105	16	15.0	25.0	90	7.8	--
JUN 01	1355	70	19.0	25.0	--	--	--
AUG 23	1400	5.8	24.0	30.0	130	6.7	--
03207057 BEECH FORK BELOW BEECH FORK DAM, WV (LAT 38 18 28 LONG 82 25 28)							
AUG 18	1220	9.1	22.0	24.0	240	7.3	--
26	0935	0.74	24.0	23.0	270	7.5	--
SEP 16	0740	0.90	19.0	16.0	275	7.5	--
03207020 TWELVEPOLE CREEK BELOW WAYNE, WV (LAT 38 14 56 LONG 82 26 06)							
OCT 10	1300	32	18.0	23.0	110	6.8	--
NOV 20	1625	307	10.0	--	--	7.2	--
MAR 09	1140	117	7.5	3.5	160	7.7	--
APR 23	1340	68	21.0	27.0	175	7.4	--
AUG 24	0905	23	23.0	20.0	165	7.1	--
BIG SANDY RIVER BASIN							
03213000 TUG FORK AT LITWAR, WV (LAT 37 29 05 LONG 81 50 40)							
OCT 21	1515	156	14.0	29.0	950	8.2	--
DEC 03	1300	144	6.0	--	1000	7.9	--
04	1540	146	4.5	--	1100	7.9	--
JAN 09	1310	525	1.0	-7.5	480	7.7	--
FEB 11	1025	666	8.0	11.0	540	7.6	--
MAR 15	1140	651	9.0	11.0	550	--	--
APR 14	1155	458	--	19.0	--	--	--
JUN 14	1445	182	25.0	29.0	--	--	--
JUL 08	1400	157	23.0	25.0	720	8.3	9.5
AUG 16	1345	154	24.0	24.0	750	8.3	--
SEP 13	1410	78	21.5	24.0	770	8.3	--
03213500 PANTHER CREEK NEAR PANTHER, WV (LAT 37 26 45 LONG 81 52 15)							
OCT 21	1240	3.3	10.0	--	490	--	--
DEC 03	1030	2.6	3.0	6.5	700	7.8	--
JAN 07	1540	28	1.0	7.0	180	7.5	--
FEB 11	1405	29	8.0	14.0	170	7.4	--
MAR 15	1450	27	8.0	25.0	150	--	--
JUN 14	1325	3.5	22.0	28.0	--	--	--
JUL 08	1520	8.4	21.0	24.0	200	8.0	9.2
AUG 16	1245	21	20.0	22.0	245	7.7	--
SEP 13	1300	2.4	17.0	22.0	550	8.3	--
03213700 TUG FORK AT WILLIAMSON, WV (LAT 37 40 21 LONG 82 16 50)							
DEC 02	1540	278	7.0	--	900	7.3	--
JAN 12	1500	1010	2.0	7.5	500	7.1	--
FEB 10	1040	1310	4.5	11.5	430	7.2	--
MAR 17	1230	1410	7.0	17.0	480	7.6	--
MAY 11	1205	322	19.0	20.0	650	7.9	8.2
JUL 13	1530	163	26.0	24.0	625	8.9	8.2
AUG 17	1005	199	22.5	18.5	770	8.3	--
SEP 14	1200	112	22.0	23.0	825	8.2	--
03214000 TUG FORK NEAR KERMIT, WV (LAT 37 49 05 LONG 82 23 20)							
DEC 04	1255	379	5.5	--	925	7.4	--
MAR 17	1620	1640	8.0	4.0	410	7.4	--
MAY 10	1650	373	20.0	23.0	640	7.7	9.1
JUL 13	1315	198	26.0	24.0	560	8.0	8.3
AUG 17	1515	214	24.5	27.0	660	8.1	--
SEP 14	1335	156	22.0	24.0	770	8.0	--
03214900 TUG FORK AT GLENHAYES, WV (LAT 38 00 20 LONG 82 30 53)							
MAR 18	1345	1970	10.5	18.5	445	7.6	--
MAY 11	0930	410	17.0	23.0	470	8.4	9.0
JUL 13	1755	278	27.0	25.0	380	7.3	8.1
AUG 18	0800	315	21.5	14.0	435	7.7	--
SEP 15	1125	188	21.0	22.0	790	8.2	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

MONONGAHELA RIVER BASIN

Samples are collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

385856079434601 - LITTLE BLACK FORK NEAR ELKINS, W. VA. (LAT 38 58 56 LONG 079 43 46)

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	HARDNESS (CA+MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)
MAR 15...	1450	16	60	8.0	6.0	1	25	10	8.2

DATE	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)
MAR 15...	1.1	.8	.4	18	0	15	.3	7.5	.3

DATE	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT CHARGE (T/DAY)
MAR 15...	.0	3.8	38	31	40	10	0	1	.04

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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GUYANDOTTE RIVER BASIN

The 4-digit number preceding station name is a local identifier indicating downstream order.

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
373549081191401 - 001.0 DEVILS FORK AT AMIGO, W. VA. (LAT 37 35 49 LONG 081 19 14.01)										
SEP , 1975										
15...	1345	1.3	190	7.7	17.5	1	8.8	--	1500	7500
MAY , 1976										
24...	1130	2.0	70	8.2	15.0	2	11.5	--	--	800
373809081185101 - 002.0 WINDING GULF AT HELEN, W. VA. (LAT 37 38 09 LONG 081 18 51.01)										
SEP , 1975										
15...	1145	5.8	650	8.5	14.0	2	8.9	--	5400	540
MAY , 1976										
24...	1000	8.9	725	7.2	15.0	2	10.5	--	--	1600
373609081191801 - 003.0 STONECOAL CREEK AT AMIGO, W. VA. (LAT 37 36 09 LONG 081 19 18.01)										
SEP , 1975										
15...	1300	6.5	650	8.5	14.5	2	9.4	--	9400	1700
MAY , 1976										
24...	1100	10	700	8.1	14.0	2	10.9	--	2800	0
373527081205401 - 004.0 ALLEN CREEK AT ALLEN JUNCTION, W. VA. (LAT 37 35 27 LONG 081 20 54.01)										
SEP , 1975										
15...	1445	.98	580	8.0	18.0	3	8.6	--	2500	400
MAY , 1976										
24...	1215	2.2	625	8.1	15.0	4	9.6	--	--	0
373819081233801 - 005.0 MARSH FORK AT MABEN, W. VA. (LAT 37 38 19 LONG 081 23 38.01)										
SEP , 1975										
15...	1600	.38	140	8.4	16.0	3	9.7	--	380	2500
MAY , 1976										
26...	1215	.90	140	6.8	14.0	1	9.8	--	--	0
373455081225501 - 006.0 SLAB FORK AT MULLENS, W. VA. (LAT 37 34 55 LONG 081 22 55.01)										
SEP , 1975										
15...	1700	6.2	650	8.8	19.0	2	8.9	--	200	440
MAY , 1976										
24...	1345	24	520	8.4	15.0	2	11.4	--	--	0
373123081220201 - 007.0 GOONEY OTTER CREEK NEAR HERNDON, W. VA. (LAT 37 31 23 LONG 081 22 02.01)										
SEP , 1975										
15...	1800	3.6	360	8.5	17.5	8	8.9	--	560	640
MAY , 1976										
24...	1530	27	250	8.3	16.5	4	11.2	--	--	--
373322081240301 - 008.0 BARKERS CREEK AT TRALEE, W. VA. (LAT 37 33 22 LONG 081 24 03.01)										
SEP , 1975										
15...	1830	7.4	600	8.4	17.0	3	7.5	--	760	400
30...	1430	21	480	7.9	15.0	5	10.6	3.0	1900	780
MAY , 1976										
24...	1430	37	420	8.3	14.5	4	11.4	--	--	0
373449081260201 - 009.0 STILL RUN AT ITMANN, W. VA. (LAT 37 34 49 LONG 081 26 02.01)										
SEP , 1975										
16...	0945	.57	320	7.9	13.5	4	8.9	--	18000	3900
MAY , 1976										
24...	1610	2.4	220	8.1	15.0	4	11.1	--	--	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CAO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
373549081191401 - 001.0 DEVILS FORK AT AMIGO, W. VA. (LAT 37 35 49 LONG 081 19 14.01)										
SEP , 1975										
15...	69	61	--	--	16	7.1	6.4	16	.3	2.1
MAY , 1976										
24...	22	9	--	--	4.5	2.5	2.2	17	.2	1.0
373809081185101 - 002.0 WINDING GULF AT HELEN, W. VA. (LAT 37 38 09 LONG 081 18 51.01)										
SEP , 1975										
15...	150	0	--	--	34	16	120	63	4.3	3.4
MAY , 1976										
24...	180	0	--	--	39	20	96	53	3.1	3.4
373609081191801 - 003.0 STONECOAL CREEK AT AMIGO, W. VA. (LAT 37 36 09 LONG 081 19 18.01)										
SEP , 1975										
15...	160	0	--	--	36	17	110	59	3.8	3.2
MAY , 1976										
24...	170	0	--	--	37	20	87	51	2.9	3.2
373527081205401 - 004.0 ALLEN CREEK AT ALLEN JUNCTION, W. VA. (LAT 37 35 27 LONG 081 20 54.01)										
SEP , 1975										
15...	170	0	--	--	42	17	89	52	2.9	5.0
MAY , 1976										
24...	150	11	--	--	34	15	65	48	2.3	3.6
373819081233801 - 005.0 MARSH FORK AT MABEN, W. VA. (LAT 37 38 19 LONG 081 23 38.01)										
SEP , 1975										
15...	49	3	--	--	13	3.9	12	34	.8	1.9
MAY , 1976										
26...	28	28	--	--	6.5	2.8	7.6	36	.6	1.3
373455081225501 - 006.0 SLAB FORK AT MULLENS, W. VA. (LAT 37 34 55 LONG 081 22 55.01)										
SEP , 1975										
15...	110	0	--	--	23	13	130	71	5.4	2.7
MAY , 1976										
24...	97	0	--	--	19	12	60	57	2.7	2.3
373123081220201 - 007.0 GOONEY OTTER CREEK NEAR HERNDON, W. VA. (LAT 37 31 23 LONG 081 22 02.01)										
SEP , 1975										
15...	110	0	--	--	28	9.0	45	47	1.9	2.9
MAY , 1976										
24...	75	7	--	--	18	7.2	16	31	.8	2.0
373322081240301 - 008.0 BARKERS CREEK AT TRALEE, W. VA. (LAT 37 33 22 LONG 081 24 03.01)										
SEP , 1975										
15...	99	0	--	--	25	8.9	130	73	5.7	2.8
30...	--	--	.0	.0	--	--	--	--	--	--
MAY , 1976										
24...	78	0	--	--	20	6.9	55	60	2.7	2.3
373449081260201 - 009.0 STILL RUN AT ITMANN, W. VA. (LAT 37 34 49 LONG 081 26 02.01)										
SEP , 1975										
16...	83	20	--	--	19	8.6	39	50	1.9	2.3
MAY , 1976										
24...	58	26	--	--	13	6.1	13	32	.7	1.8

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	BICAR- BONATE (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	CARBON DIOXIDE (C02) (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (S102) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
373549081191401 - 001.0 DEVILS FORK AT AMIGO, W. VA. (LAT 37 35 49 LONG 081 19 14.01)										
SEP , 1975										
15...	10	0	8	.3	71	1.8	--	--	121	.42
MAY , 1976										
24...	15	0	12	.2	19	1.2	6.7	--	45	.24
373809081185101 - 002.0 WINDING GULF AT HELEN, W. VA. (LAT 37 38 09 LONG 081 18 51.01)										
SEP , 1975										
15...	311	0	255	1.6	160	3.8	--	--	498	7.80
MAY , 1976										
24...	280	0	230	2.8	150	5.7	8.1	--	461	11.1
373609081191801 - 003.0 STONECOAL CREEK AT AMIGO, W. VA. (LAT 37 36 09 LONG 081 19 18.01)										
SEP , 1975										
15...	301	0	247	1.5	150	3.6	--	--	479	8.41
MAY , 1976										
24...	256	0	210	3.3	150	3.8	8.4	--	438	11.8
373527081205401 - 004.0 ALLEN CREEK AT ALLEN JUNCTION, W. VA. (LAT 37 35 27 LONG 081 20 54.01)										
SEP , 1975										
15...	217	0	178	3.5	190	2.7	--	--	464	1.23
MAY , 1976										
24...	166	0	136	2.1	150	2.1	9.2	--	362	2.15
373819081233801 - 005.0 MARSH FORK AT MABEN, W. VA. (LAT 37 38 19 LONG 081 23 38.01)										
SEP , 1975										
15...	56	0	46	.4	6.6	13	--	--	84	.09
MAY , 1976										
26...	--	0	0	--	7.6	8.2	6.0	--	41	.10
373455081225501 - 006.0 SLAB FORK AT MULLENS, W. VA. (LAT 37 34 55 LONG 081 22 55.01)										
SEP , 1975										
15...	234	0	192	.6	200	4.8	--	--	494	8.27
MAY , 1976										
24...	118	0	97	.8	120	5.9	7.0	--	286	18.5
373123081220201 - 007.0 GOONEY OTTER CREEK NEAR HERNDON, W. VA. (LAT 37 31 23 LONG 081 22 02.01)										
SEP , 1975										
15...	162	0	133	.8	63	6.9	--	--	200	1.94
MAY , 1976										
24...	83	0	68	.7	40	3.6	7.5	--	136	9.91
373322081240301 - 008.0 BARKERS CREEK AT TRALEE, W. VA. (LAT 37 33 22 LONG 081 24 03.01)										
SEP , 1975										
15...	319	0	262	2.0	120	3.7	--	--	454	9.07
30...	205	--	168	4.1	--	--	--	335	--	19.0
MAY , 1976										
24...	164	0	135	1.3	57	3.5	7.5	--	235	23.5
373449081260201 - 009.0 STILL RUN AT ITMANN, W. VA. (LAT 37 34 49 LONG 081 26 02.01)										
SEP , 1975										
16...	77	0	63	1.6	100	1.6	--	--	213	.33
MAY , 1976										
24...	39	0	32	.5	57	1.0	6.5	--	118	.76

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL HYDRO- LYZABLE PHOS- PHORUS (P) (MG/L)
373549081191401 - 001.0 DEVILS FORK AT AMIGO, W. VA. (LAT 37 35 49 LONG 081 19 14.01)										
SEP , 1975										
15...	--	.07	.00	--	--	--	--	--	.01	--
MAY , 1976										
24...	--	.17	.00	--	--	--	--	--	.00	--
373809081185101 - 002.0 WINDING GULF AT HELEN, W. VA. (LAT 37 38 09 LONG 081 18 51.01)										
SEP , 1975										
15...	--	.19	.00	--	--	--	--	--	.02	--
MAY , 1976										
24...	--	.12	.01	--	--	--	--	--	.00	--
373609081191801 - 003.0 STONECOAL CREEK AT AMIGO, W. VA. (LAT 37 36 09 LONG 081 19 18.01)										
SEP , 1975										
15...	--	.26	.01	--	--	--	--	--	.01	--
MAY , 1976										
24...	--	.40	.01	--	--	--	--	--	.00	--
373527081205401 - 004.0 ALLEN CREEK AT ALLEN JUNCTION, W. VA. (LAT 37 35 27 LONG 081 20 54.01)										
SEP , 1975										
15...	--	.42	.12	--	--	--	--	--	.01	--
MAY , 1976										
24...	--	.07	.01	--	--	--	--	--	.01	--
373819081233801 - 005.0 MARSH FORK AT MABEN, W. VA. (LAT 37 38 19 LONG 081 23 38.01)										
SEP , 1975										
15...	--	.08	.00	--	--	--	--	--	.01	--
MAY , 1976										
26...	--	.10	.01	--	--	--	--	--	.00	--
373455081225501 - 006.0 SLAB FORK AT MULLENS, W. VA. (LAT 37 34 55 LONG 081 22 55.01)										
SEP , 1975										
15...	--	.01	.00	--	--	--	--	--	.01	--
MAY , 1976										
24...	--	.10	.00	--	--	--	--	--	.01	--
373123081220201 - 007.0 GOONEY OTTER CREEK NEAR HERNDON, W. VA. (LAT 37 31 23 LONG 081 22 02.01)										
SEP , 1975										
15...	--	.46	.03	--	--	--	--	--	.04	--
MAY , 1976										
24...	--	.19	.00	--	--	--	--	--	.01	--
373322081240301 - 008.0 BARKERS CREEK AT TRALEE, W. VA. (LAT 37 33 22 LONG 081 24 03.01)										
SEP , 1975										
15...	--	.24	.01	--	--	--	--	--	.01	--
30...	4	--	--	.01	.36	.37	.04	.02	--	.01
MAY , 1976										
24...	--	.24	.01	--	--	--	--	--	.00	--
373449081260201 - 009.0 STILL RUN AT ITHANN, W. VA. (LAT 37 34 49 LONG 081 26 02.01)										
SEP , 1975										
16...	--	.06	.00	--	--	--	--	--	.02	--
MAY , 1976										
24...	--	.12	.00	--	--	--	--	--	.00	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
373549081191401 - 001.0 DEVILS FORK AT AMIGO, W. VA. (LAT 37 35 49 LONG 081 19 14.01)										
SEP , 1975										
15...	--	--	30	370	120	330	330	--	5	--
MAY , 1976										
24...	--	--	50	400	110	30	40	--	10	.05
373809081185101 - 002.0 WINDING GULF AT HELEN, W. VA. (LAT 37 38 09 LONG 081 18 51.01)										
SEP , 1975										
15...	--	--	210	670	10	180	170	--	--	--
MAY , 1976										
24...	--	--	150	430	100	130	120	--	--	--
373609081191801 - 003.0 STONECOAL CREEK AT AMIGO, W. VA. (LAT 37 36 09 LONG 081 19 18.01)										
SEP , 1975										
15...	--	--	140	570	10	110	90	--	--	--
MAY , 1976										
24...	--	--	100	490	60	140	120	--	--	--
373527081205401 - 004.0 ALLEN CREEK AT ALLEN JUNCTION, W. VA. (LAT 37 35 27 LONG 081 20 54.01)										
SEP , 1975										
15...	--	--	40	1200	20	990	990	--	65	--
MAY , 1976										
24...	--	--	50	1600	60	690	650	--	17	.10
373819081233801 - 005.0 MARSH FORK AT MABEN, W. VA. (LAT 37 38 19 LONG 081 23 38.01)										
SEP , 1975										
15...	--	--	30	640	290	40	40	--	--	--
MAY , 1976										
26...	--	--	30	320	230	20	30	--	--	--
373455081225501 - 006.0 SLAB FORK AT MULLENS, W. VA. (LAT 37 34 55 LONG 081 22 55.01)										
SEP , 1975										
15...	--	--	380	650	10	40	10	--	9	--
MAY , 1976										
24...	--	--	240	770	530	200	190	--	6	.39
373123081220201 - 007.0 GOONEY OTTER CREEK NEAR HERNDON, W. VA. (LAT 37 31 23 LONG 081 22 02.01)										
SEP , 1975										
15...	--	--	50	830	30	60	30	--	--	--
MAY , 1976										
24...	--	--	80	480	80	40	20	--	--	--
373322081240301 - 008.0 BARKERS CREEK AT TRALEE, W. VA. (LAT 37 33 22 LONG 081 24 03.01)										
SEP , 1975										
15...	--	--	50	940	80	150	130	--	19	--
30...	.01	--	--	510	130	--	--	4.6	9	--
MAY , 1976										
24...	--	--	90	610	220	80	60	--	15	1.5
373449081260201 - 009.0 STILL RUN AT ITMANN, W. VA. (LAT 37 34 49 LONG 081 26 02.01)										
SEP , 1975										
16...	--	--	40	610	100	50	40	--	11	--
MAY , 1976										
24...	--	--	40	610	80	120	110	--	12	.08

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
373423081274401 - 009.1 CABIN CR AT JOE BRANCH W VA (LAT 37 34 23 LONG 081 27 44.01)										
SEP , 1975										
16...	1030	1.6	420	8.3	14.5	2	9.0	--	140	320
30...	1300	2.8	210	7.7	15.5	6	10.3	2.4	20	120
MAY , 1976										
26...	0830	2.8	260	8.0	11.0	2	10.5	--	40	0
373242081285701 - 010.0 PINNACLE CREEK NEAR NEW RICHMOND, W. VA. (LAT 37 32 42 LONG 081 28 57.01)										
SEP , 1975										
16...	1215	15	580	8.6	15.0	2	11.0	--	17	220
MAY , 1976										
25...	1545	28	480	8.3	17.0	1	9.0	--	100	0
373455081321401 - 012.0 GUYANDOTTE RIVER AT PINEVILLE, W. VA. (LAT 37 34 55 LONG 081 32 14.01)										
SEP , 1975										
16...	1300	50	540	8.4	17.5	30	9.6	--	860	220
MAY , 1976										
26...	0715	160	460	6.8	16.0	4	10.6	--	2300	--
373459081321501 - 013.0 ROCKCASTLE CREEK AT PINEVILLE, W. VA. (LAT 37 34 59 LONG 081 32 15.01)										
SEP , 1975										
16...	1330	.94	180	8.1	17.0	2	9.1	--	2900	420
MAY , 1976										
26...	0800	3.5	120	7.7	12.0	2	11.2	--	2000	2800
373616081384001 - 015.0 DOUBLECAMP BRANCH NR BAILEYSVILLE, W. VA. (LAT 37 36 16 LONG 081 38 40.01)										
SEP , 1975										
17...	1150	.08	240	7.7	17.0	3	9.5	--	1100	1000
MAY , 1976										
25...	0800	1.0	280	6.8	14.5	1	11.5	--	24000	0
373357081390901 - 016.0 BRIER CR AT FANROCK W VA (LAT 37 33 57 LONG 081 39 09.01)										
SEP , 1975										
17...	1230	.44	230	8.6	17.5	6	10.7	--	2100	1300
MAY , 1976										
25...	0900	1.2	200	7.8	14.0	3	11.5	--	24000	1200
374246081353101 - 018.0 CLEAR FORK AT TONEY FORK, W. VA. (LAT 37 42 46 LONG 081 35 31.01)										
SEP , 1975										
16...	1815	6.9	750	4.8	18.0	3	8.5	--	40	40
MAY , 1976										
25...	1330	10	850	6.2	18.0	1	9.8	--	180	0
374246081355001 - 019.0 TONEY FORK AT TONEY FORK, W. VA. (LAT 37 42 46 LONG 081 35 50.01)										
SEP , 1975										
16...	1845	.96	900	7.1	18.5	2	9.0	--	30000	8500
MAY , 1976										
25...	1250	2.6	750	7.8	17.5	1	10.0	--	7500	400
374242081271101 - 020.0 LAUREL FORK NEAR GLEN ROGERS, W. VA. (LAT 37 42 42 LONG 081 27 11.01)										
SEP , 1975										
16...	1600	.98	420	7.8	18.0	3	10.9	--	120	100
MAY , 1976										
26...	1130	2.1	980	5.1	13.0	55	9.8	--	0	0

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
373423081274401 - 009.1 CABIN CR AT JOE BRANCH W VA (LAT 37 34 23 LONG 081 27 44.01)										
SEP , 1975										
16...	72	0	--	--	19	6.0	76	69	3.9	2.7
30...	--	--	.0	.0	--	--	--	--	--	--
MAY , 1976										
26...	40	0	--	--	9.9	3.8	34	64	2.3	1.7
373242081285701 - 010.0 PINNACLE CREEK NEAR NEW RICHMOND, W. VA. (LAT 37 32 42 LONG 081 28 57.01)										
SEP , 1975										
16...	94	0	--	--	23	8.9	130	74	5.8	2.3
MAY , 1976										
25...	89	0	--	--	22	8.3	65	61	3.0	2.4
373455081321401 - 012.0 GUYANDOTTE RIVER AT PINEVILLE, W. VA. (LAT 37 34 55 LONG 081 32 14.01)										
SEP , 1975										
16...	120	0	--	--	28	11	92	63	3.7	3.3
MAY , 1976										
26...	88	0	--	--	21	8.6	61	59	2.8	2.4
373459081321501 - 013.0 ROCKCASTLE CREEK AT PINEVILLE, W. VA. (LAT 37 34 59 LONG 081 32 15.01)										
SEP , 1975										
16...	77	25	--	--	26	3.0	18	33	.9	2.5
MAY , 1976										
26...	27	0	--	--	7.0	2.3	7.3	36	.6	1.5
373616081384001 - 015.0 DOUBLECAMP BRANCH NR BAILEYSVILLE, W. VA. (LAT 37 36 16 LONG 081 38 40.01)										
SEP , 1975										
17...	110	95	--	--	22	13	5.4	9	.2	3.0
MAY , 1976										
25...	110	91	--	--	22	13	7.0	12	.3	2.7
373357081390901 - 016.0 BRIER CR AT FANROCK W VA (LAT 37 33 57 LONG 081 39 09.01)										
SEP , 1975										
17...	68	0	--	--	18	5.5	29	47	1.5	2.4
MAY , 1976										
25...	44	0	--	--	11	4.0	21	50	1.4	1.7
374246081353101 - 018.0 CLEAR FORK AT TONEY FORK, W. VA. (LAT 37 42 46 LONG 081 35 31.01)										
SEP , 1975										
16...	480	480	--	--	100	56	16	7	.3	3.1
MAY , 1976										
25...	390	390	--	--	76	49	16	8	.4	3.3
374246081355001 - 019.0 TONEY FORK AT TONEY FORK, W. VA. (LAT 37 42 46 LONG 081 35 50.01)										
SEP , 1975										
16...	540	530	--	--	84	80	34	12	.6	15
MAY , 1976										
25...	300	280	--	--	41	47	22	13	.6	11
374242081271101 - 020.0 LAUREL FORK NEAR GLEN ROGERS, W. VA. (LAT 37 42 42 LONG 081 27 11.01)										
SEP , 1975										
16...	150	69	--	--	29	20	43	37	1.5	4.0
MAY , 1976										
26...	330	330	--	--	68	39	38	20	.9	4.0

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS (AC03) (MG/L)	CARBON DIOXIDE (CO ₂) (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SILICA (SI0 ₂) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)
373423081274401 - 009.1 CABIN CR AT JOE BRANCH W VA (LAT 37 34 23 LONG 081 27 44.01)										
SEP , 1975										
16...	119	0	98	1.0	120	5.8	--	--	354	1.53
30...	62	--	51	2.0	--	--	--	127	--	.96
MAY , 1976										
26...	58	0	48	.9	63	2.9	5.7	--	150	1.13
373242081285701 - 010.0 PINNACLE CREEK NEAR NEW RICHMOND, W. VA. (LAT 37 32 42 LONG 081 28 57.01)										
SEP , 1975										
16...	344	0	282	1.4	87	2.0	--	--	428	17.3
MAY , 1976										
25...	211	0	173	1.7	62	1.9	7.3	--	274	20.7
373455081321401 - 012.0 GUYANDOTTE RIVER AT PINEVILLE, W. VA. (LAT 37 34 55 LONG 081 32 14.01)										
SEP , 1975										
16...	208	0	171	1.3	140	4.5	--	--	390	52.6
MAY , 1976										
26...	158	0	130	40	92	4.0	6.8	--	275	119
373459081321501 - 013.0 ROCKCASTLE CREEK AT PINEVILLE, W. VA. (LAT 37 34 59 LONG 081 32 15.01)										
SEP , 1975										
16...	64	0	53	.8	12	12	--	--	109	.28
MAY , 1976										
26...	38	0	31	1.2	8.6	6.4	3.8	--	56	.53
373616081384001 - 015.0 DOUBLECAMP BRANCH NR BAILEYSVILLE, W. VA. (LAT 37 36 16 LONG 081 38 40.01)										
SEP , 1975										
17...	17	0	14	.5	110	1.2	--	--	171	.04
MAY , 1976										
25...	21	0	17	5.3	95	6.1	7.8	--	166	.45
373357081390901 - 016.0 BRIER CR AT FANROCK W VA (LAT 37 33 57 LONG 081 39 09.01)										
SEP , 1975										
17...	124	0	102	.5	22	2.6	--	--	149	.18
MAY , 1976										
25...	87	0	71	2.2	20	2.3	7.3	--	111	.36
374246081353101 - 018.0 CLEAR FORK AT TONEY FORK, W. VA. (LAT 37 42 46 LONG 081 35 31.01)										
SEP , 1975										
16...	1	0	1	25	500	2.0	--	--	690	12.9
MAY , 1976										
25...	4	0	3	4.0	420	2.5	12	--	585	15.8
374246081355001 - 019.0 TONEY FORK AT TONEY FORK, W. VA. (LAT 37 42 46 LONG 081 35 50.01)										
SEP , 1975										
16...	17	0	14	2.2	590	9.3	--	--	836	2.17
MAY , 1976										
25...	15	0	12	.4	320	10	11	--	473	3.32
374242081271101 - 020.0 LAUREL FORK NEAR GLEN ROGERS, W. VA. (LAT 37 42 42 LONG 081 27 11.01)										
SEP , 1975										
16...	105	0	86	2.7	130	17	--	--	311	.82
MAY , 1976										
26...	--	0	0	--	470	12	13	--	682	3.87

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL HYDRO- LYZABLE PHOS- PHORUS (P) (MG/L)
373423081274401 - 009.1 CABIN CR AT JOE BRANCH W VA (LAT 37 34 23 LONG 081 27 44.01)										
SEP , 1975										
16...	--	.10	.00	--	--	--	--	--	.01	--
30...	2	--	--	.01	.29	.30	.01	.01	--	.00
MAY , 1976										
26...	--	.13	.00	--	--	--	--	--	.00	--
373242081285701 - 010.0 PINNACLE CREEK NEAR NEW RICHMOND, W. VA. (LAT 37 32 42 LONG 081 28 57.01)										
SEP , 1975										
16...	--	.04	.00	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.11	.00	--	--	--	--	--	.00	--
373455081321401 - 012.0 GUYANDOTTE RIVER AT PINEVILLE, W. VA. (LAT 37 34 55 LONG 081 32 14.01)										
SEP , 1975										
16...	--	.29	.00	--	--	--	--	--	.01	--
MAY , 1976										
26...	--	.25	.01	--	--	--	--	--	.04	--
373459081321501 - 013.0 ROCKCASTLE CREEK AT PINEVILLE, W. VA. (LAT 37 34 59 LONG 081 32 15.01)										
SEP , 1975										
16...	--	.08	.00	--	--	--	--	--	.02	--
MAY , 1976										
26...	--	.07	.01	--	--	--	--	--	.01	--
373616081384001 - 015.0 DOUBLECAMP BRANCH NR BAILEYSVILLE, W. VA. (LAT 37 36 16 LONG 081 38 40.01)										
SEP , 1975										
17...	--	.08	.00	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.15	.01	--	--	--	--	--	.28	--
373357081390901 - 016.0 BRIER CR AT FANROCK W VA (LAT 37 33 57 LONG 081 39 09.01)										
SEP , 1975										
17...	--	.05	.01	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.17	.01	--	--	--	--	--	.02	--
374246081353101 - 018.0 CLEAR FORK AT TONEY FORK, W. VA. (LAT 37 42 46 LONG 081 35 31.01)										
SEP , 1975										
16...	--	.19	.00	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.24	.00	--	--	--	--	--	.01	--
374246081355001 - 019.0 TONEY FORK AT TONEY FORK, W. VA. (LAT 37 42 46 LONG 081 35 50.01)										
SEP , 1975										
16...	--	1.2	.14	--	--	--	--	--	.04	--
MAY , 1976										
25...	--	.54	.03	--	--	--	--	--	.05	--
374242081271101 - 020.0 LAUREL FORK NEAR GLEN ROGERS, W. VA. (LAT 37 42 42 LONG 081 27 11.01)										
SEP , 1975										
16...	--	.87	.01	--	--	--	--	--	.02	--
MAY , 1976										
26...	--	.29	.03	--	--	--	--	--	.01	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
373423081274401 - 009.1 CABIN CR AT JOE BRANCH W VA (LAT 37 34 23 LONG 081 27 44.01)										
SEP , 1975										
16...	--	--	30	240	30	20	10	--	--	--
30...	.00	--	--	550	110	--	--	5.6	7	--
MAY , 1976										
26...	--	--	20	310	150	20	20	--	--	--
373242081285701 - 010.0 PINNACLE CREEK NEAR NEW RICHMOND, W. VA. (LAT 37 32 42 LONG 081 28 57.01)										
SEP , 1975										
16...	--	--	40	240	20	20	10	--	--	--
MAY , 1976										
25...	--	--	30	200	50	10	10	--	--	--
373455081321401 - 012.0 GUYANDOTTE RIVER AT PINEVILLE, W. VA. (LAT 37 34 55 LONG 081 32 14.01)										
SEP , 1975										
16...	--	--	100	1800	40	90	14000	--	--	--
MAY , 1976										
26...	--	--	70	560	70	90	60	--	--	--
373459081321501 - 013.0 ROCKCASTLE CREEK AT PINEVILLE, W. VA. (LAT 37 34 59 LONG 081 32 15.01)										
SEP , 1975										
16...	--	--	40	520	70	70	40	--	13	--
MAY , 1976										
26...	--	--	30	430	160	60	50	--	11	.10
373616081384001 - 015.0 DOUBLECAMP BRANCH NR BAILEYSVILLE, W. VA. (LAT 37 36 16 LONG 081 38 40.01)										
SEP , 1975										
17...	--	--	30	430	10	60	50	--	12	--
MAY , 1976										
25...	--	--	30	160	40	90	80	--	8	.02
373357081390901 - 016.0 BRIER CR AT FANROCK W VA (LAT 37 33 57 LONG 081 39 09.01)										
SEP , 1975										
17...	--	--	50	940	80	100	80	--	--	--
MAY , 1976										
25...	--	--	30	630	230	90	80	--	--	--
374246081353101 - 018.0 CLEAR FORK AT TONEY FORK, W. VA. (LAT 37 42 46 LONG 081 35 31.01)										
SEP , 1975										
16...	--	--	3400	670	250	3000	3000	--	--	--
MAY , 1976										
25...	--	--	450	780	430	2000	1900	--	--	--
374246081355001 - 019.0 TONEY FORK AT TONEY FORK, W. VA. (LAT 37 42 46 LONG 081 35 50.01)										
SEP , 1975										
16...	--	--	50	240	30	1800	1700	--	--	--
MAY , 1976										
25...	--	--	50	220	50	880	890	--	--	--
374242081271101 - 020.0 LAUREL FORK NEAR GLEN ROGERS, W. VA. (LAT 37 42 42 LONG 081 27 11.01)										
SEP , 1975										
16...	--	--	40	510	10	240	240	--	--	--
MAY , 1976										
26...	--	--	6800	31000	27000	3000	2900	--	--	--

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
374242081271601 - 021.0 TROUGH FORK NEAR GLEN ROGERS, W. VA. (LAT 37 42 42 LONG 081 27 16.01)										
SEP , 1975										
16...	1430	1.1	850	5.2	17.5	50	8.7	--	0	40
MAY , 1976										
26...	1100	3.2	320	6.8	12.5	3	9.2	--	3300	18000
374028081280401 - 022.0 MILAM FORK AT MCGRAWS, W. VA. (LAT 37 40 28 LONG 081 28 04.01)										
SEP , 1975										
16...	1515	.36	440	7.3	17.0	20	7.0	--	7200	5700
MAY , 1976										
26...	1015	1.5	270	8.0	12.0	5	8.0	--	15600	48000
374128081372401 - 023.0 LAUREL FORK AT OCEANA, W. VA. (LAT 37 41 28 LONG 081 37 24.01)										
SEP , 1975										
16...	1715	5.7	310	7.5	18.0	10	9.0	--	5800	340
MAY , 1976										
25...	1130	18	240	8.0	17.0	3	9.0	--	1200	1200
374153081381801 - 024.0 CLEAR FORK AT OCEANA, W. VA. (LAT 37 41 53 LONG 081 38 18.01)										
SEP , 1975										
17...	0930	15	570	7.6	16.0	3	7.8	--	120	80
MAY , 1976										
25...	1045	30	460	7.8	16.5	2	10.5	--	4800	400
373702081472401 - 026.0 BIG CUB CREEK NEAR CUB CITY, W. VA. (LAT 37 37 02 LONG 081 47 24.01)										
SEP , 1975										
17...	1400	1.1	360	8.2	18.0	3	11.0	--	200	500
OCT										
01...	1000	2.1	380	7.8	16.0	4	11.2	--	3000	120
MAY , 1976										
25...	1045	3.1	370	7.7	16.5	2	13.3	--	240	200
373648081482301 - 027.0 LEATHERWOOD CREEK NEAR CUB CITY, W. VA. (LAT 37 36 48 LONG 081 48 23.01)										
SEP , 1975										
17...	1445	.08	200	8.2	18.5	9	10.5	--	120	1300
MAY , 1976										
25...	1115	.53	180	7.9	18.0	2	12.8	--	500	100
373303081470901 - 028.0 LITTLE HUFF CREEK NEAR HANOVER, W. VA. (LAT 37 33 03 LONG 081 47 09.01)										
SEP , 1975										
17...	1630	2.5	270	6.9	18.5	--	11.0	--	1100	540
MAY , 1976										
25...	0945	3.2	270	7.5	15.5	1	11.6	--	160	220
373257081473601 - 029.0 MUZZLE CREEK NEAR HANOVER, W. VA. (LAT 37 32 57 LONG 081 47 36.01)										
SEP , 1975										
17...	1600	.38	560	6.7	19.5	6	10.5	--	2700	23800
MAY , 1976										
25...	0915	.87	410	7.0	14.0	3	8.1	--	18000	5800
373450081493301 - 030.0 LITTLE CUB CREEK NEAR JUSTICE, W. VA. (LAT 37 34 50 LONG 081 49 33.01)										
SEP , 1975										
17...	1700	.17	170	6.9	19.0	7	10.5	--	2100	1000
MAY , 1976										
25...	--	.68	145	7.8	19.0	4	11.6	--	1900	200

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NES- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
374242081271601 - 021.0 TROUGH FORK NEAR GLEN ROGERS, W. VA. (LAT 37 42 42 LONG 081 27 16.01)										
SEP , 1975										
16...	430	430	--	--	92	48	58	23	1.2	3.8
MAY , 1976										
26...	80	32	--	--	16	9.8	22	36	1.1	2.6
374028081280401 - 022.0 MILAM FORK AT MCGRAWS, W. VA. (LAT 37 40 28 LONG 081 28 04.01)										
SEP , 1975										
16...	51	0	--	--	14	4.0	96	80	5.8	1.8
MAY , 1976										
26...	31	0	--	--	7.6	2.9	40	73	3.1	1.3
374128081372401 - 023.0 LAUREL FORK AT OCEANA, W. VA. (LAT 37 41 28 LONG 081 37 24.01)										
SEP , 1975										
16...	96	59	--	--	22	10	27	37	1.2	2.8
MAY , 1976										
25...	61	28	--	--	14	6.2	18	38	1.0	1.9
374153081381801 - 026.0 CLEAR FORK AT OCEANA, W. VA. (LAT 37 41 53 LONG 081 38 18.01)										
SEP , 1975										
17...	330	310	--	--	68	38	22	13	.5	3.8
MAY , 1976										
25...	170	150	--	--	37	20	17	17	.6	3.4
373702081472401 - 026.0 BIG CUB CREEK NEAR CUB CITY, W. VA. (LAT 37 37 02 LONG 081 47 24.01)										
SEP , 1975										
17...	160	94	--	--	36	16	15	17	.5	4.0
OCT										
01...	--	--	.0	.0	--	--	--	--	--	--
MAY , 1976										
25...	140	89	--	--	30	15	14	18	.5	3.7
373648081482301 - 027.0 LEATHERWOOD CREEK NEAR CUB CITY, W. VA. (LAT 37 36 48 LONG 081 48 23.01)										
SEP , 1975										
17...	62	0	--	--	15	6.0	22	42	1.2	2.4
MAY , 1976										
25...	58	23	--	--	13	6.1	6.9	20	.4	1.9
373303081470901 - 028.0 LITTLE HUFF CREEK NEAR HANOVER, W. VA. (LAT 37 33 03 LONG 081 47 09.01)										
SEP , 1975										
17...	120	97	--	--	27	12	10	15	.4	2.4
MAY , 1976										
25...	93	76	--	--	21	9.8	9.1	17	.4	2.2
373257081473601 - 029.0 MUZZLE CREEK NEAR HANOVER, W. VA. (LAT 37 32 57 LONG 081 47 36.01)										
SEP , 1975										
17...	160	93	--	--	43	13	70	48	2.4	4.3
MAY , 1976										
25...	130	92	--	--	33	12	22	26	.8	3.2
373450081493301 - 030.0 LITTLE CUB CREEK NEAR JUSTICE, W. VA. (LAT 37 34 50 LONG 081 49 33.01)										
SEP , 1975										
17...	67	15	--	--	16	6.6	8.5	21	.5	2.9
MAY , 1976										
25...	41	11	--	--	10	4.0	7.0	26	.5	2.0

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CACO ₃ (MG/L)	CARBON DIOXIDE (CO ₂) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI0 ₂) (MG/L)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
374242081271601 - 021.0 TROUGH FORK NEAR GLEN ROGERS, W. VA. (LAT 37 42 42 LONG 081 27 16.01)										
SEP , 1975										
16...	0	0	0	.0	550	7.6	--	--	769	2.28
MAY , 1976										
26...	59	0	48	15	73	7.5	9.4	--	172	1.49
374028081280401 - 022.0 MILAM FORK AT MCGRAWS, W. VA. (LAT 37 40 28 LONG 081 28 04.01)										
SEP , 1975										
16...	274	0	225	22	7.6	23	--	--	291	.28
MAY , 1976										
26...	120	0	98	1.9	7.9	11	7.4	--	139	.56
374128081372401 - 023.0 LAUREL FORK AT OCEANA, W. VA. (LAT 37 41 28 LONG 081 37 24.01)										
SEP , 1975										
16...	45	0	37	2.3	110	11	--	--	212	3.26
MAY , 1976										
25...	40	0	33	.6	57	7.2	6.3	--	131	6.37
374153081381801 - 024.0 CLEAR FORK AT OCEANA, W. VA. (LAT 37 41 53 LONG 081 38 18.01)										
SEP , 1975										
17...	19	0	16	.8	320	6.6	--	--	476	19.3
MAY , 1976										
25...	27	0	22	.7	170	6.6	8.0	--	277	22.4
373702081472401 - 026.0 BIG CUB CREEK NEAR CUB CITY, W. VA. (LAT 37 37 02 LONG 081 47 24.01)										
SEP , 1975										
17...	75	0	62	.8	130	4.5	--	--	248	.74
OCT										
01...	72	--	59	1.8	--	--	--	277	--	1.57
MAY , 1976										
25...	58	0	48	1.9	110	7.1	6.5	--	216	1.82
373648081482301 - 027.0 LEATHERWOOD CREEK NEAR CUB CITY, W. VA. (LAT 37 36 48 LONG 081 48 23.01)										
SEP , 1975										
17...	79	0	65	.8	20	15	--	--	127	.03
MAY , 1976										
25...	42	0	34	.8	37	5.3	7.6	--	99	.14
373303081470901 - 028.0 LITTLE HUFF CREEK NEAR HANOVER, W. VA. (LAT 37 33 03 LONG 081 47 09.01)										
SEP , 1975										
17...	24	0	20	4.8	110	2.6	--	--	187	1.26
MAY , 1976										
25...	23	0	19	1.2	98	2.2	8.5	--	163	1.41
373257081473601 - 029.0 MUZZLE CREEK NEAR HANOVER, W. VA. (LAT 37 32 57 LONG 081 47 36.01)										
SEP , 1975										
17...	83	0	68	26	120	89	--	--	390	.40
MAY , 1976										
25...	48	0	39	7.7	100	30	9.1	--	237	.56
373450081493301 - 030.0 LITTLE CUB CREEK NEAR JUSTICE, W. VA. (LAT 37 34 50 LONG 081 49 33.01)										
SEP , 1975										
17...	62	0	51	12	25	7.7	--	--	104	.05
MAY , 1976										
25...	37	0	30	.9	18	8.1	7.0	--	76	.14

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL HYDRO- LYZABLE PHOS- PHORUS (P) (MG/L)
374242081271601 - 021.0 TROUGH FORK NEAR GLEN ROGERS, W. VA. (LAT 37 42 42 LONG 081 27 16.01)										
SEP , 1975										
16...	--	.29	.01	--	--	--	--	--	.01	--
MAY , 1976										
26...	--	.55	.01	--	--	--	--	--	.01	--
374028081280401 - 022.0 MILAM FORK AT MCGRAWS, W. VA. (LAT 37 40 28 LONG 081 28 04.01)										
SEP , 1975										
16...	--	.02	.01	--	--	--	--	--	.01	--
MAY , 1976										
26...	--	.11	.01	--	--	--	--	--	.01	--
374128081372401 - 023.0 LAUREL FORK AT OCEANA, W. VA. (LAT 37 41 28 LONG 081 37 24.01)										
SEP , 1975										
16...	--	.37	.01	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.18	.01	--	--	--	--	--	.01	--
374153081381801 - 024.0 CLEAR FORK AT OCEANA, W. VA. (LAT 37 41 53 LONG 081 38 18.01)										
SEP , 1975										
17...	--	.31	.01	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.31	.01	--	--	--	--	--	.01	--
373702081472401 - 026.0 BIG CUB CREEK NEAR CUB CITY, W. VA. (LAT 37 37 02 LONG 081 47 24.01)										
SEP , 1975										
17...	--	.01	.00	--	--	--	--	--	.01	--
OCT										
01...	1	--	--	.00	.08	.08	.01	.01	--	.00
MAY , 1976										
25...	--	.14	.01	--	--	--	--	--	.01	--
373648081482301 - 027.0 LEATHERWOOD CREEK NEAR CUB CITY, W. VA. (LAT 37 36 48 LONG 081 48 23.01)										
SEP , 1975										
17...	--	.00	.01	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.04	.00	--	--	--	--	--	.01	--
373303081470901 - 028.0 LITTLE HUFF CREEK NEAR HANOVER, W. VA. (LAT 37 33 03 LONG 081 47 09.01)										
SEP , 1975										
17...	--	.03	.01	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.09	.01	--	--	--	--	--	.01	--
373257081473601 - 029.0 MUZZLE CREEK NEAR HANOVER, W. VA. (LAT 37 32 57 LONG 081 47 36.01)										
SEP , 1975										
17...	--	.33	.06	--	--	--	--	--	.10	--
MAY , 1976										
25...	--	.76	.06	--	--	--	--	--	.02	--
373450081493301 - 030.0 LITTLE CUB CREEK NEAR JUSTICE, W. VA. (LAT 37 34 50 LONG 081 49 33.01)										
SEP , 1975										
17...	--	.03	.01	--	--	--	--	--	.03	--
MAY , 1976										
25...	--	.19	.01	--	--	--	--	--	.01	--

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
374242081271601 - 021.0 TROUGH FORK NEAR GLEN ROGERS, W. VA. (LAT 37 42 42 LONG 081 27 16.01)										
SEP , 1975										
16...	--	--	860	17000	17000	6300	6200	--	--	--
MAY , 1976										
26...	--	--	40	630	160	280	280	--	--	--
374028081280401 - 022.0 MILAM FORK AT MCGRAWS, W. VA. (LAT 37 40 28 LONG 081 28 04.01)										
SEP , 1975										
16...	--	--	20	5000	2300	520	380	--	--	--
MAY , 1976										
26...	--	--	10	2000	570	170	170	--	--	--
374128081372401 - 023.0 LAUREL FORK AT OCEANA, W. VA. (LAT 37 41 28 LONG 081 37 24.01)										
SEP , 1975										
16...	--	--	40	1100	10	90	70	--	--	--
MAY , 1976										
25...	--	--	20	600	100	80	70	--	--	--
374153081381801 - 024.0 CLEAR FORK AT OCEANA, W. VA. (LAT 37 41 53 LONG 081 38 18.01)										
SEP , 1975										
17...	--	--	50	510	50	1400	150	--	13	--
MAY , 1976										
25...	--	--	30	520	60	600	610	--	--	--
373702081472401 - 026.0 BIG CUB CREEK NEAR CUB CITY, W. VA. (LAT 37 37 02 LONG 081 47 24.01)										
SEP , 1975										
17...	--	--	40	520	20	90	90	--	30	--
OCT										
01...	.00	--	--	300	10	--	--	5.0	2	.01
MAY , 1976										
25...	--	--	20	430	30	70	70	--	6	.05
373648081482301 - 027.0 LEATHERWOOD CREEK NEAR CUB CITY, W. VA. (LAT 37 36 48 LONG 081 48 23.01)										
SEP , 1975										
17...	--	--	40	1600	210	110	90	--	--	--
MAY , 1976										
25...	--	--	20	550	120	50	50	--	--	--
373303081470901 - 028.0 LITTLE HUFF CREEK NEAR HANOVER, W. VA. (LAT 37 33 03 LONG 081 47 09.01)										
SEP , 1975										
17...	--	--	120	570	20	200	200	--	7	--
MAY , 1976										
25...	--	--	30	250	10	230	240	--	4	.03
373257081473601 - 029.0 MUZZLE CREEK NEAR HANOVER, W. VA. (LAT 37 32 57 LONG 081 47 36.01)										
SEP , 1975										
17...	--	--	120	1500	20	310	280	--	--	--
MAY , 1976										
25...	--	--	30	950	30	390	390	--	--	--
373450081493301 - 030.0 LITTLE CUB CREEK NEAR JUSTICE, W. VA. (LAT 37 34 50 LONG 081 49 33.01)										
SEP , 1975										
17...	--	--	60	1100	80	1600	40	--	--	--
MAY , 1976										
25...	--	--	20	970	180	110	110	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
373539081494301 - 031.0 LITTLE HUFF CREEK AT JUSTICE, W. VA. (LAT 37 35 39 LONG 081 49 43.01)										
SEP , 1975										
17...	0930	--	--	--	--	--	--	--	--	--
17...	1730	3.1	280	6.9	19.5	45	11.0	--	1000	830
OCT										
01...	1230	4.5	315	7.5	18.5	4	11.4	2.7	1000	220
MAY , 1976										
25...	1300	6.3	265	8.0	19.5	2	9.5	--	900	80
373711081533601 - 032.0 GILBERT CREEK NEAR GILBERT, W. VA. (LAT 37 37 11 LONG 081 53 36.01)										
SEP , 1975										
17...	0930	.84	470	7.7	15.5	2	8.2	--	160	710
MAY , 1976										
25...	1445	1.6	350	8.8	21.0	1	11.4	--	1500	220
373712081533101 - 033.0 HORSEPEN CREEK NEAR GILBERT, W. VA. (LAT 37 37 12 LONG 081 53 31.01)										
SEP , 1975										
17...	1000	1.6	550	7.6	16.0	3	9.8	--	24	180
MAY , 1976										
25...	1430	2.1	375	8.1	21.0	3	9.5	--	160	140
373638081520801 - 034.0 GILBERT CREEK AT GILBERT, W. VA. (LAT 37 36 38 LONG 081 52 08.01)										
SEP , 1975										
17...	1030	2.6	500	7.7	16.0	2	7.9	--	2800	1500
MAY , 1976										
25...	1400	4.1	360	8.4	20.0	2	13.0	--	2100	660
374034081505001 - 035.0 ELK CREEK AT WYLO, W. VA. (LAT 37 40 34 LONG 081 50 50.01)										
SEP , 1975										
17...	1110	1.6	600	8.0	16.0	3	9.8	--	600	800
OCT										
01...	1430	2.8	415	7.4	18.0	1	9.7	1.4	180	120
MAY , 1976										
25...	1600	3.0	420	8.1	21.5	2	9.5	--	20	160
374127081520901 - 036.0 SANDLICK CREEK AT BRUNO, W. VA. (LAT 37 41 27 LONG 081 52 09.01)										
SEP , 1975										
17...	1130	.32	480	8.6	18.0	1	10.8	--	80	420
MAY , 1976										
25...	1615	.41	370	8.6	21.5	1	11.2	--	100	3000
374345081523901 - 037.0 ROCKHOUSE CREEK AT MAN, W. VA. (LAT 37 43 45 LONG 081 52 39.01)										
SEP , 1975										
16...	1530	1.7	1100	7.2	19.0	30	10.0	--	20	160
MAY , 1976										
26...	1015	2.3	900	6.3	13.0	15	12.6	--	220	100
374346081432601 - 038.0 HUFF CREEK AT CAMPUS, W. VA. (LAT 37 43 46 LONG 081 43 26.01)										
SEP , 1975										
16...	1355	2.5	250	8.5	19.5	1	10.0	--	100	220
MAY , 1976										
25...	1715	4.6	200	8.7	21.0	1	10.6	--	20	100
374350081501601 - 039.0 HUFF CREEK AT MALLORY, W. VA. (LAT 37 43 50 LONG 081 50 16.01)										
SEP , 1975										
16...	1430	3.7	320	8.6	19.5	1	11.3	--	3400	1000
MAY , 1976										
25...	1730	8.2	255	9.1	23.0	2	11.0	--	880	--

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CaCO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
373539081494301 - 031.0 LITTLE HUFF CREEK AT JUSTICE, W. VA. (LAT 37 35 39 LONG 081 49 43.01)										
SEP , 1975										
17...	--	--	--	--	--	--	--	--	--	--
17...	110	71	--	--	26	10	16	24	.7	2.7
OCT										
01...	--	--	.0	.0	--	--	--	--	--	--
MAY , 1976										
25...	86	55	--	--	20	8.7	12	23	.6	2.3
373711081533601 - 032.0 GILBERT CREEK NEAR GILBERT, W. VA. (LAT 37 37 11 LONG 081 53 36.01)										
SEP , 1975										
17...	160	80	--	--	39	15	15	17	.5	3.7
MAY , 1976										
25...	140	89	--	--	33	14	11	14	.4	3.3
373712081533101 - 033.0 HORSEPEN CREEK NEAR GILBERT, W. VA. (LAT 37 37 12 LONG 081 53 31.01)										
SEP , 1975										
17...	170	150	--	--	35	21	14	15	.5	2.9
MAY , 1976										
25...	140	110	--	--	28	16	14	18	.5	2.8
373638081520801 - 034.0 GILBERT CREEK AT GILBERT, W. VA. (LAT 37 36 38 LONG 081 52 08.01)										
SEP , 1975										
17...	160	120	--	--	33	19	15	17	.5	3.1
MAY , 1976										
25...	130	95	--	--	29	15	14	18	.5	3.3
374034081505001 - 035.0 ELK CREEK AT WYLO, W. VA. (LAT 37 40 34 LONG 081 50 50.01)										
SEP , 1975										
17...	200	150	--	--	43	22	13	12	.4	3.7
OCT										
01...	--	--	.0	.0	--	--	--	--	--	--
MAY , 1976										
25...	180	130	--	--	39	19	10	11	.3	3.7
374127081520901 - 036.0 SANDLICK CREEK AT BRUNO, W. VA. (LAT 37 41 27 LONG 081 52 09.01)										
SEP , 1975										
17...	120	78	--	--	27	13	26	31	1.0	2.9
MAY , 1976										
25...	130	96	--	--	28	14	17	22	.7	3.3
374345081523901 - 037.0 ROCKHOUSE CREEK AT MAN, W. VA. (LAT 37 43 45 LONG 081 52 39.01)										
SEP , 1975										
16...	330	320	--	--	76	34	35	18	.8	6.0
MAY , 1976										
26...	360	320	--	--	75	41	39	19	.9	6.2
374346081432601 - 038.0 HUFF CREEK AT CAMPUS, W. VA. (LAT 37 43 46 LONG 081 43 26.01)										
SEP , 1975										
16...	87	51	--	--	20	9.0	7.5	15	.4	2.5
MAY , 1976										
25...	68	38	--	--	16	6.9	6.2	16	.3	2.3
374350081501601 - 039.0 HUFF CREEK AT MALLORY, W. VA. (LAT 37 43 50 LONG 081 50 16.01)										
SEP , 1975										
16...	87	48	--	--	20	9.0	20	33	.9	2.7
MAY , 1976										
25...	78	46	--	--	18	8.0	13	26	.6	2.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	CARBON DIOXIDE (CO ₂) (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)
373539081494301 - 031.0 LITTLE HUFF CREEK AT JUSTICE, W. VA. (LAT 37 35 39 LONG 081 49 43.01)										
SEP , 1975										
17...	--	--	--	--	--	--	--	--	190	--
17...	43	0	35	8.7	94	13	--	--	--	--
OCT										
01...	54	--	44	2.7	--	--	--	88	--	1.07
MAY , 1976										
25...	38	0	31	.6	76	8.8	6.9	--	154	2.62
373711081533601 - 032.0 GILBERT CREEK NEAR GILBERT, W. VA. (LAT 37 37 11 LONG 081 53 36.01)										
SEP , 1975										
17...	97	0	80	3.1	93	12	--	--	231	.52
MAY , 1976										
25...	62	0	51	.2	96	8.5	6.9	--	204	.88
373712081533101 - 033.0 HORSEPEN CREEK NEAR GILBERT, W. VA. (LAT 37 37 12 LONG 081 53 31.01)										
SEP , 1975										
17...	25	0	21	1.0	180	8.6	--	--	280	1.21
MAY , 1976										
25...	33	0	27	.4	130	7.5	5.8	--	221	1.25
373638081520801 - 034.0 GILBERT CREEK AT GILBERT, W. VA. (LAT 37 36 38 LONG 081 52 08.01)										
SEP , 1975										
17...	52	0	43	1.7	140	9.3	--	--	251	1.76
MAY , 1976										
25...	48	0	39	.3	110	7.7	5.8	--	210	2.32
374034081505001 - 035.0 ELK CREEK AT WYLO, W. VA. (LAT 37 40 34 LONG 081 50 50.01)										
SEP , 1975										
17...	64	0	53	1.0	180	1.6	--	--	302	1.30
OCT										
01...	66	--	54	4.2	--	--	--	190	--	1.44
MAY , 1976										
25...	60	0	49	.8	130	2.6	6.8	--	241	1.95
374127081520901 - 036.0 SANDLICK CREEK AT BRUNO, W. VA. (LAT 37 41 27 LONG 081 52 09.01)										
SEP , 1975										
17...	52	0	43	.2	100	24	--	--	201	.17
MAY , 1976										
25...	38	0	31	.2	120	11	6.8	--	221	.24
374345081523901 - 037.0 ROCKHOUSE CREEK AT MAN, W. VA. (LAT 37 43 45 LONG 081 52 39.01)										
SEP , 1975										
16...	6	0	5	.6	380	4.4	--	--	550	2.52
MAY , 1976										
26...	43	0	35	34	400	4.1	9.5	--	600	3.73
374346081432601 - 038.0 HUFF CREEK AT CAMPUS, W. VA. (LAT 37 43 46 LONG 081 43 26.01)										
SEP , 1975										
16...	44	0	36	.2	59	4.2	--	--	128	.86
MAY , 1976										
25...	37	0	30	.1	55	3.2	4.0	--	113	1.40
374350081501601 - 039.0 HUFF CREEK AT MALLORY, W. VA. (LAT 37 43 50 LONG 081 50 16.01)										
SEP , 1975										
16...	48	0	39	.2	72	15	--	--	165	1.65
MAY , 1976										
25...	39	0	32	.0	67	8.9	3.3	--	361	7.99

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL HYDRO- LYZABLE PHOS- PHORUS (P) (MG/L)
373539081494301 - 031.0 LITTLE HUFF CREEK AT JUSTICE, W. VA. (LAT 37 35 39 LONG 081 49 43.01)										
SEP , 1975										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	.07	.01	--	--	--	--	--	.01	--
OCT										
01...	8	--	--	.01	.55	.56	.03	.01	--	.01
MAY , 1976										
25...	--	.14	.01	--	--	--	--	--	.01	--
373711081533601 - 032.0 GILBERT CREEK NEAR GILBERT, W. VA. (LAT 37 37 11 LONG 081 53 36.01)										
SEP , 1975										
17...	--	.02	.01	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.04	.01	--	--	--	--	--	.03	--
373712081533101 - 033.0 HORSEPEN CREEK NEAR GILBERT, W. VA. (LAT 37 37 12 LONG 081 53 31.01)										
SEP , 1975										
17...	--	.15	.01	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.06	.01	--	--	--	--	--	.01	--
373638081520801 - 034.0 GILBERT CREEK AT GILBERT, W. VA. (LAT 37 36 38 LONG 081 52 08.01)										
SEP , 1975										
17...	--	.08	.01	--	--	--	--	--	.06	--
MAY , 1976										
25...	--	.07	.01	--	--	--	--	--	.27	--
374034081505001 - 035.0 ELK CREEK AT WYLO, W. VA. (LAT 37 40 34 LONG 081 50 50.01)										
SEP , 1975										
17...	--	.00	.01	--	--	--	--	--	.01	--
OCT										
01...	1	--	--	.00	.29	.29	.01	.01	--	.00
MAY , 1976										
25...	--	.01	.01	--	--	--	--	--	.02	--
374127081520901 - 036.0 SANDLICK CREEK AT BRUNO, W. VA. (LAT 37 41 27 LONG 081 52 09.01)										
SEP , 1975										
17...	--	.09	.01	--	--	--	--	--	.12	--
MAY , 1976										
25...	--	.43	.01	--	--	--	--	--	.07	--
374345081523901 - 037.0 ROCKHOUSE CREEK AT MAN, W. VA. (LAT 37 43 45 LONG 081 52 39.01)										
SEP , 1975										
16...	--	.55	.01	--	--	--	--	--	.01	--
MAY , 1976										
26...	--	.57	.01	--	--	--	--	--	.01	--
374346081432601 - 038.0 HUFF CREEK AT CAMPUS, W. VA. (LAT 37 43 46 LONG 081 43 26.01)										
SEP , 1975										
16...	--	.02	.01	--	--	--	--	--	.01	--
MAY , 1976										
25...	--	.12	.01	--	--	--	--	--	.01	--
374350081501601 - 039.0 HUFF CREEK AT MALLORY, W. VA. (LAT 37 43 50 LONG 081 50 16.01)										
SEP , 1975										
16...	--	.04	.01	--	--	--	--	--	.06	--
MAY , 1976										
25...	--	.07	.01	--	--	--	--	--	.07	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
373539081494301 - 031.0 LITTLE HUFF CREEK AT JUSTICE, W. VA. (LAT 37 35 39 LONG 081 49 43.01)										
SEP , 1975										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	110	4600	30	160	70	--	--	--
OCT										
01...	.01	--	--	1400	320	--	--	4.8	3	.04
MAY , 1976										
25...	--	--	90	490	40	50	50	--	--	--
373711081533601 - 032.0 GILBERT CREEK NEAR GILBERT, W. VA. (LAT 37 37 11 LONG 081 53 36.01)										
SEP , 1975										
17...	--	--	30	650	80	120	100	--	--	--
MAY , 1976										
25...	--	--	50	630	60	70	60	--	--	--
373712081533101 - 033.0 HORSEPEN CREEK NEAR GILBERT, W. VA. (LAT 37 37 12 LONG 081 53 31.01)										
SEP , 1975										
17...	--	--	60	280	30	760	750	--	--	--
MAY , 1976										
25...	--	--	130	150	30	70	70	--	--	--
373638081520801 - 034.0 GILBERT CREEK AT GILBERT, W. VA. (LAT 37 36 38 LONG 081 52 08.01)										
SEP , 1975										
17...	--	--	70	230	40	120	120	--	--	--
MAY , 1976										
25...	--	--	70	380	40	70	70	--	--	--
374034081505001 - 035.0 ELK CREEK AT WYLO, W. VA. (LAT 37 40 34 LONG 081 50 50.01)										
SEP , 1975										
17...	--	--	70	550	20	40	30	--	6	--
OCT										
01...	.00	--	--	190	40	--	--	3.0	1	.01
MAY , 1976										
25...	--	--	70	250	40	40	30	--	4	.03
374127081520901 - 036.0 SANDLICK CREEK AT BRUNO, W. VA. (LAT 37 41 27 LONG 081 52 09.01)										
SEP , 1975										
17...	--	--	40	130	60	10	0	--	4	--
MAY , 1976										
25...	--	--	50	220	30	10	0	--	--	--
374345081523901 - 037.0 ROCKHOUSE CREEK AT MAN, W. VA. (LAT 37 43 45 LONG 081 52 39.01)										
SEP , 1975										
16...	--	--	50	1700	260	2100	2000	--	--	--
MAY , 1976										
26...	--	--	120	780	10	1400	1300	--	31	.19
374346081432601 - 038.0 HUFF CREEK AT CAMPUS, W. VA. (LAT 37 43 46 LONG 081 43 26.01)										
SEP , 1975										
16...	--	--	130	130	10	10	0	--	--	--
MAY , 1976										
25...	--	--	30	180	20	0	0	--	--	--
374350081501601 - 039.0 HUFF CREEK AT MALLORY, W. VA. (LAT 37 43 50 LONG 081 50 16.01)										
SEP , 1975										
16...	--	--	130	340	40	30	10	--	--	--
MAY , 1976										
25...	--	--	80	280	80	20	10	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
374347081502701 - 040.0 BIG SPRINGS BRANCH AT MALLORY, W. VA. (LAT 37 43 47 LONG 081 50 27.01)										
MAY , 1976										
25...	1800	.06	320	7.8	18.0	1	8.8	--	2000	3000
374348081522201 - 041.0 HUFF CREEK NEAR MAN, W. VA. (LAT 37 43 48 LONG 081 52 22.01)										
SEP , 1975										
16...	1510	4.7	440	7.9	19.0	2	10.8	--	2500	560
OCT										
01...	1030	25	150	8.8	17.0	15	10.0	2.3	560	1600
16...	1220	--	--	--	10.0	--	--	1.5	--	--
MAY , 1976										
26...	1030	8.6	340	7.1	16.0	2	9.2	--	9500	60
374817081420501 - 042.0 BUFFALO CREEK AT PARDEE, W. VA. (LAT 37 48 17 LONG 081 42 05.01)										
SEP , 1975										
16...	1715	2.3	1000	7.2	19.0	8	8.2	--	0	140
MAY , 1976										
26...	1145	4.1	625	6.5	19.0	20	8.6	--	20	0
374822081421001 - 043.0 TONEY FORK AT PARDEE, W. VA. (LAT 37 48 22 LONG 081 42 10.01)										
SEP , 1975										
16...	1740	.28	270	7.8	18.0	1	9.8	--	6500	880
MAY , 1976										
26...	1130	1.6	175	6.9	16.5	1	8.8	--	200	3000
374740081435801 - 044.0 DINGESS BRANCH AT CRANECO, W. VA. (LAT 37 47 40 LONG 081 43 58.01)										
SEP , 1975										
16...	1800	.71	825	8.2	16.0	1	9.4	--	2800	1300
MAY , 1976										
26...	1200	.95	640	7.6	17.0	2	10.8	--	5400	100
374607081501801 - 045.0 BUFFALO CR AT ACCOVILLE, W. VA. (LAT 37 46 07 LONG 081 50 18.01)										
OCT , 1975										
30...	1100	17	650	8.2	11.5	40	11.5	--	6600	540
MAY , 1976										
26...	1300	15	700	7.8	20.0	65	10.8	--	7200	200
374602081500201 - 046.0 RIGHT FORK AT ACCOVILLE, W. VA. (LAT 37 46 02 LONG 081 50 02.01)										
OCT , 1975										
30...	1045	2.7	340	8.8	13.5	1	13.0	--	40	33
MAY , 1976										
26...	1245	3.0	520	8.5	20.0	4	9.4	--	5800	40
374425081523601 - 048.0 GUYANDOTTE RIVER AT MAN, W. VA. (LAT 37 44 25 LONG 081 52 36.01)										
SEP , 1975										
16...	1600	145	700	8.1	19.5	10	9.5	--	1400	180
MAY , 1976										
26...	0930	235	350	7.2	16.5	3	9.0	--	400	0
374606081553601 - 049.0 RICH CR AT EARLING, W. VA. (LAT 37 46 06 LONG 081 55 36.01)										
OCT , 1975										
30...	1130	3.1	520	7.8	13.0	20	11.4	--	100	60
MAY , 1976										
26...	0845	2.1	760	6.5	12.0	9	10.2	--	200	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
374347081502701 - 040.0 BIG SPRINGS BRANCH AT MALLORY, W. VA. (LAT 37 43 47 LONG 081 50 27.01)										
MAY , 1976 25...	94	69	--	--	18	12	20	31	.9	3.2
374348081522201 - 041.0 HUFF CREEK NEAR MAN, W. VA. (LAT 37 43 48 LONG 081 52 22.01)										
SEP , 1975 16...	130	91	--	--	30	14	23	27	.9	3.3
OCT 01...	--	--	.0	.0	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
MAY , 1976 26...	110	77	--	--	24	13	16	23	.7	2.8
374817081420501 - 042.0 BUFFALO CREEK AT PARDEE, W. VA. (LAT 37 48 17 LONG 081 42 05.01)										
SEP , 1975 16...	380	380	--	--	76	47	22	11	.5	5.5
MAY , 1976 26...	250	250	--	--	52	30	19	14	.5	4.6
374822081421001 - 043.0 TONEY FORK AT PARDEE, W. VA. (LAT 37 48 22 LONG 081 42 10.01)										
SEP , 1975 16...	100	81	--	--	25	10	8.1	14	.3	3.9
MAY , 1976 26...	56	38	--	--	13	5.7	5.6	17	.3	2.2
374740081435801 - 044.0 DINGESS BRANCH AT CRANECO, W. VA. (LAT 37 47 40 LONG 081 43 58.01)										
SEP , 1975 16...	220	45	--	--	53	22	76	42	2.2	7.6
MAY , 1976 26...	210	28	--	--	48	22	75	43	2.3	7.2
374607081501801 - 045.0 BUFFALO CR AT ACCOVILLE, W. VA. (LAT 37 46 07 LONG 081 50 18.01)										
OCT , 1975 30...	240	170	--	--	52	26	37	25	1.0	5.0
MAY , 1976 26...	240	140	--	--	50	27	49	31	1.4	5.6
374602081500201 - 046.0 RIGHT FORK AT ACCOVILLE, W. VA. (LAT 37 46 02 LONG 081 50 02.01)										
OCT , 1975 30...	100	27	--	--	26	9.5	28	36	1.2	3.3
MAY , 1976 26...	130	20	--	--	29	15	55	46	2.1	4.1
374425081523601 - 048.0 GUYANDOTTE RIVER AT MAN, W. VA. (LAT 37 44 25 LONG 081 52 36.01)										
SEP , 1975 16...	180	85	--	--	37	21	52	38	1.7	3.6
MAY , 1976 26...	85	19	--	--	19	9.2	31	43	1.5	2.4
374606081553601 - 049.0 RICH CR AT EARLING, W. VA. (LAT 37 46 06 LONG 081 55 36.01)										
OCT , 1975 30...	170	150	--	--	39	17	31	28	1.0	3.5
MAY , 1976 26...	220	190	--	--	47	24	66	39	2.0	5.0

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	CARBON DIOXIDE (CO ₂) (MG/L)	DIS-SOLVED SULFATE (SO ₄) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SILICA (SiO ₂) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)
374347081502701 - 040.0 BIG SPRINGS BRANCH AT MALLORY, W. VA. (LAT 37 43 47 LONG 081 50 27.01)										
MAY , 1976 25...	31	0	25	.8	96	9.6	7.5	--	186	.03
374348081522201 - 041.0 HUFF CREEK NEAR MAN, W. VA. (LAT 37 43 48 LONG 081 52 22.01)										
SEP , 1975 16...	51	0	42	1.0	130	14	--	--	243	3.08
OCT 01...	43	--	35	.1	--	--	--	136	--	9.18
16...	--	--	--	--	--	--	--	--	--	--
MAY , 1976 26...	45	0	37	5.7	99	8.6	2.7	--	189	4.39
374817081420501 - 042.0 BUFFALO CREEK AT PARDEE, W. VA. (LAT 37 48 17 LONG 081 42 05.01)										
SEP , 1975 16...	8	0	7	.8	400	2.6	--	--	572	3.55
MAY , 1976 26...	8	0	7	4.0	280	3.5	12	--	410	4.54
374822081421001 - 043.0 TONEY FORK AT PARDEE, W. VA. (LAT 37 48 22 LONG 081 42 10.01)										
SEP , 1975 16...	28	0	23	.7	87	1.6	--	--	156	.12
MAY , 1976 26...	22	0	18	4.4	47	5.0	5.6	--	96	.41
374740081435801 - 044.0 DINGESS BRANCH AT CRANECO, W. VA. (LAT 37 47 40 LONG 081 43 58.01)										
SEP , 1975 16...	217	0	178	2.2	200	2.8	--	--	484	.93
MAY , 1976 26...	222	0	182	8.9	200	3.9	6.4	--	474	1.22
374607081501801 - 045.0 BUFFALO CR AT ACCOVILLE, W. VA. (LAT 37 46 07 LONG 081 50 18.01)										
OCT , 1975 30...	80	0	66	.8	260	5.3	--	--	435	20.0
MAY , 1976 26...	114	0	94	2.9	240	5.0	5.9	--	442	17.9
374602081500201 - 046.0 RIGHT FORK AT ACCOVILLE, W. VA. (LAT 37 46 02 LONG 081 50 02.01)										
OCT , 1975 30...	94	0	77	.2	92	2.5	--	--	216	1.57
MAY , 1976 26...	137	1	114	.7	140	2.2	4.5	--	320	2.59
374425081523601 - 048.0 GUYANDOTTE RIVER AT MAN, W. VA. (LAT 37 44 25 LONG 081 52 36.01)										
SEP , 1975 16...	114	0	94	1.4	170	8.2	--	--	352	138
MAY , 1976 26...	81	0	66	8.2	87	4.6	3.2	--	197	125
374606081553601 - 049.0 RICH CR AT EARLING, W. VA. (LAT 37 46 06 LONG 081 55 36.01)										
OCT , 1975 30...	16	0	13	.4	210	3.3	--	--	331	2.77
MAY , 1976 26...	34	0	28	17	320	4.7	9.8	--	497	2.82

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL HYDRO- LYZABLE PHOS- PHORUS (P) (MG/L)
374347081502701 - 040.0 BIG SPRINGS BRANCH AT MALLORY, W. VA. (LAT 37 43 47 LONG 081 50 27.01)										
MAY , 1976										
25...	--	.90	.01	--	--	--	--	--	.05	--
374348081522201 - 041.0 HUFF CREEK NEAR MAN, W. VA. (LAT 37 43 48 LONG 081 52 22.01)										
SEP , 1975										
16...	--	.22	.01	--	--	--	--	--	.04	--
OCT										
01...	20	--	--	.02	.36	.38	.05	.02	--	.02
16...	--	--	--	.11	.70	.81	--	--	--	--
MAY , 1976										
26...	--	.08	.01	--	--	--	--	--	.02	--
374817081420501 - 042.0 BUFFALO CREEK AT PARDEE, W. VA. (LAT 37 48 17 LONG 081 42 05.01)										
SEP , 1975										
16...	--	.86	.01	--	--	--	--	--	.01	--
MAY , 1976										
26...	--	.62	.01	--	--	--	--	--	.01	--
374822081421001 - 043.0 TONEY FORK AT PARDEE, W. VA. (LAT 37 48 22 LONG 081 42 10.01)										
SEP , 1975										
16...	--	.46	.01	--	--	--	--	--	.01	--
MAY , 1976										
26...	--	.25	.01	--	--	--	--	--	.01	--
374740081435801 - 044.0 DINGESS BRANCH AT CRANECO, W. VA. (LAT 37 47 40 LONG 081 43 58.01)										
SEP , 1975										
16...	--	.58	.01	--	--	--	--	--	.01	--
MAY , 1976										
26...	--	.45	.01	--	--	--	--	--	.01	--
374607081501801 - 045.0 BUFFALO CR AT ACCOVILLE, W. VA. (LAT 37 46 07 LONG 081 50 18.01)										
OCT , 1975										
30...	--	.84	.02	--	--	--	--	--	.00	--
MAY , 1976										
26...	--	.44	.02	--	--	--	--	--	.01	--
374602081500201 - 046.0 RIGHT FORK AT ACCOVILLE, W. VA. (LAT 37 46 02 LONG 081 50 02.01)										
OCT , 1975										
30...	--	.64	.01	--	--	--	--	--	.15	--
MAY , 1976										
26...	--	.18	.02	--	--	--	--	--	.08	--
374425081523601 - 048.0 GUYANDOTTE RIVER AT MAN, W. VA. (LAT 37 44 25 LONG 081 52 36.01)										
SEP , 1975										
16...	--	.27	.01	--	--	--	--	--	.01	--
MAY , 1976										
26...	--	.13	.01	--	--	--	--	--	.01	--
374606081553601 - 049.0 RICH CR AT EARLING, W. VA. (LAT 37 46 06 LONG 081 55 36.01)										
OCT , 1975										
30...	--	.25	.00	--	--	--	--	--	.00	--
MAY , 1976										
26...	--	.35	.01	--	--	--	--	--	.01	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARRON (C) (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
374347081502701 - 040.0 BIG SPRINGS BRANCH AT MALLORY, W. VA. (LAT 37 43 47 LONG 081 50 27.01)										
MAY , 1976 25...	--	--	30	170	10	10	10	--	--	--
374348081522201 - 041.0 HUFF CREEK NEAR MAN, W. VA. (LAT 37 43 48 LONG 081 52 22.01)										
SEP , 1975 16...	--	--	260	300	30	110	100	--	--	--
OCT 01...	.01	--	--	1100	240	--	--	--	--	--
16...	--	--	--	--	--	--	2.8	--	--	--
MAY , 1976 26...	--	--	110	280	80	60	60	--	8	.19
374817081420501 - 042.0 BUFFALO CREEK AT PARDEE, W. VA. (LAT 37 48 17 LONG 081 42 05.01)										
SEP , 1975 16...	--	--	130	660	230	2500	2500	--	--	--
MAY , 1976 26...	--	--	60	1600	400	1400	1300	--	--	--
374822081421001 - 043.0 TONEY FORK AT PARDEE, W. VA. (LAT 37 48 22 LONG 081 42 10.01)										
SEP , 1975 16...	--	--	40	130	40	10	10	--	--	--
MAY , 1976 26...	--	--	10	80	0	0	0	--	--	--
374740081435801 - 044.0 DINGESS BRANCH AT CRANECO, W. VA. (LAT 37 47 40 LONG 081 43 58.01)										
SEP , 1975 16...	--	--	20	140	10	0	0	--	--	--
MAY , 1976 26...	--	--	20	160	0	10	10	--	--	--
374607081501801 - 045.0 BUFFALO CR AT ACCOVILLE, W. VA. (LAT 37 46 07 LONG 081 50 18.01)										
OCT , 1975 30...	--	--	60	4000	20	950	890	--	111	5.1
MAY , 1976 26...	--	--	180	22000	70	970	530	--	--	--
374602081500201 - 046.0 RIGHT FORK AT ACCOVILLE, W. VA. (LAT 37 46 02 LONG 081 50 02.01)										
OCT , 1975 30...	--	--	100	130	20	10	10	--	1	.01
MAY , 1976 26...	--	--	70	150	10	10	10	--	--	--
374425081523601 - 048.0 GUYANDOTTE RIVER AT MAN, W. VA. (LAT 37 44 25 LONG 081 52 36.01)										
SEP , 1975 16...	--	--	120	860	10	80	60	--	--	--
MAY , 1976 26...	--	--	90	440	30	70	60	--	--	--
374606081553601 - 049.0 RICH CR AT EARLING, W. VA. (LAT 37 46 06 LONG 081 55 36.01)										
OCT , 1975 30...	--	--	30	2500	1500	1000	1000	--	31	.26
MAY , 1976 26...	--	--	30	1700	1200	1100	1100	--	18	.10

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOC- CI (COL- ONIES PER 100 ML)
374848081561001 - 050.0 RUM CR AT DARVEY, W. VA. (LAT 37 48 48 LONG 081 56 10.01)										
SEP , 1975										
30...	1600	--	--	--	--	--	--	--	--	--
30...	1630	9.0	1900	9.0	20.0	30	11.4	4.4	2800	1100
OCT										
30...	1200	14	1200	8.1	14.0	15	11.6	--	1800	420
MAY , 1976										
24...	1730	11	1200	7.9	20.0	3	10.4	--	300	1600
375011081575501 - 051.0 DINGESS RUN AT STOLLINGS, W. VA. (LAT 37 50 11 LONG 081 57 55.01)										
SEP , 1975										
30...	1500	7.4	520	9.5	20.5	5	9.2	4.0	16000	2100
OCT										
30...	1300	14	320	8.2	13.0	7	11.8	--	3100	8900
MAY , 1976										
24...	1700	8.8	360	8.5	24.5	1	11.0	--	8200	2200
374224081592001 - 053.0 ISLAND CREEK AT CRYSTAL BLOCK, W. VA. (LAT 37 42 24 LONG 081 59 20.01)										
SEP , 1975										
15...	1330	1.0	640	8.7	17.0	1	11.4	--	12500	9200
MAY , 1976										
24...	1615	2.2	300	8.2	22.0	1	10.1	--	800	520
374450082001001 - 054.0 COW CREEK AT BARNABUS, W. VA. (LAT 37 44 50 LONG 082 00 10.01)										
SEP , 1975										
15...	1430	1.6	180	7.7	18.0	4	9.2	--	10500	5100
MAY , 1976										
24...	1645	2.3	125	7.8	23.0	3	7.8	--	6600	3900
374524082000101 - 055.0 ISLAND CREEK AT OMAR, W. VA. (LAT 37 45 24 LONG 082 00 01.01)										
SEP , 1975										
15...	1615	9.1	1250	8.0	20.0	1	11.0	--	4400	2040
MAY , 1976										
25...	0845	12	750	7.5	13.5	1	10.4	--	3800	1700
374530082004701 - 056.0 PINE CREEK AT OMAR, W. VA. (LAT 37 45 30 LONG 082 00 47.01)										
SEP , 1975										
15...	1535	.46	1300	7.2	19.5	8	2.8	--	6100	1600
MAY , 1976										
25...	0815	.72	495	6.8	14.0	3	9.7	--	380	220
374553081591401 - 057.0 MIDDLE FORK AT CHAUNCEY, W. VA. (LAT 37 45 53 LONG 081 59 14.01)										
SEP , 1975										
15...	1655	1.1	900	8.0	19.5	1	12.8	--	220	500
MAY , 1976										
25...	0930	1.4	560	7.6	13.5	2	10.2	--	100	40
374601081591901 - 058.0 MILLER BRANCH AT CHAUNCEY, W. VA. (LAT 37 46 01 LONG 081 59 19.01)										
SEP , 1975										
15...	1740	.13	560	7.7	19.0	1	13.5	--	5100	340
MAY , 1976										
25...	1000	.78	380	7.6	16.5	1	10.0	--	320	3500
375041082003601 - 059.0 ISLAND CREEK AT MOUNT GAY, W. VA. (LAT 37 50 41 LONG 082 00 36.01)										
SEP , 1975										
16...	1145	26	2200	7.2	17.0	6	9.4	--	9300	6000
MAY , 1976										
25...	1045	36	1200	7.4	16.5	10	8.4	--	8200	2000

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)
374848081561001 - 050.0 RUM CR AT DABNEY, W. VA. (LAT 37 48 48 LONG 081 56 10.01)										
SEP , 1975										
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	.0	.0	--	--	--	--	--	--
OCT										
30...	180	0	--	--	46	16	200	70	6.5	7.9
MAY , 1976										
24...	180	0	--	--	41	18	170	66	5.6	8.3
375011081575501 - 051.0 DINGESS RUN AT STOLLINGS, W. VA. (LAT 37 50 11 LONG 081 57 55.01)										
SEP , 1975										
30...	--	--	.0	.0	--	--	--	--	--	--
OCT										
30...	99	22	--	--	23	10	21	31	.9	3.6
MAY , 1976										
24...	110	17	--	--	23	12	29	36	1.2	4.5
374224081592001 - 053.0 ISLAND CREEK AT CRYSTAL BLOCK, W. VA. (LAT 37 42 24 LONG 081 59 20.01)										
SEP , 1975										
15...	140	41	--	--	34	14	61	47	2.2	5.2
MAY , 1976										
24...	75	17	--	--	17	8.0	32	47	1.6	2.7
374450082001001 - 054.0 COW CREEK AT BARNABUS, W. VA. (LAT 37 44 50 LONG 082 00 10.01)										
SEP , 1975										
15...	49	5	--	--	14	3.4	13	35	.8	2.6
MAY , 1976										
24...	33	4	--	--	7.9	3.2	9.4	37	.7	1.7
374524082000101 - 055.0 ISLAND CREEK AT OMAR, W. VA. (LAT 37 45 24 LONG 082 00 01.01)										
SEP , 1975										
15...	250	140	--	--	68	20	86	42	2.4	7.5
MAY , 1976										
25...	200	97	--	--	49	20	69	42	2.1	5.4
374530082004701 - 056.0 PINE CREEK AT OMAR, W. VA. (LAT 37 45 30 LONG 082 00 47.01)										
SEP , 1975										
15...	390	360	--	--	80	46	42	19	.9	9.5
MAY , 1976										
25...	300	270	--	--	62	35	32	18	.8	7.5
374553081591401 - 057.0 MIDDLE FORK AT CHAUNCEY, W. VA. (LAT 37 45 53 LONG 081 59 14.01)										
SEP , 1975										
15...	240	150	--	--	56	25	55	33	1.5	4.1
MAY , 1976										
25...	220	110	--	--	52	22	64	38	1.9	4.1
374601081591901 - 058.0 MILLER BRANCH AT CHAUNCEY, W. VA. (LAT 37 46 01 LONG 081 59 19.01)										
SEP , 1975										
15...	160	150	--	--	33	20	33	30	1.1	4.1
MAY , 1976										
25...	140	120	--	--	26	19	30	31	1.1	3.5
375041082003601 - 059.0 ISLAND CREEK AT MOUNT GAY, W. VA. (LAT 37 50 41 LONG 082 00 36.01)										
SEP , 1975										
16...	250	35	--	--	72	16	240	67	6.7	9.2
MAY , 1976										
25...	230	43	--	--	56	23	170	60	4.8	8.1

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	BICARBONATE (HCO ₃) (MG/L)	CARBONATE (CO ₃) (MG/L)	ALKALINITY AS CaCO ₃ (MG/L)	CARBON DIOXIDE (CO ₂) (MG/L)	DIS- SOLVED SULFATE (SO ₄) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	DIS- SOLVED SILICA (SiO ₂) (MG/L)	DIS- SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)
374848081561001 - 050.0 RUM CR AT DABNEY, W. VA. (LAT 37 48 48 LONG 081 56 10.01)										
SEP , 1975										
30...	--	--	--	--	--	--	--	--	--	--
30...	307	--	252	.5	--	--	--	794	774	19.3
OCT										
30...	326	0	267	4.1	290	44	--	--	--	--
MAY , 1976										
24...	292	0	240	5.9	270	39	6.8	--	699	20.8
375011081575501 - 051.0 DINGESS RUN AT STOLLINGS, W. VA. (LAT 37 50 11 LONG 081 57 55.01)										
SEP , 1975										
30...	115	--	94	.1	--	--	--	244	184	4.88
OCT										
30...	93	0	76	.9	69	4.3	--	--	--	--
MAY , 1976										
24...	109	0	89	.6	81	3.9	6.3	--	215	5.11
374224081592001 - 053.0 ISLAND CREEK AT CRYSTAL BLOCK, W. VA. (LAT 37 42 24 LONG 081 59 20.01)										
SEP , 1975										
15...	124	0	102	.4	140	12	--	--	339	.92
MAY , 1976										
24...	71	0	58	.7	77	8.2	6.1	--	187	1.11
374450082001001 - 054.0 COW CREEK AT BARNHUBS, W. VA. (LAT 37 44 50 LONG 082 00 10.01)										
SEP , 1975										
15...	53	0	43	1.7	21	5.8	--	--	--	--
MAY , 1976										
24...	35	0	29	.9	20	4.8	6.8	--	72	.45
374524082000101 - 055.0 ISLAND CREEK AT OMAR, W. VA. (LAT 37 45 24 LONG 082 00 01.01)										
SEP , 1975										
15...	139	0	114	2.2	290	10	--	--	--	--
MAY , 1976										
25...	131	0	107	6.6	220	6.9	7.7	--	444	14.4
374530082004701 - 056.0 PINE CREEK AT OMAR, W. VA. (LAT 37 45 30 LONG 082 00 47.01)										
SEP , 1975										
15...	32	0	26	3.2	430	16	--	--	659	.82
MAY , 1976										
25...	39	0	32	9.9	310	10	14	--	494	.96
374553081591401 - 057.0 MIDDLE FORK AT CHAUNCEY, W. VA. (LAT 37 45 53 LONG 081 59 14.01)										
SEP , 1975										
15...	113	0	93	1.8	240	3.3	--	--	446	1.32
MAY , 1976										
25...	135	0	111	5.4	240	2.4	7.0	--	459	1.74
374601081591901 - 058.0 MILLER BRANCH AT CHAUNCEY, W. VA. (LAT 37 46 01 LONG 081 59 19.01)										
SEP , 1975										
15...	20	0	16	.6	190	5.6	--	--	307	.11
MAY , 1976										
25...	26	0	21	1.0	180	7.6	8.5	--	288	.61
375041082003601 - 059.0 ISLAND CREEK AT MOUNT GAY, W. VA. (LAT 37 50 41 LONG 082 00 36.01)										
SEP , 1975										
16...	257	0	211	26	540	15	--	--	1030	72.3
MAY , 1976										
25...	233	0	191	15	390	12	9.8	--	786	76.4

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL HYDRO- LYZABLE PHOS- PHORUS (P) (MG/L)
374848081561001 - 050.0 RUM CR AT DABNEY, W. VA. (LAT 37 48 48 LONG 081 56 10.01)										
SEP , 1975	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	64	--	--	.17	.57	.74	.09	.03	--	.03
OCT	--	--	--	--	--	--	--	--	--	--
30...	--	.30	.01	--	--	--	--	--	.01	--
MAY , 1976	--	--	--	--	--	--	--	--	--	--
24...	--	.32	.01	--	--	--	--	--	.01	--
375011081575501 - 051.0 DINGESS RUN AT STOLLINGS, W. VA. (LAT 37 50 11 LONG 081 57 55.01)										
SEP , 1975	--	--	--	--	--	--	--	--	--	--
30...	4	--	--	.06	.61	.67	.27	.25	--	.00
OCT	--	--	--	--	--	--	--	--	--	--
30...	--	.28	.01	--	--	--	--	--	.08	--
MAY , 1976	--	--	--	--	--	--	--	--	--	--
24...	--	.24	.02	--	--	--	--	--	.08	--
374224081592001 - 053.0 ISLAND CREEK AT CRYSTAL BLOCK, W. VA. (LAT 37 42 24 LONG 081 59 20.01)										
SEP , 1975	--	--	--	--	--	--	--	--	--	--
15...	--	1.2	.01	--	--	--	--	--	.16	--
MAY , 1976	--	--	--	--	--	--	--	--	--	--
24...	--	.16	.01	--	--	--	--	--	.05	--
374450082001001 - 054.0 COW CREEK AT BARNABUS, W. VA. (LAT 37 44 50 LONG 082 00 10.01)										
SEP , 1975	--	--	--	--	--	--	--	--	--	--
15...	--	.36	.01	--	--	--	--	--	.14	--
MAY , 1976	--	--	--	--	--	--	--	--	--	--
24...	--	.11	.01	--	--	--	--	--	.14	--
374524082000101 - 055.0 ISLAND CREEK AT OMAR, W. VA. (LAT 37 45 24 LONG 082 00 01.01)										
SEP , 1975	--	--	--	--	--	--	--	--	--	--
15...	--	.85	.01	--	--	--	--	--	.06	--
MAY , 1976	--	--	--	--	--	--	--	--	--	--
25...	--	.35	.01	--	--	--	--	--	.05	--
374530082004701 - 056.0 PINE CREEK AT OMAR, W. VA. (LAT 37 45 30 LONG 082 00 47.01)										
SEP , 1975	--	--	--	--	--	--	--	--	--	--
15...	--	1.3	.01	--	--	--	--	--	.01	--
MAY , 1976	--	--	--	--	--	--	--	--	--	--
25...	--	.80	.01	--	--	--	--	--	.01	--
374553081591401 - 057.0 MIDDLE FORK AT CHAUNCEY, W. VA. (LAT 37 45 53 LONG 081 59 14.01)										
SEP , 1975	--	--	--	--	--	--	--	--	--	--
15...	--	.12	.01	--	--	--	--	--	.01	--
MAY , 1976	--	--	--	--	--	--	--	--	--	--
25...	--	.10	.01	--	--	--	--	--	.01	--
374601081591901 - 058.0 MILLER BRANCH AT CHAUNCEY, W. VA. (LAT 37 46 01 LONG 081 59 19.01)										
SEP , 1975	--	--	--	--	--	--	--	--	--	--
15...	--	.40	.01	--	--	--	--	--	.04	--
MAY , 1976	--	--	--	--	--	--	--	--	--	--
25...	--	.14	.01	--	--	--	--	--	.01	--
375041082003601 - 059.0 ISLAND CREEK AT MOUNT GAY, W. VA. (LAT 37 50 41 LONG 082 00 36.01)										
SEP , 1975	--	--	--	--	--	--	--	--	--	--
16...	--	.45	.03	--	--	--	--	--	.01	--
MAY , 1976	--	--	--	--	--	--	--	--	--	--
25...	--	.33	.04	--	--	--	--	--	.01	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TOTAL ORGANIC PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
374848081561001 - 050.0 RUM CR AT DABNEY, W. VA. (LAT 37 48 48 LONG 081 56 10.01)										
SEP , 1975										
30...	--	--	--	--	--	--	--	--	106	--
30...	.03	--	--	3200	10	--	--	6.4	--	--
OCT										
30...	--	--	60	1400	40	60	30	--	87	3.3
MAY , 1976										
24...	--	--	50	550	0	100	90	--	13	.39
375011081575501 - 051.0 DINGESS RUN AT STOLLINGS, W. VA. (LAT 37 50 11 LONG 081 57 55.01)										
SEP , 1975										
30...	.02	--	--	230	70	--	--	3.0	7	--
OCT										
30...	--	--	30	1300	10	40	30	--	14	.53
MAY , 1976										
24...	--	--	30	140	20	0	10	--	19	.45
374224081592001 - 053.0 ISLAND CREEK AT CRYSTAL BLOCK, W. VA. (LAT 37 42 24 LONG 081 59 20.01)										
SEP , 1975										
15...	--	--	40	180	20	10	10	--	--	--
MAY , 1976										
24...	--	--	90	160	30	10	10	--	--	--
374450082001001 - 054.0 COW CREEK AT BARNABUS, W. VA. (LAT 37 44 50 LONG 082 00 10.01)										
SEP , 1975										
15...	--	--	100	750	280	110	100	--	--	--
MAY , 1976										
24...	--	--	90	410	120	30	30	--	--	--
374524082000101 - 055.0 ISLAND CREEK AT OMAR, W. VA. (LAT 37 45 24 LONG 082 00 01.01)										
SEP , 1975										
15...	--	--	70	320	20	70	60	--	--	--
MAY , 1976										
25...	--	--	50	260	20	100	90	--	--	--
374530082004701 - 056.0 PINE CREEK AT OMAR, W. VA. (LAT 37 45 30 LONG 082 00 47.01)										
SEP , 1975										
15...	--	1100	30	1300	950	930	920	--	--	--
MAY , 1976										
25...	--	--	30	690	480	460	470	--	--	--
374553081591401 - 057.0 MIDDLE FORK AT CHAUNCEY, W. VA. (LAT 37 45 53 LONG 081 59 14.01)										
SEP , 1975										
15...	--	--	50	320	50	130	120	--	--	--
MAY , 1976										
25...	--	--	40	500	20	80	60	--	--	--
374601081591901 - 058.0 MILLER BRANCH AT CHAUNCEY, W. VA. (LAT 37 46 01 LONG 081 59 19.01)										
SEP , 1975										
15...	--	--	50	130	10	200	190	--	--	--
MAY , 1976										
25...	--	--	50	250	0	110	110	--	--	--
375041082003601 - 059.0 ISLAND CREEK AT MOUNT GAY, W. VA. (LAT 37 50 41 LONG 082 00 36.01)										
SEP , 1975										
16...	--	--	30	4200	40	700	650	--	--	--
MAY , 1976										
25...	--	--	20	5800	50	560	510	--	23	2.2

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA,MG) (MG/L)
374923082033401 - 060.0 TRACE FORK AT HOLDEN, W. VA. (LAT 37 49 23 LONG 082 03 34.01)										
SEP , 1975										
16...	0825	.08	1800	2.8	14.0	2	--	0	80	710
MAY , 1976										
24...	1200	.26	1100	3.6	24.0	80	9.2	0	240	480
374929082033701 - 061.0 COPPERAS MINE FORK AT HOLDEN, W. VA. (LAT 37 49 29 LONG 082 03 37.01)										
SEP , 1975										
16...	0850	.33	1300	3.5	16.0	45	8.2	0	15200	480
MAY , 1976										
24...	1245	1.2	750	3.6	23.5	10	10.0	20	60	240
374956082020501 - 062.0 COPPERAS MINE F AT WHITMAN JUNCTION, W.VA. (LAT 37 49 56 LONG 082 02 05.01)										
SEP , 1975										
16...	0955	1.5	1900	4.8	15.5	45	9.5	280	1200	450
MAY , 1976										
24...	1345	2.7	810	4.5	22.5	8	11.4	20	60	340
374949082020001 - 063.0 WHITMAN CREEK AT WHITMAN JUNCTION, W. VA. (LAT 37 49 49 LONG 082 02 00.01)										
SEP , 1975										
16...	0920	.90	650	7.0	15.0	2	9.5	2200	4000	180
MAY , 1976										
24...	1315	1.6	400	7.0	22.5	5	10.4	380	48	130
375044082005301 - 064.0 COPPERAS MINE FORK AT MOUNT GAY, W. VA. (LAT 37 50 44 LONG 082 00 53.01)										
SEP , 1975										
16...	1030	3.0	1400	6.4	15.5	20	10.0	1140	3100	300
MAY , 1976										
24...	1500	4.6	660	5.8	23.0	3	10.4	340	100	260
375047082005401 - 065.0 MUD FORK AT MOUNT GAY, W. VA. (LAT 37 50 47 LONG 082 00 54.01)										
SEP , 1975										
16...	1105	2.8	1900	4.0	17.0	6	8.8	0	1100	370
MAY , 1976										
24...	1445	5.5	850	3.7	22.5	3	10.9	100	300	370
375225081590601 - 067.0 PEACH CR AT PEACH CREEK, W. VA. (LAT 37 52 25 LONG 081 59 06.01)										
OCT , 1975										
30...	0900	1.2	600	7.2	5.0	20	11.4	8200	1200	240
MAY , 1976										
24...	1515	.31	560	6.5	22.0	1	8.2	4200	8600	220
375244081590901 - 068.0 CROOKED CR AT CROOKED CREEK, W. VA. (LAT 37 52 44 LONG 081 59 09.01)										
OCT , 1975										
30...	0930	1.9	340	7.6	9.0	1	11.2	--	400	140
MAY , 1976										
24...	1540	1.1	660	7.3	21.0	1	11.0	1800	280	200
375347081594001 - 069.0 BUFFALO CR AT HENLAWSON, W. VA. (LAT 37 53 47 LONG 081 59 40.01)										
OCT , 1975										
30...	1000	1.5	400	4.7	10.0	1	10.6	0	67	180
MAY , 1976										
24...	1400	.93	730	4.4	18.0	1	10.8	0	100	280
375549081584901 - 070.0 MILL CR AT PECKS MILL, W. VA. (LAT 37 55 49 LONG 081 58 49.01)										
OCT , 1975										
30...	1040	.97	250	7.6	10.0	1	11.8	760	680	100
MAY , 1976										
24...	1330	1.1	265	7.8	20.0	2	9.2	280	200	95

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CaCO3 (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORPTION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
374923082033401 - 060.0 TRACE FORK AT HOLDEN, W. VA. (LAT 37 49 23 LONG 082 03 34.01)										
SEP , 1975										
16...	710	13	646	160	76	58	15	.9	5.6	0
MAY , 1976										
24...	480	9.2	457	76	70	42	16	.8	5.7	0
374929082033701 - 061.0 COPPERAS MINE FORK AT HOLDEN, W. VA. (LAT 37 49 29 LONG 082 03 37.01)										
SEP , 1975										
16...	480	3.0	149	120	44	96	30	1.9	8.4	0
MAY , 1976										
24...	240	2.3	114	52	27	44	28	1.2	4.9	0
374956082020501 - 062.0 COPPERAS MINE F AT WHITMAN JUNCTION, W.VA. (LAT 37 49 56 LONG 082 02 05.01)										
SEP , 1975										
16...	450	--	--	100	48	80	28	1.6	6.8	0
MAY , 1976										
24...	340	--	--	78	36	60	27	1.4	6.3	0
374949082020001 - 063.0 WHITMAN CREEK AT WHITMAN JUNCTION, W. VA. (LAT 37 49 49 LONG 082 02 00.01)										
SEP , 1975										
16...	130	--	--	48	15	33	28	1.1	4.3	66
MAY , 1976										
24...	65	--	--	32	13	33	34	1.2	3.6	83
375044082005301 - 064.0 COPPERAS MINE FORK AT MOUNT GAY, W. VA. (LAT 37 50 44 LONG 082 00 53.01)										
SEP , 1975										
16...	290	--	--	80	24	63	31	1.6	6.3	11
MAY , 1976										
24...	240	--	--	58	27	50	29	1.4	5.3	14
375047082005401 - 065.0 MUD FORK AT MOUNT GAY, W. VA. (LAT 37 50 47 LONG 082 00 54.01)										
SEP , 1975										
16...	370	4.0	199	88	36	52	23	1.2	8.9	0
MAY , 1976										
24...	370	2.6	129	78	42	45	21	1.0	7.4	0
375225081590601 - 067.0 PEACH CR AT PEACH CREEK, W. VA. (LAT 37 52 25 LONG 081 59 06.01)										
OCT , 1975										
30...	240	--	--	50	29	13	10	.4	5.2	8
MAY , 1976										
24...	210	--	--	42	28	14	12	.4	5.6	15
375244081590901 - 068.0 CROOKED CR AT CROOKED CREEK, W. VA. (LAT 37 52 44 LONG 081 59 09.01)										
OCT , 1975										
30...	86	--	--	32	15	20	23	.7	3.8	68
MAY , 1976										
24...	140	--	--	44	21	45	32	1.4	6.0	74
375347081594001 - 069.0 BUFFALO CR AT MENLAWSO, W. VA. (LAT 37 53 47 LONG 081 59 40.01)										
OCT , 1975										
30...	180	--	--	39	20	9.5	10	.3	3.4	0
MAY , 1976										
24...	280	.8	40	58	34	23	15	.6	4.6	2
375549081584901 - 070.0 MILL CR AT PECKS MILL, W. VA. (LAT 37 55 49 LONG 081 58 49.01)										
OCT , 1975										
30...	47	--	--	26	8.5	11	19	.5	3.1	64
MAY , 1976										
24...	53	--	--	20	11	9.7	18	.4	2.8	51

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
374923082033401 - 060.0 TRACE FORK AT HOLDEN, W. VA. (LAT 37 49 23 LONG 082 03 34.01)										
SEP , 1975										
16...	0	0	.0	1400	16	--	1751	.38	--	.13
MAY , 1976										
24...	0	0	.0	880	12	31	1210	.85	--	.19
374929082033701 - 061.0 COPPERAS MINE FORK AT HOLDEN, W. VA. (LAT 37 49 29 LONG 082 03 37.01)										
SEP , 1975										
16...	0	0	.0	800	13	--	1097	.98	--	.16
MAY , 1976										
24...	0	0	.0	390	7.4	17	560	1.81	--	.06
374956082020501 - 062.0 COPPERAS MINE F AT WHITMAN JUNCTION, W.VA. (LAT 37 49 56 LONG 082 02 05.01)										
SEP , 1975										
16...	0	0	.0	620	11	--	886	3.59	--	.25
MAY , 1976										
24...	0	0	.0	490	8.8	20	710	5.18	--	.18
374949082020001 - 063.0 WHITMAN CREEK AT WHITMAN JUNCTION, W. VA. (LAT 37 49 49 LONG 082 02 00.01)										
SEP , 1975										
16...	0	54	11	180	5.8	--	331	.80	--	.74
MAY , 1976										
24...	0	68	13	140	3.8	9.1	277	1.20	--	.21
375044082005301 - 064.0 COPPERAS MINE FORK AT MOUNT GAY, W. VA. (LAT 37 50 44 LONG 082 00 53.01)										
SEP , 1975										
16...	0	9	7.0	440	9.3	--	664	5.38	--	.55
MAY , 1976										
24...	0	11	36	350	7.6	13	521	6.47	--	.24
375047082005401 - 065.0 MUD FORK AT MOUNT GAY, W. VA. (LAT 37 50 47 LONG 082 00 54.01)										
SEP , 1975										
16...	0	0	.0	630	12	--	851	6.43	--	.52
MAY , 1976										
24...	0	0	.0	510	8.9	22	733	10.9	--	.34
375225081590601 - 067.0 PEACH CR AT PEACH CREEK, W. VA. (LAT 37 52 25 LONG 081 59 06.01)										
OCT , 1975										
30...	0	7	.8	270	7.4	--	398	1.29	--	1.1
MAY , 1976										
24...	0	12	7.6	240	6.0	15	368	.31	--	2.0
375244081590901 - 068.0 CROOKED CR AT CROOKED CREEK, W. VA. (LAT 37 52 44 LONG 081 59 09.01)										
OCT , 1975										
30...	0	56	2.7	120	8.2	--	244	1.25	--	.53
MAY , 1976										
24...	0	61	5.9	220	12	8.9	396	1.18	--	.42
375347081594001 - 069.0 BUFFALO CR AT HENLAWSON, W. VA. (LAT 37 53 47 LONG 081 59 40.01)										
OCT , 1975										
30...	0	0	.0	230	3.8	--	329	1.33	--	.31
MAY , 1976										
24...	0	2	127	350	3.7	22	505	1.27	--	.43
375549081584901 - 070.0 MILL CR AT PECKS MILL, W. VA. (LAT 37 55 49 LONG 081 58 49.01)										
OCT , 1975										
30...	0	53	2.6	57	2.9	--	155	.41	--	.14
MAY , 1976										
24...	0	42	1.3	69	9.7	8.1	157	.47	--	.14

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
374923082033401 - 060.0 TRACE FORK AT HOLDEN, W. VA. (LAT 37 49 23 LONG 082 03 34.01)										
SEP , 1975										
16...	.00	.01	--	84000	27000	26000	9600	9500	--	--
MAY , 1976										
24...	.02	.01	--	68000	35000	9600	6000	6200	--	--
374929082033701 - 061.0 COPPERAS MINE FORK AT HOLDEN, W. VA. (LAT 37 49 29 LONG 082 03 37.01)										
SEP , 1975										
16...	.01	.01	--	9900	26000	26000	4600	4600	--	--
MAY , 1976										
24...	.01	.02	--	6700	7700	5600	2300	2300	--	--
374956082020501 - 062.0 COPPERAS MINE F AT WHITMAN JUNCTION, W.VA. (LAT 37 49 56 LONG 082 02 05.01)										
SEP , 1975										
16...	.01	.01	--	5100	14000	2500	3200	3100	--	--
MAY , 1976										
24...	.01	.01	--	6400	1700	1000	2300	2300	--	--
374949082020001 - 063.0 WHITMAN CREEK AT WHITMAN JUNCTION, W. VA. (LAT 37 49 49 LONG 082 02 00.01)										
SEP , 1975										
16...	.02	.01	--	60	800	120	510	480	--	--
MAY , 1976										
24...	.01	.02	--	250	2000	110	200	180	--	--
375044082005301 - 064.0 COPPERAS MINE FORK AT MOUNT GAY, W. VA. (LAT 37 50 44 LONG 082 00 53.01)										
SEP , 1975										
16...	.01	.01	2800	50	2700	1700	1900	1900	--	--
MAY , 1976										
24...	.01	.01	--	30	1200	390	1300	1400	--	--
375047082005401 - 065.0 MUD FORK AT MOUNT GAY, W. VA. (LAT 37 50 47 LONG 082 00 54.01)										
SEP , 1975										
16...	.01	.01	16000	14000	3400	1900	4200	4100	--	--
MAY , 1976										
24...	.00	.01	--	11000	1600	1600	2800	2900	--	--
375225081590601 - 067.0 PEACH CR AT PEACH CREEK, W. VA. (LAT 37 52 25 LONG 081 59 06.01)										
OCT , 1975										
30...	.02	.00	--	20	4200	2000	2500	2600	--	--
MAY , 1976										
24...	.02	.04	--	40	200	20	1000	1100	--	--
375244081590901 - 068.0 CROOKED CR AT CROOKED CREEK, W. VA. (LAT 37 52 44 LONG 081 59 09.01)										
OCT , 1975										
30...	.01	.07	--	40	190	50	50	40	2	.01
MAY , 1976										
24...	.06	.24	--	100	130	20	40	30	7	.02
375347081594001 - 069.0 BUFFALO CR AT MENLAWSON, W. VA. (LAT 37 53 47 LONG 081 59 40.01)										
OCT , 1975										
30...	.00	.01	--	3600	390	190	1500	1500	1	.00
MAY , 1976										
24...	.00	.01	--	3900	300	120	1600	1700	30	.08
375549081584901 - 070.0 MILL CR AT PECKS MILL, W. VA. (LAT 37 55 49 LONG 081 58 49.01)										
OCT , 1975										
30...	.01	.01	--	130	260	50	110	110	2	.01
MAY , 1976										
24...	.01	.02	--	220	330	50	100	90	3	.01

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
375809082021801 - 071.0 CRAWLEY CR AT CHAPMANVILLE, W. VA. (LAT 37 58 09 LONG 082 02 18.01)										
OCT , 1975										
30...	1115	5.5	300	7.6	11.0	20	10.8	1900	5600	120
MAY , 1976										
25...	1300	1.8	290	7.5	18.0	5	9.4	200	280	140
375926081590901 - 072.0 TRACE FORK NR CHAPMANVILLE, W. VA. (LAT 37 59 26 LONG 081 59 09.01)										
OCT , 1975										
30...	1230	2.1	240	7.7	12.0	5	11.0	10000	840	110
MAY , 1976										
24...	1045	1.0	275	6.5	17.0	4	9.8	240	400	88
375912081594701 - 073.0 GARRETT FORK NR CHAPMANVILLE, W. VA. (LAT 37 59 12 LONG 081 59 47.01)										
OCT , 1975										
30...	1200	2.6	260	7.7	12.0	4	10.4	2500	700	120
MAY , 1976										
24...	1115	1.2	310	7.5	17.0	3	9.2	360	680	120
380006082002901 - 074.0 NORTH FORK AT BANCO, W. VA. (LAT 38 00 06 LONG 082 00 29.01)										
OCT , 1975										
30...	1300	1.6	240	8.0	14.0	3	11.4	--	320	110
MAY , 1976										
25...	1400	.78	240	7.7	18.5	2	8.2	40	560	97
380016082022801 - 075.0 BIG CR AT BIG CREEK, W. VA. (LAT 38 00 16 LONG 082 02 28.01)										
OCT , 1975										
30...	1330	7.3	245	8.2	15.0	3	10.2	360	67	110
MAY , 1976										
25...	1430	4.0	260	7.4	18.0	1	10.0	80	100	110
375755082082801 - 076.0 BUCK FORK NEAR HARTS, W. VA. (LAT 37 57 55 LONG 082 08 28.01)										
OCT , 1975										
30...	1440	1.7	100	8.2	14.5	30	10.0	3400	2300	34
MAY , 1976										
25...	1800	.29	100	7.7	20.0	3	9.2	60	140	34
375837082082501 - 077.0 BIG HARTS CREEK NEAR HARTS, W. VA. (LAT 37 58 37 LONG 082 08 25.01)										
OCT , 1975										
30...	1510	8.4	90	8.3	14.0	10	9.2	1700	1200	32
MAY , 1976										
25...	1730	1.9	110	7.5	21.5	4	7.9	120	240	36
375840082082301 - 078.0 SMOKEHOUSE FORK NEAR HARTS, W. VA. (LAT 37 58 40 LONG 082 08 23.01)										
OCT , 1975										
30...	1540	4.2	120	8.5	13.5	80	9.2	22000	7900	46
MAY , 1976										
25...	1700	.74	140	7.2	19.5	6	9.7	200	160	45
380112082073101 - 079.0 WEST FORK BIG HARTS CREEK AT HARTS, W. VA. (LAT 38 01 12 LONG 082 07 31.01)										
OCT , 1975										
29...	1215	3.0	100	7.9	17.0	5	10.1	--	500	44
MAY , 1976										
25...	1615	.72	120	7.6	21.5	4	9.6	320	760	44
380133082075301 - 080.0 BIG HARTS CREEK AT HARTS, W. VA. (LAT 38 01 33 LONG 082 07 53.01)										
OCT , 1975										
29...	1130	15	100	7.9	16.0	3	9.3	220	1300	39
MAY , 1976										
25...	1545	4.3	120	7.3	19.5	5	8.2	260	380	39

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CaCO3 (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED PO4-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
375809082021801 - 071.0 CRAWLEY CR AT CHAPMANVILLE, W. VA. (LAT 37 58 09 LONG 082 02 18.01)										
OCT , 1975										
30...	70	--	--	27	12	17	23	.7	3.4	57
MAY , 1976										
25...	79	--	--	30	16	22	25	.8	3.2	75
375926081590901 - 072.0 TRACE FORK NR CHAPMANVILLE, W. VA. (LAT 37 59 26 LONG 081 59 09.01)										
OCT , 1975										
30...	47	--	--	27	10	7.9	13	.3	2.8	75
MAY , 1976										
24...	39	--	--	17	11	10	19	.5	4.4	60
375912081594701 - 073.0 GARRETT FORK NR CHAPMANVILLE, W. VA. (LAT 37 59 12 LONG 081 59 47.01)										
OCT , 1975										
30...	75	--	--	26	13	6.6	11	.3	3.2	53
MAY , 1976										
24...	88	--	--	23	15	7.7	12	.3	3.0	38
380006082002901 - 074.0 NORTH FORK AT BANCO, W. VA. (LAT 38 00 06 LONG 082 00 29.01)										
OCT , 1975										
30...	75	--	--	27	11	6.7	11	.3	2.9	46
MAY , 1976										
25...	67	--	--	19	12	7.3	14	.3	2.3	37
380016082022801 - 075.0 BIG CR AT BIG CREEK, W. VA. (LAT 38 00 16 LONG 082 02 28.01)										
OCT , 1975										
30...	80	--	--	26	12	7.7	12	.3	3.2	42
MAY , 1976										
25...	86	--	--	22	14	9.9	16	.4	2.5	32
375755082082801 - 076.0 BUCK FORK NEAR HARTS, W. VA. (LAT 37 57 55 LONG 082 08 28.01)										
OCT , 1975										
30...	11	--	--	8.5	3.2	3.5	16	.3	3.6	29
MAY , 1976										
25...	9	--	--	6.5	4.3	3.8	19	.3	1.8	30
375837082082501 - 077.0 BIG HARTS CREEK NEAR HARTS, W. VA. (LAT 37 58 37 LONG 082 08 25.01)										
OCT , 1975										
30...	10	--	--	8.0	3.0	3.6	18	.3	2.2	27
MAY , 1976										
25...	11	--	--	7.7	4.0	4.7	21	.3	1.9	30
375840082082301 - 078.0 SMOKEHOUSE FORK NEAR HARTS, W. VA. (LAT 37 58 40 LONG 082 08 23.01)										
OCT , 1975										
30...	11	--	--	11	4.6	5.4	19	.3	3.0	43
MAY , 1976										
25...	4	--	--	9.4	5.3	9.4	30	.6	2.5	50
380112082073101 - 079.0 WEST FORK BIG HARTS CREEK AT HARTS, W. VA. (LAT 38 01 12 LONG 082 07 31.01)										
OCT , 1975										
29...	10	--	--	11	3.9	3.0	12	.2	2.7	41
MAY , 1976										
25...	7	--	--	10	4.6	3.6	14	.2	2.3	45
380133082075301 - 080.0 BIG HARTS CREEK AT HARTS, W. VA. (LAT 38 01 33 LONG 082 07 53.01)										
OCT , 1975										
29...	11	--	--	9.1	3.9	4.5	19	.3	2.6	34
MAY , 1976										
25...	10	--	--	10	3.5	5.9	23	.4	2.2	36

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
375809082021801 - 071.0 CRAWLEY CR AT CHAPMANVILLE, W. VA. (LAT 37 58 09 LONG 082 02 18.01)										
OCT , 1975										
30...	0	47	2.3	98	4.3	--	195	2.90	--	.10
MAY , 1976										
25...	0	62	3.8	120	4.2	5.4	238	1.16	--	.07
375926081590901 - 072.0 TRACE FORK NR CHAPMANVILLE, W. VA. (LAT 37 59 26 LONG 081 59 09.01)										
OCT , 1975										
30...	0	62	2.4	53	7.6	--	150	.85	--	.03
MAY , 1976										
24...	0	49	30	47	13	5.4	138	.37	--	.04
375912081594701 - 073.0 GARRETT FORK NR CHAPMANVILLE, W. VA. (LAT 37 59 12 LONG 081 59 47.01)										
OCT , 1975										
30...	0	43	1.7	75	6.0	--	192	1.35	--	.17
MAY , 1976										
24...	0	31	1.9	96	7.1	8.9	182	.59	--	.37
380006082002901 - 074.0 NORTH FORK AT BANCO, W. VA. (LAT 38 00 06 LONG 082 00 29.01)										
OCT , 1975										
30...	0	38	.7	75	4.5	--	157	.68	--	.07
MAY , 1976										
25...	0	30	1.2	82	4.4	7.1	153	.32	--	.07
380016082022801 - 075.0 BIG CR AT BIG CREEK, W. VA. (LAT 38 00 16 LONG 082 02 28.01)										
OCT , 1975										
30...	0	34	.4	77	5.9	--	161	3.17	--	.11
MAY , 1976										
25...	0	26	2.0	98	6.7	7.9	177	1.91	--	.07
375755082082801 - 076.0 BUCK FORK NEAR HARTS, W. VA. (LAT 37 57 55 LONG 082 08 28.01)										
OCT , 1975										
30...	0	24	.3	19	4.4	--	63	.29	--	.01
MAY , 1976										
25...	0	25	1.0	21	2.9	7.0	62	.05	--	.02
375837082082501 - 077.0 BIG HARTS CREEK NEAR HARTS, W. VA. (LAT 37 58 37 LONG 082 08 25.01)										
OCT , 1975										
30...	0	22	.2	16	4.1	--	56	1.27	--	.01
MAY , 1976										
25...	0	25	1.5	17	4.6	6.7	62	.32	--	.05
375840082082301 - 078.0 SMOKEHOUSE FORK NEAR HARTS, W. VA. (LAT 37 58 40 LONG 082 08 23.01)										
OCT , 1975										
30...	0	35	.2	18	5.4	--	75	.85	--	.08
MAY , 1976										
25...	0	41	5.0	20	6.7	5.6	84	.17	--	.08
380112082073101 - 079.0 WEST FORK BIG HARTS CREEK AT HARTS, W. VA. (LAT 38 01 12 LONG 082 07 31.01)										
OCT , 1975										
29...	0	34	.8	16	2.8	--	70	.57	--	.87
MAY , 1976										
25...	0	37	1.8	17	2.6	7.0	70	.14	--	.05
380133082075301 - 080.0 BIG HARTS CREEK AT HARTS, W. VA. (LAT 38 01 33 LONG 082 07 53.01)										
OCT , 1975										
29...	0	28	.7	16	5.2	--	65	2.63	--	.04
MAY , 1976										
25...	0	30	2.9	18	5.7	6.5	70	.81	--	.08

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
375809082021801 - 071.0 CRAWLEY CR AT CHAPMANVILLE, W. VA. (LAT 37 58 09 LONG 082 02 18.01)										
OCT , 1975										
30...	.01	.00	--	20	1700	70	160	150	97	1.4
MAY , 1976										
25...	.01	.01	--	10	920	80	170	170	6	.03
375926081590901 - 072.0 TRACE FORK NR CHAPMANVILLE, W. VA. (LAT 37 59 25 LONG 081 59 09.01)										
OCT , 1975										
30...	.00	.00	--	10	850	190	200	190	--	--
MAY , 1976										
24...	.01	.01	--	30	720	60	160	150	--	--
375912081594701 - 073.0 GARRETT FORK NR CHAPMANVILLE, W. VA. (LAT 37 59 12 LONG 081 59 47.01)										
OCT , 1975										
30...	.01	.00	--	10	650	170	240	240	--	--
MAY , 1976										
24...	.01	.01	--	30	770	170	390	400	--	--
380006082002901 - 074.0 NORTH FORK AT BANCO, W. VA. (LAT 38 00 06 LONG 082 00 29.01)										
OCT , 1975										
30...	.00	.00	--	30	770	170	390	380	--	--
MAY , 1976										
25...	.01	.01	--	40	540	110	180	180	--	--
380016082022801 - 075.0 BIG CR AT BIG CREEK, W. VA. (LAT 38 00 16 LONG 082 02 28.01)										
OCT , 1975										
30...	.01	.00	--	30	660	90	360	350	44	.87
MAY , 1976										
25...	.01	.00	--	50	280	30	250	240	3	.03
375755082082801 - 076.0 BUCK FORK NEAR HARTS, W. VA. (LAT 37 57 55 LONG 082 08 28.01)										
OCT , 1975										
30...	.00	.08	--	30	2200	110	70	50	21	.10
MAY , 1976										
25...	.00	.01	--	20	610	180	60	50	--	--
375837082082501 - 077.0 BIG HARTS CREEK NEAR HARTS, W. VA. (LAT 37 58 37 LONG 082 08 25.01)										
OCT , 1975										
30...	.00	.05	--	30	980	220	70	70	9	.20
MAY , 1976										
25...	.02	.01	--	20	860	20	60	60	--	--
375840082082301 - 078.0 SMOKEHOUSE FORK NEAR HARTS, W. VA. (LAT 37 58 40 LONG 082 08 23.01)										
OCT , 1975										
30...	.01	.03	--	40	5700	190	200	110	99	1.1
MAY , 1976										
25...	.01	.01	--	30	1100	270	90	80	--	--
380112082073101 - 079.0 WEST FORK BIG HARTS CREEK AT HARTS, W. VA. (LAT 38 01 12 LONG 082 07 31.01)										
OCT , 1975										
29...	.01	.03	--	60	730	210	70	60	--	--
MAY , 1976										
25...	.00	.01	--	30	600	220	40	30	--	--
380133082075301 - 080.0 BIG HARTS CREEK AT HARTS, W. VA. (LAT 38 01 33 LONG 082 07 53.01)										
OCT , 1975										
29...	.00	.02	--	50	1400	170	70	70	5	.20
MAY , 1976										
25...	.01	.01	--	10	820	270	70	60	4	.05

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA,MG) (MG/L)
380146082075101 - 081.0 GUYANDOTTE RIVER AT HARTS, W. VA. (LAT 38 01 46 LONG 082 07 51.01)										
OCT , 1975										
29...	1300	295	490	7.8	17.0	3	9.4	160	9900	150
MAY , 1976										
25...	1515	299	370	7.5	21.0	8	6.7	920	200	110
380248082083301 - 082.0 LITTLE HARTS CREEK AT ATENVILLE, W. VA. (LAT 38 02 48 LONG 082 08 33.01)										
OCT , 1975										
29...	1050	3.9	80	7.7	17.0	2	10.2	1100	1300	31
MAY , 1976										
26...	1800	1.3	85	7.2	21.5	4	8.5	480	60	33
380259082040201 - 083.0 BIG UGLY CREEK NEAR LEET, W. VA. (LAT 38 02 59 LONG 082 04 02.01)										
OCT , 1975										
29...	1345	5.6	80	8.1	17.0	3	10.0	40	400	34
MAY , 1976										
26...	0915	3.9	75	6.8	12.0	3	10.1	260	60	28
380410082043501 - 084.0 LAUREL CREEK AT LEET, W. VA. (LAT 38 04 10 LONG 082 04 35.01)										
OCT , 1975										
29...	1420	3.6	55	8.2	16.5	1	10.8	20	100	18
MAY , 1976										
26...	1000	4.1	50	7.0	12.0	2	9.4	20	20	21
380454082073301 - 085.0 BIG UGLY CREEK AT GILL, W. VA. (LAT 38 04 54 LONG 082 07 33.01)										
OCT , 1975										
29...	1500	12	80	8.2	16.5	2	10.1	80	340	26
MAY , 1976										
26...	1030	12	60	7.0	14.0	2	9.2	20	20	24
380559082105701 - 086.0 FOURTEENMILE CREEK NEAR RANGER, W. VA. (LAT 38 05 59 LONG 082 10 57.01)										
OCT , 1975										
29...	1005	4.3	80	7.8	15.0	1	10.2	380	2800	26
MAY , 1976										
26...	1245	1.0	120	7.1	22.0	1	8.0	20	40	30
380612082104001 - 087.0 E.FORK FOURTEENMILE CK NEAR RANGER, W. VA. (LAT 38 06 12 LONG 082 10 40.01)										
OCT , 1975										
29...	0930	1.5	100	7.8	14.5	3	10.4	200	800	35
MAY , 1976										
26...	1200	.66	125	7.2	16.5	1	9.4	20	300	38
380647082105401 - 088.0 FOURTEENMILE CREEK AT RANGER, W. VA. (LAT 38 06 47 LONG 082 10 54.01)										
OCT , 1975										
29...	0830	5.7	80	7.5	15.5	2	10.0	800	400	31
MAY , 1976										
26...	1100	2.1	110	7.2	15.0	2	9.2	140	130	37
380927082103701 - 089.0 TENMILE CREEK NEAR MIDKIFF, W. VA. (LAT 38 09 27 LONG 082 10 37.01)										
SEP , 1975										
18...	1430	6.0	110	7.9	19.5	70	7.8	10000	11000	40
MAY , 1976										
26...	1315	1.5	170	7.1	18.0	2	8.5	80	20	39
381037082101501 - 090.0 NINEMILE CREEK AT MIDKIFF, W. VA. (LAT 38 10 37 LONG 082 10 15.01)										
SEP , 1975										
18...	1500	3.0	160	8.1	20.5	8	7.8	1800	5300	37
MAY , 1976										
26...	1415	2.2	110	6.6	17.5	2	9.1	40	440	29

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H ⁺ (MG/L)	TOTAL ACIDITY AS CaCO ₃ (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED PHOSPHATE-TAS-SIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)
380146082075101 - 081.0 GUYANDOTTE RIVER AT HARTS, W. VA. (LAT 38 01 46 LONG 082 07 51.01)										
OCT , 1975										
29...	70	--	--	34	16	54	43	1.9	4.0	98
MAY , 1976										
25...	41	--	--	27	10	41	44	1.7	3.1	82
380248082083301 - 082.0 LITTLE HARTS CREEK AT ATENVILLE, W. VA. (LAT 38 02 48 LONG 082 08 33.01)										
OCT , 1975										
29...	7	--	--	7.6	2.8	2.7	15	.2	2.8	29
MAY , 1976										
26...	11	--	--	8.1	3.0	3.0	16	.2	1.9	26
380259082040201 - 083.0 BIG UGLY CREEK NEAR LEET, W. VA. (LAT 38 02 59 LONG 082 04 02.01)										
OCT , 1975										
29...	10	--	--	8.5	3.0	2.8	14	.2	2.3	29
MAY , 1976										
26...	8	--	--	6.5	2.8	1.9	12	.2	1.6	24
380410082043501 - 084.0 LAUREL CREEK AT LEET, W. VA. (LAT 38 04 10 LONG 082 04 35.01)										
OCT , 1975										
29...	3	--	--	4.9	1.5	1.8	16	.2	2.0	19
MAY , 1976										
26...	8	--	--	5.5	1.8	1.1	10	.1	1.3	16
380454082073301 - 085.0 BIG UGLY CREEK AT GILL, W. VA. (LAT 38 04 54 LONG 082 07 33.01)										
OCT , 1975										
29...	8	--	--	6.8	2.2	3.6	21	.3	2.4	22
MAY , 1976										
26...	11	--	--	6.0	2.3	2.6	18	.2	1.5	17
380559082105701 - 086.0 FOURTEENMILE CREEK NEAR RANGER, W. VA. (LAT 38 05 59 LONG 082 10 57.01)										
OCT , 1975										
29...	9	--	--	7.0	2.1	3.0	18	.3	2.5	21
MAY , 1976										
26...	11	--	--	7.4	2.7	5.0	25	.4	2.4	23
380612082104001 - 087.0 E.FORK FOURTEENMILE CK NEAR RANGER, W. VA. (LAT 38 06 12 LONG 082 10 40.01)										
OCT , 1975										
29...	8	--	--	9.1	2.9	4.0	19	.3	2.5	33
MAY , 1976										
26...	11	--	--	10	3.1	5.9	24	.4	1.8	33
380647082105401 - 088.0 FOURTEENMILE CREEK AT RANGER, W. VA. (LAT 38 06 47 LONG 082 10 54.01)										
OCT , 1975										
29...	10	--	--	8.4	2.5	3.4	18	.3	2.3	26
MAY , 1976										
26...	16	--	--	9.4	3.3	5.1	22	.4	2.1	26
380927082103701 - 089.0 TENMILE CREEK NEAR MIDKIFF, W. VA. (LAT 38 09 27 LONG 082 10 37.01)										
SEP , 1975										
18...	22	--	--	12	2.5	5.2	21	.4	2.4	22
MAY , 1976										
26...	23	--	--	9.0	4.0	12	38	.8	3.0	20
381037082101501 - 090.0 NINEMILE CREEK AT MIDKIFF, W. VA. (LAT 38 10 37 LONG 082 10 15.01)										
SEP , 1975										
18...	14	--	--	11	2.4	11	37	.8	2.5	29
MAY , 1976										
26...	13	--	--	7.0	2.8	9.4	40	.8	1.8	20

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
380146082075101 - 081.0 GUYANDOTTE RIVER AT HARTS, W. VA. (LAT 38 01 46 LONG 082 07 51.01)										
OCT , 1975										
29...	0	80	2.5	170	11	--	391	311	--	.20
MAY , 1976										
25...	0	67	4.1	120	8.2	4.3	255	206	--	.25
380248082083301 - 082.0 LITTLE HARTS CREEK AT ATENVILLE, W. VA. (LAT 38 02 48 LONG 082 08 33.01)										
OCT , 1975										
29...	0	24	.9	16	3.8	--	56	.59	--	.04
MAY , 1976										
26...	0	21	2.6	13	3.7	6.6	53	.19	--	.07
380259082040201 - 083.0 BIG UGLY CREEK NEAR LEET, W. VA. (LAT 38 02 59 LONG 082 04 02.01)										
OCT , 1975										
29...	0	24	.4	15	3.1	--	55	.83	--	.01
MAY , 1976										
26...	0	20	6.1	13	2.9	6.1	47	.50	--	.04
380410082043501 - 084.0 LAUREL CREEK AT LEET, W. VA. (LAT 38 04 10 LONG 082 04 35.01)										
OCT , 1975										
29...	0	16	.2	11	2.7	--	50	.49	--	.02
MAY , 1976										
26...	0	13	2.6	8.0	2.7	6.5	35	.39	--	.03
380454082073301 - 085.0 BIG UGLY CREEK AT GILL, W. VA. (LAT 38 04 54 LONG 082 07 33.01)										
OCT , 1975										
29...	0	18	.2	13	6.3	--	51	1.65	--	.04
MAY , 1976										
26...	0	14	2.7	10	4.7	6.4	42	1.36	--	.04
380559082105701 - 086.0 FOURTEENMILE CREEK NEAR RANGER, W. VA. (LAT 38 05 59 LONG 082 10 57.01)										
OCT , 1975										
29...	0	17	.5	16	4.3	--	51	.59	--	.04
MAY , 1976										
26...	0	19	2.9	14	8.3	5.7	57	.15	--	.08
380612082104001 - 087.0 E.FORK FOURTEENMILE CK NEAR RANGER, W. VA. (LAT 38 06 12 LONG 082 10 40.01)										
OCT , 1975										
29...	0	27	.8	15	6.3	--	63	.26	--	.04
MAY , 1976										
26...	0	27	3.3	12	9.9	7.3	67	.12	--	.10
380647082105401 - 088.0 FOURTEENMILE CREEK AT RANGER, W. VA. (LAT 38 06 47 LONG 082 10 54.01)										
OCT , 1975										
29...	0	21	1.3	16	5.3	--	57	.88	--	.05
MAY , 1976										
26...	0	21	2.6	13	8.5	6.5	62	.35	--	.11
380927082103701 - 089.0 TENMILE CREEK NEAR MIDKIFF, W. VA. (LAT 38 09 27 LONG 082 10 37.01)										
SEP , 1975										
18...	0	18	.4	17	6.8	--	63	1.02	--	.12
MAY , 1976										
26...	0	16	2.5	15	27	5.7	86	.35	--	.07
381037082101501 - 090.0 NINEMILE CREEK AT MIDKIFF, W. VA. (LAT 38 10 37 LONG 082 10 15.01)										
SEP , 1975										
18...	0	24	.4	13	15	--	91	.74	--	.08
MAY , 1976										
26...	0	16	8.0	13	17	7.1	68	.40	--	.06

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)
380146082075101 - 081.0 GUYANDOTTE RIVER AT HARTS, W. VA. (LAT 38 01 46 LONG 082 07 51.01)										
OCT , 1975										
29...	.01	.01	--	70	710	30	470	50	146	116
MAY , 1976										
25...	.01	.01	--	40	1000	20	100	10	27	22
380248082083301 - 082.0 LITTLE HARTS CREEK AT ATENVILLE, W. VA. (LAT 38 02 48 LONG 082 08 33.01)										
OCT , 1975										
29...	.00	.10	--	30	490	210	50	50	1	.01
MAY , 1976										
26...	.00	.02	--	20	520	240	60	60	6	.02
380259082040201 - 083.0 BIG UGLY CREEK NEAR LEET, W. VA. (LAT 38 02 59 LONG 082 04 02.01)										
OCT , 1975										
29...	.00	.55	--	10	550	140	60	50	--	--
MAY , 1976										
26...	.00	.01	--	10	400	110	30	30	--	--
380410082043501 - 084.0 LAUREL CREEK AT LEET, W. VA. (LAT 38 04 10 LONG 082 04 35.01)										
OCT , 1975										
29...	.00	.03	--	0	370	130	50	40	--	--
MAY , 1976										
26...	.00	.01	--	10	250	80	30	30	--	--
380454082073301 - 085.0 BIG UGLY CREEK AT GILL, W. VA. (LAT 38 04 54 LONG 082 07 33.01)										
OCT , 1975										
29...	.00	.46	--	20	520	130	40	30	5	.16
MAY , 1976										
26...	.00	.01	--	10	370	130	20	20	4	.13
380559082105701 - 086.0 FOURTEENMILE CREEK NEAR RANGER, W. VA. (LAT 38 05 59 LONG 082 10 57.01)										
OCT , 1975										
29...	.00	.29	--	0	300	130	60	60	0	.00
MAY , 1976										
26...	.00	.01	--	10	280	90	40	40	3	.01
380612082104001 - 087.0 E.FORK FOURTEENMILE CK NEAR RANGER, W. VA. (LAT 38 06 12 LONG 082 10 40.01)										
OCT , 1975										
29...	.00	.19	--	0	380	90	40	40	--	--
MAY , 1976										
26...	.00	.01	--	10	310	100	40	40	--	--
380647082105401 - 088.0 FOURTEENMILE CREEK AT RANGER, W. VA. (LAT 38 06 47 LONG 082 10 54.01)										
OCT , 1975										
29...	.00	.14	--	30	780	150	130	120	1	.02
MAY , 1976										
26...	.00	.01	--	10	510	180	130	140	14	.08
380927082103701 - 089.0 TENMILE CREEK NEAR MIDKIFF, W. VA. (LAT 38 09 27 LONG 082 10 37.01)										
SEP , 1975										
18...	.01	.01	--	70	4200	160	160	40	363	--
MAY , 1976										
26...	.00	.01	--	20	470	210	90	90	4	.02
381037082101501 - 090.0 NINEMILE CREEK AT MIDKIFF, W. VA. (LAT 38 10 37 LONG 082 10 15.01)										
SEP , 1975										
18...	.01	.01	--	80	870	280	70	40	92	--
MAY , 1976										
26...	.00	.01	--	10	420	140	60	50	4	.02

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
381029082141001 - 091.0 FOURMILE CREEK AT REDWING, W. VA. (LAT 38 10 29 LONG 082 14 10.01)										
SEP , 1975										
18...	1530	1.3	115	8.5	23.0	7	8.0	2400	2500	30
MAY , 1976										
26...	1645	.42	95	7.4	21.5	2	8.8	140	40	38
381035082140701 - 092.0 RED RIVER FORK AT REDWING, W. VA. (LAT 38 10 35 LONG 082 14 07.01)										
SEP , 1975										
18...	1600	1.2	245	8.2	21.5	45	6.7	2700	14000	88
MAY , 1976										
26...	1630	.21	180	7.2	21.0	4	8.7	40	20	68
381312082121101 - 093.0 FOURMILE CREEK AT BRANCHLAND, W. VA. (LAT 38 13 12 LONG 082 12 11.01)										
SEP , 1975										
18...	1630	7.4	180	8.2	22.0	60	7.9	5400	22000	55
MAY , 1976										
26...	1530	3.1	150	7.3	20.0	5	8.6	40	40	49
381554082122401 - 095.0 FALLS CREEK NEAR WEST HAMLIN, W. VA. (LAT 38 15 54 LONG 082 12 24.01)										
SEP , 1975										
18...	1715	.58	1900	7.6	20.5	5	8.2	1400	9700	420
MAY , 1976										
27...	0915	.22	180	6.6	13.0	15	7.5	19000	--	77
381712082113501 - 096.0 TWOMILE CREEK AT WEST HAMLIN, W. VA. (LAT 38 17 12 LONG 082 11 35.01)										
SEP , 1975										
19...	1000	.17	405	8.2	17.5	45	7.4	11000	10000	160
MAY , 1976										
27...	1000	--	340	7.1	13.5	5	6.6	520	800	160
381823082115801 - 097.0 BEAR CREEK NEAR WEST HAMLIN, W. VA. (LAT 38 18 23 LONG 082 11 58.01)										
SEP , 1975										
19...	1000	.32	305	7.9	16.5	20	5.6	1200	4700	120
MAY , 1976										
27...	1030	.15	180	7.3	13.0	5	5.9	300	190	100
381755082125001 - 098.0 MADISON CREEK NEAR SALT ROCK, W. VA. (LAT 38 17 55 LONG 082 12 50.01)										
SEP , 1975										
19...	1100	.25	315	8.0	17.5	7	6.9	1100	3500	120
MAY , 1976										
27...	1115	.16	210	7.1	16.0	4	8.4	160	80	97
382003082125901 - 099.0 TRACE CREEK AT SALT ROCK, W. VA. (LAT 38 20 03 LONG 082 12 59.01)										
SEP , 1975										
19...	0915	.26	405	7.9	17.0	2	6.8	1600	6200	120
MAY , 1976										
27...	1230	.27	270	7.3	17.0	6	7.6	140	100	100
381955082142901 - 100.0 SMITH CREEK AT SARAH, W. VA. (LAT 38 19 55 LONG 082 14 29.01)										
SEP , 1975										
19...	1200	.07	495	8.0	18.5	2	5.4	200	1100	140
MAY , 1976										
27...	1145	.03	400	7.2	16.5	3	9.8	200	240	160
382005082155101 - 101.0 MERRITT CREEK AT SARAH, W. VA. (LAT 38 20 05 LONG 082 15 51.01)										
SEP , 1975										
19...	1230	.18	380	7.9	17.5	6	6.7	1600	2400	140
MAY , 1976										
25...	1720	.12	270	7.5	18.0	3	8.1	120	20	110

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CaCO3 (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED PHOSPHATE AS SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
381029082141001 - 091.0 FOURMILE CREEK AT REDWING, W. VA. (LAT 38 10 29 LONG 082 14 10.01)										
SEP , 1975										
18...	7	--	--	9.0	1.9	3.2	17	.3	2.3	28
MAY , 1976										
26...	21	--	--	10	3.1	2.4	11	.2	2.0	20
381035082140701 - 092.0 RED RIVER FORK AT REDWING, W. VA. (LAT 38 10 35 LONG 082 14 07.01)										
SEP , 1975										
18...	32	--	--	27	5.0	10	19	.5	3.3	68
MAY , 1976										
26...	25	--	--	19	5.0	6.5	17	.3	2.4	52
381312082121101 - 093.0 FOURMILE CREEK AT BRANCHLAND, W. VA. (LAT 38 13 12 LONG 082 12 11.01)										
SEP , 1975										
18...	19	--	--	15	4.2	5.8	18	.3	2.9	43
MAY , 1976										
26...	21	--	--	13	4.0	7.1	23	.4	2.1	34
381554082122401 - 095.0 FALLS CREEK NEAR WEST HAMLIN, W. VA. (LAT 38 15 54 LONG 082 12 24.01)										
SEP , 1975										
18...	380	--	--	120	28	140	42	3.0	7.2	38
MAY , 1976										
27...	33	--	--	22	5.3	7.4	17	.4	2.7	53
381712082113501 - 096.0 TWOMILE CREEK AT WEST HAMLIN, W. VA. (LAT 38 17 12 LONG 082 11 35.01)										
SEP , 1975										
19...	51	--	--	47	11	18	19	.6	3.9	136
MAY , 1976										
27...	62	--	--	47	11	16	17	.5	3.1	123
381823082115801 - 097.0 BEAR CREEK NEAR WEST HAMLIN, W. VA. (LAT 38 18 23 LONG 082 11 58.01)										
SEP , 1975										
19...	28	--	--	35	7.0	15	21	.6	3.4	107
MAY , 1976										
27...	37	--	--	29	7.4	11	18	.5	2.4	80
381755082125001 - 098.0 MADISON CREEK NEAR SALT ROCK, W. VA. (LAT 38 17 55 LONG 082 12 50.01)										
SEP , 1975										
19...	30	--	--	35	7.6	12	17	.5	3.8	108
MAY , 1976										
27...	28	--	--	28	6.5	9.9	18	.4	2.6	84
382003082125901 - 099.0 TRACE CREEK AT SALT ROCK, W. VA. (LAT 38 20 03 LONG 082 12 59.01)										
SEP , 1975										
19...	47	--	--	35	7.6	25	31	1.0	3.7	87
MAY , 1976										
27...	32	--	--	30	7.0	19	28	.8	2.4	87
381955082142901 - 100.0 SMITH CREEK AT SARAH, W. VA. (LAT 38 19 55 LONG 082 14 29.01)										
SEP , 1975										
19...	30	--	--	42	8.2	37	36	1.4	3.8	133
MAY , 1976										
27...	79	--	--	49	9.1	37	33	1.3	3.3	98
382005082155101 - 101.0 MERRITT CREEK AT SARAH, W. VA. (LAT 38 20 05 LONG 082 15 51.01)										
SEP , 1975										
19...	20	--	--	40	8.6	20	24	.7	3.2	141
MAY , 1976										
25...	26	--	--	34	6.5	14	21	.6	2.5	105

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
381029082141001 - 091.0 FOURMILE CREEK AT REDWING, W. VA. (LAT 38 10 29 LONG 082 14 10.01)										
SEP , 1975										
18...	0	23	.1	17	3.7	--	72	.25	--	.06
MAY , 1976										
26...	0	16	1.3	19	2.2	5.9	55	.06	--	.04
381035082140701 - 092.0 RED RIVER FORK AT REDWING, W. VA. (LAT 38 10 35 LONG 082 14 07.01)										
SEP , 1975										
18...	0	56	.7	31	10	--	125	.40	--	.14
MAY , 1976										
26...	0	43	5.2	29	4.5	4.1	96	.05	--	.03
381312082121101 - 093.0 FOURMILE CREEK AT BRANCHLAND, W. VA. (LAT 38 13 12 LONG 082 12 11.01)										
SEP , 1975										
18...	0	35	.4	23	6.8	--	--	--	--	.12
MAY , 1976										
26...	0	28	2.7	23	8.8	5.5	81	.68	--	.04
381554082122401 - 095.0 FALLS CREEK NEAR WEST HAMLIN, W. VA. (LAT 38 15 54 LONG 082 12 24.01)										
SEP , 1975										
18...	0	31	1.5	14	500	--	834	1.31	--	.31
MAY , 1976										
27...	0	43	21	35	11	4.5	225	.13	--	.09
381712082113501 - 096.0 TWOMILE CREEK AT WEST HAMLIN, W. VA. (LAT 38 17 12 LONG 082 11 35.01)										
SEP , 1975										
19...	0	112	1.4	63	17	--	235	.11	--	.00
MAY , 1976										
27...	0	101	16	75	14	6.9	234	--	--	.05
381823082115801 - 097.0 BEAR CREEK NEAR WEST HAMLIN, W. VA. (LAT 38 18 23 LONG 082 11 58.01)										
SEP , 1975										
19...	0	88	2.2	39	15	--	174	.15	--	.18
MAY , 1976										
27...	0	66	6.4	50	11	5.9	158	.06	--	.26
381755082125001 - 098.0 MADISON CREEK NEAR SALT ROCK, W. VA. (LAT 38 17 55 LONG 082 12 50.01)										
SEP , 1975										
19...	0	89	1.7	27	23	--	169	.11	--	.10
MAY , 1976										
27...	0	69	11	33	14	5.6	142	.06	--	.12
382003082125901 - 099.0 TRACE CREEK AT SALT ROCK, W. VA. (LAT 38 20 03 LONG 082 12 59.01)										
SEP , 1975										
19...	0	71	1.8	19	64	--	183	.13	--	.06
MAY , 1976										
27...	0	71	7.0	35	32	4.1	173	.13	--	.11
381955082142901 - 100.0 SMITH CREEK AT SARAH, W. VA. (LAT 38 19 55 LONG 082 14 29.01)										
SEP , 1975										
19...	0	109	2.1	21	70	--	253	.05	--	.02
MAY , 1976										
27...	0	80	9.9	37	81	4.8	270	.02	--	.08
382005082155101 - 101.0 MERRITT CREEK AT SARAH, W. VA. (LAT 38 20 05 LONG 082 15 51.01)										
SEP , 1975										
19...	0	116	2.8	33	18	--	197	.10	--	.19
MAY , 1976										
25...	0	86	5.3	34	10	4.2	158	.05	--	.11

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDEED SEDI- MENT (MG/L)	SUS- PENDEED SEDI- MENT DIS- CHARGE (T/DAY)
381029082141001 - 091.0 FOURMILE CREEK AT REDWING, W. VA. (LAT 38 10 29 LONG 082 14 10.01)										
SEP , 1975										
18...	.01	.01	--	30	580	80	30	20	--	--
MAY , 1976										
26...	.00	.01	--	10	1800	120	50	20	--	--
381035082140701 - 092.0 RED RIVER FORK AT REDWING, W. VA. (LAT 38 10 35 LONG 082 14 07.01)										
SEP , 1975										
18...	.01	.01	--	30	1800	90	50	10	--	--
MAY , 1976										
26...	.00	.01	--	20	420	60	50	30	--	--
381312082121101 - 093.0 FOURMILE CREEK AT BRANCHLAND, W. VA. (LAT 38 13 12 LONG 082 12 11.01)										
SEP , 1975										
18...	.01	.01	--	110	3000	40	230	120	121	--
MAY , 1976										
26...	.00	.01	--	20	610	200	130	90	3	.03
381554082122401 - 095.0 FALLS CREEK NEAR WEST HAMLIN, W. VA. (LAT 38 15 54 LONG 082 12 24.01)										
SEP , 1975										
18...	.01	.01	--	160	580	80	390	370	17	--
MAY , 1976										
27...	.01	.01	--	10	760	130	270	220	9	.01
381712082113501 - 096.0 TWOMILE CREEK AT WEST HAMLIN, W. VA. (LAT 38 17 12 LONG 082 11 35.01)										
SEP , 1975										
19...	.26	.02	--	140	1500	20	70	50	71	--
MAY , 1976										
27...	.00	.01	--	20	1200	130	370	280	4	--
381823082115801 - 097.0 BEAR CREEK NEAR WEST HAMLIN, W. VA. (LAT 38 18 23 LONG 082 11 58.01)										
SEP , 1975										
19...	.01	.01	--	110	1800	140	220	180	14	--
MAY , 1976										
27...	.01	.01	--	10	860	210	340	340	4	.00
381755082125001 - 098.0 MADISON CREEK NEAR SALT ROCK, W. VA. (LAT 38 17 55 LONG 082 12 50.01)										
SEP , 1975										
19...	.01	.01	--	160	640	80	140	120	26	--
MAY , 1976										
27...	.01	.01	--	10	440	50	200	200	3	.00
382003082125901 - 099.0 TRACE CREEK AT SALT ROCK, W. VA. (LAT 38 20 03 LONG 082 12 59.01)										
SEP , 1975										
19...	.01	.01	--	650	860	170	680	670	5	--
MAY , 1976										
27...	.01	.00	--	20	740	70	450	430	10	.01
381955082142901 - 100.0 SMITH CREEK AT SARAH, W. VA. (LAT 38 19 55 LONG 082 14 29.01)										
SEP , 1975										
19...	.01	.01	--	110	600	130	70	50	4	--
MAY , 1976										
27...	.00	.01	--	20	340	20	60	60	8	.00
382005082155101 - 101.0 MERRITT CREEK AT SARAH, W. VA. (LAT 38 20 05 LONG 082 15 51.01)										
SEP , 1975										
19...	.01	.05	--	90	890	70	260	80	46	--
MAY , 1976										
25...	.02	.03	--	40	500	120	130	130	8	.00

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
382104082172701 - 102.0 HEATH CREEK NEAR SARAH, W. VA. (LAT 38 21 04 LONG 082 17 27.01)										
SEP , 1975										
19...	1245	.12	400	8.0	20.0	2	9.4	>100000	100000	120
MAY , 1976										
25...	1645	.09	350	7.7	18.0	1	8.1	1000	80	120
382259082170301 - 103.0 MILL CREEK AT MARTHA, W. VA. (LAT 38 22 59 LONG 082 17 03.01)										
SEP , 1975										
19...	0830	.05	320	7.6	17.5	1	4.6	300	1000	150
MAY , 1976										
25...	1600	.05	290	7.3	17.0	4	6.9	5	5	100
382347082192101 - 104.0 DAVIS CREEK NEAR BARBOURSVILLE, W. VA. (LAT 38 23 47 LONG 082 19 21.01)										
MAY , 1976										
24...	1735	.07	360	7.6	20.5	3	8.7	0	50	150
380532081580501 - 104.1 MUD RIVER AT MUD, W. VA. (LAT 38 05 32 LONG 081 58 05.01)										
SEP , 1975										
16...	1240	1.1	135	7.9	18.0	3	9.2	600	3400	44
MAY , 1976										
27...	1500	4.6	70	7.8	19.0	2	8.6	0	0	25
380519081580601 - 105.0 CONNELLY BRANCH AT MUD, W. VA. (LAT 38 05 19 LONG 081 58 06.01)										
SEP , 1975										
16...	1200	.22	60	8.2	18.5	2	8.8	560	600	24
MAY , 1976										
27...	1530	.58	50	7.4	21.5	3	8.2	10	20	16
380959082030001 - 106.0 LEFT FORK AT PALERMO, W. VA. (LAT 38 09 59 LONG 082 03 00.01)										
SEP , 1975										
16...	1425	1.3	100	8.2	16.0	15	8.4	420	700	31
MAY , 1976										
27...	1335	3.5	70	7.5	18.0	3	8.8	20	--	26
381155082061401 - 108.0 BIG LAUREL CREEK AT JENKS, W. VA. (LAT 38 11 55 LONG 082 06 14.01)										
SEP , 1975										
16...	1515	.20	140	8.1	19.5	6	8.9	880	2200	46
MAY , 1976										
27...	1215	.45	120	7.8	16.0	2	9.1	50	0	49
381526082071901 - 109.0 MAHONE CREEK NEAR NEW HAMLIN, W. VA. (LAT 38 15 26 LONG 082 07 19.01)										
SEP , 1975										
16...	1600	.06	120	8.0	18.0	2	6.6	40	980	43
381625082061601 - 110.0 MUD RIVER AT HAMLIN, W. VA. (LAT 38 16 25 LONG 082 06 16.01)										
SEP , 1975										
17...	0900	13	80	7.6	17.5	40	7.6	86000	14000	27
MAY , 1976										
27...	1045	29	70	6.9	16.0	3	8.3	200	--	27
381305081580201 - 111.0 STRAIGHT FORK AT YAWKEY, W. VA. (LAT 38 13 05 LONG 081 58 02.01)										
SEP , 1975										
15...	1430	.38	220	8.0	21.0	4	10.2	320	880	67
MAY , 1976										
26...	1345	.18	140	8.5	20.0	2	10.6	75	--	52

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	NON-CAR-BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
382104082172701 - 102.0 HEATH CREEK NEAR SARAH, W. VA. (LAT 38 21 04 LONG 082 17 27.01)										
SEP , 1975										
19...	4	--	--	36	7.9	30	34	1.2	3.4	144
MAY , 1976										
25...	25	--	--	35	8.8	29	33	1.1	3.4	120
382259082170301 - 103.0 MILL CREEK AT MARTHA, W. VA. (LAT 38 22 59 LONG 082 17 03.01)										
SEP , 1975										
19...	0	--	--	40	11	54	44	2.0	3.8	276
MAY , 1976										
25...	12	--	--	28	7.7	20	29	.9	2.7	109
382347082192101 - 104.0 DAVIS CREEK NEAR BARBOURSVILLE, W. VA. (LAT 38 23 47 LONG 082 19 21.01)										
MAY , 1976										
24...	42	--	--	42	9.9	22	24	.8	3.2	126
380532081580501 - 104.1 MUD RIVER AT MUD, W. VA. (LAT 38 05 32 LONG 081 58 05.01)										
SEP , 1975										
16...	20	--	--	10	4.7	4.1	16	.3	2.2	30
MAY , 1976										
27...	11	--	--	4.7	3.2	1.8	13	.2	1.4	17
380519081580601 - 105.0 CONNELLY BRANCH AT MUD, W. VA. (LAT 38 05 19 LONG 081 58 06.01)										
SEP , 1975										
16...	10	--	--	6.0	2.1	2.0	14	.2	2.0	17
MAY , 1976										
27...	5	--	--	3.0	2.0	.9	10	.1	1.3	13
380959082030001 - 106.0 LEFT FORK AT PALERMO, W. VA. (LAT 38 09 59 LONG 082 03 00.01)										
SEP , 1975										
16...	8	--	--	8.1	2.6	2.3	13	.2	3.0	28
MAY , 1976										
27...	8	--	--	5.9	2.8	1.6	11	.1	1.5	22
381155082061401 - 108.0 BIG LAUREL CREEK AT JENKS, W. VA. (LAT 38 11 55 LONG 082 06 14.01)										
SEP , 1975										
16...	7	--	--	12	3.9	2.9	11	.2	2.9	48
MAY , 1976										
27...	17	--	--	13	3.9	2.7	10	.2	1.8	39
381526082071901 - 109.0 MAMONE CREEK NEAR NEW HAMLIN, W. VA. (LAT 38 15 26 LONG 082 07 19.01)										
SEP , 1975										
16...	25	--	--	12	3.1	2.0	9	.1	1.8	22
381625082061601 - 110.0 MUD RIVER AT HAMLIN, W. VA. (LAT 38 16 25 LONG 082 06 16.01)										
SEP , 1975										
17...	11	--	--	7.4	2.0	3.2	19	.3	2.9	19
MAY , 1976										
27...	9	--	--	6.4	2.7	1.8	12	.2	1.5	22
381305081580201 - 111.0 STRAIGHT FORK AT YAWKEY, W. VA. (LAT 38 13 05 LONG 081 58 02.01)										
SEP , 1975										
15...	19	--	--	19	4.8	10	23	.5	3.1	59
MAY , 1976										
26...	21	--	--	15	3.6	7.6	23	.5	2.1	38

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
382104082172701 - 102.0 HEATH CREEK NEAR SARAH, W. VA. (LAT 38 21 04 LONG 082 17 27.01)										
SEP , 1975										
19...	0	118	2.3	31	25	--	212	.07	--	.70
MAY , 1976										
25...	0	98	3.8	55	21	2.8	219	.05	--	.56
382259082170301 - 103.0 MILL CREEK AT MARTHA, W. VA. (LAT 38 22 59 LONG 082 17 03.01)										
SEP , 1975										
19...	0	226	11	31	12	--	295	.04	--	.14
MAY , 1976										
25...	0	89	8.7	36	11	6.5	170	.02	--	.09
382347082192101 - 104.0 DAVIS CREEK NEAR BARBOURSVILLE, W. VA. (LAT 38 23 47 LONG 082 19 21.01)										
MAY , 1976										
24...	0	103	5.1	56	23	3.9	223	.04	--	.03
380532081580501 - 104.1 MUD RIVER AT MUD, W. VA. (LAT 38 05 32 LONG 081 58 05.01)										
SEP , 1975										
16...	0	25	.6	24	2.2	--	70	.21	--	.06
MAY , 1976										
27...	0	14	.4	17	1.2	7.0	45	.56	--	.06
380519081580601 - 105.0 CONNELLY BRANCH AT MUD, W. VA. (LAT 38 05 19 LONG 081 58 06.01)										
SEP , 1975										
16...	0	14	.2	8.9	1.4	--	37	.02	--	.12
MAY , 1976										
27...	0	11	.8	9.6	1.0	6.0	31	.05	--	.10
380959082030001 - 106.0 LEFT FORK AT PALERMO, W. VA. (LAT 38 09 59 LONG 082 03 00.01)										
SEP , 1975										
16...	0	23	.3	11	2.6	--	51	.18	--	.27
MAY , 1976										
27...	0	18	1.1	12	1.5	5.7	42	.40	--	.04
381155082061401 - 108.0 BIG LAUREL CREEK AT JENKS, W. VA. (LAT 38 11 55 LONG 082 06 14.01)										
SEP , 1975										
16...	0	39	.6	19	2.7	--	72	.04	--	.17
MAY , 1976										
27...	0	32	1.0	22	1.8	4.4	69	.08	--	.07
381526082071901 - 109.0 MAHONE CREEK NEAR NEW HAMLIN, W. VA. (LAT 38 15 26 LONG 082 07 19.01)										
SEP , 1975										
16...	0	18	.4	28	1.0	--	59	.01	--	.03
381625082061601 - 110.0 MUD RIVER AT HAMLIN, W. VA. (LAT 38 16 25 LONG 082 06 16.01)										
SEP , 1975										
17...	0	16	.8	15	4.4	--	51	1.79	--	.20
MAY , 1976										
27...	0	18	4.4	13	1.7	6.3	45	3.52	--	.07
381305081580201 - 111.0 STRAIGHT FORK AT YAWKEY, W. VA. (LAT 38 13 05 LONG 081 58 02.01)										
SEP , 1975										
15...	0	48	.9	22	14	--	108	.11	--	.29
MAY , 1976										
26...	0	31	.2	23	8.8	5.1	85	.04	190	.05

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS-SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS-SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
382104082172701 - 102.0 HEATH CREEK NEAR SARAH, W. VA. (LAT 38 21 04 LONG 082 17 27.01)										
SEP , 1975										
19...	.22	.63	--	240	120	70	40	40	3	--
MAY , 1976										
25...	.15	.43	--	20	200	50	40	40	2	.00
382259082170301 - 103.0 MILL CREEK AT MARTHA, W. VA. (LAT 38 22 59 LONG 082 17 03.01)										
SEP , 1975										
19...	.06	.01	--	110	200	30	4600	4600	7	--
MAY , 1976										
25...	.01	.01	--	30	2200	750	2700	2700	9	.00
382347082192101 - 104.0 DAVIS CREEK NEAR BARBOURSVILLE, W. VA. (LAT 38 23 47 LONG 082 19 21.01)										
MAY , 1976										
24...	.01	.00	--	20	560	110	320	300	--	--
380532081580501 - 104.1 MUD RIVER AT MUD, W. VA. (LAT 38 05 32 LONG 081 58 05.01)										
SEP , 1975										
16...	.01	.01	--	80	580	270	130	110	4	--
MAY , 1976										
27...	.00	.00	--	10	330	160	40	40	21	.26
380519081580601 - 105.0 CONNELLY BRANCH AT MUD, W. VA. (LAT 38 05 19 LONG 081 58 06.01)										
SEP , 1975										
16...	.00	.01	--	120	1200	320	180	140	--	--
MAY , 1976										
27...	.00	.00	--	10	310	160	30	40	--	--
380959082030001 - 106.0 LEFT FORK AT PALERMO, W. VA. (LAT 38 09 59 LONG 082 03 00.01)										
SEP , 1975										
16...	.01	.01	--	60	1200	250	180	180	--	--
MAY , 1976										
27...	.00	.00	--	10	670	240	90	90	--	--
381155082061401 - 108.0 BIG LAUREL CREEK AT JENKS, W. VA. (LAT 38 11 55 LONG 082 06 14.01)										
SEP , 1975										
16...	.00	.01	--	140	1200	450	220	200	--	--
MAY , 1976										
27...	.01	.00	--	10	480	170	120	110	--	--
381526082071901 - 109.0 MAHONE CREEK NEAR NEW HAMLIN, W. VA. (LAT 38 15 26 LONG 082 07 19.01)										
SEP , 1975										
16...	.00	.01	--	80	230	60	100	70	--	--
381625082061601 - 110.0 MUD RIVER AT HAMLIN, W. VA. (LAT 38 16 25 LONG 082 06 16.01)										
SEP , 1975										
17...	.01	.08	--	120	1900	330	220	190	42	--
MAY , 1976										
27...	.00	.01	--	30	690	170	70	70	5	.39
381305081580201 - 111.0 STRAIGHT FORK AT YAWKEY, W. VA. (LAT 38 13 05 LONG 081 58 02.01)										
SEP , 1975										
15...	.01	.03	--	60	1000	250	120	100	--	--
MAY , 1976										
26...	.00	.13	--	20	460	140	50	40	--	--

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
381326081575701 - 112.0 PORTER FORK AT YAWKEY, W. VA. (LAT 38 13 26 LONG 081 57 57.01)										
SEP , 1975										
15...	1520	.30	350	7.8	20.5	3	8.5	2200	2000	100
MAY , 1976										
26...	1325	.36	215	8.1	21.0	3	11.0	3800	1000	85
381417081593301 - 113.0 STRAIGHT FORK AT GRIFFITHSVILLE, W. VA. (LAT 38 14 17 LONG 081 59 33.01)										
SEP , 1975										
15...	1600	1.4	280	7.5	22.5	4	10.2	6800	1300	90
MAY , 1976										
26...	1510	1.5	220	7.7	23.5	4	11.6	7200	800	77
381642082043001 - 114.0 MIDDLE FORK NEAR HAMLIN, W. VA. (LAT 38 16 42 LONG 082 04 30.01)										
SEP , 1975										
17...	0945	2.8	190	8.0	16.0	7	8.7	300	160	63
MAY , 1976										
27...	0955	3.5	140	7.2	15.0	4	8.1	430	140	66
381926082073701 - 115.0 BUFFALO CREEK NEAR PORTERSVILLE, W. VA. (LAT 38 19 26 LONG 082 07 37.01)										
SEP , 1975										
17...	1300	.01	220	7.8	16.0	1	3.0	20	20	84
MAY , 1976										
26...	1600	--	210	8.0	18.0	2	8.4	160	200	100
381810081545801 - 116.0 TRACE FORK AT GARRETTS BEND, W. VA. (LAT 38 18 10 LONG 081 54 58.01)										
SEP , 1975										
16...	1000	.42	180	8.0	15.5	40	9.3	1400	5800	75
MAY , 1976										
26...	1305	1.4	160	7.3	19.5	9	8.0	--	--	68
381816081543901 - 117.0 HAYZLETT FORK AT GARRETTS BEND, W. VA. (LAT 38 18 16 LONG 081 54 39.01)										
SEP , 1975										
16...	1030	.10	300	8.0	16.5	30	8.6	3000	5100	110
MAY , 1976										
26...	1330	.22	220	8.0	22.5	6	10.1	570	40	99
381911081552001 - 118.0 TRACE FORK NEAR GARRETTS BEND, W. VA. (LAT 38 19 11 LONG 081 55 20.01)										
SEP , 1975										
15...	1730	.68	190	7.9	20.0	65	8.7	960	3900	82
MAY , 1976										
26...	1235	1.4	170	7.2	18.0	7	8.5	260	130	73
381956081583801 - 119.0 TRACE FORK NEAR MT MORIAH CHURCH, W. VA. (LAT 38 19 56 LONG 081 58 38.01)										
SEP , 1975										
15...	1100	5.5	110	8.2	15.5	300	10.0	2200	9900	62
MAY , 1976										
26...	1115	3.8	140	7.1	16.5	10	6.4	250	55	64
381936081583401 - 120.0 TURKEY CREEK NEAR MT MORIAH CHURCH, W. VA. (LAT 38 19 36 LONG 081 58 34.01)										
SEP , 1975										
15...	1150	.17	120	8.0	17.5	35	9.1	400	4900	62
MAY , 1976										
26...	1150	.45	160	7.2	16.5	4	8.5	1020	180	66
382008082000601 - 121.0 CLYMER CR NR NYE WVA (LAT 38 20 08 LONG 082 00 06.01)										
SEP , 1975										
17...	1150	.04	240	7.9	18.5	7	8.7	900	1100	87
MAY , 1976										
26...	1025	.25	180	7.4	16.0	4	9.1	1250	75	74

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H ⁺ (MG/L)	TOTAL ACIDITY AS CaCO ₃ (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO ₃) (MG/L)
381326081575701 - 112.0 PORTER FORK AT YAWKEY, W. VA. (LAT 38 13 26 LONG 081 57 57.01)										
SEP , 1975										
15...	20	--	--	29	6.9	34	41	1.5	3.4	98
MAY , 1976										
26...	29	--	--	25	5.5	21	34	1.0	2.3	68
381417081593301 - 113.0 STRAIGHT FORK AT GRIFFITHSVILLE, W. VA. (LAT 38 14 17 LONG 081 59 33.01)										
SEP , 1975										
15...	12	--	--	26	6.1	19	31	.9	3.3	95
MAY , 1976										
26...	23	--	--	23	4.8	14	27	.7	2.7	66
381642082043001 - 114.0 MIDDLE FORK NEAR HAMLIN, W. VA. (LAT 38 16 42 LONG 082 04 30.01)										
SEP , 1975										
17...	16	--	--	18	4.4	7.7	20	.4	3.1	57
MAY , 1976										
27...	25	--	--	19	4.6	6.8	18	.4	2.2	51
381926082073701 - 115.0 BUFFALO CREEK NEAR PORTERSVILLE, W. VA. (LAT 38 19 26 LONG 082 07 37.01)										
SEP , 1975										
17...	21	--	--	25	5.2	4.5	10	.2	2.3	77
MAY , 1976										
26...	45	--	--	30	6.2	5.6	11	.2	2.3	67
381810081545801 - 116.0 TRACE FORK AT GARRETTS BEND, W. VA. (LAT 38 18 10 LONG 081 54 58.01)										
SEP , 1975										
16...	16	--	--	22	4.8	7.4	17	.4	2.9	71
MAY , 1976										
26...	14	--	--	20	4.5	5.5	14	.3	2.0	66
381816081543901 - 117.0 HAYZLETT FORK AT GARRETTS BEND, W. VA. (LAT 38 18 16 LONG 081 54 39.01)										
SEP , 1975										
16...	11	--	--	33	6.0	11	18	.5	3.0	117
MAY , 1976										
26...	18	--	--	30	5.8	8.5	15	.4	2.4	98
381911081552001 - 118.0 TRACE FORK NEAR GARRETTS BEND, W. VA. (LAT 38 19 11 LONG 081 55 20.01)										
SEP , 1975										
15...	24	--	--	25	4.7	7.0	15	.3	3.1	70
MAY , 1976										
26...	17	--	--	22	4.5	5.6	14	.3	2.0	69
381956081583801 - 119.0 TRACE FORK NEAR MT MORIAH CHURCH, W. VA. (LAT 38 19 56 LONG 081 58 38.01)										
SEP , 1975										
15...	14	--	--	19	3.6	5.4	15	.3	3.5	59
MAY , 1976										
26...	17	--	--	19	4.1	4.6	13	.3	1.9	58
381936081583401 - 120.0 TURKEY CREEK NEAR MT MORIAH CHURCH, W. VA. (LAT 38 19 36 LONG 081 58 34.01)										
SEP , 1975										
15...	12	--	--	18	4.2	5.4	15	.3	3.2	61
MAY , 1976										
26...	17	--	--	19	4.5	5.6	15	.3	2.2	60
382008082000601 - 121.0 CLYMER CR NR NYE WVA (LAT 38 20 08 LONG 082 00 06.01)										
SEP , 1975										
17...	12	--	--	26	5.4	7.7	16	.4	3.0	92
MAY , 1976										
26...	17	--	--	21	5.3	5.8	14	.3	2.1	70

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
381326081575701 - 112.0 PORTER FORK AT YAWKEY, W. VA. (LAT 38 13 26 LONG 081 57 57.01)										
SEP , 1975										
15...	0	80	2.5	26	50	--	203	.16	--	.20
MAY , 1976										
26...	0	56	.9	29	30	4.4	151	.15	--	.03
381417081593301 - 113.0 STRAIGHT FORK AT GRIFFITHSVILLE, W. VA. (LAT 38 14 17 LONG 081 59 33.01)										
SEP , 1975										
15...	0	78	4.8	21	23	--	150	.57	--	.28
MAY , 1976										
26...	0	54	2.1	25	17	3.8	124	.50	--	.05
381642082043001 - 114.0 MIDDLE FORK NEAR HAMLIN, W. VA. (LAT 38 16 42 LONG 082 04 30.01)										
SEP , 1975										
17...	0	47	.9	19	10	--	97	.73	--	.40
MAY , 1976										
27...	0	42	5.1	23	7.7	4.8	94	.89	--	.07
381926082073701 - 115.0 BUFFALO CREEK NEAR PORTERSVILLE, W. VA. (LAT 38 19 26 LONG 082 07 37.01)										
SEP , 1975										
17...	0	63	2.0	23	3.2	--	104	.00	--	.10
MAY , 1976										
26...	0	55	1.1	47	3.2	3.3	131	--	--	.05
381810081545801 - 116.0 TRACE FORK AT GARRETT'S BEND, W. VA. (LAT 38 18 10 LONG 081 54 58.01)										
SEP , 1975										
16...	0	58	1.1	16	12	--	142	.16	--	.18
MAY , 1976										
26...	0	54	5.3	18	6.6	5.0	95	.36	--	.05
381816081543901 - 117.0 HAYZLETT FORK AT GARRETT'S BEND, W. VA. (LAT 38 18 16 LONG 081 54 39.01)										
SEP , 1975										
16...	0	96	1.9	22	12	--	147	.04	--	.11
MAY , 1976										
26...	0	80	1.6	26	8.1	2.6	132	.08	--	.02
381911081552001 - 118.0 TRACE FORK NEAR GARRETT'S BEND, W. VA. (LAT 38 19 11 LONG 081 55 20.01)										
SEP , 1975										
15...	0	57	1.4	18	12	--	154	.28	--	.33
MAY , 1976										
26...	0	57	7.0	21	6.0	5.0	101	.38	--	.04
381956081583801 - 119.0 TRACE FORK NEAR MT MORIAH CHURCH, W. VA. (LAT 38 19 56 LONG 081 58 38.01)										
SEP , 1975										
15...	0	48	.6	14	9.1	--	92	1.37	--	.21
MAY , 1976										
26...	0	48	7.4	19	4.9	5.8	89	.91	--	.12
381936081583401 - 120.0 TURKEY CREEK NEAR MT MORIAH CHURCH, W. VA. (LAT 38 19 36 LONG 081 58 34.01)										
SEP , 1975										
15...	0	50	1.0	16	7.1	--	89	.04	--	.20
MAY , 1976										
26...	0	49	6.1	23	5.1	4.3	94	.11	--	.11
382008082000601 - 121.0 CLYMER CR NR NYE WVA (LAT 38 20 08 LONG 082 00 06.01)										
SEP , 1975										
17...	0	75	1.9	18	8.0	--	117	.01	--	.05
MAY , 1976										
26...	0	57	4.5	28	3.7	3.1	104	.07	--	.04

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
381326081575701 - 112.0 PORTER FORK AT YAWKEY, W. VA. (LAT 38 13 26 LONG 081 57 57.01)										
SEP , 1975										
15...	.01	.03	--	70	1400	210	480	470	--	--
MAY , 1976										
26...	.01	.02	--	20	650	160	150	150	--	--
381417081593301 - 113.0 STRAIGHT FORK AT GRIFFITHSVILLE, W. VA. (LAT 38 14 17 LONG 081 59 33.01)										
SEP , 1975										
15...	.03	.02	--	50	1600	120	490	480	--	--
MAY , 1976										
26...	.01	.07	--	20	1100	160	170	160	--	--
381642082043001 - 114.0 MIDDLE FORK NEAR HAMLIN, W. VA. (LAT 38 16 42 LONG 082 04 30.01)										
SEP , 1975										
17...	.01	.02	--	80	1300	250	240	230	--	--
MAY , 1976										
27...	.01	.01	--	20	840	180	160	160	--	--
381926082073701 - 115.0 BUFFALO CREEK NEAR PORTERSVILLE, W. VA. (LAT 38 19 26 LONG 082 07 37.01)										
SEP , 1975										
17...	.01	.01	--	50	160	30	140	140	--	--
MAY , 1976										
26...	.01	.01	--	20	300	100	160	160	--	--
381810081545801 - 116.0 TRACE FORK AT GARRETT'S BEND, W. VA. (LAT 38 18 10 LONG 081 54 58.01)										
SEP , 1975										
16...	.01	.08	--	180	2000	60	340	320	--	--
MAY , 1976										
26...	.01	.01	--	10	1200	190	260	260	--	--
381816081543901 - 117.0 HAYZLETT FORK AT GARRETT'S BEND, W. VA. (LAT 38 18 16 LONG 081 54 39.01)										
SEP , 1975										
16...	.01	.02	--	40	1700	30	420	390	--	--
MAY , 1976										
26...	.01	.01	--	20	480	40	160	150	--	--
381911081552001 - 118.0 TRACE FORK NEAR GARRETT'S BEND, W. VA. (LAT 38 19 11 LONG 081 55 20.01)										
SEP , 1975										
15...	.01	.04	--	70	3300	50	280	210	--	--
MAY , 1976										
26...	.01	.01	--	20	880	160	230	220	--	--
381956081583801 - 119.0 TRACE FORK NEAR MT MORIAH CHURCH, W. VA. (LAT 38 19 56 LONG 081 58 38.01)										
SEP , 1975										
15...	.01	.12	--	290	12000	450	340	110	--	--
MAY , 1976										
26...	.01	.01	--	20	920	140	290	280	--	--
381936081583401 - 120.0 TURKEY CREEK NEAR MT MORIAH CHURCH, W. VA. (LAT 38 19 36 LONG 081 58 34.01)										
SEP , 1975										
15...	.01	.02	--	110	1500	130	320	290	--	--
MAY , 1976										
26...	.01	.02	--	10	670	220	240	230	--	--
382008082000601 - 121.0 CLYMER CR NR NYE WVA (LAT 38 20 08 LONG 082 00 06.01)										
SEP , 1975										
17...	.01	.01	--	160	2500	1000	380	390	--	--
MAY , 1976										
26...	.01	.01	--	20	920	200	230	230	--	--

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
382012082022601 - 122.0 SYCAMORE CREEK AT NYE, W. VA. (LAT 38 20 12 LONG 082 02 26.01)										
SEP , 1975										
17...	1115	.08	200	7.7	16.5	3	7.0	160	1700	75
MAY , 1976										
26...	1000	.19	160	7.2	14.0	4	10.2	1000	230	67
382006082041101 - 123.0 TRACE FORK NEAR BOWLES, W. VA. (LAT 38 20 06 LONG 082 04 11.01)										
SEP , 1975										
17...	1045	1.7	220	7.9	16.5	5	8.0	100	120	88
MAY , 1976										
26...	0925	7.5	160	7.3	15.5	7	8.4	140	0	59
381947082042401 - 124.0 BIG CREEK AT BOWLES, W. VA. (LAT 38 19 47 LONG 082 04 24.01)										
SEP , 1975										
17...	1030	.16	270	7.9	17.0	4	7.5	140	540	88
MAY , 1976										
26...	0900	.66	200	7.2	13.5	3	9.5	520	170	83
382301082072001 - 125.0 BIG TWOMILE CREEK NEAR MILTON, W. VA. (LAT 38 23 01 LONG 082 07 20.01)										
SEP , 1975										
17...	1400	.05	180	7.7	19.0	2	4.2	60	320	74
MAY , 1976										
25...	1330	.50	160	7.2	18.5	1	8.3	5	55	66
382410082070501 - 127.0 CHARLEY CREEK NEAR MILTON, W. VA. (LAT 38 24 10 LONG 082 07 05.01)										
SEP , 1975										
17...	1500	.05	180	7.6	17.5	20	10.2	20	100	110
MAY , 1976										
25...	1420	.79	180	7.4	18.0	2	8.2	1860	150	85
382542082061001 - 128.0 KILGORE CREEK NEAR MILTON, W. VA. (LAT 38 25 42 LONG 082 06 10.01)										
SEP , 1975										
17...	1615	.06	275	7.8	18.0	2	8.7	300	340	90
MAY , 1976										
25...	1045	1.3	190	8.7	17.0	4	8.3	150	35	72
382521082061901 - 129.0 INDIAN FORK NEAR MILTON, W. VA. (LAT 38 25 21 LONG 082 06 19.01)										
SEP , 1975										
17...	1345	.20	410	7.4	17.0	5	4.6	1600	520	76
MAY , 1976										
25...	1135	.48	290	7.5	17.0	5	6.6	1960	40	80
382550082070101 - 130.0 KILGORE CREEK AT MILTON, W. VA. (LAT 38 25 50 LONG 082 07 01.01)										
SEP , 1975										
17...	1645	.27	340	7.5	16.0	7	6.8	300	2300	84
MAY , 1976										
25...	1230	1.8	210	7.2	17.0	7	7.7	1000	170	74
382636082094401 - 131.0 MILL CREEK NEAR MILTON, W. VA. (LAT 38 26 36 LONG 082 09 44.01)										
SEP , 1975										
18...	0830	1.3	190	8.1	18.0	6	5.2	2000	16000	69
MAY , 1976										
24...	1015	1.9	180	7.2	15.5	3	8.7	140	150	75
382736082100501 - 132.0 LOWER CREEK NEAR MILTON, W. VA. (LAT 38 27 36 LONG 082 10 05.01)										
SEP , 1975										
18...	0900	.29	280	8.0	17.0	15	4.8	420	9300	110
MAY , 1976										
24...	1140	.40	210	8.0	16.0	2	7.8	70	180	90

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	NON-CAR- BONATE HARD- NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)
382012082022601 - 122.0 SYCAMORE CREEK AT NYE, W. VA. (LAT 38 20 12 LONG 082 02 26.01)										
SEP , 1975										
17...	10	--	--	21	5.4	6.8	16	.3	2.6	79
MAY , 1976										
26...	11	--	--	19	4.7	6.4	17	.3	2.0	68
382006082041101 - 123.0 TRACE FORK NEAR BOWLES, W. VA. (LAT 38 20 06 LONG 082 04 11.01)										
SEP , 1975										
17...	12	--	--	26	5.5	6.2	13	.3	3.3	92
MAY , 1976										
26...	15	--	--	17	4.0	4.7	14	.3	1.9	53
381947082042401 - 124.0 BIG CREEK AT BOWLES, W. VA. (LAT 38 19 47 LONG 082 04 24.01)										
SEP , 1975										
17...	18	--	--	26	5.6	13	23	.6	3.3	85
MAY , 1976										
26...	25	--	--	25	5.0	7.3	16	.3	2.1	71
382301082072001 - 125.0 BIG TWOMILE CREEK NEAR MILTON, W. VA. (LAT 38 23 01 LONG 082 07 20.01)										
SEP , 1975										
17...	7	--	--	22	4.6	6.0	15	.3	1.8	81
MAY , 1976										
25...	25	--	--	19	4.5	3.9	11	.2	1.7	50
382410082070501 - 127.0 CHARLEY CREEK NEAR MILTON, W. VA. (LAT 38 24 10 LONG 082 07 05.01)										
SEP , 1975										
17...	18	--	--	31	8.2	14	21	.6	4.5	114
MAY , 1976										
25...	26	--	--	25	5.4	9.3	19	.4	2.2	72
382542082061001 - 128.0 KILGORE CREEK NEAR MILTON, W. VA. (LAT 38 25 42 LONG 082 06 10.01)										
SEP , 1975										
17...	28	--	--	26	6.2	16	27	.7	2.8	76
MAY , 1976										
25...	16	--	--	21	4.8	8.5	20	.4	2.2	69
382521082061901 - 129.0 INDIAN FORK NEAR MILTON, W. VA. (LAT 38 25 21 LONG 082 06 19.01)										
SEP , 1975										
17...	10	--	--	22	5.1	53	57	2.6	8.8	80
MAY , 1976										
25...	28	--	--	23	5.5	26	40	1.3	4.4	64
382550082070101 - 130.0 KILGORE CREEK AT MILTON, W. VA. (LAT 38 25 50 LONG 082 07 01.01)										
SEP , 1975										
17...	5	--	--	24	5.9	39	48	1.9	6.1	97
MAY , 1976										
25...	16	--	--	21	5.3	13	27	.7	2.9	71
382636082094401 - 131.0 MILL CREEK NEAR MILTON, W. VA. (LAT 38 26 36 LONG 082 09 44.01)										
SEP , 1975										
18...	13	--	--	21	4.0	8.9	21	.5	2.3	68
MAY , 1976										
24...	14	--	--	23	4.3	6.8	16	.3	1.8	74
382736082100501 - 132.0 LOWER CREEK NEAR MILTON, W. VA. (LAT 38 27 36 LONG 082 10 05.01)										
SEP , 1975										
18...	0	--	--	32	7.6	12	18	.5	3.5	145
MAY , 1976										
24...	9	--	--	27	5.5	7.7	15	.4	2.1	99

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
382012082022601 - 122.0 SYCAMORE CREEK AT NYE, W. VA. (LAT 38 20 12 LONG 082 02 26.01)										
SEP , 1975										
17...	0	65	2.5	10	11	--	99	.02	--	.03
MAY , 1976										
26...	0	56	6.9	19	5.5	3.8	95	.05	--	.07
382006082041101 - 123.0 TRACE FORK NEAR BOWLES, W. VA. (LAT 38 20 06 LONG 082 04 11.01)										
SEP , 1975										
17...	0	75	1.9	12	8.7	--	114	.52	--	.10
MAY , 1976										
26...	0	43	4.3	20	5.1	5.6	85	1.72	--	.16
381947082042401 - 124.0 BIG CREEK AT BOWLES, W. VA. (LAT 38 19 47 LONG 082 04 24.01)										
SEP , 1975										
17...	0	70	1.7	22	21	--	141	.06	--	.07
MAY , 1976										
26...	0	58	7.2	26	8.1	3.7	113	.20	--	.05
382301082072001 - 125.0 BIG TWOMILE CREEK NEAR MILTON, W. VA. (LAT 38 23 01 LONG 082 07 20.01)										
SEP , 1975										
17...	0	66	2.6	15	5.8	--	100	.01	--	.01
MAY , 1976										
25...	0	41	5.0	31	2.8	4.7	93	.13	--	.03
382410082070501 - 127.0 CHARLEY CREEK NEAR MILTON, W. VA. (LAT 38 24 10 LONG 082 07 05.01)										
SEP , 1975										
17...	0	94	4.6	15	19	--	153	.02	--	.00
MAY , 1976										
25...	0	59	4.6	23	10	4.0	115	.25	--	.06
382542082061001 - 128.0 KILGORE CREEK NEAR MILTON, W. VA. (LAT 38 25 42 LONG 082 06 10.01)										
SEP , 1975										
17...	0	62	1.9	13	31	--	138	.02	--	.28
MAY , 1976										
25...	0	57	.2	24	8.9	3.6	108	.38	--	.16
382521082061901 - 129.0 INDIAN FORK NEAR MILTON, W. VA. (LAT 38 25 21 LONG 082 06 19.01)										
SEP , 1975										
17...	0	66	5.1	48	35	--	--	--	--	4.0
MAY , 1976										
25...	0	53	3.2	32	21	11	170	.22	--	3.1
382550082070101 - 130.0 KILGORE CREEK AT MILTON, W. VA. (LAT 38 25 50 LONG 082 07 01.01)										
SEP , 1975										
17...	0	80	4.9	32	32	--	202	.15	--	1.9
MAY , 1976										
25...	0	58	7.2	25	12	6.0	124	.60	--	.78
382636082094401 - 131.0 MILL CREEK NEAR MILTON, W. VA. (LAT 38 26 36 LONG 082 09 44.01)										
SEP , 1975										
18...	0	56	.9	6.2	17	--	99	.35	--	.09
MAY , 1976										
24...	0	61	7.5	21	5.7	4.8	105	.54	--	.10
382736082100501 - 132.0 LOWER CREEK NEAR MILTON, W. VA. (LAT 38 27 36 LONG 082 10 05.01)										
SEP , 1975										
18...	0	119	2.3	5.7	8.8	--	--	--	--	.03
MAY , 1976										
24...	0	81	1.6	21	3.7	3.9	120	.13	--	--

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
382012082022601 - 122.0 SYCAMORE CREEK AT NYE, W. VA. (LAT 38 20 12 LONG 082 02 26.01)										
SEP , 1975										
17...	.01	.01	--	120	1300	370	580	570	--	--
MAY , 1976										
26...	.01	.01	--	20	580	130	250	250	--	--
382006082041101 - 123.0 TRACE FORK NEAR BOWLES, W. VA. (LAT 38 20 06 LONG 082 04 11.01)										
SEP , 1975										
17...	.00	.01	--	110	740	190	190	180	--	--
MAY , 1976										
26...	.01	.01	--	30	730	120	140	120	--	--
381947082042401 - 124.0 BIG CREEK AT BOWLES, W. VA. (LAT 38 19 47 LONG 082 04 24.01)										
SEP , 1975										
17...	.01	.01	--	100	720	210	140	130	--	--
MAY , 1976										
26...	.01	.01	--	20	650	140	120	120	--	--
382301082072001 - 125.0 BIG TWOMILE CREEK NEAR MILTON, W. VA. (LAT 38 23 01 LONG 082 07 20.01)										
SEP , 1975										
17...	.00	.01	--	100	1100	600	1800	1700	--	--
MAY , 1976										
25...	.00	.01	--	10	380	130	110	100	--	--
382410082070501 - 127.0 CHARLEY CREEK NEAR MILTON, W. VA. (LAT 38 24 10 LONG 082 07 05.01)										
SEP , 1975										
17...	.01	.07	--	70	1500	40	1600	1500	--	--
MAY , 1976										
25...	.01	.01	--	10	480	150	160	160	--	--
382542082061001 - 128.0 KILGORE CREEK NEAR MILTON, W. VA. (LAT 38 25 42 LONG 082 06 10.01)										
SEP , 1975										
17...	.01	.01	--	160	460	280	200	190	--	--
MAY , 1976										
25...	.01	.01	--	40	590	180	150	140	--	--
382521082061901 - 129.0 INDIAN FORK NEAR MILTON, W. VA. (LAT 38 25 21 LONG 082 06 19.01)										
SEP , 1975										
17...	.14	1.3	--	240	750	300	140	80	--	--
MAY , 1976										
25...	.09	.30	--	40	740	150	190	170	--	--
382550082070101 - 130.0 KILGORE CREEK AT MILTON, W. VA. (LAT 38 25 50 LONG 082 07 01.01)										
SEP , 1975										
17...	.07	.13	--	130	1800	640	280	270	--	--
MAY , 1976										
25...	.05	.05	--	30	1200	150	260	250	--	--
382636082094401 - 131.0 MILL CREEK NEAR MILTON, W. VA. (LAT 38 26 36 LONG 082 09 44.01)										
SEP , 1975										
18...	.01	.01	--	80	1600	360	1000	920	--	--
MAY , 1976										
24...	.01	.01	--	20	540	130	100	100	--	--
382736082100501 - 132.0 LOWER CREEK NEAR MILTON, W. VA. (LAT 38 27 36 LONG 082 10 05.01)										
SEP , 1975										
18...	.01	.02	--	120	950	50	990	850	--	--
MAY , 1976										
24...	.01	.01	--	10	460	150	200	200	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)
382540082121101 - 133.0 FUDGES CREEK AT ONA, W. VA. (LAT 38 25 40 LONG 082 12 11.01)										
MAY, 1976										
24...	1235	.44	240	7.4	18.0	3	7.8	20	180	100
382637082130701 - 134.0 BIG CABELL CREEK AT HOWELLS MILL, W. VA. (LAT 38 26 37 LONG 082 13 07.01)										
SEP, 1975										
18...	1000	.02	125	8.2	17.0	3	4.2	900	1300	110
MAY, 1976										
24...	1410	5.0	200	8.4	18.0	3	7.4	20	100	90
382606082141401 - 135.0 LITTLE CABELL CREEK NEAR ONA, W. VA. (LAT 38 26 06 LONG 082 14 14.01)										
MAY, 1976										
24...	1500	.78	230	7.5	17.0	1	6.8	10	220	97
382441082155201 - 136.0 CYRUS CREEK NEAR BARBOURSVILLE, W. VA. (LAT 38 24 41 LONG 082 15 52.01)										
SEP, 1975										
18...	1115	.94	450	8.0	18.5	350	7.1	22000	40000	160
MAY, 1976										
24...	1545	.11	560	7.8	25.0	6	8.8	600	200	180
382501082172801 - 137.0 MERRICK CREEK AT BARBOURSVILLE, W. VA. (LAT 38 25 01 LONG 082 17 28.01)										
SEP, 1975										
18...	1200	.90	1100	8.1	18.0	1	5.3	100	2700	480
MAY, 1976										
24...	1615	.02	640	7.3	17.5	1	8.3	100	100	300
382443082214401 - 140.0 RUSSELL CREEK AT HUNTINGTON, W. VA. (LAT 38 24 43 LONG 082 21 44.01)										
SEP, 1975										
19...	1400	.46	750	7.6	20.0	5	1.2	800000	120000	200
MAY, 1976										
24...	1830	.43	800	7.2	19.5	10	1.5	38000	7000	180
382443082231701 - 141.0 UNNMD TRIB TO GUYANDOTTE R AT MI 1.35 W.VA (LAT 38 24 43 LONG 082 23 17.01)										
MAY, 1976										
25...	0825	.05	500	7.5	14.0	3	7.1	1250	100	200
382503082232101 - 142.0 UNNMD TRIB TO GUYANDOTTE R AT MI 1.00 W.VA (LAT 38 25 03 LONG 082 23 21.01)										
MAY, 1976										
25...	0935	.20	2100	9.4	17.0	20	2.9	1800	530	120

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	TOTAL ACIDITY AS CaCO3 (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
382540082121101 - 133.0 FUDGES CREEK AT ONA, W. VA. (LAT 38 25 40 LONG 082 12 11.01)										
MAY , 1976 24...	16	--	--	31	6.4	12	20	.5	2.4	107
382637082130701 - 134.0 BIG CABELL CREEK AT HOWELLS MILL, W. VA. (LAT 38 26 37 LONG 082 13 07.01)										
SEP , 1975 18...	0	--	--	31	7.4	7.0	12	.3	3.7	132
MAY , 1976 24...	11	--	--	26	6.0	8.3	16	.4	2.1	96
382606082141401 - 135.0 LITTLE CABELL CREEK NEAR ONA, W. VA. (LAT 38 26 06 LONG 082 14 14.01)										
MAY , 1976 24...	27	--	--	28	6.6	8.7	16	.4	2.2	85
382441082155201 - 136.0 CYRUS CREEK NEAR BARBOURSVILLE, W. VA. (LAT 38 24 41 LONG 082 15 52.01)										
SEP , 1975 18...	27	--	--	41	14	21	22	.7	3.9	162
MAY , 1976 24...	21	--	--	49	13	29	26	1.0	5.8	189
382501082172801 - 137.0 MERRICK CREEK AT BARBOURSVILLE, W. VA. (LAT 38 25 01 LONG 082 17 28.01)										
SEP , 1975 18...	380	--	--	130	37	34	13	.7	4.3	113
MAY , 1976 24...	180	--	--	83	22	25	15	.6	3.4	142
382443082214401 - 140.0 RUSSELL CREEK AT HUNTINGTON, W. VA. (LAT 38 24 43 LONG 082 21 44.01)										
SEP , 1975 19...	66	--	--	55	16	49	33	1.5	9.2	167
MAY , 1976 24...	94	--	--	50	14	78	46	2.5	12	108
382443082231701 - 141.0 UNNMD TRIB TO GUYANDOTTE R AT MI 1.35 W.VA (LAT 38 24 43 LONG 082 23 17.01)										
MAY , 1976 25...	65	--	--	56	15	29	23	.9	3.2	167
382503082232101 - 142.0 UNNMD TRIB TO GUYANDOTTE R AT MI 1.00 W.VA (LAT 38 25 03 LONG 082 23 21.01)										
MAY , 1976 25...	0	--	--	30	11	490	88	19	24	260

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	FIXED NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)
382540082121101 - 133.0 FUDGES CREEK AT ONA, W. VA. (LAT 38 25 40 LONG 082 12 11.01)										
MAY , 1976 24...	0	88	6.8	27	8.8	3.8	145	.17	--	.05
382637082130701 - 134.0 BIG CABELL CREEK AT HOWELLS MILL, W. VA. (LAT 38 26 37 LONG 082 13 07.01)										
SEP , 1975 18...	0	108	1.3	7.3	5.3	--	132	.01	--	.00
MAY , 1976 24...	0	79	.6	22	4.8	4.3	122	1.65	--	.04
382606082141401 - 135.0 LITTLE CABELL CREEK NEAR ONA, W. VA. (LAT 38 26 06 LONG 082 14 14.01)										
MAY , 1976 24...	0	70	4.3	36	6.8	6.4	138	.29	--	.13
382441082155201 - 136.0 CYRUS CREEK NEAR BARBOURSVILLE, W. VA. (LAT 38 24 41 LONG 082 15 52.01)										
SEP , 1975 18...	0	133	2.6	50	20	--	237	.60	--	.27
MAY , 1976 24...	0	155	4.8	53	29	5.3	280	.08	--	.31
382501082172801 - 137.0 MERRICK CREEK AT BARBOURSVILLE, W. VA. (LAT 38 25 01 LONG 082 17 28.01)										
SEP , 1975 18...	0	93	1.4	390	38	--	694	1.69	--	.11
MAY , 1976 24...	0	116	11	220	22	5.1	452	.02	--	.13
382443082214401 - 140.0 RUSSELL CREEK AT HUNTINGTON, W. VA. (LAT 38 24 43 LONG 082 21 44.01)										
SEP , 1975 19...	0	137	6.7	83	53	--	366	.45	--	1.3
MAY , 1976 24...	0	89	11	110	74	11	428	.50	--	.03
382443082231701 - 141.0 UNNMD TRIB TO GUYANDOTTE R AT MI 1.35 W.VA (LAT 38 24 43 LONG 082 23 17.01)										
MAY , 1976 25...	0	137	8.5	75	44	9.2	317	.04	--	.48
382503082232101 - 142.0 UNNMD TRIB TO GUYANDOTTE R AT MI 1.00 W.VA (LAT 38 25 03 LONG 082 23 21.01)										
MAY , 1976 25...	0	213	.2	480	110	6.5	1680	.91	--	82

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

GUYANDOTTE RIVER BASIN--Continued

WATER QUALITY DATA, WATER YEARS OCTOBER 1974 TO SEPTEMBER 1976

DATE	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL ALUM- INUM (AL) (UG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
382540082121101 - 133.0 FUDGES CREEK AT ONA, W. VA. (LAT 38 25 40 LONG 082 12 11.01)										
MAY , 1976 24...	.01	.01	--	30	1200	280	540	530	--	--
382637082130701 - 134.0 BIG CABELL CREEK AT HOWELLS MILL, W. VA. (LAT 38 26 37 LONG 082 13 07.01)										
SEP , 1975 18...	.01	.02	--	70	380	60	270	200	--	--
MAY , 1976 24...	.01	.01	--	30	700	180	310	300	--	--
382606082141401 - 135.0 LITTLE CABELL CREEK NEAR ONA, W. VA. (LAT 38 26 06 LONG 082 14 14.01)										
MAY , 1976 24...	.00	.01	--	10	390	220	270	260	--	--
382441082155201 - 136.0 CYRUS CREEK NEAR BARBOURSVILLE, W. VA. (LAT 38 24 41 LONG 082 15 52.01)										
SEP , 1975 18...	.05	.10	--	150	31000	70	700	200	--	--
MAY , 1976 24...	.08	.20	--	30	770	80	670	650	--	--
382501082172801 - 137.0 MERRICK CREEK AT BARBOURSVILLE, W. VA. (LAT 38 25 01 LONG 082 17 28.01)										
SEP , 1975 18...	.01	.01	--	90	260	30	210	150	--	--
MAY , 1976 24...	.01	.01	--	50	450	80	420	380	--	--
382443082214401 - 140.0 RUSSELL CREEK AT HUNTINGTON, W. VA. (LAT 38 24 43 LONG 082 21 44.01)										
SEP , 1975 19...	.42	3.2	--	50	1100	100	1600	880	--	--
MAY , 1976 24...	.02	7.7	--	40	1200	400	1100	1000	--	--
382443082231701 - 141.0 UNNMD TRIB TO GUYANDOTTE R AT MI 1.35 W.VA (LAT 38 24 43 LONG 082 23 17.01)										
MAY , 1976 25...	.03	.07	--	40	560	90	490	460	--	--
382503082232101 - 142.0 UNNMD TRIB TO GUYANDOTTE R AT MI 1.00 W.VA (LAT 38 25 03 LONG 082 23 21.01)										
MAY , 1976 25...	6.9	.12	--	3400	990	180	680	480	--	--

BENTHIC INVERTEBRATES

MONONGAHELA RIVER BASIN

TAYLOR RUN NEAR BOWDEN, WV (Lat 38 55 02 Long 079 41 09)

Date	Time	Organism	Organism count (total)	Percent Compo- sition	Di- versity index	Sampling method
Mar 16	0945	ANNELIDA				Net
		Oligochaeta				
		Unknown Order				
		Unknown Family				
		Unknown Genus	1			
		ARTHROPODA				
		Crustacea				
		Amphipoda				
		Gammaridae				
		Gammarus	2	2		
		Insecta				
		Diptera				
		Chironomidae				
		Brillia	2	2		
		Parametriocnemus	4	4		
		Simuliidae				
		Prosimulium	1	1		
		Tipulidae				
		Eriocera	1	1		
		Limnophila	2	2		
		Tipula	6	6		
		Ephemeroptera				
		Baetidae				
		Baetis	4	4		
		Ephemerellidae				
		Ephemerella	5	5		
		Heptageniidae				
		Stenonema	2	2		
		Leptophlebiidae				
		Paraleptophlebia	2	2		
		Siphonuridae				
		Siphonurus	1	1		
		Megaloptera				
		Corydalidae				
		Nigronia	1	1		
		Plecoptera				
		Chloroperlidae				
		Hastaperla	6	6		
		Leuctridae				
		Leuctra	1	1		
		Peltoperlidae				
		Peltoperla	36	34		
		Perlidae				
		Acroneuria	1	1		
		Isogenus	4	4		
		Pteronarcidae				
		Pteronarcys	6	6		
		Hydropsychidae				
		Cheumatopsyche	5	5		
		Hydropsyche	3	3		
		Limnephilidae				
		Pycnopsyche	6	6		
		Philopotamidae				
		Sortosa	2	2		
		Psychomyiidae				
		Polycentropus	1	1		
		TOTAL	105		3.74	

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	SUS- PENDE SEDI- MENT DIS- CHARGE (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
MAR 16...	0945	6.0	80	7.8	5.0	1	1	.02

MISCELLANEOUS QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA,
WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

BENTHIC INVERTEBRATES

MONONGAHELA RIVER BASIN

STALNAKER RUN NEAR BOWDEN, WV (Lat 38 55 02 Long 079 41 11)

Date	Time	Organism	Organism count (total)	Percent Compo- sition	Di- versity index	Sampling method
Mar 16	0930	ANNELIDA				Net
		Oligochaeta				
		Prospora				
		Branchiobdellidae				
		Unknown Genus	3	4		
		ARTHROPODA				
		Crustacea				
		Decapoda				
		Astacidae				
		Unknown Genus	1	1		
		Insecta				
		Diptera				
		Chironomidae				
		Micropsectra	1	1		
		Parametriocnemus	1	1		
		Tipulidae				
		Eriocera	1	1		
		Tipula	3	4		
		Ephemeroptera				
		Ephemerellidae				
		Ephemerella	8	10		
		Heptageniidae				
		Epeorus	4	5		
		Stenacron	2	2		
		Siphonuridae				
		Ameletus	3	4		
		Plecoptera				
		Leuctridae				
		Leuctra	1	1		
		Peltoperlidae				
		Peltoperla	34	43		
		Perlodidae				
		Isogenus	6	8		
		Pteronarcidae				
		Pteronarcys	1	1		
		Trichoptera				
		Hydropsychidae				
		Cheumatopsyche	1	1		
		Hydropsyche	4	5		
		Limnephilidae				
		Neophylax	4	5		
		Rhyacophilidae				
		Rhyacophila	1	1		
		TOTAL	79		3.06	

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
MAR 16...	0930	4.0	50	7.2	5.0	2	2	.02

BENTHIC INVERTEBRATES

MONONGAHELA RIVER BASIN

LITTLE BLACK FORK NEAR ELKINS, WV (Lat 38 58 56 Long 079 43 46)

Date	Time	Organism	Organism count (total)	Percent Comp- sition	Di- versity index	Sampling method
Mar 15	1450	ANNELIDA				Net
		Oligochaeta				
		Unknown Order				
		Unknown Family				
		Unknown Genus	1	1		
		ARTHROPODA				
		Crustacea				
		Decapoda				
		Astacidae				
		Unknown Genus	1	1		
		Insecta				
		Diptera				
		Blepharoceridae				
		Blepharocera	3	3		
		Chironomidae				
		Ablabesmyia	1	1		
		Heterotrissocladius	3	3		
		Micropectra	1	1		
		Thienemanniella	2	2		
		Liriopeidae				
		Liriope	1	1		
		Simuliidae				
		Prosimulium	1	1		
		Tipulidae				
		Eriocera	2	2		
		Ephemeroptera				
		Baetidae				
		Baetis	8	8		
		Ephemerellidae				
		Ephemerella	6	6		
		Ephemeridae				
		Ephemera	1	1		
		Heptageniidae				
		Epeorus	25	24		
		Stenacron	1	1		
		Stenonema	7	7		
		Leptophlebiidae				
		Paraleptophlebia	6	6		
		Siphonuridae				
		Ameletus	1	1		
		Hemiptera				
		Gerridae				
		Gerris	1	1		
		Megaloptera				
		Corydalidae				
		Nigronia	1	1		
		Odonata				
		Gomphidae				
		Octogomphus	3	3		
		Plecoptera				
		Chloroperlidae				
		Hastaperla	2	2		
		Peltoperlidae				
		Peltoperla	12	12		
		Pteronarcidae				
		Pteronarcys	1	1		
		Trichoptera				
		Hydropsychidae				
		Cheumatopsyche	8	8		
		Hydropsyche	1	1		
		Limnephilidae				
		Neophylax	2	2		
		TOTAL	102		3.91	

GROUND-WATER RECORDS

GROUND-WATER LEVELS

BERKELEY COUNTY

392725077582401. Local number, 20-5-7.

LOCATION.--Lat 39°27'25", long 77°58'24", Hydrologic Unit 02070004, at John Street and Porter Avenue, Martinsburg.

Owner: Martinsburg Mills, Inc.

AQUIFER.--Beekmantown Limestone of Lower Ordovician Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 250 ft (76.2 m), cased with steel to 10 ft (3.05 m).

DATUM.--Land-surface datum is about 445 ft (136 m) above mean sea level. Measuring point: Top edge of recorder shelter base, 3.3 ft (1.01 m) above land-surface datum.

REMARKS.--No water-level record Oct. 1-20, Dec. 19-20.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, *23.00 ft (7.01 m) below land-surface datum, June 24, 1972; lowest, 68.45 ft (20.86 m) below land-surface datum, Dec. 7, 1969.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
NOON VALUES FROM DIGITAL RECORDER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	.....	38.17	40.29	.....	40.56	44.35	40.33	41.14	39.04	40.00	42.00	44.74
10	.....	38.55	40.54	.....	41.31	44.69	39.94	41.07	39.91	40.12	41.93	45.04
15	.....	36.40	41.45	.....	42.17	43.36	40.12	41.06	40.37	39.38	42.63	45.55
20	*34.09	37.81	.....	.....	42.62	43.66	40.53	39.98	40.09	40.12	43.24	43.46
25	35.82	38.74	.....	41.19	43.12	44.18	41.15	40.24	40.39	39.89	43.76	44.87
Eom	37.28	39.71	.....	40.39	43.67	43.95	41.37	39.32	39.68	41.18	44.25	44.85

WTR YEAR 1976 MAX *34.09 OCT 20, 1975 MIN 45.57 SEP 14, 1976

* Estimated.

BRAXTON COUNTY

384003080462601. Local number, 34-2-15.

LOCATION.--Lat 38°40'03", long 80°46'26", Hydrologic Unit 05050007, at Kanawha Street, Gassaway.

Owner: Claude Cunningham.

AQUIFER.--Conemaugh Group of Upper Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 100 ft (30.5 m), cased with steel.

DATUM.--Land-surface datum is about 1,100 ft (335 m) above mean sea level. Measuring point: Top of casing, 1.92 ft (0.59 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.28 ft (22.03 m) below land-surface datum, Mar. 7, 1973; lowest measured, 74.88 ft (22.82 m) below land-surface datum, Aug. 11, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	73.88	DEC 3	73.84	FEB 4	73.28	APR 7	73.20	JUN 2	73.81	AUG 4	73.67
8	73.87	10	73.83	11	73.23	14	73.38	9	73.83	11	73.73
15	73.87	17	73.76	18	73.16	21	73.51	16	73.84	18	73.79
22	73.86	24	73.73	25	73.28	28	73.58	23	73.85	25	73.82
29	73.86	31	73.60	MAR 3	73.35	MAY 5	73.68	30	73.84	SEP 1	73.83
NOV 5	73.86	JAN 7	73.50	10	73.40	12	73.72	JUL 7	73.84	8	73.83
12	73.86	14	73.43	17	73.39	19	73.77	14	73.58	15	73.83
19	73.83	21	73.36	24	73.28	26	73.80	21	73.44	22	73.83
26	73.86	28	73.31	31	73.23			28	73.53	29	73.81

CLAY COUNTY

382648081055201. Local number, 35-2-1.

LOCATION.--Lat 38°26'48", long 81°05'52", Hydrologic Unit 05050007, at Clay County schoolgrounds, Clay.

Owner: Clay County Board of Education.

AQUIFER.--Pottsville Group of Lower Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 76 ft (23.2 m), cased with steel.

DATUM.--Land-surface datum is about 700 ft (213 m) above mean sea level. Measuring point: Top of casing, 3.5 ft (1.07 m) below land-surface datum.

REMARKS.--Water level affected by change in stage of Elk River.

PERIOD OF RECORD.--February 1972 to June 1976, discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.47 ft (4.11 m) below land-surface datum, Feb. 26, 1972; lowest, 27.79 ft (8.47 m) below land-surface datum, June 16, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
NOON VALUES FROM GRAPHIC RECORDER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.60	26.47	.....	.....	.....	26.41	.....	.....	26.95			
10	26.93	26.50	.....	.....	.....	25.71	.....	.....	27.41			
15	.....	23.92	.....	22.83	.....	24.45	.....	.....	27.54			
20	.....	25.04	.....	.....	.....	24.97	.....	.....	23.33	27.62		
25	26.20	25.72	.....	.....	.....	23.92	.....	.....	26.22	.....		
Eom	26.56	26.32	.....	.....	25.50	.....	.....	27.13	.....	.....		

WTR YEAR 1976 MAX 22.21 MAR 22, 1976 MIN 27.79 JUN 16, 1976

GROUND-WATER LEVELS

409

GILMER COUNTY

385604080495901. Local number, 35-3-1.

LOCATION.--Lat 38°56'04", long 80°49'59", Hydrologic Unit 05030203, at Glenville State College Campus, Glenville.

Owner: Glenville State College.

AQUIFER.--Upper part of Conemaugh Formation of Upper Pennsylvanian Age.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 3 ft (0.91 m), depth 25 ft (7.62 m), cased with concrete tile.

DATUM.--Land-surface datum is about 820 ft (250 m) above mean sea level. Measuring point: Top of concrete cover at land-surface datum.

REMARKS.--West Virginia index well.

PERIOD OF RECORD.--October 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.58 ft (414 m) below land-surface datum, Jan. 26, 1958; lowest measured, 18.75 ft (5.72 m) below land-surface datum, Nov. 30, 1953.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 6	17.15	DEC 1	17.12	FEB 2	15.48	APR 5	16.03	JUN 7	17.25	AUG 9	16.61
13	17.00	8	17.14	9	15.79	12	16.31	14	17.38	16	16.92
20	16.65	15	16.84	16	15.84	20	16.52	21	17.47	23	17.13
24	16.67	29	16.29	23	15.92	26	16.84	28	17.19	30	17.36
NOV 3	16.98	JAN 5	15.38	MAR 1	16.23	MAY 3	16.97	JUL 6	17.13	SEP 7	17.42
10	17.14	12	15.66	8	16.60	10	17.00	12	17.15	13	17.45
17	16.97	19	15.86	15	16.55	17	17.01	20	16.89	20	17.56
24	17.05	26	16.00	22	15.91	24	16.93	26	15.77	27	17.65
				29	16.04	31	17.18				

GREENBRIER COUNTY

374804080174001. Local number, 45-8-2.

LOCATION.--Lat 37°48'04", long 80°17'40", Hydrologic Unit 05050003, at Fish Culture Station, U.S. Fish and Wildlife Service Hatchery, White Sulphur Springs.

Owner: U.S. Government.

AQUIFER.--Marcellus Formation and Hamilton Formation of Middle Devonian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 61 ft (18.6 m), cased with steel.

DATUM.--Land-surface datum is about 1,875 ft (572 m) above mean sea level. Measuring point: Top of casing, 0.9 ft (0.27 m) above land surface datum.

PERIOD OF RECORD.--November 1953 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.80 ft (0.85 m) below land-surface datum, Mar. 16, 1955; lowest measured, 7.77 ft (2.37 m) below land-surface datum, Sept. 28, Oct. 5, 1968.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 4	5.49	DEC 6	5.13	FEB 7	4.77	APR 3	4.80	JUN 5	4.76	AUG 7	5.50
11	5.35	13	5.18	14	4.79	10	4.88	12	4.96	14	5.69
18	4.40	20	5.15	21	4.75	17	4.94	19	5.00	21	6.08
25	5.10	27	4.85	28	4.89	24	4.94	26	4.85	28	6.04
NOV 1	5.16	JAN 3	4.61	MAR 6	4.91	MAY 1	4.90	JUL 3	5.10	SEP 4	5.56
8	5.24	10	4.83	13	4.67	8	4.87	10	5.18	11	5.28
15	4.88	17	4.90	20	4.81	15	4.94	17	5.22	18	5.37
22	5.00	24	4.92	27	4.89	22	4.81	24	5.38	25	5.58
29	5.10	31	4.76			29	4.84	31	5.33		

374809080173901. Local number, 45-8-4.

LOCATION.--Lat 37°48'09", long 80°17'39", Hydrologic Unit 05050003, at Greenbrier State Park, West Virginia Dept. of Natural Resources, near White Sulphur Springs.

Owner: State of West Virginia.

AQUIFER.--Marcellus Formation of Middle Devonian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 44 ft (13.4 m), cased with steel.

DATUM.--Land-surface datum is about 1,875 ft (572 m) above mean sea level. Measuring point: Top of breather pipe, in sanitary seal, 1.48 ft (0.45 m) above land-surface datum.

PERIOD OF RECORD.--December 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.02 ft (0.92 m) below land-surface datum, Mar. 20, 1975; lowest measured, 11.46 ft (3.49 m) below land-surface datum, Oct. 18, 1973.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	10.47	NOV 6	9.12	DEC 4	8.92	JAN 8	9.40				
9	10.49	13	9.07	11	9.22	15	7.12				
16	9.22	20	8.92	18	9.62	22	7.07				

GROUND-WATER LEVELS

HAMPSHIRE COUNTY

391257078404601. Local number, 23-6-46.

LOCATION.--Lat 39°12'57", long 78°40'46", Hydrologic Unit 02070003, about 4 miles (6.4 km) south of Augusta on State Route 7.

Owner: Loring Hott.

AQUIFER.--Hampshire Formation of Upper Devonian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 37 ft (11.3 m), cased with tile.

DATUM.--Land-surface datum is about 1,400 ft (427 m) above mean sea level. Measuring point: Top of casing at land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.30 ft (0.09 m) below land-surface datum, Sept. 25, 1975; lowest, *16.69 ft (5.09 m) below land surface datum, July 15, 1973.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
NOON VALUES FROM GRAPHIC RECORDER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5			13.24	.....	.....	12.46	11.58	13.72	14.40	14.69	10.61	10.37
10			13.25	.....	.....	12.81	12.43	13.95	14.47	.....	8.04	10.48
15		1.53	11.16	.....	.....	1.14	12.86	14.07	.....	.....	9.55	10.70
20	0.46	11.19	12.14	.....	.....	.....	.....	13.98	.....	.....	.....	10.14
25		12.35	12.83	12.97	.....	11.98	13.27	14.22	14.63	.....	10.10	10.38
Eom		12.92	1.44	9.82	11.86	12.60	13.60	14.29	14.63	10.43	10.34	8.83

WTR YEAR 1976 MAX 0.43 OCT 18, 1975 MIN 14.78 JUN 18, 1976

* Estimated.

HARDY COUNTY

390431078415901. Local number, 25-2-42.

LOCATION.--Lat 39°04'31", long 78°41'59", Hydrologic Unit 02070003, about 7 miles (11.3 km) northeast of Baker on Secondary State Route 23/8.

Owner: Potomac Valley Soil Conservation District.

AQUIFER.--Tonoloway Formation of Upper Silurian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 58 ft (17.7 m), cased with tin pipe to 1 ft (0.30 m).

DATUM.--Land-surface datum is about 1,863 ft (568 m) above mean sea level. Measuring point: Top of tin casing, 0.3 ft (0.09 m) above land-surface datum.

REMARKS.--Water level affected by blasting at nearby limestone quarry. Well is now about 43 ft (13.1 m) deep due to walls caving.

PERIOD OF RECORD.--May 1972 to Nov. 1976, discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.81 ft (4.51 m) below land-surface datum, Mar. 19, 1975; lowest, below 44.30 ft (13.50 m) below land-surface datum, Aug. 19, Sept. 25, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
NOON VALUES FROM GRAPHIC RECORDER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	26.84	.....	33.11	25.53	28.41	30.06	29.76	34.33	41.25	.....	.....	.....
10	28.79	.....	.....	27.99	28.82	30.75	30.13	35.75	*41.88	.....	.....	.....
15	29.33	.....	.....	28.74	38.99	38.18	30.86	37.11	.....	.....	.....	.....
20	24.63	29.33	33.48	.....	29.01	29.18	31.44	38.02	.....	.....	.....	.....
25	27.23	*30.68	33.99	30.04	29.17	29.65	32.16	39.20	.....	.....	.....	39.37
Eom	28.98	32.28	29.27	27.46	29.52	30.50	33.43	40.39	.....	.....	.....	37.14

WTR YEAR 1976 MAX 23.66 JAN 1, 1976 MIN 42.34 JUN 14, 1976

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, FOR PERIOD OCTOBER TO NOVEMBER 1976
NOON VALUES FROM GRAPHIC RECORDER

DAY	OCT	NOV
5	.....	26.24
10	.....	28.12
15	.....	29.03
20	*28.73	29.27
25	26.40	.....
Eom	24.88	.....

PERIOD OCT-NOV 1976 MAX 23.34 OCT 1 MIN 33.67 OCT 26

* Estimated.

411

385714078441301. Local number, 25-4-5.

Owner: U.S. Forest Service.

AQUIFER.--Helderberg Group of Early Devonian Age and Tonoloway Formation of Late Silurian Age.

DATUM.--Land-surface datum is about 1,920 ft (585 m) above mean sea level. Measuring point: Top of well casing, 0.9 ft (0.27 m) above land-surface datum.

REMARKS.--Crooked well bore causes drag on float tape.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, *263.00 ft (80.16 m) below land-surface datum, July 15, 1972; lowest, *274.15 ft (83.56 m) below land-surface datum Nov. 6, 1970.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5		270.91	270.88	270.94	269.96	269.57	269.45	269.40			271.07	
10		270.86	270.82	270.64	269.67	269.51	269.45	269.40			271.10	
15		270.84	270.98	270.54	269.67	269.65	269.42	269.40			271.23	
20		*270.81	270.96	270.51	269.61	269.55	269.40				271.23	
25	271.06	270.85	271.06	270.12	269.62	269.47	269.40				271.03	
Eom	270.99	270.88	271.08	269.99	269.49	269.47	269.40				271.03	

WTR YEAR 1976 MAX 269.33 MAR 16, 1976 MIN 271.23 SEP 12-20, 1976

* Estimated.

382055081375301. Local number, 40-5-14.

LOCATION.--Lat 38°20'55", long 81°37'53", Hydrologic Unit 05050006, at Dickinson and Lee Streets, Charleston.

Owner: A. W. Cox Department Store, formerly Coyle and Richardson Department Store.

AQUIFER.--Pottsville Formation of Lower Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.20 m), depth 208 ft (63.4 m), cased with steel to 42 ft (12.8 m).

DATUM.--Land-surface datum is about 575 ft (175 m) above mean sea level. Measuring point: Top of casing, 12 ft (3.66 m) below land-surface datum.

REMARKS.--Water level affected by stage of Kanawha River.

PERIOD OF RECORD.--September 1941, January 1942 to May 1947, weekly water-level measurements, May 1947 to October 1976, water-level recorder, discontinued.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.71 ft (8.14 m) below land-surface datum, Jan. 12, 1974; lowest measured, 43.44 ft (13.24 m) below land-surface datum, Sept. 6, 1945.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	28.81	28.91	28.99	28.25	28.61	28.69		29.12	29.30	29.24	29.32	29.41
10	28.85	28.85	28.88		28.51	28.78		29.15	29.22	29.32	29.39	29.44
15	28.85	28.84	28.91		28.58	28.75		29.15	29.28	29.26	29.36	29.44
20	28.82	28.77	28.87	28.66	28.49	28.78		29.17	29.19	29.34	29.44	29.39
25	28.75	28.80	29.01	28.75	28.55	28.68		29.10	29.03	29.32	29.44	29.52
Eom	28.90	28.86	28.82	28.34	28.53		29.09	29.17	29.08	29.27	29.47	29.43

WTR YEAR 1976 MAX 27.92 JAN 3, 1976 MIN 29.54 SEP 19, 1976

NOTE.--Maximum water level for period Oct. 1-8, 1976, 29.38 ft Oct. 2, minimum, 29.44 ft Oct. 5, 7, 8.

390553080280801. Local number, 16-1-8.

LOCATION.--Lat 39°05'53", long 80°28'08", Hydrologic Unit 05020002, at Jackson's Mill State 4-H Camp, Jackson's Mill.

Owner: West Virginia University.

AQUIFER.--Conemaugh and Allegheny Formations of Upper and Middle Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in (0.30 m), depth 92 ft (28.0 m), cased.

DATUM.--Land-surface datum is about 1,020 ft (311 m) above mean sea level. Measuring point: Hole in concrete pump platform at land-surface datum.

REMARKS.--Water level affected by stage of West Fork River.

PERIOD OF RECORD.--May 1961 to current year

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.40 ft (2.87 m) below land-surface datum, Dec. 30, 1969; lowest measured, 23.85 ft (7.27 m) below land-surface datum, Oct. 14, 1963.

[illegible]

GROUND-WATER LEVELS

LEWIS COUNTY--Continued

390553080280802. Local number, 16-1-9.
 LOCATION.--Lat 39°05'53", long 80°28'08", Hydrologic Unit 05020002, at Jackson's Mill State 4-H Camp, Jackson's Mill.
 Owner: West Virginia University.
 AQUIFER.--Conemaugh and Allegheny Formations of Upper and Middle Pennsylvanian Age.
 WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in (0.30 m), depth 122 ft (37.2 m), cased.
 DATUM.--Land-surface datum is about 1,020 ft (311 m) above mean sea level. Measuring point: Drilled hole in steel plate covering casing at land-surface datum.
 REMARKS.--Water level affected by stage of West Fork River.
 PERIOD OF RECORD.--May 1961 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.88 ft (2.71 m) below land-surface datum, Dec. 30, 1969; lowest measured, 23.95 ft (7.30 m) below land-surface datum, Sept. 18, 1961.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	22.28	NOV 7	20.37	JAN 7	16.27	APR 30	21.99				
10	21.82	14	20.66	9	18.28	MAY 7	22.19				
17	19.37	21	22.03	16	19.56	14	20.69				
24	21.34	28	22.79	23	21.16	21	21.40				
30	20.45										

MARSHALL COUNTY

395608080452301. Local number, 4-3-8.
 LOCATION.--Lat 39°56'08", long 80°45'23", Hydrologic Unit 05030106, on U.S. Highway 250, Glendale.
 Owner: Triangle Conduit and Cable Company.
 AQUIFER.--Gravel.
 WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in (0.25 m), depth 100 ft (30.5 m), cased.
 DATUM. Land-surface datum is about 650 ft (198 m) above mean sea level. Measuring point: Top edge of recorder shelter base, 4 ft (1.22 m) below land-surface datum.
 PERIOD OF RECORD.--June 1950 to August 1965, water-level recorder, January 1967 to August 1968, water-level recorder, August 1968 to current year, weekly water-level measurements.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 54.68 ft (16.67 m) below land-surface datum, Jan. 31, 1952; lowest, 73.80 ft (22.49 m) below land-surface datum, Nov. 8, Nov. 22, 1957.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	60.63	DEC 5	59.51	FEB 10	59.78	APR 14	60.30	JUN 8	59.30		
9	60.78	12	59.44	18	59.50	22	60.61	17	61.65		
20	60.56	23	59.91	27	58.40	26	60.58	28	62.40		
28	60.40	31	59.25	MAR 1	58.56	MAY 3	60.54	SEP 13	60.93		
NOV 7	59.99	JAN 7	59.35	8	59.09	17	60.75	20	60.91		
14	60.09	15	59.15	23	59.84	24	60.89	27	60.95		
26	60.24	22	59.36								
		29	59.40								

MASON COUNTY

385450082064601. Local number, 38-3-53.
 LOCATION.--Lat 38°54'50", long 82°06'46", Hydrologic Unit 05030202, 4 miles (6.4 km) north of Pt. Pleasant on State Route 62.
 Owner: West Virginia University, Ohio Valley Agricultural Experiment Station.
 AQUIFER.--Alluvial sand and gravel.
 WELL CHARACTERISTICS.--Drilled water-table irrigation well, diameter 12 in (0.30 m), 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).
 DATUM.--Land-surface datum is about 600 ft (183 m) above mean sea level. Measuring point: Edge of pump housing above hole on east side of pump, 1.4 ft (0.43 m) above land-surface datum.
 PERIOD OF RECORD.--May 1958 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.62 ft (10.86 m) below land-surface datum, July 11, 1975; lowest measured, 42.54 ft (12.97 m) below land-surface datum, Jan. 16, 1970.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	36.79	DEC 5	37.74	FEB 6	38.26	APR 2	38.26	JUN 4	38.69	AUG 6	38.83
10	36.90	12	37.83	13	38.31	9	38.30	11	38.77	13	38.79
17	36.94	19	37.97	20	38.40	16	38.60	18	38.81	20	38.78
24	37.15	26	38.06	27	38.29	23	38.50	25	38.88	27	38.77
31	37.28	JAN 2	38.15	MAR 5	38.30	30	38.48	JUL 2	38.92	SEP 3	38.76
NOV 7	37.35	9	38.22	12	38.30	MAY 7	38.52	9	38.96	10	38.73
14	37.40	16	38.20	19	38.00	14	38.56	16	39.06	17	38.75
21	37.50	23	38.28	26	38.22	21	38.60	23	38.98	24	38.80
28	27.67	30	38.27			28	38.66	30	38.87		

GROUND-WATER LEVELS

413

MASON COUNTY--Continued

385451082062001. Local number, 38-3-54.

LOCATION.--Lat 38°54'51", long 82°06'20", Hydrologic Unit 05030202, about 0.5 mile (0.8 km) east of intersection of State Route 62 and Secondary State Route 13.

Owner: West Virginia University, Ohio Valley Agricultural Experiment Station.

AQUIFER.--Conemaugh Formation of Upper Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 131 ft (39.9 m), cased with steel to 60 ft (18.3 m).

DATUM.--Land-surface datum is about 615 ft (187 m) above mean sea level. Measuring point: Top of casing, 3.0 ft (0.91 m) above land-surface datum.

PERIOD OF RECORD.--November 1959 to January 1960, weekly water-level measurements, January 1960 to current year, water-level recorder.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.28 ft (7.10 m) below land-surface datum, June 12-14, 1975; lowest, 26.20 ft (7.99 m) below land surface datum, Jan. 1, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
NOON VALUES FROM GRAPHIC RECORDER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.38	24.52	24.60	24.51	24.35	24.28	24.28	24.47	24.55	24.61	24.33	24.25
10	24.41	24.52	24.57	24.46	24.34	24.29	24.33	24.51	24.63	24.66	24.27	24.31
15	24.46	24.49	24.62	24.42	24.37	24.27	24.37	24.54	24.69	24.48	24.23	24.37
20	24.39	24.55	24.60	24.42	24.27	24.27	24.42	24.49	24.66	24.41	24.26	24.40
25	24.42	24.59	24.63	24.39	24.26	24.28	24.40	24.55	24.62	24.32	24.31	24.45
Eom	24.48	24.60	24.55	24.35	24.26	24.29	24.45	24.57	24.57	24.33	24.26	24.33

WTR YEAR 1976 MAX 24.22 AUG 16, 1976 MIN 24.71 JUN 18, 19, 1976

MERCER COUNTY

372623081071101. Local number, 48-2-4.

LOCATION.--Lat 37°26'23", long 81°07'11", Hydrologic Unit 05050002, at Spanishburg High School, Princeton.

Owner: Mercer County Board of Education.

AQUIFER.--Mauch Chunk Group of Upper Mississippian Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 8 in (0.20 m), reported depth 200+ ft (61+ m), cased with steel.

DATUM.--Land-surface datum is about 2,070 ft (631 m) above mean sea level. Measuring point: Top of sanitary seal on casing, 2.05 ft (0.62 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.55 ft (4.13 m) below land-surface datum, Sept. 13, 1973; lowest measured, 25.55 ft (7.79 m) below land-surface datum, Mar. 14, 1974.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	20.95	FEB 3	13.95	FEB 9	16.95	FEB 16	14.95	FEB 27	14.95		

372149081055001. Local number, 48-5-1.

LOCATION.--Lat 37°21'49", long 81°05'50", Hydrologic Unit 05050002, at Princeton Water Service, Company No. 1 well, Princeton.

Owner: West Virginia Service Company.

AQUIFER.--Sandstone and shale of Hinton Group of Upper Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 249 ft (75.9 m), cased.

DATUM.--Land-surface datum is about 2,387 ft (728 m) above mean sea level. Measuring point: Top of iron collar, 5.50 ft (1.68 m) above land-surface datum.

REMARKS.--Water level affected by nearby pumping. Well flows at times.

PERIOD OF RECORD.--March 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.0 ft (0.00 m) flowing at land-surface datum, many days since 1968; lowest measured, 90.58 ft (27.61 m) below land-surface datum, Dec. 10, 1969.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	flowing	DEC 3	flowing	FEB 4	flowing	APR 7	flowing	JUN 2	flowing	AUG 4	0.99
8	flowing	10	flowing	11	flowing	14	flowing	9	0.98	11	1.01
15	flowing	17	flowing	18	flowing	21	flowing	16	0.87	18	2.17
22	flowing	31	flowing	25	flowing	28	flowing	23	0.86	25	2.12
29	flowing	JAN 7	flowing	MAR 3	flowing	MAY 5	flowing	30	0.85	SEP 1	2.09
NOV 5	flowing	14	flowing	10	flowing	12	flowing	JUL 7	0.82	8	2.06
12	flowing	21	flowing	17	flowing	19	flowing	14	0.78	22	2.10
19	flowing	28	flowing	24	flowing	26	flowing	21	0.76	29	2.10
26	flowing			31	flowing			28	0.80		

GROUND-WATER LEVELS

MINERAL COUNTY

393018078455301. Local number, 22-1-32.

LOCATION.--Lat 39°30'18", long 78°45'53", Hydrologic Unit 02070002, at Mineral County School, Fort Ashby.

Owner: Mineral County Board of Education.

AQUIFER.--Mahantango Formation of Middle Devonian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in (0.25 m), depth 96 ft (29.3 m), cased with steel.

DATUM.--Land-surface datum is about 600 ft (183 m) above mean sea level. Measuring point: Top of casing, 1.5 ft (0.46 m) below land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.96 ft (2.73 m) below land-surface datum, Apr. 11, 1973; lowest measured, 13.57 ft (4.14 m) below land-surface datum, Sept. 20, 1972.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	9.97	DEC 3	11.16	FEB 4	10.66	APR 7	10.26	JUN 2	12.73	AUG 4	13.35
8	10.81	10	11.17	11	10.78	14	11.08	9	12.97	11	12.56
15	10.40	17	11.30	18	10.25	21	11.37	16	13.19	18	12.77
22	9.41	24	10.76	25	10.42	28	11.77	23	12.69	25	13.07
29	10.07	31	10.32	MAR 3	11.31	MAY 5	11.97	30	12.96	SEP 1	13.27
NOV 5	10.79	JAN 7	9.99	10	10.80	12	12.23	JUL 7	13.22	8	13.37
12	10.95	15	10.93	17	11.02	19	12.16	14	13.21	15	13.36
19	10.48	21	10.94	24	11.14	26	12.58	21	13.14	22	12.76
26	10.86	28	10.97	31	10.25			28	13.46	29	12.73

392114079081101. Local number, 22-5-23.

LOCATION.--Lat 39°21'14", long 79°08'11", Hydrologic Unit 02070002, 2.2 miles (3.5 km) north of U.S. Route 50 on State Route 42 at Sulphur City near Elk Garden.

Owner: Gerald Whisner.

AQUIFER.--Conemaugh Formation of Late Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 37 ft (11.3 m), cased with steel.

DATUM.--Land-surface datum is about 2,480 ft (756 m) above mean sea level. Measuring point: Top of casing, 0.7 ft (0.21 m) above land-surface datum.

REMARKS.--Well flows at times. Water level affected by recent pumpage.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, +0.69 ft (0.21 m) above land-surface datum, many days since 1968; lowest measured, 10.81 ft (3.29 m) below land-surface datum, Oct. 29, 1968.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 3	-0.70	DEC 5	-0.60	FEB 6	+0.60	APR 2	-1.20	JUN 4	-2.50	AUG 6	-6.20
10	0.50	12	1.50	13	+0.50	9	2.10	11	2.40	13	6.60
17	0.50	19	-1.70	20	-0.70	16	1.70	18	3.90	20	7.10
24	0.70	26	0	27	0.70	23	0.90	25	4.00	27	7.20
NOV 28	-0.70	JAN 2	+0.10	MAR 5	0.60	30	0.90	JUL 2	4.10	SEP 3	7.10
		9	0.15	12	0.50	MAY 7	1.10	9	4.70	10	7.20
		16	0.40	19	0.40	14	2.10	16	4.90	17	7.20
		23	0.50	26	-1.20	21	2.70	23	5.10	24	-7.20
		30	+0.60			28	-2.60	30	-6.20		

MONONGALIA COUNTY

394006080194801. Local number, 9-1-47.

LOCATION.--Lat 39°40'06", long 80°19'48", Hydrologic Unit 05020005, 1 mile (1.6 km) east of Wadestown on State Route 7.

Owner: Howard Shriver.

AQUIFER.--Dunkard Group of Permian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 65 ft (19.8 m), cased with steel.

DATUM.--Land-surface datum is about 1,060 ft (323 m) above mean sea level. Measuring point: Top of casing, 1.2 ft (0.37 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.83 ft (1.78 m) below land-surface datum, Dec. 18, 1975; lowest measured, 11.35 ft (3.46 m) below land-surface datum, Aug. 6, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 2	6.16	DEC 4	5.91	FEB 5	6.33	APR 6	6.53	JUN 1	7.19	AUG 5	7.70
9	6.14	11	5.88	12	6.13	13	6.79	8	7.96	12	7.79
16	6.09	18	5.83	18	6.19	20	6.98	15	7.97	19	7.87
23	5.98	25	5.94	24	6.21	28	6.88	23	7.66	26	8.06
30	6.29	JAN 1	6.03	MAR 3	6.79	MAY 4	6.89	JUL 1	7.25	SEP 2	8.19
NOV 6	6.10	8	6.06	10	6.53	11	7.27	8	7.24	9	8.27
13	6.06	15	6.10	17	6.49	19	7.16	15	7.26	16	8.38
20	5.96	22	6.18	22	6.49	26	7.17	22	7.28	23	8.39
27	5.94	29	6.22	30	6.42			29	7.56	30	7.66

GROUND-WATER LEVELS

415

MONONGALIA COUNTY--Continued

392923079571801. Local number, 9-7-33.

LOCATION.--Lat 39°29'23", long 79°57'18", Hydrologic Unit 05020003, 1 mile (1.6 km) northwest of Halleck on Secondary State Route 79.

Owner: Paul H. Price.

AQUIFER.--Buffalo-Mahoning Sandstone of Conemaugh Formation of Upper Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 141 ft (43.0 m), cased with steel to 21 ft (6.40 m).

DATUM.--Land-surface datum is about 1,850 ft (564 m) above mean sea level. Measuring point: Top of casing, flush with shelter floor, 0.35 ft (0.11 m) above land-surface datum.

PERIOD OF RECORD.--March 1953 to May 1961, monthly water-level measurements, May 1961 to May 1962, water-level recorder, May 1962 to current year, monthly water-level measurements.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.95 ft (12.48 m) below land-surface datum, Jan. 4, 1960; lowest measured, 80.57 ft (24.56 m) below land-surface datum, Oct. 25, 1973.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	65.73	DEC 23	59.35	FEB 24	53.85	APR 26	59.35	JUN 24	74.85	AUG 25	73.18
NOV 20	59.00	JAN 27	55.30	MAR 25	57.30	MAY 20	57.65	JUL 22	74.32	SEP 24	73.00

MONROE COUNTY

373435080323101. Local number, 47-3-3.

LOCATION.--Lat 37°34'35", long 80°32'31", Hydrologic Unit 05050002, 1.3 miles (2.1 km) south of Union on Secondary State Route 13.

Owner: Robert Riner.

AQUIFER.--Greenbrier Group of Middle Mississippian Age.

WELL CHARACTERISTICS.--Drilled water-table well, diameter 6 in (0.15 m), depth 133 ft (40.5 m), cased with steel to 12 ft (3.66 m).

DATUM.--Land-surface datum is about 2,050 ft (625 m) above mean sea level. Measuring point: Top of sanitary seal on casing, 0.6 ft (0.18 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 49.60 ft (15.12 m) below land-surface datum, Mar. 1, 1972; lowest measured, 53.36 ft (16.26 m) below land-surface datum, Oct. 20, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	52.10	DEC 3	52.10	FEB 4	52.00	APR 7	51.30	JUN 2	51.50	AUG 4	51.90
8	51.90	10	52.30	11	51.70	14	51.40	9	51.40	11	51.80
15	51.80	17	52.10	18	51.50	21	51.60	16	51.60	18	52.00
22	51.90	24	51.70	25	51.30	28	51.50	23	51.30	25	52.00
29	52.00	31	51.90	MAR 3	51.20	MAY 5	51.40	30	51.50	SEP 1	51.90
NOV 5	52.00	JAN 7	52.00	10	51.30	12	51.60	JUL 7	51.60	8	52.00
12	52.10	14	52.00	17	51.40	19	51.30	14	51.70	15	51.80
19	51.90	21	52.20	24	51.20	26	51.40	21	51.70	22	52.00
26	52.00			31	51.50			28	51.80	29	52.10

MORGAN COUNTY

393043078174001. Local number, 19-5-14.

LOCATION.--Lat 39°30'43", long 78°17'40", Hydrologic Unit 02070004, on Cacapon State Park south of Berkeley Springs on U.S. Route 522.

Owner: West Virginia Department of Natural Resources.

AQUIFER.--Tonoloway Formation of Upper Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.20 m), reported depth 250 ft (76.2 m), cased with steel to 33 ft (10.1 m).

DATUM.--Land-surface datum is about 875 ft (267 m) above mean sea level. Measuring point: Top of breather pipe, in cap on casing, 1.2 ft (0.37 m) above land-surface datum.

REMARKS.--Water-level measurements for 1975 Water Year, not previously published, shown below.

PERIOD OF RECORD.--July 1971 to July 1973, November 1974 to March 1975, weekly water-level measurements, July 1976 to current year, monthly water-level measurements.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.40 ft (9.57 m) below land-surface datum, Mar. 19, 1975; lowest measured, 37.80 ft (11.52 m) below land surface datum, Sept. 8, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 6	34.34	DEC 4	32.58	JAN 2	33.49	JAN 29	32.78	FEB 26	33.18		
13	33.66	11	32.46	8	33.40	FEB 5	32.95	MAR 5	33.20		
20	33.54	18	32.60	15	32.70	12	33.35	12	32.59		
27	33.18	26	33.60	22	32.98	19	32.78	19	31.40		

WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JUL 20	34.04	AUG 24	34.24	SEP 21	33.61

GROUND-WATER LEVELS

NICHOLAS COUNTY

381301080562201. Local number, 37-5-1.

LOCATION.--Lat 38°13'01", long 80°56'22", Hydrologic Unit 05050005, on Carnifex Ferry Battlefield State Park on Secondary State Route 23.

Owner: West Virginia Department of Natural Resources.

AQUIFER.--Pottsville Group of Lower Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 106 ft (32.3 m), cased with steel.

DATUM.--Land-surface datum is about 1,620 ft (494 m) above mean sea level. Measuring point: Top of concrete slab at land-surface datum.

PERIOD OF RECORD.--December 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 52.30 ft (15.94 m) below land-surface datum, Dec. 23, 1970; lowest measured, 59.95 ft (18.27 m) below land-surface datum, Mar. 10, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	58.94	DEC 3	58.40	FEB 4	58.98	APR 7	57.94	JUN 2	58.92	AUG 4	58.45
9	58.97	10	58.00	11	58.98	14	57.94	10	58.98	13	58.35
15	59.08	17	58.90	18	58.97	21	59.00	17	58.95	18	58.58
23	58.96	24	58.00	25	58.00	28	58.96	24	58.90	25	58.54
29	59.00	31	58.00	MAR 3	59.10	MAY 5	58.00	30	58.87		
NOV 5	58.98	JAN 7	57.89	10	59.95	12	58.40	JUL 7	58.97		
12	58.89	14	56.85	17	59.90	19	58.00	14	58.91		
20	58.89	21	56.85	24	58.94	26	58.92	21	58.90		
26	58.36	28	58.98	31	58.96			29	58.32		

POCAHONTAS COUNTY

380634080164801. Local number, 44-4-1.

LOCATION.--Lat 38°06'34", long 80°16'48", Hydrologic Unit 05050003, on Droop Mountain State Park north of Droop on U.S. Route 219.

Owner: West Virginia Department of Natural Resources.

AQUIFER.--Mauch Chunk Group of Upper Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 153 ft (46.6 m), cased with steel to 20 ft (6.10 m).

DATUM.--Land-surface datum is about 2,700 ft (823 m) above mean sea level. Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--December 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 66.20 ft (20.18 m) below land-surface datum, Dec. 7, 1971; lowest measured, 79.23 ft (24.15 m) below land-surface datum, Oct. 1, 1970.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	69.65	OCT 28	69.55	NOV 18	68.80	DEC 9	69.40	DEC 30	69.05	JAN 20	69.10
14	69.70	NOV 4	69.40	25	68.75	16	69.00	JAN 6	69.35		
21	69.60	11	68.85	DEC 2	69.40	23	69.30	13	69.10		

380708080102201. Local number, 44-4-9.

LOCATION.--Lat 38°07'08", long 80°10'22", Hydrologic Unit 05050003, on Watoga State Park 7 mi (11.3 km) southwest of Huntersville on Secondary State Route 21.

Owner: West Virginia Department of Natural Resources.

AQUIFER.--Hampshire Formation of Upper Devonian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 53 ft (16.2 m), cased with steel.

DATUM.--Land-surface datum is about 2,100 ft (640 m) above mean sea level. Measuring point: Top of seal on casing, 0.55 ft (0.17 m) above land-surface datum.

PERIOD OF RECORD.--December 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.65 ft (0.20 m) below land-surface datum, Apr. 15, 1975; lowest measured, 12.11 ft (3.69 m) below land-surface datum, Aug. 5, 1975.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	11.75	OCT 21	9.21	NOV 4	10.89	NOV 18	10.25				
14	11.85	28	10.85	11	10.55						

380630080074401. Local number, 44-4-10.

LOCATION.--Lat 38°06'30", long 80°07'44", Hydrologic Unit 05050003, on Watoga State Park 7 mi (11.3 km) southwest of Huntersville on Secondary State Route 21.

Owner: West Virginia Department of Natural Resources.

AQUIFER.--Hampshire Formation of Upper Devonian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), reported depth 285 ft (86.9 m), cased with steel.

DATUM.--Land-surface datum is about 3,050 ft (930 m) above mean sea level. Measuring point: Top of casing, 0.85 ft (0.26 m) above land-surface datum.

PERIOD OF RECORD.--December 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.35 ft (4.68 m) below land-surface datum, July 27, 1971; lowest measured, 22.87 ft (6.97 m) below land-surface datum, Oct. 30, 1973.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 7	20.03	OCT 21	19.75	NOV 4	20.01	NOV 18	19.75				
14	20.11	28	19.95	11	19.95						

GROUND-WATER LEVELS

417

PRESTON COUNTY

393306079474501. Local number, 11-3-8.

LOCATION.--Lat 39°33'06", long 79°47'45", Hydrologic Unit 05020003, East Depot Street, Masontown.

Owner: G. E. Lemmons.

AQUIFER.--Sandstone of Pottsville Formation of Lower Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 8 in (0.20 m), depth 785 ft (239 m), cased to 350 ft (107 m), perforated at or near Upper Freeport Coal.

DATUM.--Land-surface datum is about 1,770 ft (539 m) above mean sea level. Measuring point: Top of casing, 3.0 ft (0.91 m) below land surface datum.

PERIOD OF RECORD.--July 1941 to July 1946, weekly water-level measurements, July 1946 to October 1948, water-level recorder, October 1948 to October 1950, weekly water-level measurements, October 1950 to current year, monthly water-level measurements.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.15 ft (2.18 m) below land-surface datum, Jan. 20, 1947; lowest water level measured, 108 ft (32.9 m) below land-surface datum, Feb. 3, 1959.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	65.68	DEC 23	64.05	FEB 24	64.50	APR 26	65.45	JUN 24	65.50	AUG 25	65.95
NOV 20	64.70	JAN 27	65.33	MAR 25	64.80	MAY 20	65.50	JUL 22	64.75	SEP 24	66.05

392053079400401. Local number, 11-7-14.

LOCATION.--Lat 39°20'53", long 79°40'04", Hydrologic Unit 05020004, on left bank of Cheat River downstream from Rowlesburg Water Plant.

Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chemung Formation of Upper Devonian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in (0.20 m), depth 104 ft (31.7 m), cased with steel.

DATUM.--Land-surface datum is about 1,400 ft (427 m) above mean sea level. Measuring point: Top of casing under recorder shelter, 1.6 ft (0.49 m) above land-surface datum.

REMARKS.--Water level affected by stage of Cheat River.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.64 ft (1.41 m) below land-surface datum, Dec. 9, 1972; lowest water level, 14.84 ft (4.52 m) below land-surface datum, Aug. 16, 1975.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
NOON VALUES FROM DIGITAL RECORDER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.31	11.41	11.43	9.22	10.64	10.93	9.57	11.22	11.62	11.82	11.83	12.25
10	11.48	11.41	11.01	10.50	10.25	11.18	10.66	11.43	11.78	11.92	11.85	12.25
15	11.32	10.57	10.63	9.83	8.75	10.24	11.13	11.59	11.85	11.56	12.01	12.07
20	10.22	10.81	10.58	10.76	9.63	10.17	11.31	10.76	11.62	11.41	12.12	11.64
25	10.99	11.13	11.14	10.88	9.99	10.04	11.36	11.35	11.42	10.48	12.26	11.70
Eom	11.32	11.32	9.80	10.06	10.45	10.77	11.32	11.56	11.47	11.46	12.21	11.31

WTR YEAR 1976 MAX 6.90 JAN 1, 1976 MIN 12.31 SEP 7, 8, 1976

RALEIGH COUNTY

374607081122201. Local number, 43-3-8.

LOCATION.--Lat 37°46'07", long 81°12'22", Hydrologic Unit 05050004, near State Route 16, Mabscott.

Owner: Beckley Water Company.

AQUIFER.--New River Series of Lower Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.20 m), depth 475 ft (145 m).

DATUM.--Land-surface datum is about 2,285 ft (696 m) above mean sea level. Measuring point: Top of casing, 1 ft (0.30 m) above land-surface datum.

PERIOD OF RECORD.--August and September 1959, weekly water-level measurements, November 1959 to July 1962, water-level recorder, December 1962 to current year, weekly water-level measurements.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.03 ft (3.97 m) below land-surface datum, Dec. 27, 1972; lowest measured, 37.13 ft (11.32 m) below land-surface datum, Dec. 15, 1965.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	18.14	DEC 3	18.39	FEB 4	15.41	APR 7	16.41	JUN 2	19.78	AUG 4	21.81
8	18.56	10	18.59	11	15.10	14	17.25	9	20.63	11	21.65
15	19.00	17	18.31	18	15.03	21	17.35	16	21.00	18	21.49
22	18.90	24	18.16	28	15.23	28	18.11	23	20.57	25	21.99
29	18.72	31	18.97	MAR 3	15.35	MAY 5	19.28	30	20.73	SEP 1	22.30
NOV 5	18.82	JAN 7	15.50	10	15.83	12	19.10	JUL 7	21.00	8	22.54
12	18.97	14	15.80	17	16.08	19	19.11	14	20.88	15	22.77
19	18.88	21	16.08	24	16.34	26	19.12	21	20.74	22	23.09
26	18.67	28	15.85	31	16.37			28	20.89	29	22.83

GROUND-WATER LEVELS

RANDOLPH COUNTY

385341079575401. Local number, 18-3-110.

LOCATION.--Lat 38°53'41", long 79°57'54", Hydrologic Unit 05020001, 0.2 mi (0.32 km) east of Coalton High School, Coalton.

Owner: Presbyterian Church.

AQUIFER.--Homewood Sandstone of Pottsville Group of Early Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled exploratory water-table well, diameter 6 in (0.15 m), depth 155 ft (47.2 m), cased.

DATUM.--Land-surface datum is 2,173 ft (662 m) above mean sea level. Measuring point: Floor of shelter box, 2.45 ft (0.75 m) above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--December 1966 to October 1967, monthly water-level measurements, July 1968 to current year, water-level recorder.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.85 ft (3.31 m) below land-surface datum, Dec. 12, 1966; lowest water level, 23.35 ft (7.12 m) below land-surface datum, Oct. 28, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
NOON VALUES FROM GRAPHIC RECORDER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5				12.05	12.20	12.27	11.75	12.31	11.75	12.69	12.54	16.98
10			12.75	12.21	12.00	12.38	12.01	12.33	11.71	12.74	12.72	14.48
15		14.77	12.59	11.99	11.80	12.15	12.21	12.45	11.59	13.10	12.81	13.50
20			12.38	.....	12.02	12.04	12.34	12.27	11.85	12.65	13.12	13.23
25			12.47	.....	12.02	11.85	12.41	12.14	12.22	15.65	14.01	15.80
Eom			12.15	12.03	12.05	12.01	12.49	11.96	12.42	12.21	14.40	13.25

WTR YEAR 1976 MAX 11.52 JUN 13, 1976 MIN 16.98 SEP 5, 1976

385509079311401. Local number, 18-5-44.

LOCATION.--Lat 38°55'09", long 79°31'14", Hydrologic Unit 05020004, on U.S. Route 33, Harman.

Owner: Jack E. Judy.

AQUIFER.--Pocono Formation of Lower Mississippian Age.

WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in (0.15 m), depth 67 ft (20.4 m), cased with steel.

DATUM.--Land-surface datum is about 2,390 ft (728 m) above mean sea level. Measuring point: Top of casing, 1.4 ft (0.43 m) above land-surface datum.

REMARKS.--Water level affected by nearby pumping.

PERIOD OF RECORD.--July 1971 to August 1973, weekly water-level measurements, September 1976 to current year, weekly water-level measurements.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.75 ft (2.67 m) below land-surface datum, Jan. 5, 1973; lowest measured, 12.46 ft (3.80 m) below land-surface datum, July 9, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP 3	11.47	SEP 10	11.62	SEP 17	10.45	SEP 24	11.75				

RITCHIE COUNTY

391226081024901. Local number, 28-3-3.

LOCATION.--Lat 39°12'26", long 81°02'49", Hydrologic Unit 05030203, at Stout and East South Street, Harrisville.

Owner: Terry Stonestreet.

AQUIFER.--Dunkard Formation of Pennsylvanian or Permian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 118 ft (36.0 m), cased with steel.

DATUM.--Land-surface datum is about 840 ft (256 m) above mean sea level. Measuring point: Top of casing, 1.2 ft (0.37 m) above land-surface datum.

REMARKS.--Formerly public-supply well.

PERIOD OF RECORD.--August 1966 to October 1966, weekly water-level measurements, April 1968 to September 1975, water-level recorder, October 1975 to July 1976, monthly water-level measurements, July 1976 to current year, water-level recorder.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.92 ft (5.46 m) below land-surface datum, Apr. 2, 1970; lowest water level measured, 21.80 ft (6.64 m) below land-surface datum, Sept. 7, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, FOR PERIOD OCTOBER 1975 TO JULY 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23	18.85	DEC 15	18.70	FEB 24	19.20	APR 19	19.62	JUN 24	19.28		
NOV 25	19.12	JAN 26	18.87	MAR 25	19.00	MAY 21	19.50	JUL 26	18.48		

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, FOR PERIOD JULY TO SEPTEMBER 1976
NOON VALUES FROM DIGITAL RECORDER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5											19.28	19.34
10											19.10	19.46
15											19.18	19.65
20											19.16	19.62
25											19.47	19.94
Eom										18.84	19.39	19.17

WTR YEAR 1976 MAX 18.48 JUL 26, 1976 MIN 20.02 SEP 24, 1976

GROUND-WATER LEVELS

419

TUCKER COUNTY

390135079275601. Local number, 15-6-17.

LOCATION.--Lat 39°01'35", long 79°27'56", Hydrologic Unit 05020004, at Canaan Valley State Park off W. Va. State Route 32.

Owner: West Virginia Department of Natural Resources.

AQUIFER.--Pocono Formation of Lower Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in (0.20 m) depth 281 ft (85.6 m), cased with steel.

DATUM.--Land-surface datum is about 3,275 ft (998 m) above mean sea level. Measuring point: Top of casing, 1.55

ft (0.47 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.05 ft (2.45 m) below land-surface datum, Dec. 11, 1972; lowest measured, 11.54 ft (3.52 m) below land-surface datum, July 19, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 6	9.95	OCT 20	10.40	DEC 8	10.13	DEC 22	10.00				
14	10.18	DEC 1	10.01	15	10.09						

WAYNE COUNTY

375827082211501. Local number, 50-6-5.

LOCATION.--Lat 37°58'27", long 82°21'15", Hydrologic Unit 05090102, on Cabwaylingo State Forest on Secondary State Route 35.

Owner: West Virginia Department of Natural Resources.

AQUIFER.--Pottsville Group of Lower Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in (0.15 m), depth 119 ft (36.3 m), cased with steel.

DATUM.--Land-surface datum is about 740 ft (226 m) above mean sea level. Measuring point: Top of casing, 1.3 ft (0.40 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.70 ft (8.44 m) below land-surface datum, Jan. 5 and Mar. 1, 1972; lowest measured, 30.62 ft (9.33 m) below land-surface datum, June 16, 1971.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	29.10	DEC 3	29.40	MAR 3	28.95	MAY 5	29.40	JUL 7	29.55	SEP 1	29.80
8	29.10	10	29.40	10	28.90	12	29.40	14	29.50	8	29.80
15	29.00	17	29.45	17	28.90	19	29.43	21	29.50	15	29.60
22	29.00	20	29.40	24	28.70	21	29.45	AUG 4	29.40	22	29.60
29	29.40	31	29.40	31	28.80	JUN 2	29.45	11	29.50	29	29.60
NOV 5	29.40	JAN 7	29.40	APR 7	29.00	9	29.45	18	29.50		
12	29.45	14	29.45	14	29.20	16	29.50	24	29.80		
19	29.40	21	29.50	21	29.40	23	29.55				
25	29.40			28	29.40	30	29.55				

WEBSTER COUNTY

382254080271501. Local number, 36-3-12.

LOCATION.--Lat 38°22'54", long 80°27'15", Hydrologic Unit 05050005, on Secondary State Route 46/2 near Dyer.

Owner: Glen Dodrill.

AQUIFER.--Mauch Chunk Group of Upper Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in (0.15 m), depth 40 ft (12.2 m), cased with steel.

DATUM.--Land-surface datum is about 2,230 ft (680 m) above mean sea level. Measuring point: Top of casing, 1.5 ft

(0.46 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.70 ft (1.43 m) below land-surface datum, July 5, 1972; lowest measured, 7.80 ft (2.38 m) below land-surface datum, June 16, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	6.10	DEC 3	6.50	FEB 4	5.90	APR 7	6.30	JUN 2	6.85	AUG 4	7.10
8	6.50	10	6.20	11	5.80	14	6.80	9	7.45	11	6.95
15	6.40	14	6.40	18	5.80	21	7.05	16	7.80	18	7.15
22	6.20	24	6.75	25	6.20	28	7.10	23	7.70	25	7.50
29	6.50	31	6.50	MAR 3	6.50	MAY 5	7.15	30	7.30	SEP 1	7.70
NOV 5	6.30	JAN 7	6.25	10	6.00	12	7.20	JUL 7	7.00	8	7.00
12	5.90	14	6.10	17	5.90	19	6.40	14	6.10	15	7.50
19	5.90	21	6.00	24	6.10	26	6.70	21	6.00	22	7.15
26	6.40	28	6.10	31	5.80			28	6.60	29	6.40

GROUND-WATER LEVELS

WETZEL COUNTY

392858080373401. Local number, 6-6-8.

LOCATION.--Lat 39°28'58", long 80°37'34", Hydrologic Unit 05030201, on Secondary State Route 82 in Lewis Wetzel Public Hunting Area near Jacksonburg.

Owner: West Virginia Department of Natural Resources.

AQUIFER.--Dunkard Group of Permian Age.

WELL CHARACTERISTICS.--Drilled unused water-table, diameter 6 in (0.15 m) depth 76 ft (23.2 m), cased with steel. DATUM.--Land-surface datum is about 890 ft (271 m) above mean sea level. Measuring point: Top of casing, 1.1 ft (0.34 m) above land-surface datum.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.10 ft (1.86 m) below land-surface datum, Nov. 28, 1973; lowest measured, 19.90 ft (6.07 m) below land-surface datum, July 3, 1974, Aug. 20, 1975, and Apr. 21, 1976.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 1	19.80	DEC 3	14.30	FEB 3	10.70	APR 7	15.30	JUN 2	9.70	AUG 4	11.30
8	16.30	10	7.80	10	11.80	14	13.30	9	11.70	18	14.70
15	16.70	17	9.90	17	12.50	21	19.90	16	12.50	25	12.60
22	12.20	24	9.30	24	13.70	28	16.30	23	13.10	SEP 1	13.90
29	16.40	31	12.50	MAR 3	15.90	MAY 5	15.60	30	12.20	8	14.50
NOV 5	18.60	JAN 7	9.70	10	18.70	12	18.10	JUL 7	16.50	15	15.00
12	11.80	14	15.60	17	10.80	19	16.30	14	17.80	22	16.70
19	14.50	22	14.40	24	8.00			21	11.70	29	13.50
26	14.80	28	13.40	31	15.50			28	15.50		

WOOD COUNTY

391712081333201. Local number, 27-3-22.

LOCATION.--Lat 39°17'12", long 81°33'32", Hydrologic Unit 05030202, near collector well at City of Parkersburg Water Works.

Owner: City of Parkersburg.

AQUIFER.--Gravel.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 5 in (0.13 m), depth 55 ft (16.8 m), cased with steel to 55 ft (16.8 m).

DATUM.--Land-surface datum is about 601 ft (183 m) above mean sea level. Measuring point: Top of casing, 2.94 ft (0.90 m) above land-surface datum.

REMARKS.--Water level affected by local pumping and from stage of the Ohio River.

PERIOD OF RECORD.--April 1943 to April 1945, various intermittent water-level measurements, January 1946 to current year, water-level recorder.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, *16.06 ft (4.90 m) below land-surface datum, Feb. 23, 1971; lowest, 37.75 ft (11.51 m) below land-surface datum, Feb. 12, 1948

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
NOON VALUES FROM GRAPHIC RECORDER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.66	23.96	25.33	24.18	25.58	23.73	25.05	26.26	26.13	26.61	25.80	26.38
10	24.64	24.02	25.23	24.91	25.83	24.14	25.34	26.22	26.22	26.53	25.22	26.44
15	24.46	23.57	25.48	25.38	25.44	24.46	25.71	26.21	26.63	26.39	25.59	26.60
20	23.16	24.03	24.99	24.61	22.85	24.87	25.97	26.12	26.92	26.72	25.57	26.67
25	23.46	24.68	25.72	24.09	22.82	24.55	26.17	*26.50	26.90	26.58	26.31	26.71
Eom	23.87	25.05	25.25	24.94	23.11	25.15	26.30	26.33	26.57	26.71	26.36	26.72

WTR YEAR 1976 MAX 22.56 FEB 21, 1976 MIN 27.03 MAY 28, 1976

* Estimated.

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FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

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
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^1	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	*hectares (ha)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	**liters (l)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons (10 ⁶ gal)	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days [(ft ³ /s) · d]	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (l/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (l/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day (mgal/d)	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	tonnes (t)

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

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

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